

ORIGINAL ARTICLE

Common Diseases in Clinical Cohorts —
Not Always What They Seem

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ABSTRACT

BACKGROUND

Misdiagnosis or underdiagnosis of rare diseases in patients with diagnoses of common diseases can lead to delayed or inappropriate treatments, thereby complicating the management of both rare and common conditions. Despite advances in molecular diagnostic techniques, the effect of rare diseases on the diagnosis of common diseases in research and clinical trials has not been comprehensively investigated.

METHODS

We used exome- and genome-sequencing data from participants in the U.K. Biobank, a research study, and five clinical trials involving patients who had received a primary diagnosis of multiple sclerosis, inflammatory bowel disease, or atopic dermatitis to assess the incidence of monogenic rare diseases that often manifest with clinical symptoms overlapping with those of these common diseases.

RESULTS

We identified 153 U.K. Biobank participants who carried a rare variant that contributes to a molecular diagnosis of a monogenic disorder — 53 of 1850 (2.86%) with a diagnosis of multiple sclerosis, 75 of 6681 (1.12%) with a diagnosis of inflammatory bowel disease, and 25 of 998 (2.50%) with a diagnosis of atopic dermatitis. We replicated the findings regarding such rare disease-causing variants in two independent cohorts — one including patients with a diagnosis of multiple sclerosis, and the other patients with a diagnosis of inflammatory bowel disease — who had undergone genome sequencing for research and for clinical trials, respectively. By combining genome and transcriptome analyses, we showed that molecular diagnosis can potentially elucidate mechanisms of inadequate response to therapeutic intervention.

CONCLUSIONS

Our study shows the value of systematic genome sequencing in understanding the phenotypic heterogeneity of common diseases and identifying failure to diagnose rare diseases and highlights the benefits of deep molecular phenotyping in clinical trials and patient care. (Funded by AbbVie and NIHR Cambridge Biomedical Research Centre.)

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ACCURATE AND TIMELY DIAGNOSIS IS crucial in health care because it explains a patient's health issue and guides treatment decisions. However, misdiagnoses have always affected the delivery of quality health care and continue to harm an unacceptable number of patients. It is estimated that 5% of U.S. adults who seek medical care each year receive a diagnostic error,¹ sometimes with severe consequences.² The adoption of high-throughput DNA-sequencing technology has dramatically increased the rate and speed of making a correct diagnosis, primarily in patients with cancer or rare or undiagnosed diseases,³ leading to notable improvements in clinical care.⁴

Ascertaining the root cause of a disease not only improves the ability to make a correct diagnosis but also is fundamental to the development of therapeutic or preventive measures. Patient recruitment for clinical trials typically depends on the clinical signs and symptoms of the disease under study, along with specific inclusion and exclusion criteria. Because of misdiagnosis or underdiagnosis, a small fraction of these patients might carry a rare variant capable of causing a monogenic disease that mimics the common disease under study. In addition, patients affected by both common and rare diseases might have more severe or different coexisting conditions. Consequently, a therapeutic agent targeting the underlying pathogenesis of a disease may not elicit a response in patients with a distinct disease mechanism, thus potentially affecting the study outcome.

Here, we investigated the presence of monogenic disease-causing variants within cohorts of patients with diagnoses of common diseases. We selected four common and complex diseases — multiple sclerosis, two inflammatory bowel diseases (Crohn's disease and ulcerative colitis), and atopic dermatitis — and tested for the co-occurrence of rare diseases by identifying clinically defined molecular diagnoses of diseases that manifest with symptoms overlapping with those of each of these four conditions.

METHODS

DISEASE CASES AND COHORTS

The U.K. Biobank is a prospective, population-based cohort study involving more than 500,000

participants in the United Kingdom who were recruited between the ages of 40 and 69 years from 2006 through 2010. Health outcome data were obtained through links to electronic health records (inpatient hospital records in the Hospital Episode Statistics database and primary care [general practitioner] records) and cancer and death registries. Disease cases were identified with the use of diagnosis codes from the *International Classification of Diseases* (ICD), which were recorded by clinical coders on the basis of patient medical notes from their hospital stay. Cases of multiple sclerosis and inflammatory bowel disease were ascertained with the use of both the 9th and 10th revisions of the ICD. Atopic dermatitis cases were defined by a combination of the ICD codes and a history of topical glucocorticoid treatment for atopic dermatitis. Details regarding sequencing and analysis of U.K. Biobank exomes⁵ are included in Supplementary Appendix 1, available with the full text of this article at NEJM.org.

Because the disease diagnoses in the U.K. Biobank cohort were extracted from electronic health records, there is a risk of misdiagnosis due to administrative errors, such as disease misclassification, or a lack of specific ICD codes for some rare diseases identified in our study. Moreover, rare disease-associated variants discovered in clinical studies (i.e., in participants specifically recruited for gene discovery purposes) often show incomplete penetrance or variable expressivity in the general population.⁶ Therefore, we regarded the U.K. Biobank cohort as a discovery cohort and went on to test for the presence of monogenic disease-causing variants in follow-up cohorts comprising participants recruited for research (the Genuity Science cohort of patients with multiple sclerosis) and for the clinical trials in inflammatory bowel disease. These participants underwent more rigorous phenotyping than the U.K. Biobank participants and were thus evaluated as follow-up cohorts.

The Genuity Science cohort of persons with multiple sclerosis had undergone genome sequencing by Genuity Science. A total of 2025 participants in Ireland and 5450 in the United Kingdom were recruited prospectively from neurology clinics or retrospectively from existing biobanks. All were adults (≥18 years of age at the

time of diagnosis), and their diagnosis was made by trained neurologists on the basis of the revised McDonald criteria of 2013.⁷ Clinical data were extracted and curated through retrospective medical record reviews by trained health care professionals. Participants with diagnoses of other conditions that may cause neurologic symptoms similar to those of multiple sclerosis, such as Sjögren's syndrome, hereditary myelopathies, brain tumors, and structural damage to the brain or spinal cord, were excluded from recruitment.

An additional follow-up cohort comprised participants from five clinical trials of treatment for inflammatory bowel disease (Crohn's disease or ulcerative colitis). The SERENE trials were two phase 3, multicenter, double-blind, randomized clinical trials that were conducted in parallel to evaluate the efficacy of more intensive as compared with standard induction and maintenance dose regimens of adalimumab (an anti-tumor necrosis factor α [anti-TNF- α] antibody) for the treatment of Crohn's disease (the SERENE CD trial)⁸ and ulcerative colitis (the SERENE UC trial).⁹ At enrollment, all the participants had a diagnosis of moderate-to-severe, active Crohn's disease or ulcerative colitis, made by trained gastroenterologists. Pediatric patients were excluded, and the age of the participants at baseline ranged from 18 to 75 years. Among the SERENE trial participants, genome sequencing was performed in 293 with Crohn's disease and in 275 with ulcerative colitis, who were selected on the basis of a variable response to treatment (see the Supplementary Methods in Supplementary Appendix 1). The other three trials (also phase 3) assessed the efficacy and safety of upadacitinib (an oral selective Janus kinase 1 inhibitor) for ulcerative colitis¹⁰ and of risankizumab (an interleukin-23 inhibitor) for Crohn's disease¹¹ and ulcerative colitis.¹² Among these trial participants, exome sequencing was performed in 287 with Crohn's disease and in 625 with ulcerative colitis.

Our study was funded by AbbVie, which participated in the design and conduct of the study, the interpretation of data, and the review and approval of the manuscript for submission. The authors vouch for the accuracy and completeness of the data, and written informed consent was obtained from all the participants.

ASSEMBLY AND ANALYSIS OF GENE PANELS FOR MONOGENIC DISEASES

Monogenic disease genes were compiled with the use of broad definitions that capture the most commonly recognized clinical symptoms of multiple sclerosis, inflammatory bowel disease, and atopic dermatitis. The PhoRank gene-ranking algorithm, implemented in VarSeq software, version 2.2.5 (Golden Helix), was used to build three gene panels, one for each disease. This algorithm ranks genes on the basis of their relevance to user-specified phenotypes as defined according to the Human Phenotype Ontology (HPO, a standardized vocabulary of phenotypic abnormalities encountered in human diseases¹³) and Gene Ontology biomedical terminology.¹⁴ For each of the common diseases, we used two HPO terms — HP:0002715 (abnormality of the immune system) and HP:0000707 (abnormality of the nervous system) for multiple sclerosis, HP:0002715 and HP:0004386 (gastrointestinal inflammation) for inflammatory bowel disease, and HP:0002715 and HP:0000951 (abnormality of the skin) for atopic dermatitis. These queries yielded 1973 genes for multiple sclerosis, 1285 genes for inflammatory bowel disease, and 2385 genes for atopic dermatitis; the associations of these genes with monogenic diseases were further refined by manual curation with the Online Mendelian Inheritance in Man database.¹⁵ Mitochondrial genes, nondisease genes, and genes associated with multifactorial or infectious diseases or with unknown inheritance were excluded. The remaining 1673 genes (for multiple sclerosis), 1044 genes (for inflammatory bowel disease), and 1500 genes (for atopic dermatitis) were used for pathogenic variant screening. For each of the three gene panels, we queried the exome-sequencing data in the discovery cohort (U.K. Biobank) and the follow-up cohorts for rare variants with allele frequencies of less than 1% in the entire dataset (Fig. 1). Allele frequencies were calculated with the SeqArray R package, version 1.35.7.¹⁶ Next, we attempted to assign pathogenicity to these variants and determine their associations with known monogenic diseases in accordance with variant-classification guidelines recommended by the American College of Medical Genetics and Genomics (ACMG).¹⁷ Variant pathogenicity was assessed with VarSeq software, version 2.2.5.

For gene nomenclature, we used the Human Genome Organisation Gene Nomenclature Committee–approved symbols and all known aliases, which are shown in Tables S1, S2, and S3 (Tables S1 through S18 are provided in Supplementary Appendix 2).

STATISTICAL ANALYSIS

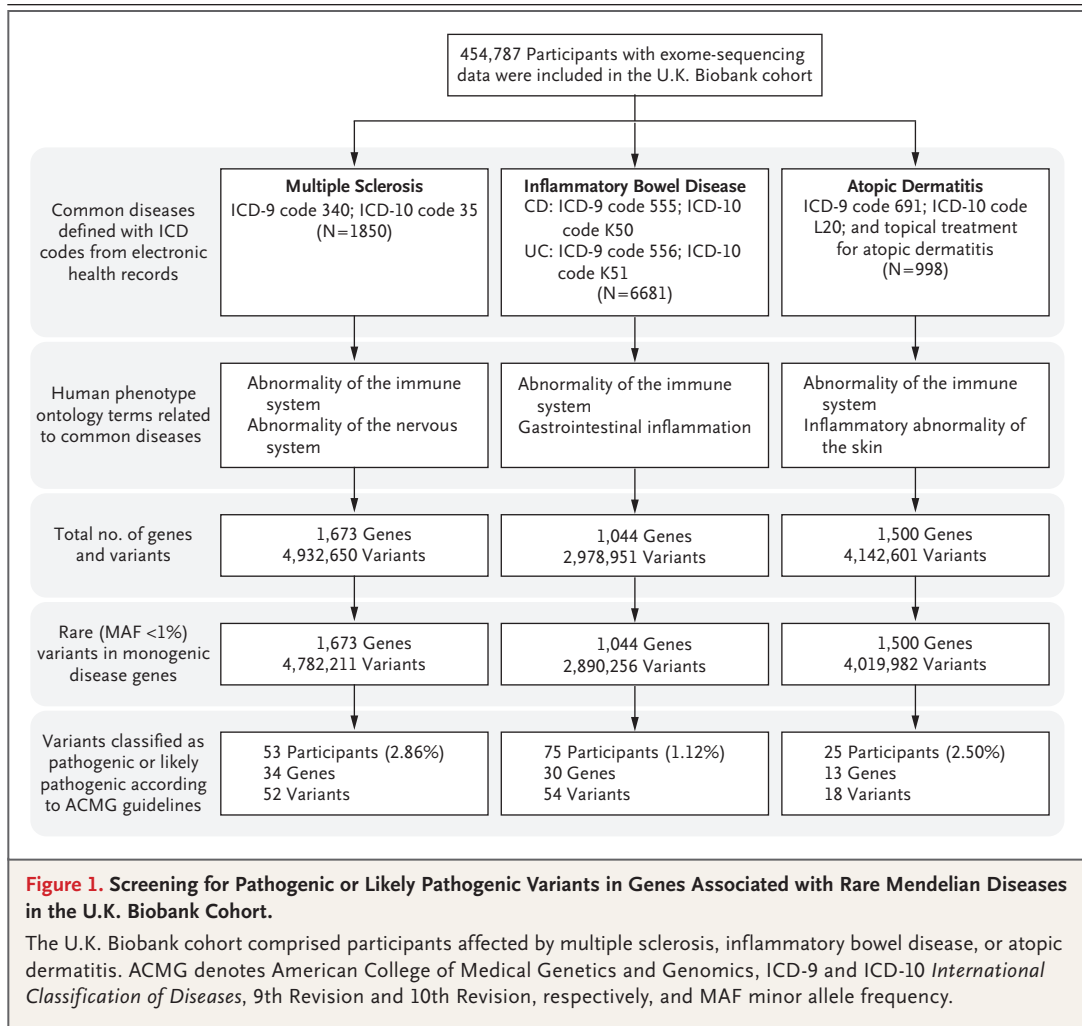
In the analysis of coexisting conditions, Fisher's exact test was used to assess the significance of associations between ICD codes, with odds ratios calculated to determine the strength of these associations. The analysis was conducted with the "stats" package in R software, version 4.2.0. Age-Related Multiple Sclerosis Severity (ARMSS) scores were compared between persons carrying pathogenic variants and noncarriers with the use of a one-tailed Wilcoxon rank-sum test (see the Supplementary Methods). To

account for potential confounders, we also evaluated the association between ARMSS score and pathogenic-variant carrier status using linear regression models. ARMSS values were transformed into z scores to ensure a normal distribution, and the association between pathogenic-variant carrier status and ARMSS score was tested, with adjustment for age and sex.

RESULTS

DISEASE COHORTS

We evaluated 9529 participants with sequencing data from the U.K. Biobank (1850 with a diagnosis of multiple sclerosis, 6681 with a diagnosis of inflammatory bowel disease, and 998 with a diagnosis of atopic dermatitis), 7475 participants from Ireland and the United Kingdom with a diagnosis of multiple sclerosis in the Genuity



Science cohort, and 1480 participants from five clinical trials in inflammatory bowel disease (580 with Crohn's disease and 900 with ulcerative colitis) — a total of 18,484 participants (Table S4). The representativeness of the study participants relative to those in the broader population affected by multiple sclerosis, inflammatory bowel disease, or atopic dermatitis is shown in Table S5.

MISDIAGNOSED OR UNDERDIAGNOSED RARE DISEASES IN THE U.K. BIOBANK COHORT

Among the U.K. Biobank participants with a diagnosis of multiple sclerosis, inflammatory bowel disease, or atopic dermatitis, we identified 153 (1.61%) who carried a molecular diagnosis for a mendelian disease. Multiple sclerosis is typically diagnosed through clinical, radiologic, and laboratory assessments. However, several rare diseases or syndromes may resemble multiple sclerosis. As a consequence, occasional misdiagnoses of multiple sclerosis have aroused concerns for patient care.¹⁸ Among 1850 U.K. Biobank participants with a diagnosis of multiple sclerosis, we identified 52 rare pathogenic or likely pathogenic variants in 34 genes in 53 participants (2.86%) (Fig. 1); these genes have been linked to a number of mendelian disorders (Table S6). Among the identified variants, 47 have been reported to be pathogenic in the literature. The remaining variants were novel, and we classified them as likely pathogenic on the basis of the ACMG criteria.

One participant was heterozygous for the pathogenic *BICD2* p.Thr703Met variant, which is associated with congenital, autosomal-dominant spinal muscular atrophy.¹⁹ Two other participants carried variants causative of autosomal-dominant familial amyotrophic lateral sclerosis: p.Gly38Arg²⁰ in *ANXA11* and p.Thr622Ala²¹ in *MATR3*. The highest number of pathogenic variants, 11 in 13 unrelated persons, were found in *NOTCH3*, which is linked to the autosomal-dominant cerebral arteriopathy and subcortical infarct leukoencephalopathy (CADASIL). There have been numerous instances of CADASIL being misdiagnosed as multiple sclerosis on the basis of radiological findings of confluent white-matter changes.^{22–26}

Our findings indicate that some U.K. Biobank participants with rare diseases might have received a misdiagnosis of multiple sclerosis or

that certain rare diseases were underdiagnosed in participants with a diagnosis of multiple sclerosis. These misdiagnoses and underdiagnoses may have been due to overlapping symptoms or the phenotypic variability of multiple sclerosis, which became clear when we compared the complete electronic health records of persons with rare disease-causing variants with those without such variants, uncovering cases with severe coexisting conditions not typically expected in patients with multiple sclerosis. For instance, we observed a substantial enrichment of dementia (odds ratio, 14.79; $P=0.002$) and convulsion (odds ratio, 3.54; $P=0.002$) among participants with rare disease-causing variants (Table S7). These findings show that in addition to misdiagnosis, rare diseases can also exacerbate common disease symptoms when they co-occur.

Sporadic inflammatory bowel disease is a complex condition influenced by genetic and environmental risk factors and typically shows polygenic inheritance. However, there are also inherited forms of inflammatory bowel disease, with more than 100 genes linked to monogenic disease.²⁷ Many of these monogenic conditions do not respond to standard therapies and are associated with high morbidity and mortality.²⁸ Therefore, an accurate diagnosis for these patients is crucial for providing effective medical care and determining their eligibility for clinical trials. Among 6681 U.K. Biobank participants with diagnosis codes for inflammatory bowel disease, we identified 54 rare pathogenic or likely pathogenic variants in 30 genes in 75 participants (1.12%) (Fig. 1 and Table S8). Several genes stood out as having an excess of pathogenic or likely pathogenic variants, such as *TNFRSF1A* and *TNFRSF13B*. For example, one third of these participants (25 of 75) carried pathogenic or likely pathogenic variants in *TNFRSF13B*, which is associated with common variable immunodeficiency.^{29,30}

Finally, among 998 U.K. Biobank participants with a diagnosis of atopic dermatitis, we identified 18 pathogenic or likely pathogenic variants in 13 genes in 25 participants (2.50%) (Fig. 1 and Table S9). As has been reported previously,³¹ *FLG*, the gene encoding the filaggrin protein, was frequently mutated in persons affected by atopic dermatitis. Loss-of-function variants in *FLG* cause the severe, rare skin condition called

ichthyosis vulgaris.³² We found that 8 participants carried biallelic loss-of-function variants in *FLG*, including 4 homozygous participants and 4 participants with two different loss-of-function variants. Directly determining the chromosomal phase in these 4 participants was not possible owing to the physical distance between the variants and the limitations of short-read sequencing technology. Nevertheless, on the basis of maximum-likelihood estimates, these variants are predicted to segregate in trans (Fig. S1 in Supplementary Appendix 1).³³ Furthermore, in 2 participants, we identified two ultrarare, pathogenic *PTPN11* variants (p.Gly60Ala and p.Gln256Arg) that were previously associated with Noonan's syndrome, a rare disorder that can cause dry skin.

To date, at least 12 genes have been implicated in Noonan's syndrome.³⁴ To better understand the extent of underdiagnosis of Noonan's syndrome in the general population, we screened for these 12 genes among the U.K. Biobank participants and conducted a comprehensive analysis of coexisting conditions using electronic health records from the carriers of pathogenic or likely pathogenic variants (see the Supplementary Methods). We identified 164 persons who were probably affected by Noonan's syndrome and clinically related disorders; however, only 5 of the 73 participants for whom we had general practitioner records had a formal diagnosis of Noonan's syndrome (Table S10). Most of the participants received a diagnosis of either related symptoms or different diseases (Table S11). Although Hospital Episode Statistics records are accessible for the entire U.K. Biobank cohort, general practitioner records are currently available for 45% of the cohort. Among the remaining 91 participants without a diagnosis of Noonan's syndrome in the Hospital Episode Statistics records, it is unclear whether a diagnosis exists in their general practitioner records, although it seems likely that a small proportion would have one documented. As a hallmark of Noonan's syndrome, the average standing height of both male and female participants was significantly lower than the average height in the entire U.K. Biobank cohort (Fig. S2). Although congenital malformations were reported in 13% of these participants, disorders of bone density and structure were present in 17%, a finding suggesting that Noonan's syndrome-associated symptoms were captured to some extent.

RARE DISEASES IN THE GENUITY SCIENCE AND CLINICAL TRIAL COHORTS

In line with findings in the U.K. Biobank cohort, subgroups of participants with rare diseases in the Genuity Science research cohort and the clinical cohorts were identified. In the Genuity Science multiple sclerosis cohort, 88 participants (1.18%) had a potential molecular diagnosis for a rare disease (Table S12). Although there were four times as many participants in the Genuity Science cohort (7475 participants) as in the U.K. Biobank cohort (1850 participants), the proportion carrying pathogenic variants was less than half that in the U.K. Biobank cohort (2.86%). This difference might be related to electronic health record–based diagnosis in the U.K. Biobank cohort, as compared with targeted phenotyping in the Genuity Science cohort, in which the participants with suspected rare diseases were mostly excluded.

Furthermore, to determine whether rare diseases had an effect on the severity of multiple sclerosis, we calculated the ARMSS score in 31 carriers of pathogenic variants and 3158 noncarriers with available data (see the Supplementary Methods and Table S13). We found that participants carrying pathogenic or likely pathogenic variants had higher ARMSS scores than those without such variants ($P=0.02$) (Figs. S4 and S5).

Among 1480 participants with sequencing data in the inflammatory bowel disease clinical trials cohort, we identified 70 (4.73%) who had a molecular diagnosis of a rare disease (Table S14). The higher fraction of rare diseases identified in this cohort than in the U.K. Biobank cohort (1.12%) may be attributed to the targeted recruitment of patients with moderate-to-severe inflammatory bowel disease, in whom the condition may have developed owing to highly penetrant, rare variants. Similar to the findings in the U.K. Biobank, the findings among participants in the clinical trials showed that a majority (39 of 70) carried pathogenic variants in *TNFRSF13B*, which suggests that common variable immunodeficiency caused by pathogenic *TNFRSF13B* variants is probably misdiagnosed as inflammatory bowel disease or primarily manifests with inflammatory bowel disease–like symptoms.³⁵ Consistent with the hallmarks of *TNFRSF13B*-associated immunodeficiency, 3 of 5 participants with ulcerative colitis and 5 of 7

participants with Crohn's disease showed either extraintestinal manifestations or recurrent infections.

RARE DISEASE—CAUSING VARIANTS AND RESPONSE TO TREATMENT IN THE CLINICAL TRIALS COHORT

Of the 33 participants with a diagnosis of inflammatory bowel disease in the active treatment groups of the clinical trials of adalimumab who were found to carry rare disease-causing variants, 31 (94%) did not have clinical or endoscopic remission within a year. In the trial of upadacitinib in ulcerative colitis, which showed a 24 to 25% dose-dependent rate of endoscopic remission,¹⁰ 7 of 10 participants with rare disease-causing variants did not have endoscopic remission at week 8. Among these 7 participants, only 2 went on to complete the 52-week maintenance study but did not have endoscopic remission. These findings suggest that the distinct underlying molecular cause of the disease may have led to a lack of adequate remission in these cases. However, in the study of risankizumab in inflammatory bowel disease, which showed a 19 to 24% dose-dependent rate of endoscopic remission in Crohn's disease¹¹ and a 10.6 to 24.3% dose-dependent rate of endoscopic remission in ulcerative colitis,¹² 4 of 17 (23.5%) participants with rare disease-causing variants had endoscopic remission at the end of the 12-week induction period.

In support of the hypothesis that the distinct underlying molecular cause of the disease may have led to a lack of adequate remission in these cases, several signs of possible misdiagnoses were identified on retrospective medical history review of these participants. For instance, a female participant 60 years of age who had received a diagnosis of Crohn's disease and participated in the trial of adalimumab was heterozygous for a likely pathogenic variant (p.Arg148His) in the smooth-muscle actin gene *ACTG2*, which is associated with the autosomal-dominant familial visceral myopathy.³⁶ Abdominal pain, bowel obstruction, or gastroparesis, common in this condition, may have led to a misdiagnosis of Crohn's disease in this participant. Although the participant initially appeared to show clinical remission at week 12, she did not have endoscopic remission and did not show clinical or endoscopic remission by week 56.

Owing to the modest results for response to adalimumab treatment, with endoscopic remission reported in 26.2 to 28.6% of the participants at week 12 in the SERENE CD trial⁸ and in 10.0 to 13.1% of the participants at week 8 in the SERENE UC trial,⁹ and the low number of rare variant carriers among the participants who did not have remission, we were unable to estimate the statistical significance for nonresponse among the participants with rare diseases. However, we performed transcriptome analysis in the blood samples to assess the response to biologic treatment through an analysis of well-established inflammatory markers that are known to act downstream of TNF- α . The participants with rare variants in both the SERENE CD and UC trials showed minimal changes in gene expression (Tables S15 through S18). Although there was a high degree of overlap in the changes in gene expression over time between the participants with and those without rare disease-causing variants in both the SERENE CD and UC trials, those who had remission showed low-to-moderate changes in gene expression, whereas the participants who did not have remission showed very few changes, particularly in the SERENE CD trial. Enrichment of differentially expressed genes (false discovery rate, <0.05) in the analyses of change from baseline to week 12 (SERENE CD) or to week 8 (SERENE UC) suggested that inhibition of TNF- α signaling is unable to modulate pathways involved in primary immunodeficiency, B-cell receptor signaling, or TNF signaling in patients with rare disease-causing variants (Fig. 2).

DISCUSSION

It is estimated that collectively 4 to 6% of the general population are affected by some form of a rare disease.³⁷ Moreover, diagnosing rare diseases is a lengthy and stressful process that can take up to 7 years and involve up to eight physicians and two or three misdiagnoses. Heterogeneity of clinical symptoms is arguably the primary reason why many patients with rare disease remain without a diagnosis or have a misdiagnosis for years. The availability of electronic health records and sequencing data from nationwide biobanks provides an opportunity to revisit and estimate the number of persons with

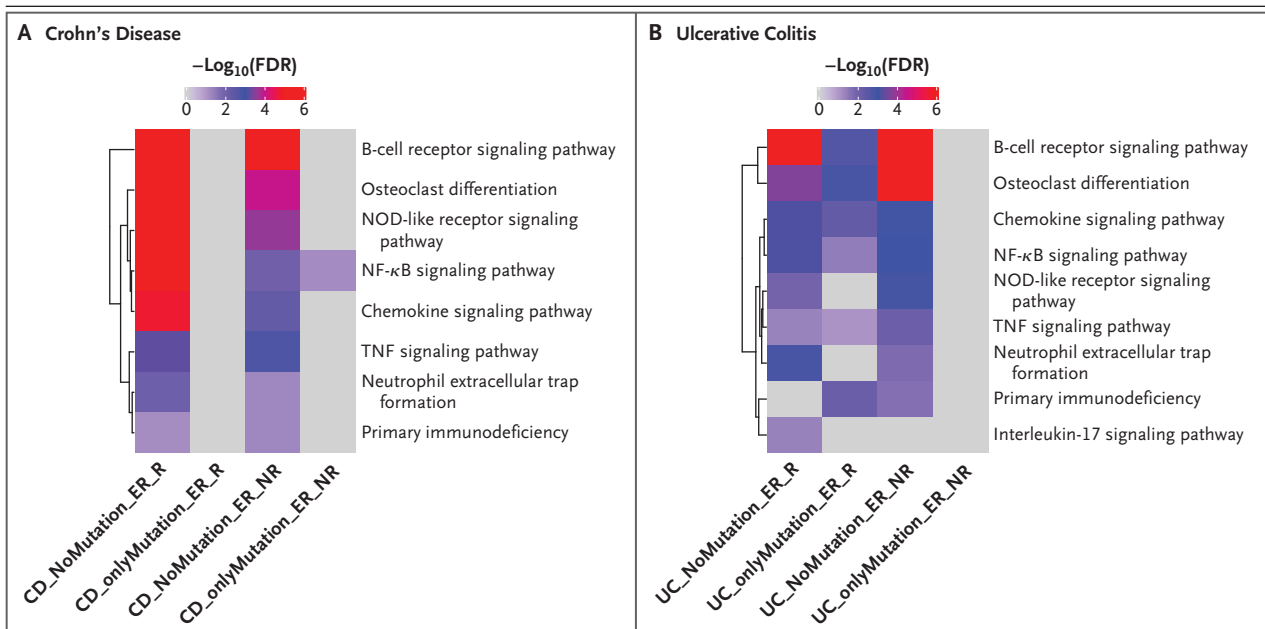


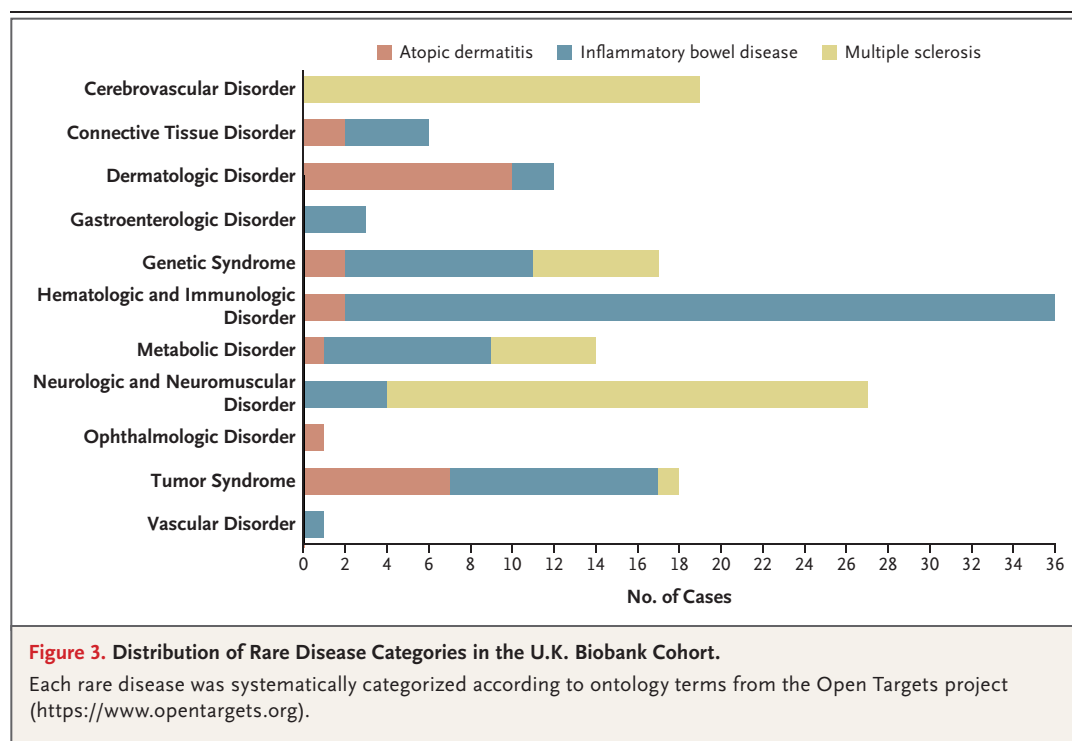
Figure 2. Perturbed Pathways in Carriers of Rare Variants in the SERENE CD and UC Trials.

Shown are the topmost enriched pathways among the participants in the SERENE CD (Crohn's disease) trial⁸ (Panel A) and the SERENE UC (ulcerative colitis) trial⁹ (Panel B). Enrichment of KEGG (Kyoto Encyclopedia of Genes and Genomes) pathways was conducted on the basis of differentially expressed genes. Differential gene-expression analysis was performed with a linear mixed-effects model to assess changes in Crohn's disease from baseline to week 12 and in ulcerative colitis from baseline to week 8. In the analysis of the endoscopic remission (ER) end point, four different groups were considered, as shown in the heatmap columns: in the SERENE CD trial, these groups included the participants with remission (R) of Crohn's disease without any mutation (CD_NoMutation_ER_R), those with no remission (NR) of Crohn's disease without any mutation (CD_NoMutation_ER_NR), those with remission of Crohn's disease with mutation (CD_onlyMutation_ER_R), and those with no remission of Crohn's disease with mutation (CD_onlyMutation_ER_NR). Similar groups were compared for the participants in the SERENE UC trial. Genes that were differentially expressed were identified independently within each of the four groups on the basis of a false discovery rate (FDR)-adjusted P-value threshold of less than 0.05. Heatmap colors indicate significance levels in terms of $-\log_{10}(\text{FDR})$ -adjusted P values. Higher values indicate a higher level of significance, with larger $-\log_{10}(\text{FDR})$ values corresponding to lower FDR-adjusted P values (i.e., a higher level of significance). Gray indicates nonsignificance of the corresponding pathways. NF-κB denotes nuclear factor kappa light-chain enhancer of activated B cells, and TNF tumor necrosis factor.

rare conditions that were probably misdiagnosed or underdiagnosed in the general population. We conducted a proof-of-principle study using U.K. Biobank sequencing data and found variants that cause a broad range of rare mendelian diseases in persons with diagnoses of common diseases (Fig. 3). Although some of these rare diseases are incidental co-occurrences with the common diseases that we evaluated here, on the basis of phenotypic similarities and incidence, we conclude that many are probably misdiagnosed as a common disease. Furthermore, misdiagnosis of monogenic diseases can have a profound effect on family members too. Identifying these rare diseases allows for genetic

counseling, which is crucial for guiding family members through cascade genetic testing and supporting their health decisions. However, caution is advised in counseling for adult-onset diseases with reduced penetrance and variable expressivity.

To replicate our U.K. Biobank findings, we screened participants in a research cohort and a clinical trials cohort for rare disease-causing variants. We identified persons with multiple sclerosis or inflammatory bowel disease who also had a molecular diagnosis of rare diseases, which corroborated our findings in the U.K. Biobank cohort. Among these three datasets and four types of diseases evaluated here, approxi-



mately 1 to 3% of persons carried pathogenic variants that cause rare diseases. However, in this study, we used samples that were convenient to obtain, focusing on diseases with large cohorts with clinical and genomic data. Our findings may be generalizable to other common conditions; if so, the extent could vary, depending on the phenotypic spectrum and disease severity.

In the inflammatory bowel disease clinical trials that we analyzed, many of the participants who did not have a response to treatment probably had a distinct genetic etiologic factor. Such rare disease–associated genes may offer insights into potential mechanisms of nonresponse, as we found in this study, and may help in the identification of novel therapeutic targets for inflammatory bowel disease. Conversely, some patients with rare diseases could present opportunities for drug repurposing when they have a serendipitous response to treatments in clinical trials. For example, in a trial of upadacitinib for rheumatoid arthritis,³⁸ we identified one patient with a known pathogenic *IFIH1* variant that causes the Aicardi–Goutières syndrome who had a favorable response profile. Positive response to

JAK inhibition was observed previously in small, open-label trials involving patients with the Aicardi–Goutières syndrome.^{39,40} Because molecular diagnoses are not typically pursued for participants in large clinical trials, such happenstances often remain unidentified, and there are possibly many rare diseases that have missed treatment opportunities because of underdiagnoses or misdiagnoses. Therefore, prior knowledge of genetic defects or molecular phenotyping during a study should be integral to current clinical trial evaluations, as well as to future trial designs as genomic sequencing becomes more accessible before a trial begins.

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Disclosure forms provided by the authors are available with the full text of this article at NEJM.org.

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Supplementary Appendix

Supplement to: Rahimov F, Jacobs BM, Lee JS, et al. Common diseases in clinical cohorts — not always what they seem. *N Engl J Med* 2025;393:1589-98. DOI: 10.1056/NEJMoa2405459

This appendix has been provided by the authors to give readers additional information about the work.

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Author Contributions

F.R., and N.S. designed the study and analyzed the data. B.M.J., J.S.L., N.A.M., A.B., A.J.A., A.A., M.R., and H.J.S. performed various data analyses. V.L.P., S.S., H.G., J.F.W. directly contributed to or oversaw the gathering of data. F.R., B.M.J., N.A.M., A.J.A., A.A., V.L.P., S.S., H.G., J.F.W., H.J.J and N.S contributed to scientific discussions and interpretation of findings. H.J.J. and N.S. vouch for the data and the analysis. F.R., H.J.J. and N.S. wrote the first draft of the paper, with subsequent revisions by F.R. and N.S. The decision to publish the paper was made jointly by H.J.J and N.S.

Supplementary Methods

Exome sequencing of the U.K. Biobank samples

Exomes of the U.K. Biobank participants were sequenced at the Regeneron Genetics Center (RGC).¹ Data generation and quality control (QC) procedures were described previously.² QC steps, performed by RGC, included checks for sex discordance, contamination, unresolved duplicate sequences, and discordance with microarray genotype calls. Analyses for the present work were performed using the QC passed, filtered set of variants called the “Goldilocks” set, in 454,787 individuals, which includes 12.3M variants in 18,893 genes. Among these, approximately 1M are putative loss-of-function (pLoF) and 7.8M are missense variants, of which 1.8M (23%) were predicted to manifest damaging effects. Study participants who withdrew consent after completion of exome sequencing were excluded from the analysis. This research has been conducted using the U.K. Biobank Resource under application number 26041

Genome sequencing and analysis of the Genuity Science cohort samples

Genomic DNA from blood samples was extracted using the FlexSTAR+ system (AutoGen). The quality of genomic DNA (gDNA) was assessed using PicoGreen with the Varioskan LUX Multimode Microplate Reader, with an OD 260/280 ratio in the acceptable range of 1.8-2.1, and a DIN greater than 6.5 as determined by TapeStation. Samples that passed these QC assays proceeded to library preparation. Genome

sequencing libraries were prepared using the Illumina TruSeq DNA PCR-Free Library preparation kit and IDT (Integrated DNA Technologies) unique dual indexes. Library preparation was conducted in a Pre-PCR environment using the NGS STAR workstation (Hamilton). Following library preparation, the concentration of the libraries was quantified using the KAPA Library Quantification Kit (Roche) on a LightCycler instrument. Libraries were normalized based on the concentration determined from qPCR (225 pM). Libraries were sequenced to achieve a target mean coverage of 30×, with at least 95% of target bases covered at a minimum depth of 10×, using 150 bp paired-end reads on the Illumina NovaSeq 6000 platform with an S4 flow cell, following the manufacturer's protocol.

Raw sequencing FASTQ data were aligned to the GRCh38/hg38 reference genome build with the Burrows-Wheeler aligner³ and variants were called following the Best Practices workflow of the Genome Analysis Toolkit (GATK 3.8)⁴ implemented in the automated *Sentieon* pipeline (Sentieon). Single nucleotide variants (SNVs) and insertions/deletions (indels) were jointly called across all samples using the GATK HaplotypeCaller tool.⁵ Default filters were applied to SNV and indel calls using the Variant Quality Score Recalibration (VQSR) tool⁶. Variant annotations were performed using Variant Effect Predictor (VEP).⁷ Stringent QC measures were implemented, including confirmation of sex concordance and concordance with microarray genotyping data. Discordant samples were excluded from downstream analyses.

Genome sequencing of inflammatory bowel disease clinical trial samples

Genomes of 568 subjects participated in the SERENE clinical trials were sequenced at Washington University in St. Louis. Sequencing libraries were prepared using the automated Kapa PCR-free kit. Libraries were sequenced in 150 bp paired-end reads on the Illumina NovaSeq 6000 platform using the S4 flow cell with an average depth of 30×. Analysis ready sequence data were created using best practices with the *Sentieon* suite release 201911 (Sentieon). Briefly, alignment was performed using the bwa-mem algorithm. Duplicate reads were marked and removed, base quality scores were recalibrated, and then genotypes were called at the individual level using HaplotypeCaller.⁵ This was followed by joint genotype calling using the GVCFTyper

algorithm. Following genotype calling, variant quality scores were generated using variant quality score recalibration, run separately for single nucleotide variants (SNVs) and indels with recommended parameters and reference data.⁶ Variants were annotated using VEP (v99.2; cache version 99).⁷

Comorbidity analysis in the U.K. Biobank

Record-level, hospital inpatient diagnosis data (HESIN_DIAG) were downloaded from the U.K. Biobank Research Analysis Platform (DNAnexus) on May 10th, 2023. Data on hospital inpatient admissions are provided to the U.K. Biobank by the Data Access Request Service of National Health Service (NHS) England for England, by the Secure Anonymized Information Linkage Databank at the University of Swansea for Wales, and by Public Health Scotland for Scotland. Records date back to 1997 for England, 1998 for Wales and 1981 for Scotland. All clinical data in the hospital inpatient data are coded according to the World Health Organization's ICD (International Classification of Diseases and Related Health Problems). English and Welsh hospital data are coded in ICD-10. Because the collection of Scottish data began earlier (in 1981), data collected prior to 1997 are coded in ICD-9. For the comorbidity analysis, a 2 × 2 contingency table was created for each ICD code. The table contained counts of participants with and without that code in their health records and participants classified by their inclusion in the target or background cohort. Fisher's exact test was used to calculate the significance of the association for each code, and the odds ratio was calculated to determine the strength of the association. The analysis was performed using the *stats* library in R (4.2.0). Significance level and odds ratio were obtained using *fisher.test* function and were adjusted using *p.adjust* function and the *fdr* method.

Calculation of multiple sclerosis disability scores

From an initial cohort of individuals who underwent genome sequencing, we restricted the analysis to the 3,189 with a) an Expanded Disability Status Score (EDSS) and b) a recorded age at the time of the score. We calculated the Age-Related Multiple Sclerosis Severity Score (ARMSS) based on these parameters. Demographic characteristics of

the included cohort, stratified by pathogenic variant carrier status, is shown in Table S13. Of the 3,189 individuals, 31 (0.97%) were found to carry a pathogenic variant.

ARMSS is a normalized physical disability metric which accounts for the monotonic effect of increasing age on physical disability in multiple sclerosis.⁸ As disability increases with age, the ARMSS estimates an individual's deviation from their 'expected' level of disability at any given age, and thus allows a cross-sectional estimate of an individual's disability over time and a comparison between individuals of different ages. The ARMSS is similar conceptually to the Multiple Sclerosis Severity Score (MSSS), which accounts for disease duration rather than biological age.⁹ Age is typically more readily available and less prone to recall bias than disease duration, and so the ARMSS is a more practical choice in most large cohort settings.¹⁰ The ARMSS was derived using the *ms.sev* R package by ranking each individual's EDSS against others in the same 2-year age bin from the reference dataset.⁸ The proportional rank is then converted to a scale from 0-10 to reflect the original EDSS scale. Formally the ARMSS score is derived as:

$$\text{ARMSS} = \frac{\text{EDSS rank within 2 year age bin}}{\text{N of patients in age bin} + 1} \times 10$$

Figure S3 shows the relationship between age, EDSS, and the ARMSS, highlighting the point that individuals with an unexpectedly high EDSS for their age will have a high ARMSS, and vice-versa.

Comparison of multiple sclerosis disability in pathogenic variant carriers

To test the hypothesis that multiple sclerosis cases who harbored pathogenic variants may have more severe disease, we first performed a one-tailed Wilcoxon Rank Sum test, which confirmed higher ARMSS (disability scores) in the pathogenic carriers (one-tailed $P = 0.02151$, two-tailed $P = 0.04302$). We observed the same result for both the unadjusted EDSS (one-tailed $P = 0.02655$) and the MSSS (one-tailed $P = 0.044$), but no association with age of onset (two-tailed $P = 0.7564$), nor with the proportion of PPMS cases (Fisher's exact $P = 1$). To account for confounding we tested this observation

using linear regression models. We first transformed the ARMSS score by Z-scoring to ensure this variable was normally distributed. In a model adjusted for age and sex, the association between pathogenic carrier status and ARMSS score persisted ($P = 0.04$); carriage of a pathogenic variant was associated, on average, with a 0.4-SD increase in the ARMSS ($\beta = 0.37$, 95% CI 0.02 - 0.72)

Gene expression analysis

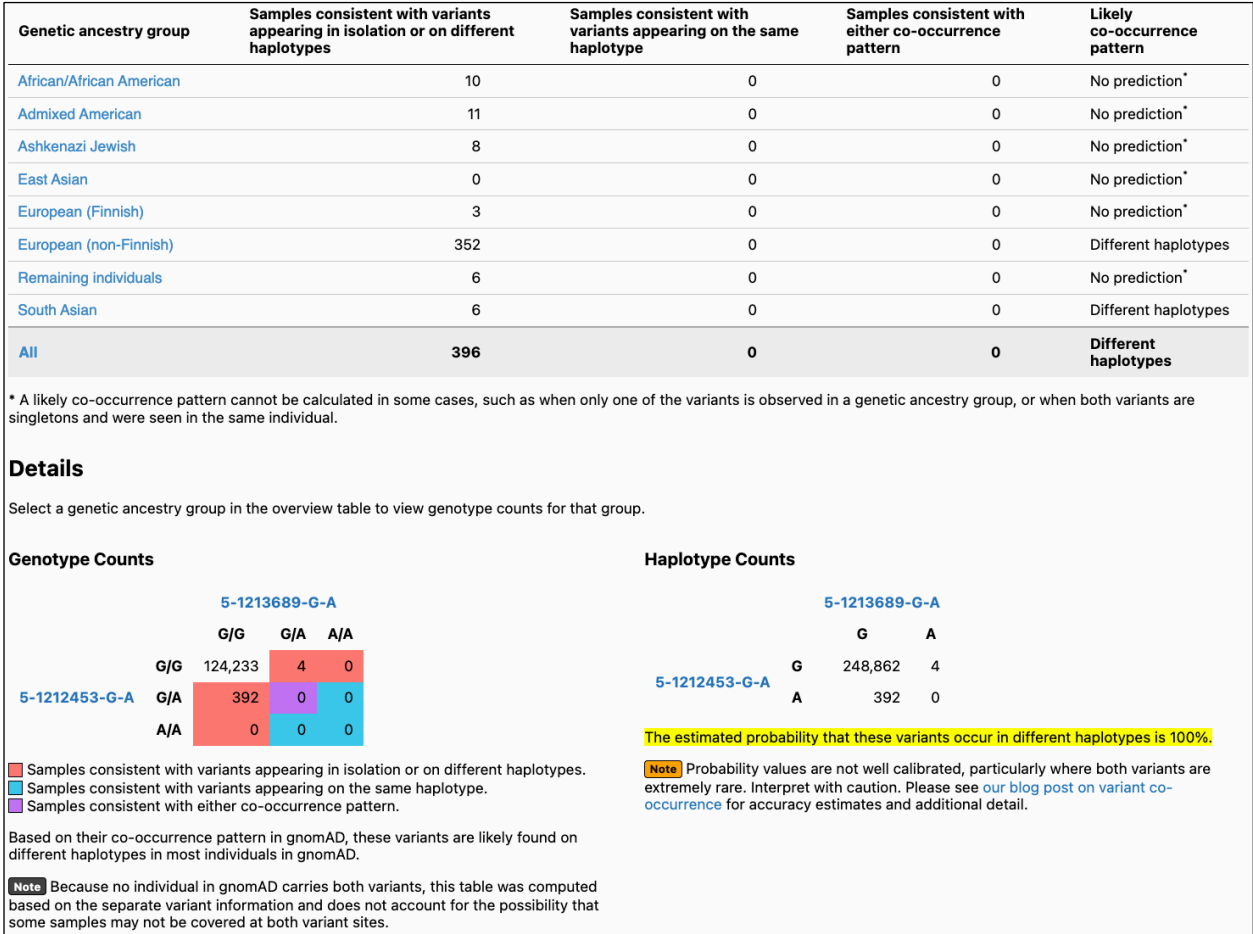
RNA sequencing of poly(A)-selected RNA samples, isolated from whole blood, was performed in 76bp single-end Unique Molecular Identifier (UMI)-tagged reads. Average number of unique reads were 20.6M and 15.2M in SERENE-UC and SERENE-CD studies, respectively. In the SERENE-UC study, 1,098 samples were collected from 294 patients at baseline and weeks 2, 4, and 8, while in the SERENE-CD study, 1,086 samples were collected from 277 patients at baseline and weeks 2, 4, and 12. Gene expression changes were evaluated in patients with and without rare pathogenic variants separately in all patients at different time points.^{11,12} Change-from-baseline analyses were performed for both sets of patients. Similar analyses were conducted for remitters and non-remitters under clinical and endoscopic endpoints. For gene expression changes, linear mixed-effect models were fitted with Benjamini–Hochberg method-based correction for multiple testing.¹³ Fisher’s exact test-based overrepresentation analysis was conducted for pathway enrichment using the KEGG database.¹⁴

Supplementary Figures

Figure S1: Probabilistic phase estimation in compound heterozygous cases.

Genomic coordinates are shown in GRCh37. Data were obtained from the Variant Co-Occurrence database (<https://gnomad.broadinstitute.org/variant-cooccurrence>).

SLC6A19: NM_001003841.3:c.517G>A (5-1212453-G-A) and NM_001003841.3:c.774+1G>T (5-1213689-G-A).



SLC3A1: NM_000341.4:c.647C>T (2-44508562-C-T) and NM_000341.4:c.808C>T (2-44513213-C-T).

Genetic ancestry group	Samples consistent with variants appearing in isolation or on different haplotypes	Samples consistent with variants appearing on the same haplotype	Samples consistent with either co-occurrence pattern	Likely co-occurrence pattern
African/African American	0	0	0	No prediction*
Admixed American	1	0	0	No prediction*
Ashkenazi Jewish	89	0	0	No prediction*
East Asian	2	0	0	No prediction*
European (Finnish)	4	0	0	No prediction*
European (non-Finnish)	23	0	0	Different haplotypes
Remaining individuals	2	0	0	Different haplotypes
South Asian	1	0	0	No prediction*
All	122	0	0	Different haplotypes

* A likely co-occurrence pattern cannot be calculated in some cases, such as when only one of the variants is observed in a genetic ancestry group, or when both variants are singletons and were seen in the same individual.

Details

Select a genetic ancestry group in the overview table to view genotype counts for that group.

Genotype Counts

		2-44513213-C-T		
		C/C	C/T	T/T
	C/C	125,618	99	0
2-44508562-C-T	C/T	23	0	0
	T/T	0	0	0

Samples consistent with variants appearing in isolation or on different haplotypes. Samples consistent with variants appearing on the same haplotype. Samples consistent with either co-occurrence pattern.

Based on their co-occurrence pattern in gnomAD, these variants are likely found on different haplotypes in most individuals in gnomAD.

Note Because no individual in gnomAD carries both variants, this table was computed based on the separate variant information and does not account for the possibility that some samples may not be covered at both variant sites.

Haplotype Counts

		2-44513213-C-T	
		C	T
	C	251,358	99
2-44508562-C-T	T	23	0

The estimated probability that these variants occur in different haplotypes is 100%.

Note Probability values are not well calibrated, particularly where both variants are extremely rare. Interpret with caution. Please see [our blog post on variant co-occurrence](#) for accuracy estimates and additional detail.

PAH: NM_000277.3:c.1139C>T (12-103237484-G-A) and NM_000277.3:c.898G>T (12-103245479-C-A)

Genetic ancestry group	Samples consistent with variants appearing in isolation or on different haplotypes	Samples consistent with variants appearing on the same haplotype	Samples consistent with either co-occurrence pattern	Likely co-occurrence pattern
African/African American	0	0	0	No prediction*
Admixed American	13	0	0	Different haplotypes
Ashkenazi Jewish	116	0	0	Different haplotypes
East Asian	1	0	0	No prediction*
European (Finnish)	0	0	0	No prediction*
European (non-Finnish)	100	0	0	Different haplotypes
Remaining individuals	8	0	0	Different haplotypes
South Asian	19	0	0	Different haplotypes
All	257	0	0	Different haplotypes

* A likely co-occurrence pattern cannot be calculated in some cases, such as when only one of the variants is observed in a genetic ancestry group, or when both variants are singletons and were seen in the same individual.

Details

Select a genetic ancestry group in the overview table to view genotype counts for that group.

Genotype Counts

		12-103245479-C-A		
		C/C	C/A	A/A
12-103237484-G-A	G/G	125,363	147	0
	G/A	109	0	0
	A/A	1	0	0

Haplotype Counts

		12-103245479-C-A	
		C	A
12-103237484-G-A	G	250,982	147
	A	111	0

The estimated probability that these variants occur in different haplotypes is 100%.

Note Probability values are not well calibrated, particularly where both variants are extremely rare. Interpret with caution. Please see [our blog post on variant co-occurrence](#) for accuracy estimates and additional detail.

■ Samples consistent with variants appearing in isolation or on different haplotypes.

■ Samples consistent with variants appearing on the same haplotype.

■ Samples consistent with either co-occurrence pattern.

Based on their co-occurrence pattern in gnomAD, these variants are likely found on different haplotypes in most individuals in gnomAD.

Note Because no individual in gnomAD carries both variants, this table was computed based on the separate variant information and does not account for the possibility that some samples may not be covered at both variant sites.

ANO5: NM_213599.3:c.692G>T (11-22257752-G-T) and NM_213599.3:c.191dupA (11-22242646-C-CA)

Genetic ancestry group	Samples consistent with variants appearing in isolation or on different haplotypes	Samples consistent with variants appearing on the same haplotype	Samples consistent with either co-occurrence pattern	Likely co-occurrence pattern
African/African American	12	0	0	Different haplotypes
Admixed American	107	0	0	Different haplotypes
Ashkenazi Jewish	3	0	0	No prediction*
East Asian	0	0	0	No prediction*
European (Finnish)	2	0	0	Different haplotypes
European (non-Finnish)	383	0	0	Different haplotypes
Remaining individuals	21	0	0	Different haplotypes
South Asian	0	0	0	No prediction*
All	528	0	0	Different haplotypes

* A likely co-occurrence pattern cannot be calculated in some cases, such as when only one of the variants is observed in a genetic ancestry group, or when both variants are singletons and were seen in the same individual.

Details

Select a genetic ancestry group in the overview table to view genotype counts for that group.

Genotype Counts

11-22242646-C-CA

	C/C	C/CA	CA/CA
G/G	124,230	269	2
11-22257752-G-T	G/T	256	0
	T/T	1	0

Samples consistent with variants appearing in isolation or on different haplotypes.Samples consistent with variants appearing on the same haplotype.Samples consistent with either co-occurrence pattern.

Based on their co-occurrence pattern in gnomAD, these variants are likely found on different haplotypes in most individuals in gnomAD.

NoteBecause no individual in gnomAD carries both variants, this table was computed based on the separate variant information and does not account for the possibility that some samples may not be covered at both variant sites.

Haplotype Counts

11-22242646-C-CA

	C	CA
G	248,985	273
11-22257752-G-T	T	258

The estimated probability that these variants occur in different haplotypes is 100%.

NoteProbability values are not well calibrated, particularly where both variants are extremely rare. Interpret with caution. Please see our blog post on variant co-occurrence for accuracy estimates and additional detail.

SBDS: NM_016038.4:c.388G>A (7-66458275-C-T) and NM_016038.4:c.258+2T>C (7-66459197-A-G)

Genetic ancestry group	Samples consistent with variants appearing in isolation or on different haplotypes	Samples consistent with variants appearing on the same haplotype	Samples consistent with either co-occurrence pattern	Likely co-occurrence pattern
African/African American	22	0	0	Different haplotypes
Admixed American	95	0	0	Different haplotypes
Ashkenazi Jewish	24	0	0	No prediction*
East Asian	91	0	0	Different haplotypes
European (Finnish)	205	0	0	No prediction*
European (non-Finnish)	430	0	0	Different haplotypes
Remaining individuals	30	0	0	Different haplotypes
South Asian	99	0	0	Different haplotypes
All	996	0	0	Different haplotypes

* A likely co-occurrence pattern cannot be calculated in some cases, such as when only one of the variants is observed in a genetic ancestry group, or when both variants are singletons and were seen in the same individual.

Details

Select a genetic ancestry group in the overview table to view genotype counts for that group.

Genotype Counts

		7-66459197-A-G		
		A/A	A/G	G/G
	C/C	124,646	971	2
7-66458275-C-T	C/T	23	0	0
	T/T	0	0	0

Samples consistent with variants appearing in isolation or on different haplotypes. Samples consistent with variants appearing on the same haplotype. Samples consistent with either co-occurrence pattern.

Based on their co-occurrence pattern in gnomAD, these variants are likely found on different haplotypes in most individuals in gnomAD.

Note Because no individual in gnomAD carries both variants, this table was computed based on the separate variant information and does not account for the possibility that some samples may not be covered at both variant sites.

Haplotype Counts

		7-66459197-A-G	
		A	G
	C	250,286	975
7-66458275-C-T	T	23	0

The estimated probability that these variants occur in different haplotypes is 100%.

Note Probability values are not well calibrated, particularly where both variants are extremely rare. Interpret with caution. Please see [our blog post on variant co-occurrence](#) for accuracy estimates and additional detail.

Figure S2: Distribution of standing heights of subjects with Noonan-like syndrome compared to the rest of the U.K. Biobank cohort. Standing height of male (n=90) and female (n=73) cases and controls (227,498 males and 271,930 females) was measured using a Seca 202 device at the time of initial assessment visit. Height measurement was not available for one male case.

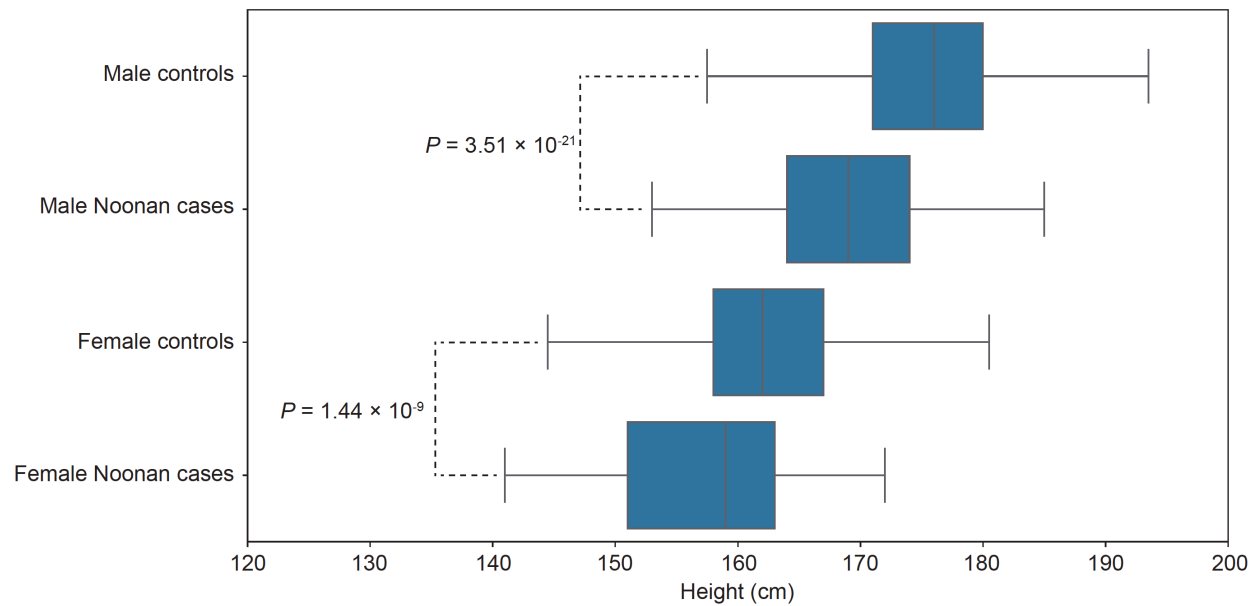


Figure S3: Relationship between age at disability score and disability score in individuals with multiple sclerosis in the Genuity Science cohort. The figure illustrates the generally monotonic relationship between age and disability. Points are colored with the ARMSS, an age-adjusted disability metric that standardizes an individual's disability score to the expected score for their age. Points in the top left-hand corner of the plot reflect people with unexpectedly high disability for their age, and hence a high ARMSS, whereas points in the bottom right reflect people with an unexpectedly low score (i.e. minimal disability) despite their older age.

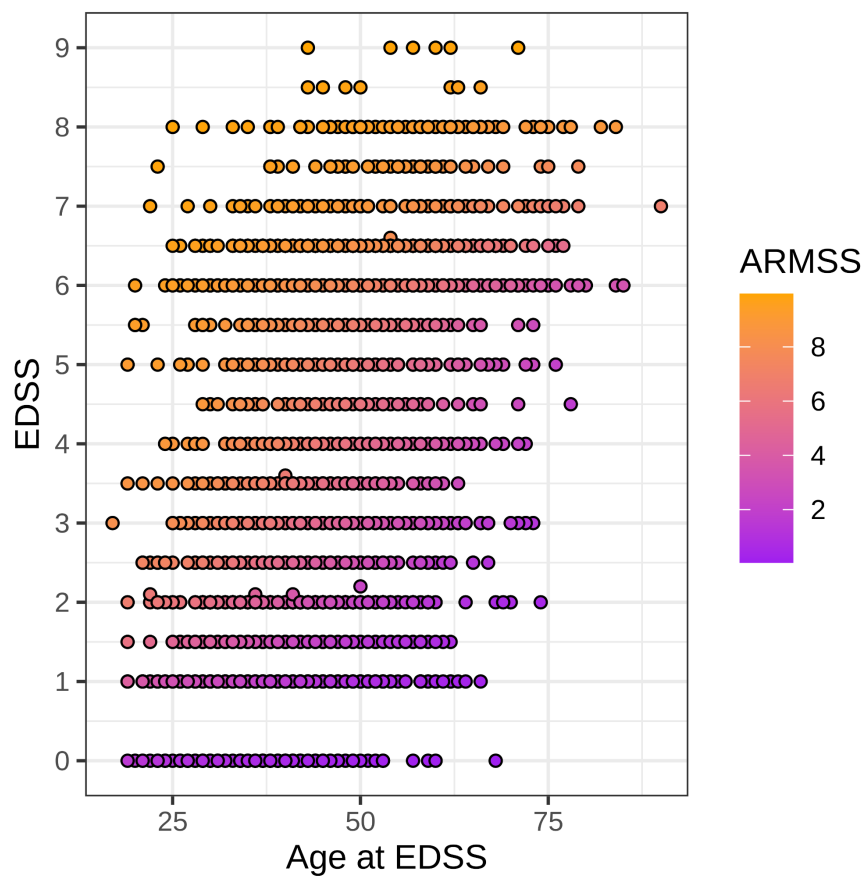


Figure S4: Violin plots with nested boxplots showing the relationship between pathogenic variant carrier status and ARMSS. Multiple sclerosis cases in the Genuity Science cohort carrying a putative pathogenic variant tend to have higher disability scores.

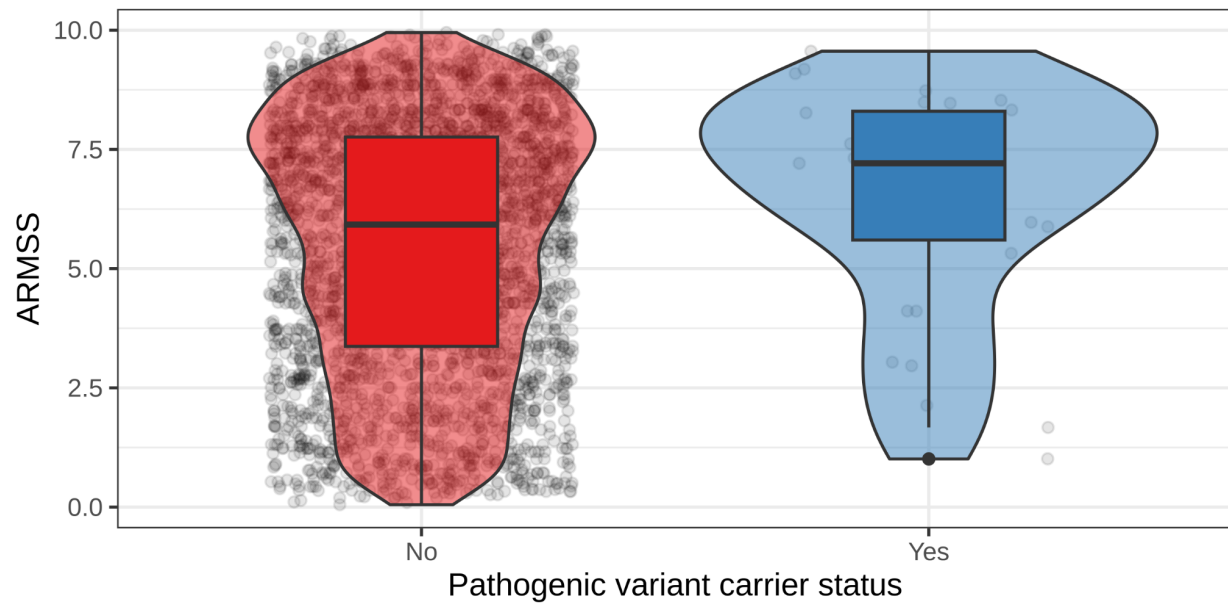
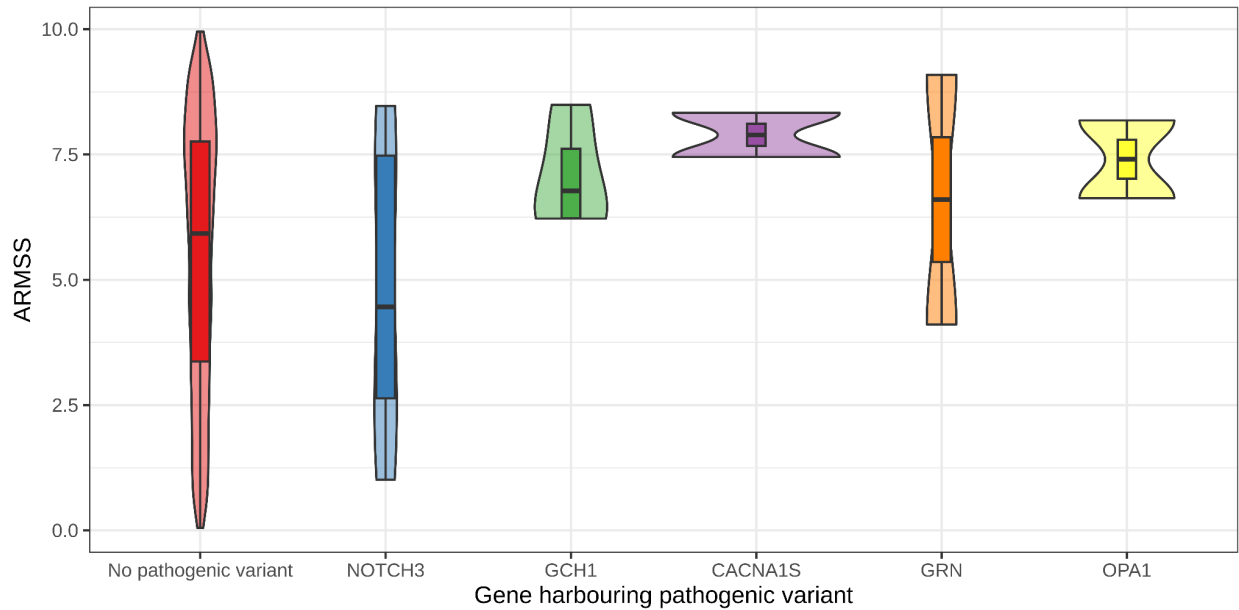


Figure S5: Distribution of ARMSS in pathogenic variant carriers divided according to the gene in which their variant was detected. Cases are grouped by the mutated gene when there is more than one case per gene. The rest of the cohort is included in the left-most part of the plot ('No pathogenic variant'). Individual data points are not shown as the number of cases for each of the genes was less than 10.



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Table S1: Monogenic disease-ca

Approved symbol	MIM number
AAAS	605378
AARS1	601065
AARS2	612035
AASS	605113
ABAT	137150
ABCA1	600046
ABCA2	600047
ABCA7	605414
ABCB6	605452
ABCB7	300135
ABCC6	603234
ABCD1	300371
ABCD4	603214
ABCG5	605459
ABCG8	605460
ABHD12	613599
ABHD5	604780
ACADM	607008
ACAN	155760
ACAT1	607809
ACD	609377
ACER3	617036
ACO2	100850
ACOX1	609751
ACSF3	614245
ACSL4	300157
ACTA1	102610
ACTB	102630
ACTL6B	612458
ACY1	104620
ADA2	607575
ADAMTS13	604134
ADAR	146920
ADAT3	615302
ADCY5	600293
ADCY6	600294
ADD3	601568
ADGRG1	604110
ADNP	611386
ADPRS	NA
ADRA2B	104260
ADSL	608222
ADSS1	612498

AEBP1	602981
AFF2	300806
AFG3L2	604581
AGA	613228
AGPAT2	603100
AGRN	103320
AGTPBP1	606830
AGXT	604285
AHCY	180960
AHI1	608894
AIFM1	300169
AIMP1	603605
AIMP2	600859
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ALDH3A2	609523
ALDH5A1	610045
ALDH6A1	603178
ALDH7A1	107323
ALG1	605907
ALG11	613666
ALG13	300776
ALG14	612866
ALG2	607905
ALG3	608750
ALG6	604566
ALG9	606941
ALKBH8	613306
ALPL	171760
ALS2	606352
AMACR	604489
AMPD2	102771
AMT	238310
ANG	105850
ANK3	600465
ANKLE2	616062
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ANO3	610110
ANO5	608662
ANOS1	300836
ANXA11	602572
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AP1S2	300629
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APTX	606350
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ARSB	611542
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ASCC1	614215
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ASPA	608034
ASPM	605481
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ATXN10	611150
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B4GALNT1	601873
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B9D1	614144
BAG3	603883
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BCS1L	603647
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BSND	606412
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C12ORF65	NA
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C4A	120810
C8ORF37	NA
C9ORF72	NA
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CACNA1D	114206

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CAMK2B	607707
CAMTA1	611501
CANT1	613165
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CAPN3	114240
CARS2	612800
CASK	300172
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CAV3	601253
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CCT5	610150
CD59	107271
CDH23	605516
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CDKL5	300203
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CEP120	613446
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CFL2	601443
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FGFR2	176943
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GNAS	139320
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GRIA4	138246
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GRIK2	138244
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IGHMBP2	600502
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INPP5E	613037
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INTU	610621
IQSEC1	610166
IQSEC2	300522
IREB2	147582
IRF2BPL	611720
ISCA1	611006
ISCA2	615317
ITGA2	192974
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ITM2B	603904
ITPA	147520
ITPR1	147265
JAG1	601920
JAM2	606870
JAM3	606871

JPH1	605266
JPH3	605268
KANK1	607704
KANSL1	612452
KARS1	601421
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KPTN	615620
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KY	605739
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LAMP2	309060
LARGE1	603590
LARP7	612026
LBR	600024
LDB3	605906
LDLR	606945
LDLRAP1	605747
LEMD3	607844
LGI4	608303
LHCGR	152790
LIAS	607031
LIFR	151443
LIG4	601837
LIMS2	607908
LINS1	610350
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IVNS1ABP	609209
KIAA0556	616650

using genes screened in multiple sclerosis cases in the U.K. Biobank

Gene symbols

AAAS, AAA
AARS1, AARS, CMT2N, EIEE29
AARS2, KIAA1270, MTALARS, COXPD8, LKENP
AASS
ABAT, GABAT
ABCA1, ABC1, HPALP1, TGD, HDLCQTL13
ABCA2, ABC2
ABCA7, ABCX, AD9
ABCB6, MTABC3, MCOPCB7, LAN, DUH3, PSHK2
ABCB7, ABC7, ASAT
ABCC6, ARA, ABC34, MLP1, PXE, GACI2
ABCD1, ALD, AMN
ABCD4, PXMP1L, P79R, PMP69, MAHCJ
ABCG5
ABCG8, GBD4
ABHD12, PHARC
ABHD5, CGI58, IECN2, NCIE2
ACADM, MCAD
ACAN, AGC1, CSPG1, MSK16, SEDK, SSOAOD
ACAT1
ACD, PTOP, PIP1, TINT1
ACER3, APHC, PHCA, PLDECO
ACO2, ICRD, OPA9
ACOX1, ACOX, SCOX
ACSF3
ACSL4, FACL4, ACS4, MRX63
ACTA1, ASMA, NEM3, CFTD1, SHPM
ACTB, BRWS1
ACTL6B, BAF53B, IDDSSAD, EIEE76
ACY1, ACY1D
ADA2, CECR1, VAIHS, SNEDS
ADAMTS13, VWFCP, TTP
ADAR, DRADA, DSH, DSRAD, IFI4, G1P1, AGS6
ADAT3, TAD3, MRT36
ADCY5, FDFM
ADCY6, LCCS8
ADD3, ADDL, CPSQ3
ADGRG1, GPR56, TM7XN1, BFPP, BPPR
ADNP, ADNP1, KIAA0784, HVDAS, MRD28
NA
ADRA2B, ADRA2L1, FAME2
ADSL
ADSSL1, MPD5

AEBP1, ACLP
AFF2, FMR2, FRAXE, MRX2
AFG3L2, SCA28, SPAX5
AGA
AGPAT2, LPAAB, BSCL, BSCL1
AGRN, CMS8
AGTPBP1, NNA1, KIAA1035, CCP1, CONDCA
AGXT, SPAT
AHCY, SAHH
AHI1
AIFM1, PDCD8, AIF, COXPD6, COWCK, CMTX4, DFNX5
AIMP1, SCYE1, EMAP2, EMAPII, HLD3
AIMP2, JTV1, HLD17
ALDH18A1, PYCS, GSAS, ARCL3A, SPG9A, SPG9B, ADCL3
ALDH3A2, ALDH10, SLS, FALDH
ALDH5A1, SSADH
ALDH6A1, MMSDH
ALDH7A1, ATQ1, EPD, PDE
ALG1, HMAT1, HMT1, CDG1K
ALG11, KIAA1266, CDG1P
ALG13, GLT28D1, CDG1S, EIEE36
ALG14, CMS15
ALG2, CDGII, CMSTA3, CMS14
ALG3, NOT56L, CDGS4, CDG1D
ALG6, CDG1C
ALG9, DIBD1, CDG1L, GIKANIS
ALKBH8, ABH8, MRT71
ALPL, HOPS, TNSALP
ALS2, ALSJ, PLSJ, IAHSP
AMACR, CBAS4, AMACRD
AMPD2, SPG63, PCH9
AMT, NKH, GCE
ANG, RNASE5, ALS9
ANK3, MRT37
ANKLE2, LEM4, KIAA0692, MCPH16
ANO10, TMEM16K, SCAR10
ANO3, TMEM16C, C11orf25, DYT24
ANO5, TMEM16E, GDD1, LGMDR12
KAL1, KMS, ADMLX, HH1
ANXA11, ANX11, ALS23
AP1B1, ADTB1, BAM22, CLAPB2
AP1S1, CLAPS1, AP19, MEDNIK
AP1S2, MRX59, MRXSf, MRXS21, MRXS5, PGS
AP2M1, CLAPM1, MRD60
AP3B2, NAPTb, EIEE48

AP3D1, HPS10
AP4B1, SPG47, CPSQ5
AP4E1, SPG51, CPSQ4, STUT1
AP4M1, SPG50, CPSQ3
AP4S1, CPSQ6, SPG52
AP5Z1, KIAA0415, SPG48
APC2, APCL, SOTOS3
APOB, FLDB, LDLCQ4, FCHL2
APP, AAA, CVAP, AD1
APTX, AOA, AOA1
ARCN1, SRMMD
ARF1, PVNH8
ARG1
ARHGEF2, GEFH1, KIAA0651, NEDMHM
ARID2, BAF200, KIAA1557, CSS6
ARL13B, ARL2L1, JBTS8
ARL3, ARFL3, JBTS35, RP83
ARL6, BBS3, RP55
ARL6IP1, KIAA0069, SPG61
ARMC9, KIAA1868, JBTS30
ARSA
ARSB, MPS6
ARV1, EIEE38
ARX, ISSX, PRTS, MRXS1, MRX36, MRX54, MRX43, MRX87, MRX29, MRX32
ASAH1, AC, SMAPME
ASCC1, p50, SMABF2
ASH1L, KIAA1420, ASH1, MRD52
ASNS, ASNSD
ASPA
ASPM, MCPH5
ASXL3, KIAA1713, BRPS
ATAD1, THORASE, HKPX4
ATAD3A, HAYOS
ATCAY, CLAC, KIAA1872
ATL1, SPG3A, HSN1D
ATL3, HSN1F
ATM, ATA, AT1
ATN1, DRPLA, HRS, NOD, CHEDDA
ATP13A2, PARK9, KRPPD, SPG78
ATP1A1, CMT2DD, HOMGSMR2
ATP1A2, FHM2, MHP2
ATP1A3, DYT12, RDP, AHC2, CAPOS
ATP2B3, PMCA3, SCAX1
ATP5F1D, ATP5D, MC5DN5
ATP5E, MC5DN3

ATP6AP2, ATP6M8-9, XMRE, MRXSH, XPDS
ATP6V1A, HO68, ARCL2D, IECEE3
ATP7A, MNK, MK, OHS, SMAX3
ATP7B, WND
ATP8A2, ATPIB, CAMRQ4
ATR, FRP1, SCKL1, FCTCS
ATRX, XH2, XNP, SHS, SFM1, MRXHF1
ATXN1, ATX1, SCA1
ATXN10, SCA10
AUH
KIAA0442, MRD26
B2M, IMD43
B3GALNT2, MGC39558, MDDGA11
B4GALNT1, GALGT, GALNACT, SPG26
B4GAT1, B3GNT1, IGNT, IGAT, MDDGA13
B9D1, MKSR1, MKS9, JBTS27
BAG3, MFM6
BAP1, TPDS
BBS1
BBS2, RP74
BCL11B, CTIP2, IMD49, IDDFSTA
BCORL1, SHUVER
BCS1L, FLNMS, GRACILE, BJS, PTD, MC3DN1
BEAN, SCA31
BICD2, KIAA0699, SMALED2A, SMALED2B
BIN1, AMPHL, CNM2
BMP4, BMP2B1, BMP2B, MCOPS6, OFC11
BOLA3, MMDS2
BRAF, NS7
BRAT1, BAAT1, C7orf27, RMFSL, NEDCAS
BRIP1, BACH1, FANCJ
BSCL2, SPG17, HMN5, PELD
BSND
BVES, HBVES, POPDC1, LGMDR25
NA
NA
NA
C4A, C4S, C4AD
NA
NA
CA2
CA8, CALS, CARP, CAMRQ3
CACNA1A, CACNL1A4, SCA6, EIEE42
CACNA1B, CACNL1A5, NEDNEH
CACNA1D, CACNL1A2, CCHL1A2, SANDD, PASNA

CACNA1E, CACNL1A6, EIEE69
CACNA1G, SCA42, SCA42ND
CACNA1H, EIG6, ECA6, HALD4
CACNA1S, CACNL1A3, CCHL1A3, TTPP1, HOKPP1
CACNA2D2, KIAA0558, CASVDD
CACNB4, EJM6, EA5, EIG9
CAD, CDG1Z, EIEE50
CAMK2A, KIAA0968, CAMKA, MRD53, MRT63
CAMK2B, MRD54
CAMTA1, KIAA0833, CANPMR
CANT1, SCAN1, DBQD1, EDM7
CAPN1, SPG76
CAPN3, CANP3, LGMDR1, LGMDD4
CARS2, COXPD27
CASK, MICPCH, FGS4, CMG, MRXSNA
CASR, HHC1, PCAR1, FIH, EIG8, HYPOC1
CAV1, BSCL3, CGL3, PPH3, LCCNS
CAV3, LQT9, MPDT, RMD2
CAVIN1, PTRF
GIF, IF
CC2D1A, MRT3
CC2D2A, KIAA1345, MKS6
CCBE1, KIAA1983, HKLLS1
CCDC88A, KIAA1212, HKRP1, GIRDIN, APE, GIV, PEHOL
CCDC88C, HKRP2, DAPLE, KIAA1509, HYC1, SCA40
WISP3, PPAC, PPD
CCNF, FBX1
CCT5, KIAA0098, CCTE
CD59, MIC11
CDH23, USH1D, DFNB12, PITA5
CDK10, PISSLRE, ALSAS
CDK5, LIS7
CDK5RAP2, KIAA1633, MCPH3
CDK6, PLSTIRE, MCPH12
CDK8
CDKL5, STK9, ISSX, EIEE2
CENPJ, CPAP, MCPH6, SCKL4
CEP104, GLYBP, KIAA0562, JBTS25
CEP120, CCDC100, SRTD13, JBTS31
CEP135, KIAA0635, MCPH8
CEP152, KIAA0912, MCPH9, SCKL5
CEP41, TSGA14, JBTS15
CEP57, PIG8, TSP57, KIAA0092, MVA2
CEP63, SCKL6
CERS1, LASS1, UOG1, EPM8

COL4A3BP, GPBP, CERT, MRD34
CFAP410, C21orf2, SMDAX, RDMS
CFAP43, WDR96, C10orf79, SPGF19
CFL2, NEM7
CHAMP1, ZNF828, C13orf8, KIAA1802, MRD40
CHAT, CMS6
CHCHD10, FTDALS2, SMAJ, IMMD
CHCHD2, PARK22
CHD1, PILBOS
CHD2, EEOC
CHD3, SNIBCPS
CHD4, SIHIWES
CHD7, HH5
CHKB, CHKL, CKEKB, EKB, MDCMC
CHMP1A, PCOLN3, PRSM1, PCH8
CHMP2B, DMT1, VPS2B, ALS17
CHN1, CHN, ARHGAP2, RHOGAP2, DURS2
CHP1, SPAX9
CHRNA1, ACHRD, CMS1B, CMS1A
CHRNA2
CHRNB1, ACHRB, SCCMS, CMS2A, CMS2C
CHRND, ACHRD, SCCMS, CMS3A, CMS3B, CMS3C
CHRNE, SCCMS, CMS4A, CMS4B, CMS4C
CHRNG, ACHRG
CHST14, D4ST1, ATCS, EDSMC1
CHST3, C6ST, C6ST1, HSD
CIC, KIAA0306, MRD45
CIITA, MHC2TA, C2TA
ICK, MRK, KIAA0936, ECO, EJM10
CISD2, WFS2, ZCD2, ERIS
CIT, STK21, CRIK, MCPH17
CKAP2L, RADMIS
CLCF1, BSF3, CLC, CISS2
CLCN2, EGMA, ECA2, EGI11, EJM8, LKPAT, HALD2
CLCN4, MRX49, MRX15, MRXSRC
CLCN7, CLC7, OPTA2, OPTB4, HOD
CLCNKB
CLIC2, XAP121, MRXS32
CLN3, BTS
CLN5
CLN6, CLN4A
CLN8, EPMR
CLP1, HEAB, PCH10
CLPB, SKD3, MEGCANN, MGCA7
CLRN1, USH3A, USH3, RP61

CLTC, MRD56
CNKSR2, CNK2, KIAA0902, MRXSHG
CNNM2, ACDP2, HOMG6, HOMGSMR
CNPY3, TNRC5, PRAT4A, ERDA5, EIEE60
CNTN1, MYPCN
CNTN2, TAX, TAX1, FAME5
CNTNAP1, CASPR, P190, CHN3
CNTNAP2, CASPR2, NRXN4, CDFE, AUTS15, PTHSL1
COA7, RESA1, SELRC1, C1orf163, SCAN3
APOPT1, APOP
COASY, NBIA6, PCH12
COG4, COD1, CDG2J, SWILS
COG5, GOLTC1, GTC90, CDG2I
COG7, CDG2E
COG8, DOR1, CDG2H
COL10A1
COL12A1, UCMD2, BTHLM2, EDSMYP
COL13A1, CMS19
COL1A1, OI1, OI2, OI3, OI4, EDSARTH1
COL2A1
COL4A1, BSVD1, HANAC, ICH, BSVD, RATOR, PADMAL
COL4A2, BSVD2, ICH
COL6A1, BTHLM1, UCHMD1
COL6A2, BTHLM1, UCMD1
COL6A3, DYT27, BTHLM1, UCMD1
COL9A1, EDM6, STL4
COL9A2, EDM2, STL5
COL9A3, EDM3, IDD
COLEC11, CLK1, 3MC2
COLQ, EAD, CMS5
COMP, EDM1, MED, PSACH
COPB2, MCPH19
COQ2, COQ10D1, MSA1
COQ7, CLK1, COQ10D8
ADCK3, COQ8, CABC1, SCAR9, ARCA2, COQ10D4
COQ9, C16orf49, COQ10D5
CORO1A, TACO, CLIPINA, IMD8
COX10
COX15, CEMCOX2
COX6A1, CMTRID
CP
CPLANE1, C5orf42, JBTS17, OFD6
CPLX1, CPX1, EIEE63
CPOX
CPT1A

CPT1C, SPG73
CRADD, RAIDD, MRT34
CRAT, CAT1, NBIA8
CRB1, RP12, LCA8
CRBN, MRT2
CREBBP, CBP, RSTS1, MKHK1
ISPD, MDDGA7, MDDGC7, LGMDR20
CRYAB, CRYA2, CTPP2, CMD1II, CTRCT16, MFM2
CSF1R, FMS, HDLS, BANDDOS
CSNK2A1, CK2A1, OCNDS
CSPP1, CSPP, JBTS21
CSTB, STFB, EPM1, PME, EPM1A, ULD
CTBP1, HADDTs
CTC1, CRMCC, C17orf68, AAF132
CTDP1, FCP1, CCFDN
CTH
CTLA4, IDDM12, CELIAC3, ALPS5
CTNNA2, CAPR, CTNR, CDCBM9
CTNNB1, NEDSDV, EVR7
CTSD, CPSD, CLN10
CTSF, CLN13
CUL4B, MRXSC, MRXHF2, SFM2, MRXS15
CUX2, CDP2, CUTL2, EIEE67
CWF19L1, C19L1, SCAR17
CXCR4, D2S201E, NPY3R, WHIMS
NA
CYB5A, MCB5, METAG
CYB5R3, DIA1, B5R
CYFIP2, EIEE65
CYP1B1, GLC3A, ASGD6
CYP27A1, CYP27, CTX
CYP27B1, VDD1, PDDR
CYP2R1
CYP2U1, SPG56
CYP7B1, CBAS3, SPG5A
D2HGDH, D2HGD
DAB1, SCA37
DAG1, DAG, MDDGC9, MDDGA9, LGMDR16
DARS1, DARS, HBSL, HBSL
DARS2, ASPRS, LBSL
DBH, ORTHYP1
DCAF17, C20orf37
DCAF8, WDR42A, GAN2
DCC, MRMV1, HGPPS2
DCPS, HINT5, DCS1, ARS

DCTN1, HMN7B
DDB2
DDC
DDHD1, PAPLA1, KIAA1705, SPG28
DDHD2, KIAA0725, SPG54
DDOST, OST, OST48, CDG1R
DDRGK1, UFBP1, C20orf116, SEMDSH
DDX3X, DDX3, DBX, MRX102
DEAF1, SPN, ZMYND5, MRD24
DEGS1, DES1, MLD, HLD18
DENND5A, RAB6IP1, KIAA1091, EIEE49
DES, CMD1I, MFM1, SCPNK
DGUOK, DGK, MTDPS3, PEOB4, NCPH
DHCR7, SLOS
DHDDS, HDS, RP59, DEDSM
DHFR
DHH, SRXY7, GDXYM
DHPS, NEDSSWI
DHTKD1, KIAA1630, AMOXAD, CMT2Q
DHX30, DDX30, RETCOR, KIAA0890, NEDMIAL
DHX37, KIAA1517
DKC1, DKCX
DLAT, PDCE2
DLD, LAD, PHE3, DLDD
DLG3, NEDLG, SAP102, MRX90
DLST, PGL7
DMD, BMD, CMD3B
DMPK, DM, DMK
DMXL2, RC3, KIAA0856, PEPNS, DFNA71
DNA2, DNA2L, KIAA0083, PEOA6, SCKL8
DNAJB2, HSJ1, HSPF3, DSMA5
DNAJB6, MRJ, DJ4, LGMDD1
DNAJC12, JDP1, HPANBH4
DNAJC19, TIM14
DNAJC21, DNAJA5, BMFS3
DNAJC3, PRKRI, P58, ACPHD
DNAJC5, DNAJC5A, CSP, CLN4B
DNAJC6, DJC6, KIAA0473, PARK19
DNAL4, MRMV3
DNASE1L3, SLEB16
DNM1, EIEE31
DNM1L, DRP1, DVLP, DYMPLE, EMPF1, OPA5
DNM2, CMTDIB, CMTDI1, CMT2M, LCCS5
DNMT1, MCMT, HSN1E, ADCADN
DNMT3A, TBR5

DOCK3, NEDIDHA
DOCK7, KIAA1771, EIEE23
DOK7, C4orf25, CMS10, FADS3
DPAGT1, DPAGT2, DGPT, CDG1J, CMSTA2, CMS13
DPF2, REQ, UBID4, CSS7
DPH1, DPH2L1, OVCA1, DEDSSH
DPM1, MPDS, CDGIE
DPM2, CDG1U
DPM3, CDG1O
DPP6, VF2, MRD33
DPYD, DPD
DPYS, DHP
DRD4
DSE, SART2, EDSMC2
DST, BPAG1, DMH, D6S1101, HSAN6, EBSB2
DSTYK, KIAA0472, RIP5, DUSTYPK, CAKUT1, SPG23
DUSP6, MKP3, PYST1, HH19
DYM, FLJ90130, DMC, SMC
DYNC1H1, DNCL, DNECL, CMT20, MRD13, SMALED1
DYNC1I2, DNCI2, IC2, NEDMIBA
DYRK1A, MNBH, MNB, MRD7
DYSF, LGMDR2, MMD1
EARS2, KIAA1970, COXPD12
EBF3, COE3, HADDS
EBP, CDPX2, CPXD, CPX, MEND
ECHS1, SCEH, ECHS1D
ECM1, URBWD
EDC3, YJDC, MRT50
EDNRB, HSCR2, ABCDS, WS4A
EED, WAIT1, COGIS
EEF1A2, EIEE33, MRD38
EEF2, EF2, SCA26
EFL1, RIA1, EFTUD1, FAM42A, SDS2
EGF, URG, HOMG4
EGR2, KROX20, CHN1
EHMT1, EUHMTASE1, KMT1D, DEL9q34, KLEFS1
EIF2AK3, PEK, PERK, WRS
EIF2B1, EIF2BA
EIF2B2
EIF2B3
EIF2B4
EIF2B5, LVWM, CACH, CLE
EIF2S3, EIF2G, MEHMO, MRXSBK
ELN, SVAS, ADCL1
ELOVL1, SSC1, IKSHD

ELOVL4, ADMD, STGD2, STGD3, ISQMR, SCA34
ELOVL5, HELO1, SCA38
IKBKAP, IKAP
ELP2, STATIP1, MRT58
EMC1, KIAA0090, CAVIPMR
EMD, EDMD, STA
ENPP1, PDNP1, NPPS, M6S1, PCA1, ARHR2, COLED
ENTPD1, CD39, SPG64
EP300, RSTS2, MKHK2
EPAS1, MOP2, HIF2A, ECTY4
EPCAM, ACSTD1, TROP1, M4S1, MIC18, DIAR5, HNPCC8
EPG5, KIAA1632, HEEW1, VICIS
EPM2A, MELF, EPM2
EPRS, PARS, HLD15
ERBB3, LCCS2, FERLK
ERBB4, HER4, ALS19
ERCC1, UV20, COFS4
ERCC2, EM9, XPD, COFS2, TTD1
ERCC3, XPB, TTD2
ERCC4, XPF, FANCC, XFEPS
ERCC5, XPG, COFS3
ERCC6, CKN2, COFS1, CSB, ARMD5, UVSS1, POF11
ERCC8, CKN1, CSA, UVSS2
ERLIN1, SPG62
ERLIN2, SPFH2, C8orf2, SPG18
ERMARD, C6orf70, PVNH6
ETHE1, HSCO, D83198
EXOSC3, RRP40, PCH1B
EXOSC9, PMSCL1, PCH1D
EXT1
EXT2, SSMS
EXTL3, EXTR1, ISDNA
EYA1, BOR, BOS1, OFC1
FA2H, FAAH, FAXDC1, FAH1, SCS7, SPG35
FAH
FAM126A, DRCTNNB1A, HLD5
FAM149B1, KIAA0974
FAN1, MTMR15, KIAA1018, KMIN
FANCA, FACA, FA1, FA, FAA
FANCB, FAAP95, FAAP90, FLJ34064
FANCC, FACC
FANCD2, FANCD, FACD, FAD
FANCE, FACE
FANCF
XRCC9, FANCG

FANCI, KIAA1794
PHF9, FANCL
FANCM, KIAA1596, SPGF28, POF15
FAR1, MLSTD2, PFCRD
FARS2, FARS1, COXPD14, SPG77
FAS, TNFRSF6, APT1, CD95, ALPS1A
FAT2, MEGF1, SCA45
FBLN1
FBLN5, ARMD3, ADCL2, ARCL1A, HNARMMD
FBN1, MFS1, WMS2, SSKS, GPHYSD2, ACMICD, ECTOL1, MFLS
FBXL4, FBL4, MTDPS13
FBXO11, FBX11, VIT1, PRMT9, IDDFBA
FBXO31, FBX31, FBXO14, FBX14, MRT45
FBXO38, FBX38, MOKA, HMN2D
FBXO7, FBX7, FBX, PKPS, PARK15
FCSK, FUK, CDGF2
FDX2, FDX1L, MEOAL
FEZF1, FEZ, ZNF312B, HH22
FGD1, FGDY, AAS, MRXS16
FGD4, FRABIN, CMT4H
FGF12, FHF1, EIEE47
FGF14, FHF4, SCA27
FGF17, HH20
FGF8, HH6
FGFR1, FLT2, OGD, KAL2, HH2, HRTFDS, ECCL
FGFR2, BEK, CFD1, JWS, TK14, BBDS
FGFR3, ACH
FH, HLRCC, MCUL1, FMRD
FHL1, SLIM1, XMPMA, KYOT, FHL1A, FHL1B, RBMX1A, RBMX1B, FCMSU
FIG4, KIAA0274, SAC3, ALS11, YVS, BTOP
FKBP10, FKBP65, OI11, BRKS1
FKRP, MDC1C, LGMDR9, MDDGA5, MDDGB5, MDDGC5
FKTN, FCMD, CMD1X, LGMDR13, MDDGA4, MDDGB4, MDDGC4
FLI1, BDPLT21
FLNA, FLN1, NHBP, OPD1, OPD2, FMD, MNS, CVD1, CSBS, FGS2
FLNC, FLN2, ABPA, ABPL, MFM5, MPD4, CMH26, RCM5
FLRT3, HH21
FLVCR1, AXPC1, PCARP
FLVCR2, C14orf58, CCT, PVHH, EPV
FMN2, MRT47
FN1, FN, LETS, FNZ, GFND2, SMDCF
FOLR1
FOXG1, FOXG1B, FKHL1, FKH2, QIN, BF1
FOXP1, QRF1
FOXRED1, MC1DN19

FRMPD4, PRESO, KIAA0316, MRX104
FRRS1L, C9orf4, CG6, EIEE37
FTL, NBIA3, LFTD
FTSJ1, JM23, SPB1, MRX44, MRX9
FUCA1
FUS, TLS, ALS6, ETM4
FXR1
GAA
GABBR2, GPR51, EIEE59, NDPLHS
GABRA1, EJM5, ECA4, EIEE19
GABRA2, EIEE78
GABRA5, EIEE79
GABRB2, ICEE2
GABRB3, ECA5, EIEE43
GABRG2, EIEE74, FEB8, ECA2, GEFSP3
GAD1, SCP, CPSQ1
GALC
GALT
GAMT, CCDS2
GAN, GAN1
GARS1, GARS, SMAD1, CMT2D, HMN5
GATAD2B, KIAA1150, p68, MRD18
GBA
GBA2, KIAA1605, SPG46
GBE1, GSD4, APBD
GCDH
GCH1, DYT5, HPABH4B
GCLC, GLCLC
GCSH, NKH
GDAP1, CMT4A, CMT2K, CMTRIA
GDAP2, SCAR27
GDF6, MCOP4, KFS1, MCOPCB6, LCA17, SYNS4
GDI1, RABGD1A, MRX41, MRX48
GEMIN4, NEDMCR
GFAP, ALXDRD
GFER, ERV1, ALR
GFM1, EFG1, GFM, COXPD1
GFM2, EFG2, RRF
GFPT1, GFAT1, GFPT1L, MSLG, CMS12, CMSTA1
GGT1, GGT, GGTD
GJA1, CX43, ODDD, SDTY3, ODOD, HSS, AVSD3, HLHS1, CMDR, EKVP3
GJB1, CX32, CMTX1
GJB2, CX26, DFNB1A, PPK, DFNA3A, KID, HID
GJB6, CX30, DFNA3B, DFNB1B, ECTD2, HED2
GJC2, GJA12, CX47, PMLDAR, HLD2, SPG44, LMPHM3

GK
GLA
GLB1, MPS4B
GLDC, HYGN1, GCSP, GCE, NKH
GLE1, GLE1L, LCCS, LCCS1, CAAHD
GLRA1, STHE, HKPX1
GLRB, HKPX2
GLRX5, C14orf87, PRO1238, FLB4739, PRSA, SIDBA3, SPAHGC
GLUD1
GLUL, GLNS
GLYCTK, GLYCTK1
GM2A
GMPPA, AAMR
GMPPB, KIAA1851, MDDGA14, MDDGB14, MDDGC14, LGMDR19
GNA11, HHC2, HYPOC2
GNAL, DYT25
GNAO1, EIEE17, NEDIM
GNAS, GNAS1, GPSA, POH, PHP1B, PHP1A, AHO, PHP1C, PITA3
GNB1, MRD42
GNB4, CMTD1F
GNB5, GB5, IDDCA, LADCI
GNE, GLCNE, IBM2, DMRV, NM
GNPTAB, GNPTA
GNS, G6S
GOSR2, GS27, EPM6
GOT2
GP1BA, BSS, BDPLT1, VWDP, BDPLT3
GP1BB, BS, BDPLT1
GPAA1, GAA1, GPIBD15
GPHN, GPH, KIAA1385, GEPH, MOCODC
GPI
GPR88, STRG, COCPMR
GPT2, ALT2, MRT49
GRIA3, GLUR3, MRX94
GRIA4, GLUR4, NEDSGA
GRID2, SCAR18
GRIK2, GLUR6, MRT6
GRIN1, NMDAR1, NDHMSR, NDHMSD
GRIN2A, NMDAR2A, FESD, LKS
GRIN2B, NMDAR2B, MRD6, EIEE27
GRIN2D, NMDAR2D, EIEE46
GRM1, MGLUR1, GRM1A, SCAR13, SCA44
GRN, CLN11
GSN
GSS, GSHS

GTF2E2, TTD6
GTF2H5, TTD3, TFB5, C6orf175, TTDA
GTPBP2, JABELS
GTPBP3, MSS1, COXPD23
GUSB, MPS7
GYG1, GSD15
HACE1, KIAA1320, SPPRS
HADHSC, SCHAD, HHF4
HADHA, MTPA
HADHB
HAL, HSTD
HARS1, HARS, USH3B, CMT2W
HCFC1, HCF1, MRX3
HCN1, BCNG1, EIEE24, GEFSP10
HDAC4, HDACA
HDAC8, MRXS6, CDLS5
HDC
HECW2, NEDL2, KIAA1301, NDHSAL
HERC1, MDFPMR
HERC2, SHEP1, MRT38
HESX1, RPX, CPHD5
HEXB
HFE, HLA-H, HFE1, MVCD7, TFQTL2
HGSNAT, TMEM76, MPS3C, RP73
HIBCH
HIKESHI, C11orf73, HLD13
HINT1, PRKCNH1, NMAN
HIVEP2, MRD43
HK1, HKD, HMSNR, RP79, NEDVIBA
HMBS, PBGD, UPS
HMGCL
HNF4A, TCF14, MODY1, FRTS4
HNMT, MRT51
HNRNPA1, IBMPFD3, ALS20
HNRPA2B1, IBMPFD2
HNRNPDL, HNRPDL, JKTBP, LGMDD3
HNRNPH2, NRPH2, MRXSB
HOXA2, MCOHI
HPCA, DYT2
HPGD, PGDH1, PHOAR1
HPRT1, HPRT
HRAS
HS6ST1, HS6ST, HH15
HSD17B10, HADH2, ERAB, MRXS10, HSD10MD
HSD17B4, PRLTS1

HSD3B7, CBAS1
HSPB1, HSP27, CMT2F, HMN2B
HSPB3, HSPL27, HMN2C, DHMN2C
HSPB8, H11, E2IG1, DHMN2, CMT2L, HMN2A
HSPD1, SPG13, HSP60, HLD4
HSPG2, PLC, SJS, SJA, SJS1
HTRA1, PRSS11, ARMD7, CARASIL, CADASIL2
HTRA2, OMI, PARK13, PRSS25, MGCA8
HUWE1, UREB1, KIAA0312, LASU1, MRXST
HYLS1, FLJ32915
IARS2, CAGSSS
IBA57, C1orf69, MMDS3, SPG74
IDH2, IDPM, D2HGA2
IDS, MPS2, SIDS
IDUA, IDA
IER3IP1, MEDS
IFIH1, MDA5, AGS7, SGMRT1
IFT140, KIAA0590, SRTD9, MZSDS, RP80
IFT172, SLB, KIAA1179, SRTD10, RP71
IGF1
IGF2, GRDF
IGHMBP2, SMUBP2, CATF1, SMARD1, HMN6, CMT2S
IKBKG, NEMO, FIP3, IP, IPD2, AMCBX1, IMD33, EDAID1
IL17RD, SEF, HH18
IL1RAPL1, IL1R8, MRX21, MRX34
INF2, FSGS5, C14orf173, CMTDIE
INPP5E, MORMS, JBTS1, CORS1
INPP5K, SKIP, MDCCAID
INTS1, INT1, KIAA1440, NDCAGF
INTU, KIAA1284, PDZK6, SRTD20, OFD17
IQSEC1, KIAA0763
IQSEC2, KIAA0522, MRX1, MRX78
IREB2, NDCAMA
IRF2BPL, C14orf4, EAP1, NEDAMSS
ISCA1, HBLD2, HISCA, MMDS5
ISCA2, MMDS4
ITGA2, CD49B, BR, BDPLT9
ITGA2B, GP2B, CD41B, GT, BDPLT2, BDPLT16
ITGA7
ITM2B, BRI, ABRI, FBD, RDGCA
ITPA, EIEE35
ITPR1, SCA15, SCA16, SCA29
JAG1, AGS1, AHD, DCHE
JAM2, VEJAM
JAM3

JPH1, JP1, CMT2K
JPH3, JP3, HDL2
KANK1, KANK, ANKRD15, KIAA0172, CPSQ2
KANSL1, KIAA1267, MSL1V1, KDVS
KARS1, KARS, CMTRIB, DFN89
KAT6A, MYST3, MOZ, ZNF220, MRD32
KATNB1, LIS6
KBTBD13, NEM6
KCNA1, AEMK, EA1
KCNA2, EIEE32
KCNA4, KCNA8, MCIDDS
KCNB1, EIEE26
KCNC1, EPM7
KCNC3, SCA13
KCND3, KCND3S, KCND3L, SCA19, SCA22, BRGDA9
KCNJ1, ROMK1
KCNJ10, SESAME
KCNJ6, GIRK2, KCNJ7, KPLBS
KCNK4, TRAAK, FHEIG
KCNK9, TASK3
KCNMA1, SLO, PNKD3, CADEDS, IEG16
KCNQ2, EBN1, EIEE7, BFNS1
KCNQ3, EBN2, BFNC2
KCNQ5, MRD46
KCNT1, KIAA1422, EIEE14, ENFL5
KCTD17
KCTD7, EPM3, CLN14
KDM1A, LSD1, AOF2, BHC110, KIAA0601, CPRF
KDM5B, JARID1B, PUT1, PLU1, RBBP2H1A, MRT65
KDM5C, JARID1C, SMCX, DXS1272E, XE169, MRXSCJ
KDM6B, JMJD3, KIAA0346, NEDCFSA
KIAA0586, TALPID3, JBTS23, SRTD14
KIAA0753, OFIP, OFD15
KIDINS220, ARMS, SINO
KIF11, KNSL1, MCLMR
KIF14, KIAA0042, MKS12, MCPH20
KIF1A, ATSV, UNC104, SPG30, HSN2C, MRD9
KIF1B, CMT2A, CMT2A1, NBLST1
KIF1C, LTXS1, KIAA0706, SPAX2
KIF5A, NKHC, SPG10, NEIMY, ALS25
KIF7, HLS2, ACLS, JBTS12, AGBK
KISS1R, GPR54, HH8, CPPB1
KLC2, SPOAN
KLHL40, SYRP, KBTBD5, NEM8
KLHL41, KBTBD10, SARCOSIN, NEM9

KLHL7, RP42, CISS3
KMT2A, MLL, HRX, HTRX1, WDSTS
KMT2B, MLL4, KIAA0304, DYT28
KNL1, CASC5, AF15Q14, KIAA1570, D40, MCPH4
KPTN, 2E4, MRT41
KRAS, KRAS2, RASK2, NS, CFC2, RALD, OES
KY, MFM7
KYNLU, KYNLUU, VCRL2
L1CAM, CAML1, HSAS1, MASA, SPG1
L2HGDH, C14orf160, L2HGA
LAMA1, PTBHS
LAMA2, LAMM, MDC1A
LAMB2, LAMS, NPHS5
LAMP2, LAMPB, LGP110, DND
LARGE, KIAA0609, MDC1D, MDDGA6, MDDGB6
LARP7, PIP7S, ALAZS
LBR, PHA, PHASK
LDB3, ZASP, CYPHER, KIAA01613, MFM4, CMD1C, CMH24, LVNC3
LDLR, FHCL1, FHC, FH, LDLCQ2
LDLRAP1, ARH, FHCB2, FHCB1, FHCL4
LEMD3, MAN1
LGI4, AMCNMY
LHCGR, LHR, LCGR
LIAS, PDHLD, HGCLAS
LIFR, STWS, SWS, SJS2
LIG4, LIG4S
LIMS2, PINCH2, MDRCMTT
LINS1, WINS1, FLJ10583, MRT27
LIPE, LHS, FPLD6
LIPT1, LIPT1D
LIPT2
LITAF, CMT1C
LMAN2L, VIPL, MRT52
LMNA, LMN1, EMD2, FPLD2, CMD1A, HGPS
LMNB1, ADLD
LMNB2, LMN2, EPM9
LMOD3, NEM10
LMX1B, NPS1
LNPK, KIAA1715, NEDEHCC
LPIN1
LRP12, MIG13A
LRP4, MEGF7, CLSS, SOST2, CMS17
LRPPRC, LRP130, LSFC
LRRK2, PARK8
LRSAM1, TAL, RIFLE, CMT2P

LTBP4, LTBP4S, LTBP4L, ARCL1C
LYRM7, MZM1L, MC3DN8
LYST, CHS1
MAB21L1, COFG
MACF1, ACF7, KIAA1251, LIS9
MAD2L2, MAD2B, FANCV
MAFB, KRML, MCTO, DURS3
MAG, GMA, SPG75
MAGEL2, NDNL1, SHFYNG
MAN1B1, MRT15
MAN2B1, MANB
MANBA, MANB1
MAOA, BRNRS
MAP11, C7orf43, MCPH25
ZAK, MLTK, MRK, SFMMP, CNM6
MAPK1, PRKM1, ERK2
MAPK8IP3, SYD2, JSAP1, JIP3, NEDBA
MAPT, MTBT1, DDPAC, MSTD
MARCH6, TEB4, DOA10, KIAA0597
MARS1, MARS, MTRNS, METRS, ILLD, CMT2U
MARS2, SPAX3, COXPD25
MAST1, SAST, KIAA0973, MCCCHCM
MAT1A, MATA1, SAMS1
MATR3, MPD2, ALS21
MBD5, KIAA1461, MRD1
MBOAT7, BB1, LENG4, MRT57
MBTPS1, S1P, SEDKF
MCCC1, MCCA
MCCC2, MCCB
MCM3AP, MAP80, GANP, PNRIID
MCOLN1, ML4
MCPH1
MDH2, EIEE51
MECP2, RTT, PPMX, MRX16, MRX79, AUTSX3, MRXSL, MRXS13
MECR, NRBF1, DYTOABG
MED12, TNRC11, TRAP230, HOPA, KIAA0192, OKS, FGS1, OHDOX
MED13, THRAP1, TRAP240
MED13L, THRAP2, PROSIT240, TRAP240L, KIAA1025, MRFACD
MED17, CRSP6, CRSP77, TRAP80, DRIP80
MED23, MRT18
MED25, PTOV2, ARC92, CMT2B2, BVSYS
MEF2C, C5DELq14.3, DEL5q14.3
MEFV, MEF, FMF
MEGF10, KIAA1780, EMARDD
METTL23, C17orf95, MRT44

NA
MFF, C2orf33, EMPF2
MFN2, KIAA0214, CMT2A2A, HMSN6A, CMT2A2B
MFSD2A, MCPH15
MFSD8, MGC33302, CLN7, CCMD
MGAT2, CDGS2, CDG2A
MGME1, C20orf72, MTDPS11
MICOS13, C19orf70, MIC13, QIL1
MICU1, CBARA1, MPXPS
MID2, MRX101
MKRN3, ZFP127, ZNF127, CPPB2
MKS1, MKS, BBS13, JBTS28
MLH1, COCA2, HNPCC2
MMAA
MMACHC
C2orf25, MMADHC
MME, CD10, CALLA, NEP, CMT2T, SCA43
MMP13, CLG3, MANDP1, MDST
MMP2, CLG4A, MONA
MUT, MCM
MOCS1, MOCODA
MOCS2, MPTS, MOCODB
MORC2, ZCW3, ZCWCC1, KIAA0852, CMT2Z
BRP44L, MPC1, MPYCD
MPL, TPOR, MPLV, THCYT2
MPLKIP, C7orf11, ABHS, TTDN1, TTD4
MPV17, MTDPS6, CMT2EE
MPZ, CMT1B, CMTDID, DSS, CHN2
MRE11A, MRE11, ATLD
MRPS16, COXPD2
MRPS34, MRPS12, COXPD32
MSH2, COCA1, FCC1, HNPCC1
MSTO1, MMYAT
MTFMT, COXPD15, MC1DN27
MTHFR
MTHFS, NEDMEHM
MTM1, MTMX
MTMR2, CMT4B1
MTO1, COXPD10
MTOR, FRAP1, SKS
MTPAP, PAPD1, SPAX4
MTR, HMAG
MTRR
MTPP
MUSK, CMS9, FADS1

MYD88, MYD88D
MYF5, EORVA
MYH14, KIAA2034, DFNA4A, PNMHH
MYH2, MYPOP
MYH3, DA2A, DA2B3, DA8, CPSKF1A, CPSKF1B
MYH7, CMH1, MPD1, CMD1S, SPMH, SPMD
MYL1, MYOFTA
MYO5A, MYH12, GS1
MYO9A, CMS24
MYOC, TIGR, GLC1A, JOAG, GPOA
MYOD1, MYF3
MYORG, NET37, KIAA1161, IBGC7
MYOT, TTOD, MFM3
MYPN, CMD1DD, CMH22, RCM4, NEM11
NAA10, ARD1A, ARD1, TE2, NATD, OGDNS, MCOPS1
NACC1, BTBD14B, NECFM
NADK2, C5orf33, DECRD
NAGA
NAGLU, MPS3B, CMT2V
NAGS
NALCN, IHPRF1, CLIFAHDD
NARS2, COXPD24, DFNB94
NAT8L, CML3, NACED
NAXD, CARKD, PEBEL2
NAXE, APOA1BP, AIBP, PEBEL
NCAPD3, CAPD3, KIAA0056, MCPH22
NDE1, NUDE, LIS4, MHAC
NDP, ND, EVR2
NDRG1, HMSNL, CMT4D
NDST1, HSST, MRT46
NDUFA1, MWFE, MC1DN12
NDUFA10, MC1DN22
NDUFA11, MC1DN14
NDUFA12, MC1DN23
NDUFA13, GRIM19, MC1DN28
NDUFA2, MC1DN13
NDUFA4
NDUFA6, MC1DN33
NDUFA9, MC1DN26
NDUFAF1, CIA30, CGI65, MC1DN11
NDUFAF2, NDUFA12L, MMTN, B17.2L, MC1DN10
NDUFAF3, MC1DN18
NDUFAF4, HRPAP20, C6orf66, MC1DN15
NDUFAF5, C20orf7, MC1DN16
NDUFAF6, C8orf38, MC1DN17

NDUFAF8, C17orf89
NDUFB10
NDUFB11, LSDMCA3, MC1DN30
NDUFB3, MC1DN25
NDUFB8, MC1DN32
NDUFB9, UQOR22, MC1DN24
NDUFS1, MC1DN5
NDUFS2, MC1DN6
NDUFS3, MC1DN8
NDUFS4, AQDQ, MC1DN1
NDUFS6, MC1DN9
NDUFS7, PSST, MC1DN3
NDUFS8, MC1DN2
NDUFV1, UQOR1, MC1DN4
NDUFV2, MC1DN7
NEB, NEM2
NECAP1, EIEE21
NEFH, CMT2CC
NEFL, CMT2E, CMT1F, CMTDIG
NEK1, SRTD6, SRPS2A, ALS24
NEK9, NERCC1, LCCS10, APUG, NC
NEU1, NEU, SIAL1
NEUROD2, EIEE72
NEXMIF, KIAA2022, MRX98
NF1, VRNF, WSS, NFNS
NF2
NFASC, KIAA0756, NEDCPMD
NFI, NF1A, SOTOS2, MRSHSS
NGF, NGFB, HSN5
NGLY1, PNG1, CDDG, CDG1V
NHLRC1, EPM2A, EPM2B
NHLRC2, FINCA
NIPA1, SPG6
NIPBL, CDLS1
NKAP
NKX2-1, TITF1, NKX2A, TTF1, NMTX1
NKX6-2, NKX6B, NKX6.2, SPAX8
NLGN4, KIAA1260, AUTSX2, ASPGX2
NLRP3, CIAS1, FCU, FCAS1, NALP3, PYPAF1, DFNA34, KEFH
NOG, SYM1, SYNS1A
NOL3, NOP, MYC, ARC, FCM, MYOCL1
NONO, NRB54, MRXS34
NOP56, SCA36
NOTCH2, AGS2, HJCYS
NOTCH2NLC

NOTCH3, CADASIL1, CASIL, IMF2, LMNS
NPC1, NPC
NPC2, HE1
NPHP1, NPH1, SLSN1, JBTS4
NR0B1, DAX1, AHC, AHX, SRXY2
NR2F1, TFCOUP1, ERBAL3, EAR3, BBSOAS
NRAS, ALPS4, NS6, CMNS, NCMS
NRXN1, PTHSL2, SCZD17
NSD1, ARA267, STO, SOTOS1
NSD2, WHSC1, MMSET
NSDHL
NSMF, NELF, HH9
NSUN2, TRM4, SAKI, MISU, MRT5
NT5C2, NT5B, PNT5, SPG45
NTN1, NTN1L, MRMV4
NA
NTRK1, TRKA, MTC
NTRK2, TRKB, OBHD, EIEEE58
NUBPL, IND1, MC1DN21
NUP188, KIAA1069
NUP62, SNDI, IBSN
NUP88, FADS4
NUS1, NGBR, C6orf68, CDG1AA, MRD55
OCLN, BLCPMG, PTORCH1
OCRL, LOCR, OCRL1, NPHL2
OFD1, CXorf5, SGBS2, JBTS10, RP23
OGDH
OPA1, NTG, NPG, BERHS, MTDPS14
OPA3, MGA3
OPHN1, MRX60
OPTN, GLC1E, FIP2, HYPL, NRP, ALS12
ORAI1, TMEM142A, CRACM1, IMD9, TAM2
OSTM1, GL, OPTB5
OTUD6B, DUBA5, IDDFSDA
OXR1
P4HTM, PH4, HIDEA
PABPN1, PABP2, PAB2
PACS1, SHMS, MRD17
PACS2, KIAA0602, EIEEE66
PAH, PKU1
PAK1, IDDMSSD
PAK3, MRX30, MRX47
PAM16, MAGMAS, SMDMDM
PANK2, NBIA1, PKAN, HARP
DJ1, PARK7

PARN, DAN, DKCB6, PFBMFT4
PARS2, EIEE75
PAX1, OFC2
PAX6, AN2, MGDA, FVH1, ASGD5
PC
PCBD1, DCOH
PCCA
PCCB
PCDH12, VECAD2, PCDH12
PCDH19, KIAA1313, EFMR, EIEE9
RNF110, ZNF144, MEL18, TPFS
PCLO, PCH3
PCNA, ATLD2
PCNT, PCNT2, KEN, SCKL4, MOPD2
NA
PDE10A, IOLOD, ADSD2
PDE4D, DPDE3, ACRDYS2
PDE6B, PDEB, RP40, CSNBAD2
PDE6D, JBTS22
PDE8B, PPNAD3, ADSD
PDGFB, SIS, IBGC5
PDGFRB, PDGFR, IBGC4, IMF1, PENTT, KOGS
PDHA1, PHE1A, PDHAD
PDHX, PDX1, E3BP, PDHxD
PDK3, CMTX6
PDP1, PPM2C, PDPC
PDSS1, TPT, COQ1, COQ10D2
PDXK, PNK, PKH, HMSN6C
PDYN, SCA23
PET100, C19orf79
PEX1, ZWS1, PBD1A, PBD1B, HMLR1
PEX10, NALD, PBD6A, PBD6B
PEX11B, PEX14B
PEX12, PBD3A
PEX13, ZWS, NALD, PBD11A, PBD11B
PEX14, PBD13A
PEX16, PBD8A, PBD8B
PEX19, PXF, HK33, D1S2223E, PBD12A
PEX2, PAF1, PMP35, PBD5A, PBD5B, PXMP3
PEX26, PBD7A, PBD7B
PEX3, PBD10A, PBD10B
PEX5, PXR1, PTS1R, PBD2A, PBD2B, RCDP5
PEX6, PXAAA1, PAF2, PBD4A, PDB4B, HMLR2
PEX7, RCDP1, PBD9B
PFN1, ALS18

PGAP1, MRT42
PGAP2, FRAG1, HPMRS3, MRT17, MRT21
PGAP3, PERLD1, CAB2, MGC9753, HPMRS4
PGK1, PGKA
PGM3, AGM1, IMD23
PHACTR1, KIAA1733, EIEE70
PHC1, EDR1, HPH1, RAE28, MCPH11
PHF6, BFLS
PHGDH, NLS1, PHGDHD
PHIP, DIDOD
PHYH, PAHX
PIBF1, JBTS33
PIEZO2, FAM38B, DA5, DA3, MWKS, DAIP
PIGA, PNH1, MCAHS2
PIGC, GPI2, GPIBD16, MRT62
PIGG, GPI7, MRT53
PIGL, CHIME
PIGN, MCAHS1
PIGO, HPMRS2
PIGP, DSCR5, EIEE55
PIGQ, EIEE77
PIGS, GPIBD18
PIGT, NDAP, PNH2, MCAHS3
PIGV, HPMRS1
PIGW, HPMRS5
PIGY, HPMRS6
PIK3R5, p101
PINK1, PARK6
PITX3, CTPP4, CTRCT11, ASGD1
PLA2G6, IPLA2, INAD1, NBIA2B, NBIA2A, PARK14
PLAA, PLAP, NDMSBA
PLCB1, KIAA0581, PLCB1A, PLCB1B, EIEE12
PLD3, HUK4, SCA46
PLEKHG2, CLG, LDAMD
PLEKHG5, KIAA0720, DSMA4, CMTRIC
PLOD1, LH1, LLH, EDSKCL1
PLP1, PMD, HLD1, SPG2
PLPBP, PROSC, EPVB6D
PMM2, CDG1A
PMP2, CMT1G
PMP22, CMT1A, CMT1E, DSS, CIDP
PMPCA, KIAA0123, SCAR2
PMPCB, MPPB
MR1, TAHCCP2, KIPP1184, BRP17, PNKD1, FPD1, PDC, DYT8
PNKP, PNK, MCSZ, EIEE10, AOA4

PNP, NP
PNPLA2, TTS2, ATGL
PNPLA6, NTE, SPG39, NTEMND, BNHS, LNMS, OMCS
PNPLA8, MMLA
PNPO
PNPT1, OLD35, COXPD13, DFNB70
POC1A, PIX2, SOFT
POGZ, KIAA0461, MRD37, WHSUS
POLA1, VEODS
POLG, POLG1, POLGA, PEO, SANDO, SCAE, MTDPS4A, MTDPS4B, MIRAS
POLG2, POLGB, PEOA4, MTDPS16
POLR1C, RPA39, RPA40, RPAC1, RPA5, TCS3, HLD11
POLR1D, RPA16, RPAC2, TCS2
POLR3A, RPC1, RPC155, ADDH, HLD7, WDRTS
POLR3B, RPC2, C128, HLD8
POMGNT1, MEB, MDDGA3, MDDGB3, MDDGC3, RP76, LGMDR15
POMGNT2, GTDC2, C3orf39, AGO61, MDDGA8, MDDGC8
POMK, SGK196, MDDGA12, MDDGC12
POMT1, MDDGA1, MDDGB1, MDDGC1, LGMDR11
POMT2, MDDGA2, MDDGB2, MDDGC2, LGMDR14
PPM1D, WIP1, JDVS
PPOX
PPP1R15B, CREP, MSSGM2
PPP2R1A, MRD36
PPP2R2B
PPP2R5D, MRD35
PPP3CA, PPP2B, CALNA, CNA1, IECEE1, ACCIID
PPT1, CLN1
PQBP1, NPW38, SHS, MRX55, MRXS3, RENS1, MRXS8
PRDM5, BCS2
PRDM8, EPM10
PRDX1, PRXI, PAGA, NKEFA
PREPL, KIAA0436, CMS22
PRICKLE1, RILP, EPM1B
PRKAR1A, TSE1, CNC1, CAR, PPNAD1, ACRDYS1
PRKAR1B
PRKCG, PKCC, PKCG, SCA14
PRKDC, HYRC1, DNPK1, IMD26
PRKN, PARK2, PDJ
PRKRA, PACT, RAX, DYT16
PRNP, PRIP, KURU, CJD
PROC, PC, THPH3, THPH4
PRODH, PRODH2, SCZD4
PROK2, PK2, BV8, HH4
PROKR2, PKR2, GPR73L1, HH3

PRPS1, CMTX5, DFNX1, DFN2
PRRT2, PKC, DYT10, EKD1, BFIS2, BFIC2, ICCA
PRSS12, BSSP3, MRT1
PRUNE1, DRES17, NMIHBA
PRX, CMT4F
PSAP, SAP1
PSAT1, PSAT, EPIP, PSATD, NLS2
PSEN1, AD3, ACNINV3
PSEN2, AD4, STM2, CMD1V
PSMD12, P55, STISS
PTCH1, NBCCS, BCNS, HPE7
PTF1A, PACA, PAGEN2
PTH1R, PTHR1, PTHR, PFE, EKNS
PTRH2, BIT1, IMNEPD
PTS
PUF60, FIR, SIAHBP1, VRJS
PUM1, KIAA0099, SCA47
PURA, PUR1, MRD31
PUS3, MRT55
PUS7, KIAA1897, IDDABS
PYCR2, HLD10
PYROXD1, MFM8
QARS1, QARS, GLNRS, MSCCA
QDPR, DHPR
QRICH1, VERBRAS
RAB11B, NDAGSCW
RAB18, WARBM3
RAB39B, MRX72, WSMN
RAB3GAP1, WARBM1, P130
RAB3GAP2, RAB3GAP150, p150, KIAA0839, WARBM2
RAB7, CMT2B, PSN
RAC1, MRD48
RAD21, SCC1, NXP1, KIAA0078, CDLS4, MGS
RAD51A, RECA, MRMV2, FANCR
RAD51C, FANCO, BROVCA3
RAI1, SMCR, SMS
RAPSN, CMS1D, CMS11, FADS2
RARS1, RARS, HLD9
RARS2, RARSL, PCH6
RBM10, DXS8237E, KIAA0122, TARPS
RBM8A, RBM8B, TAR, C1DELq21.1, DEL1q21.1
RDH12, LCA13
REEP1, C2orf23, SPG31, HMN5B
REEP2, C5orf19, SPG72
RELA, NFKB3, CMCU

REPS1, NBIA7
RERE, NEDBEH
FAM134B, HSAN2B
RFC1, RECC1, CANVAS
RFT1, CDG1N
RFWD3, FANCW
RFX5
RFXANK
RFXAP
RHO, RP4, OPN2, CSNBAD1
RHOBTB2, DBC2, KIAA0717, EIEE64
CIP150, KIAA1432
RLBP1
RLIM, RNF12, TOKAS
RMND1, COXPD11
RMRP, RMRPR, CHH
RNASEH1, PEOB2
RNASEH2A, RNHIA, AGS4
RNASEH2B, DLEU8, FLJ11712, AGS2
RNASEH2C, AYP1, FLJ20974, AGS3
RNASET2, RNASE6PL
RNF113A, ZNF183, TTD5
RNF125, TRAC1, TNORS
RNF168, RIDL
RNF170, SNAX1
RORA, IDDECA
RPGRIP1L, KIAA1005, JBTS7, MKS5
RPIA, RPI, RPIAD
RPL10, DXS648, QM, AUTSX5, MRXS35
RPS6KA3, RSK2, MRX19
RRM2B, P53R2, PEOA5, MTDPS8A, MTDPS8B
RSPRY1, KIAA1972, SEMDFA
RSRC1, SRRP53, MRT70
RTEL1, C20orf41, NHL, KIAA1088, DKCB5, DKCA4, PFBMFT3
RTN2, NSPL1, SPG12
RTTN, MSSP
RUBCN, RUBICON, KIAA0226, SCAR15
RUSC2, KIAA0375, IPORIN, MRT61
RXYLT1, TMEM5, MDDGA10
RYR1, MHS, CCO
SACS, ARSACS
SALL4, HSAL4
SAMD12
SAMD9L, ATXPC
SAMHD1, AGS5, DCIP, CHBL2

SAR1B, CMRD, SARA2, ANDD
SARDH, SARD, SAR
SARS1, SARS, SERS, NEDMAS
SASS6, SAS6, MCPH14
SATB2, KIAA1034, GLSS
SBDS, SDS
SBF1, MTMR5, CMT4B3
SBF2, MTMR13, CMT4B2
SC5DL, ERG3
SCARB2, CD36L2, LIMPII, AMRF, EPM4
SCN10A, FEPS2
SCN11A, HSAN7, FEPS3
SCN1A, GEFSP2, SMEI, FEB3A, EIEE6, FHM3
SCN1B, GEFSP1, BRGDA5, ATFB13, EIEE52
SCN2A, SCN2A1, BFIC3, EIEE11, BFIS3, BFNIS
SCN3A, FFEVF4, EIEE62
SCN4A, HYPP, NAC1A, HOKPP2, CMS16
SCN8A, CIAT, EIEE13, BFIS5, MYOCL2
SCN9A, NENA, PN1, FEB3B, GEFSP7, SFNP, HSAN2D
SCO2, CEMCOX1, MYP6
SCP2
SCYL1, NTKL, SCAR21
SCYL2, CVAK104, KIAA1360
SDHA, SDH1, SDHF, CMD1GG, PGL5
SDHAF1
SDHD, PGL1
SELENOI, SELI
SELENON, SEPN1, SELN, RSMD1, CFTD
SEMA3A, SEMAD, COLL1, HH16
SEMA3E, SEMAH, KIAA0331
SEMA4A, SEMB, RP35, CORD10
SEPSECS, SLA, LP, PCH2D
SEPT9, MSF, MSF1, NAPB
SERAC1, MEGDEL
C1NH, HAE1, HAE2, SERPING1
SERPINI1, PI12
SETBP1, KIAA0437, SEB, MRD29
SETD2, SET2, HYPB, HBP231, KIAA1732, LLS
SETD5, KIAA1757
SETX, SCAN2, AOA2, ALS4
SFXN4, COXPD18
SGCA, ADL, DAG2, LGMDR3
SGCB, LGMDR4
SGCD, SGD, LGMDR6, CMD1L
SGCE, DYT11

SGCG, LGMDR5, DMDA1, SCG3
SGPL1, SPL, NPHS14
SGSH, MPS3A, SFMD
SH3BP2, CRPM
SH3KBP1, CIN85, IMD61, AGMX2
SH3TC2, KIAA1985, MNMN
SHANK3, PSAP2, PROSAP2, KIAA1650, DEL22q13.3, SCZD15
SHOC2, SIAA0862, SOC2, SUR8
SHPK, CARKL
SHROOM4, KIAA1202, SDSX
SIGMAR1, SRBP, ALS16, DSMA2
SIK1, SNF1LK, MSK, EIEE30
SIL1, BAP, MSS
SIN3A, WITKOS
SKI, SGS
SLC12A1, NKCC2
SLC12A3, NCCT, TSC
SLC12A5, KCC2, KIAA1176, EIEE34, EIG14
SLC12A6, KCC3A, KCC3B, KCC3, ACCPN
SLC13A5, NACT, EIEE25
SLC16A2, DXS128, XPCT
SLC17A5, SIASD, SLD
SLC18A2, VAT2, SVMT, PKDYS2
SLC18A3, VACHT, CMS21
SLC19A2, THTR1, TRMA, THMD1
SLC19A3, THMD2, BBGD
SLC1A2, EAAT2, EIEE41
SLC1A4, SATT, ASCT1, SPATCCM
SLC20A2, MLVAR, GLVR2, IBGC1
SLC25A1, SLC20A3, CTP, D2L2AD, CMS23
SLC25A11, SLC20A4, OGC, PGL6
SLC25A12, ARALAR, EIEE39
SLC25A13, CTLN2, NICCD
SLC25A15, ORNT1, HHH
SLC25A19, DNC, MUP1, MCPHA, THMD3, THMD4
SLC25A21, ODC
SLC25A22, GC1, EIEE3
SLC25A4, ANT1, T1, PEO3, PEO2, MTDPS12A, PEOA2
SLC25A42, MECREN
SLC25A46, HMSN6B
SLC29A3, ENT3, PHID, HCLAP
SLC2A1, GLUT1, HTLVR, DYT18, PED, GLUT1DS, EIG12, DYT9, SDCHCN
SLC30A10, ZNT10, HMNDYT1
SLC30A9, C4orf1, HUEL, BILAPES
SLC33A1, ACATN, AT1, SPG42, CCHLND

SLC34A3, NPTIIC, HHRH
SLC35A1, CST, CDG2F
SLC39A13, ZIP13, EDSSPD3
SLC39A14, ZIP14, KIAA0062, HMNDYT2, HCIN
SLC39A4, ZIP4
SLC39A8, BIGM103, CDG2N
SLC45A1, DNB5, IDDNPF
SLC46A1, HCP1, PCFT
SLC52A2, GPR172A, GPCR41, PAR1, FLJ11856, BVVLS2
SLC52A3, C20orf54, RFT2, BVVLS1
SLC5A7, CHT1, HMN7A, CMS20
SLC6A1, GABATR, MAE
SLC6A17, NTT4, MRT48
SLC6A19, HND
SLC6A3, DAT1, PKDYS1
SLC6A5, GLYT2, HKPX3
SLC6A8, CRTR, CCDS1
SLC6A9, GLYT1, GCENSG
SLC9A1, NHE1, APNH, LIKNS
SLC9A6, NHE6
SLC9A7, NHE7, MRX108
SLCO2A1, OATP2A1, PGT, SLC21A2, PHOAR2
SLITRK1, KIAA1910, TTM
SLX4, BTBD12, MUS312, KIAA1784, KIAA1987, FANCP
SMARCA1, HARP, SIOD
SMARCB1, SNF5, INI1, RDT, RTPS1, MRD15, SWNTS1, CSS3
SMARCC2, BAF170, CSS8
SMARCE1, BAF57, CSS5
SMC1A, SMC1L1, SMC1, DXS423E, KIAA0178, CDLS2
SMC3, CSPG6, HCAP, BAM, CDLS3
SMCHD1, KIAA0650, BAMS
C19orf61, SMG9, HBMS
SMN1, SMA1, SMA2, SMA3, SMA4
SMPD1, NPD
SMS, SRS, MRSR
SNAP25, CMS18
SNAP29, CEDNIK
SNCA, NACP, PARK1, PARK4
SNIP1, PMRED
SNORD118, LCC
SNRPN
SNX10, OPTB8
SNX14, SCAR20
SOD1, ALS1, STAHP
SOX10, WS4, WS4C, PCWH

SOX5, LAMSHF
SP110, IFI41, IFI75, VODI
SPG20
SPAST, SPG4
SPATA5, SPAF, EHLMRS
SPEG, APEG1, CNM5
SPG11, KIAA1840, FLJ21439, ALS5, CMT2X
ACP33, MAST, SPG21
PGN, SPG7, CMAR, CAR
SPR
SPRED1, NFLS, LGSS
SPRY4, HH17
SPTAN1, NEAS, EIEE5
SPTBN2, SCA5, SCAR14
SPTBN4, QV, NEDHND, CMND
SPTLC2, KIAA0526, SPT2, LCB2, HSN1C, NSAN1C
SQSTM1, P62, PDB3, FTDALS3, NADGP, DMRV
SRP54
SRPX2, SRPUL, RESDX
ST3GAL3, SIAT6, ST3GALII, MRT12, EIEE15
SIAT9, ST3GALV, SPDRS
STAC3, NAM, MYPBB
STAG2, SA2, NEDXCF
STAMPB, AMSH, MICCAP
STARD7, GTT1
STAT3, APRF, HIES, ADMIO1
STIL, SIL, MCPH7
STIM1, TAM1, IMD10, STRMK
STN1, OBFC1, AAF44
STRADA, STRAD, LYK5
STS, ARSC1, ARSC, SSDD, XLI
STUB1, CHIP, SCAR16, SCA48
STX16, SYN16
STX1B, GEFSP9
STXBP1, UNC18, EIEE4
SUCLA2, MTDPS5
SUCLG1, SUCLA1, MTDPS9
SUFU, SUFUXL, SUFUH, JBTS32
SUMF1, FGE
SUOX
SURF1, CMT4K
SYNE1, KIAA0796, KIAA1756, KIAA1262, SCAR8, EDMD4, AMCM
SYNE2, NUANCE, KIAA1011, EDMD5
SYNGAP1, MRD5
SYNJ1, PARK20, EIEE53

SYP, MRXSYP
SYT1, BAGOS
SYT14, SCAR11
SYT2, CMS7, MYSPC
SZT2, KIAA0467, EIEE18
TACO1, CCDC44
TAF1, TAF2A, CCG1, BA2R, DYT3, MRXS33
TAF13, TAF2K, MRT60
TAF2, TAF2B, TAFII150, CIF150, MRT40
TAF6, TAF2E, TAFII80, ALYUS
TANGO2, C22orf25, MECRCN
TARDBP, TDP43, ALS10
TARS1, TARS, TTD7
TAT
TAZ, EFE2, BTHS, CMD3A, LVNCX
TBC1D20, C20orf140, WARBM4
TBC1D23, PCH11
TBC1D24, KIAA1171, FIME, EIEE16, DOORS, DFNB86, DFNA65, EPRPDC
TBCD, PEBAT
TBCE, KCS, KCS1, HRD, PEAMO
TBCK, IHPRF3
TBK1, NAK, FTDALS4, IIAE8
TBP, SCA17, HDL4
TBR1, IDDAS
TBX1, DGS, CTHM, CAFS, TGA, DORV, VCFS, DGCR
TBX4, ICPPS
TCAP, LGMDR7, CMH25
TCF20, SPBP, AR1, DDVIBA
TCF4, SEF2, ITF2, PTHS, FECD3
TCIRG1, TIRC7, OC116, OPTB1
TCOF1, MFD1, TCS1
TECT1, JBTS13
TCTN2, TECT2, MKS8, JBTS24
TCTN3, TECT3, C10orf61, OFD4, JBTS18
TDP1, SCAN1
TECPR2, KIAA0329, SPG49
TECR, GPSN2, TER, SC2, MRT14
TELO2, TEL2, CLK2, KIAA0683, HCLK2, YHFS
TENM4, ODZ4, TNM4, DOC4, KIAA1302, ETM5
TERT, TCS1, EST2, DKCA2, DKCB4, PFBMFT1, CMM9
TET3, KIAA0401
TFG, HMSNP, SPG57
TGFB1, DPD1, CED, IBDIMDE
TGFB2, LDS4
TGFB3, ARVD1, RNHF, LDS5

TGFBR2, HNPCC6, AAT3, MFS2, LDS2
TGM1, ICR2, ARCI1
TGM6, TG6, TGY, SCA35
TH, TYH
THAP1, DYT6
THOC2, THO2, MRX12, MRX35
THPO, MGDF, MPLLG, TPO, THCYT1
THRA, ERBA1, THRA1, CHNG6
THRB, ERBA2, THR1, PRTH
TIA1, WDM
TIMM50, TIM50, MGCA9
TIMM8A, DFN1, DDP, MTS, DDP1
TIMMDC1, C3orf1, MC1DN31
TINF2, TIN2, DKCA3
TK2, MTDPS2, PEOB3
DAK
TKT, SDDHD
TLK2, MRD57
TMCO1, CFMR
TMEM106B, HLD16
TMEM107, MKS13, JBTS29
TMEM126B, MC1DN29
TMEM216, JBTS2, CORS2, MKS2
TMEM231, JBTS20, MKS11
TMEM237, ALS2CR4, JBTS14
TMEM240, C1orf70, SCA21
TMEM43, ARVD5, ARVC5, EDM7
TMEM67, MKS3, JBTS6, NPHP11
TMEM70, MC5DN2
TMPRSS6, IRIDA
TNFSF11, OPGL, TRANCE, OPTB2
TNIK, KIAA0551, MRT54
TNNT1, ANM, NEM5
TNPO3, TRNSR, LGMDD2
TNXB, TNX, TNXB1, TNXBS, TNXB2, EDSCLL1, VUR8
TOE1, PCH7
TONSL, NFKBIL2, IKBR, SEMDSP
TOP3A, MGRISCE2, PEOB5
DYT1, TOR1A
TOR1AIP1, LAP1, LAP1B, LGMD2Y
TP53, P53, LFS1, BCC7, BMFS5
TPI1, TPID
TPK1, THMD5
TPM2, TMSB, AMCD1, DA1, DA2B4, NEM4
TPM3, NEM1, CFTD, CAPM1

TPP1, CLN2, SCAR7
TRAF7, RFWD1, CAFDADD
TRAK1, OIP106, KIAA1042, EIEE68
TRAPPC11, C4orf41, LGMDR18
TRAPPC12, TTC15, PEBAS
TRAPPC2L, PERRB
TRAPPC6B, TPC6, NEDMEBA
TRAPPC9, NIBP, KIAA1882, MRT13
TREM2, PLOSL2
TREX1, AGS1, CRV, HERNS
TRIM2, KIAA0517, CMT2R
TRIM32, HT2A, LGMDR8, BBS11
TRIM37, MUL, KIAA0898
TRIM8, RNF27, GERP
TRIO, MRD44
TRIP12, MRD49
TRIP13, 16E1BP, MVA3
TRIP4, ASC1, SMABF1, MDCDC
TRIT1, IPT, COXPD35
TRMT10A, RG9MTD2, MSSGM1
TRMT5, TRM5, KIAA1393, COXPD26
TRMU, MTO2
TRPC3, TRP3, SCA41
TRPV4, VROAC, HMSN2C, CMT2C, SPSMA, SSQTL1, SMAL, BCYM3
TSC1, LAM
TSC2, LAM
TSEN15, SEN15, C1orf19, PCH2F
TSEN2, SEN2, PCH2B
TSEN34, PCH2C, LENG5, SEN34
TSEN54, SEN54, PCH2A, PCH4, PCH5
TSFM, COXPD3
TSHR, CHNG1
TSPAN7, TM4SF2, MXS1, A15, MRX58
TSPYL1, TSPYL, SIDDT
TTBK2, SCA11
TTC19, MC3DN2
TTC8, BBS8, RP51
TTI2, C8orf41, MRT39
TTN, CMD1G, TMD, LGMDR10, MPRM, HMERF, SALMY
TTPA, TTP1, AVED
TTR, PALB
TUBA8, TUBAL2, CDCBM8
TUBB2B, CDCBM7
TUBB3, TUBB4, CFEOM3A, CDCBM1
TUBB4A, DYT4, HLD6

TUBGCP2, GCP2, GRIP103, SPC97, ALP4
TUFM, EFTU, COXPD4
TULP1, RP14, LCA15
TUSC3, M33, D8S1992, MRT7, MRT22
TWIST1, ACS3, SCS, CRS1, SWCOS
TWNK, C10orf2, TWINKLE, PEOA3, IOSCA, MTDPS7, PRLTS5
TXN2, TRX2, MTRX, COXPD29
TYMP, ECGF1, MNGIE, PDECGF, MEDPS1, MTDPS1
TYROBP, DAP12, PLOSL1
UBA1, UBE1, GXP1, A1ST, SMAX2, AMCX1
UBA5, UBE1DC1, EIEE44, SCAR24
UBAP1, UBAP, SPG80
UBE2T, HSPC150, FANCT
UBE3A, ANCR
UBQLN2, PLIC2, CHAP1, ALS15
UBTF, UBF, CONDBA
UCHL1, PARK5, SPG79, NDGOA
UFC1, NEDSG
UFM1, HLD14
UFSP2, C4orf20, BHD, SEMDDR
UGDH, UDPGDH
UGP2, UGPP2
UGT1A1, UGT1, GNT1, BILIQTL1
UNC80, C2orf21, KIAA1843
UPB1, BUP1
UPF3B, RENT3B, MRXS14
UQCC2, C6orf126, M19, MC3DN7
UQCRQ, QPC, MC3DN4
UROC1, UROCD
USH2A, RP39
USP27X, USP22L, MRX105
USP7, HAUSP
USP9X, DFFRX, MRX99, MRXS99F
VAC14, TAX1BP2, TRX, SNDC
VAMP1, SYB1, SPAX1, CMS25
VAMP2, SYB2
VANGL1, STBM2
VAPB, VAPC, ALS8
VARS1, VARS, G7A, VARS2, NDMSCA
VCP, IBMPFD1, ALS14, CMT2Y
VDR
VHL
VLDLR, CAMRQ1
VPS11, HLD12
VPS13A, CHAC

VPS13C, KIAA1421, PARK23
VPS13D, SCAR4
VPS33A, MPSPS
VPS35, MEM3, PARK17
VPS37A, HCRP1, SPG53
VRK1, PCH1A
VWA3B, SCAR22
WAC, KIAA1844, DESSH
WARS1, WARS, HMN9
WARS2, NEMMLAS
WAS, IMD2, THC1, SCN1
WASF1, WAVE, WAVE1, SCAR1
WASHC4, KIAA1033, SWIP, MRT43
WSHC5, KIAA0196, SPG8, RTSC1
WDR11, DR11, KIAA1351, BRWD2, HH14
WDR26, SKDEAS
WDR4, MIGSB, GAMOS6
WDR45, WIPI4, NBIA5
WDR45B, WIPI3, WDR45L, NEDSBAS
WDR62, C19orf14, MCPH2
WDR73, HSPC264, GAMOS1
WDR81, CAMRQ2, HYC3
WFS1, WFRS, WFS, DFNA6, DFNA14, DFNA38, WFSL, CTRCT41
WIPF1, WASPIP, WIP, WAS2
WIPI2, IDDSSA
WNK1, PRKWINK1, KDP, PHA2C, HSN2, HSN2
WFOX, FOR, SCAR12, EIEE28
XK, MCLDS
XPA, XPAC
XPC, XPCC
XPNPEP3, APP3, NPHPL1
XPR1, SYG1, IBGC6
XRCC1, SCAR26
XRCC2, FANCU
XRCC4, SSMED
YARS1, YARS, CMTDIC, TYRRS, YTS, YRS
YME1L1, YME1L, PAMP, OPA11
YWHAG, EIEE56
YY1, GADEV5
ZBTB20, ZNF288, DPZF, PRIM5
ZC3H14, SUT2, MRT56
ZC4H2, KIAA1166, WRWF, MRXS4
ZDHH9, DHH9, MRXSZ
ZFH2, ZFH5, ZNF409, KIAA1056, KIAA1762, MARSIS
ZFYVE26, KIAA0321, SPG15

ZFYVE27, SPG33
ZMPSTE24, FACE1, STE24, MADB
ZNF142, NEDISHM
ZNF335, NIF1, NIF2, MCPH10
ZNF408, EVR6, RP72
ZNF711, ZNF6, CMPX1, MRX97
ZNHIT3, TRIP3, PEHO
ZSWIM6, KIAA1577, AFND, NEDMAGA
IVNS1ABP, NS1BP, ND1
KATNIP, KIAA0556

Gene name	Entrez gene ID
Aladin	8086
Alanyl-tRNA synthetase 1	16
Alanyl-tRNA synthetase 2	57505
Alpha-aminoadipic semialdehyde synthase	10157
4-aminobutyrate aminotransferase	18
ATP-binding cassette 1	19
ATP-binding cassette 2	20
ATP-binding cassette, subfamily A, member 7	10347
ATP-binding cassette, subfamily B, member 6	10058
ATP-binding cassette-7	22
ATP-binding cassette, subfamily C, member 6	368
ATP-binding cassette, subfamily D, member 1	215
ATP-binding cassette, subfamily D, member 4 (peroxisomal membrane)	5826
ATP-binding cassette, subfamily G, member 5	64240
ATP-binding cassette, subfamily G, member 8	64241
Abhydrolase domain-containing protein 12	26090
Abhydrolase domain containing 5	51099
Acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain	34
Aggrecan (chondroitin sulfate proteoglycan-1, large aggregating proteoglycan)	176
Acetyl-Coenzyme A acetyltransferase-1 (acetoacetyl Coenzyme A thioesterase)	38
ACD shelterin complex subunit and telomerase recruitment factor	65057
Alkaline ceramidase 3	55331
Aconitase, mitochondrial	50
Acyl-Coenzyme A oxidase 1, palmitoyl	51
Acyl-CoA synthetase family member 3	197322
Acyl-CoA synthetase long-chain family member 4	2182
Actin, alpha-1, skeletal muscle	58
Actin, beta	60
Actin-like 6B	51412
Aminoacylase-1	95
Adenosine deaminase 2	51816
ADAM metallopeptidase domain with thrombospondin type 1 motif, 13	11093
Adenosine deaminase, RNA-specific	103
Adenosine deaminase, tRNA-specific, 3	113179
Adenylate cyclase-5	111
Adenylate cyclase-6	112
Adducin-3, gamma	120
Adhesion G protein-coupled receptor G1	9289
Activity-dependent neuroprotector homeobox	23394
ADP-ribosylserine hydrolase	54936
Adrenergic, alpha-2B-, receptor	151
Adenylosuccinate lyase	158
Adenylosuccinate synthase-like 1	122622

AE-binding protein 1	165
AF4/FMR2 family, member 2 (fragile site, X-linked, E)	2334
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Aspartylglucosaminidase	175
1-acylglycerol-3-phosphate O-acyltransferase 2 (lysophosphatidic aci	10555
Agrin	375790
ATP/GTP-binding protein 1	23287
Alanine-glyoxylate aminotransferase, liver-specific peroxisomal	189
S-adenosylhomocysteine hydrolase	191
Abelson helper integration site 1	54806
Apoptosis-inducing factor, mitochondrion-associated, 1	9131
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Aminoacyl tRNA synthetase complex-interacting multifunctional protei	7965
Aldehyde dehydrogenase 18 family, member A1 (1-pyrroline-5-carbox	5832
Aldehyde dehydrogenase 3 family, member A2 (fatty aldehyde dehyd	224
Succinic semialdehyde dehydrogenase	7915
Aldehyde dehydrogenase 6 family, member A1 (methylmalonate semi	4329
Aldehyde dehydrogenase 7 family, member A1 (antiquitin 1)	501
Alg1, yeast, homolog of (beta-1,4 mannosyltransferase)	56052
Alg11, S. cerevisiae, homolog of	440138
Alg13, S. cerevisiae, homolog of	79868
Alg14, S. cerevisiae, homolog of	199857
Alg2, S. cerevisiae, homolog of	85365
Alg3, S. cerevisiae, homolog of	10195
ALG6 alpha-1,3-glucosyltransferase	29929
Alg9, yeast, homolog of	79796
AlkB, E. coli, homolog of, 8	91801
Alkaline phosphatase, liver/bone/kidney	249
Alsin	57679
Alpha-methylacyl-CoA racemase	23600
Adenosine monophosphate deaminase-2, isoform L	271
Aminomethyltransferase (glycine cleavage system protein T)	275
Angiogenin	283
Ankyrin-3, node of Ranvier	288
Ankyrin repeat- and LEM domain-containing protein 2	23141
Anoctamin 10	55129
Anoctamin 3	63982
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Kallmann syndrome-1 sequence (anosmin-1)	3730
Annexin A11 (annexin XI)	311
Adaptor-related protein complex 1, beta 1 subunit (adaptin, beta)	162
Adaptor-related protein complex 1, sigma 1 subunit	1174
Adaptor-related protein complex 1, sigma-2 subunit	8905
Adaptor-related protein complex 2, mu 1 subunit	1173
Adaptor-related protein complex 3, beta 2 subunit	8120

Adaptor-related protein complex 3, delta-1 subunit	8943
Adaptor-related protein complex 4, beta-1 subunit	10717
Adaptor-related protein complex 4, epsilon-1 subunit	23431
Adaptor-related protein complex 4, mu-1 subunit	9179
Adaptor-related protein complex 4, sigma-1 subunit	11154
Adaptor-related protein complex 5, zeta-1 subunit	9907
APC2 gene	10297
Apolipoprotein B (including Ag(x) antigen)	338
Amyloid beta (A4) precursor protein	351
Aprataxin	54840
Archain 1	372
ADP-ribosylation factor-1	375
Arginase, liver	383
RHO guanine nucleotide exchange factor 2	9181
AT-rich interaction domain-containing protein 2	196528
ADP-ribosylation factor-like 13B	200894
ADP-ribosylation factor-like 3	403
ADP-ribosylation factor-like 6	84100
ADP-ribosylation factor-like 6 interacting protein 1	23204
Armadillo repeat-containing protein 9	80210
Arylsulfatase A	410
Arylsulfatase B	411
ARV1 homolog, fatty acid homeostasis modulator	64801
Aristaless-related homeobox, X-linked	170302
N-acylsphingosine amidohydrolase (acid ceramidase) 1	427
Activating signal cointegrator 1 complex, subunit 1	51008
ASH1-like histone lysine methyltransferase	55870
Asparagine synthetase	440
Aspartoacylase (aminoacylase-2)	443
Abnormal spindle-like, microcephaly-associated	259266
Additional sex combs-like 3	80816
ATPase family, AAA domain-containing, member 1	84896
ATPase family, AAA domain-containing, member 3A	55210
Caytaxin	85300
Atlastin GTPase 1	51062
Atlastin 3	25923
Ataxia-telangiectasia mutated (includes complementation groups A, C)	472
Atrophin 1	1822
ATPase, type 13A2	23400
ATPase, Na ⁺ K ⁺ transporting, alpha-1 polypeptide	476
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ATP synthase F1 subunit delta	513
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ATPase, H ⁺ transporting, lysosomal, accessory protein 2	10159
ATPase, H ⁺ transporting, V1 subunit A	523
ATPase, Cu ⁺⁺ transporting, alpha polypeptide	538
ATPase, Cu ⁺⁺ transporting, beta polypeptide	540
ATPase, class I, type 8A, member 2	51761
Ataxia-telangiectasia and Rad3-related (FRAP-related protein-1)	545
ATR-X gene (helicase 2; X-linked nuclear protein)	546
Ataxin-1	6310
Ataxin 10	25814
AU-specific RNA-binding protein (3-methylglutaconyl-CoA hydratase)	549
KIAA0442 gene	26053
Beta-2-microglobulin	567
Beta-1,3-N-acetylgalactosaminyltransferase 2	148789
Beta-1,4-N-acetylgalactosaminyltransferase 1	2583
Beta-1,4glucuronyltransferase 1	11041
B9 domain-containing protein 1	27077
BCL2-associated athanogene 3	9531
BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)	8314
BBS1 gene	582
Bardet-Biedl syndrome 2	583
BAF chromatin remodeling complex subunit BCL11B	64919
BCL6 corepressor-like 1	63035
BCS1 homolog, ubiquinol-cytochrome c reductase complex chaperon	617
Brain-expressed, associated with NEDD4	146227
Bicaudal D, Drosophila, homolog of, 2	23299
Box-dependent MYC-interacting protein-1 (amphiphysin-like)	274
Bone morphogenetic protein-4	652
bolA family member 3	388962
Murine sarcoma viral (v-raf) oncogene homolog B1	673
BRCA1-associated ATM activator 1	221927
BRCA1-associated C-terminal helicase 1	83990
Seipin	26580
Barttin	7809
Blood vessel epicardial substance	11149
chromosome 12 open reading frame 4	57102
mitochondrial translation release factor in rescue	91574
chromosome 19 open reading frame 12	83636
Complement component-4A	720
cilia and flagella associated protein 418	157657
C9orf72-SMCR8 complex subunit	203228
Carbonic anhydrase II	760
Carbonic anhydrase VIII	767
Calcium channel, voltage-dependent, P/Q type, alpha 1A subunit	773
Calcium channel, voltage-dependent, L type, alpha 1B subunit	774
Calcium channel, voltage-dependent, L type, alpha 1D subunit	776

Calcium channel, voltage-dependent, alpha 1E subunit	777
Calcium channel, voltage-dependent, T type, alpha-1G subunit	8913
Calcium channel, voltage-dependent, T type, alpha-1H subunit	8912
Calcium channel, voltage-dependent, L type, alpha 1S subunit	779
Calcium channel, voltage-dependent, alpha-2/delta subunit 2	9254
Calcium channel, voltage-dependent, beta 4 subunit	785
CAD trifunctional protein of pyrimidine biosynthesis	790
Calcium/calmodulin-dependent protein kinase II-alpha	815
Calcium/calmodulin-dependent protein kinase II-beta	816
Calmodulin-binding transcription activator 1	23261
Calcium-activated nucleotidase 1	124583
Calpain, large polypeptide L1	823
Calpain, large polypeptide L3	825
Cysteinyl-tRNA synthetase 2	79587
Calcium/calmodulin-dependent serine protein kinase	8573
Calcium-sensing receptor	846
Caveolin-1	857
Caveolin-3	859
Caveolae-associated protein 1	284119
Gastric intrinsic factor	2694
Coiled-coil and C2 domain-containing 1A	54862
Coiled-coil and C2 domains-containing protein 2A	57545
Collagen and calcium-binding EGF domain-containing protein 1	147372
Coiled-coil domain-containing protein 88A	55704
Coiled-coil domain-containing protein 88C	440193
Wnt-1 inducible signaling pathway protein 3	8838
Cyclin F	899
chaperonin containing TCP1, subunit 5 (epsilon)	22948
CD59 antigen (p18-20)	966
Cadherin-23 (otocadherin)	64072
Cyclin-dependent kinase 10	8558
Cyclin-dependent kinase 5	1020
CDK5 regulatory subunit-associated protein 2	55755
Cyclin-dependent kinase 6	1021
Cyclin-dependent kinase 8	1024
Cyclin-dependent kinase-like 5 (serine/threonine protein kinase 9)	6792
Centromeric protein J	55835
Centrosomal protein, 104kD	9731
Centrosomal protein, 120kD	153241
Centrosomal protein, 135kD	9662
Centrosomal protein, 152kD	22995
Centrosomal protein, 41kD	95681
Centrosomal protein 57kD	9702
Centrosomal protein, 63kD	80254
Ceramide synthase 1	10715

COL4A3-binding protein (ceramide transporter)	10087
Cilia and flagella-associated protein 410	755
Cilia- and flagella-associated protein 43	80217
Cofilin 2, muscle	1073
Chromosome alignment-maintaining phosphoprotein 1	283489
Choline acetyltransferase	1103
Coiled-coil-helix-coiled-coil-helix domain-containing protein 10	400916
Coiled-coil-helix-coiled-coil-helix domain-containing protein 2	51142
Chromodomain helicase DNA binding protein-1	1105
Chromodomain helicase DNA binding protein-2	1106
Chromodomain helicase DNA binding protein-3	1107
Chromodomain helicase DNA-binding protein-4	1108
Chromodomain helicase DNA binding protein 7	55636
Choline kinase, beta	1120
CHMP family, member 1A	5119
CHMP family, member 2B	25978
Chimerin 1 (GTPase-activating protein, rho, 2)	1123
Calcineurin like EF-hand protein 1	11261
Cholinergic receptor, nicotinic, alpha polypeptide-1, muscle	1134
Cholinergic receptor, nicotinic, alpha polypeptide-2	1135
Cholinergic receptor, nicotinic, beta polypeptide-1, muscle	1140
Cholinergic receptor, nicotinic, delta polypeptide	1144
Cholinergic receptor, nicotinic, epsilon polypeptide	1145
Cholinergic receptor, nicotinic, gamma polypeptide	1146
Carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 14	113189
Carbohydrate sulfotransferase 3	9469
Capicua transcriptional repressor	23152
Class II major histocompatibility complex transactivator	4261
Intestinal cell kinase	22858
CDGSH iron sulfur domain protein 2	493856
Citron rho-interacting serine/threonine kinase	11113
Cytoskeleton-associated protein 2-like	150468
Cardiotrophin-like cytokine	23529
Chloride channel-2	1181
Chloride channel-4	1183
Chloride channel-7	1186
Chloride channel, kidney, B	1188
Chloride intracellular channel 2	1193
Battenin	1201
CLN5 gene	1203
CLN6 gene	54982
CLN8 gene	2055
Cleavage and polyadenylation factor I subunit 1, yeast, homolog of	10978
Caseinolytic peptidase B	81570
Clarin 1	7401

Clathrin, heavy polypeptide (Hc)	1213
connector enhancer of KSR 2	22866
Cyclin M2	54805
Canopy 3, zebrafish, homolog of	10695
Contactin 1	1272
Contactin 2 (transiently-expressed axonal glycoprotein)	6900
Contactin-associated protein 1	8506
Contactin-associated protein-like 2	26047
Cytochrome C oxidase assembly factor	65260
Apoptogenic protein 1, mitochondrial	84334
Coenzyme A synthase	80347
Component of oligomeric golgi complex 4	25839
Component of oligomeric golgi complex 5	10466
Component of oligomeric golgi complex 7	91949
Component of oligomeric golgi complex 8	84342
Collagen X, alpha-1 polypeptide	1300
Collagen, type XII, alpha-1	1303
Collagen XIII, alpha-1 polypeptide	1305
Collagen I, alpha-1 polypeptide	1277
Collagen II, alpha-1 polypeptide	1280
Collagen IV, alpha-1 polypeptide	1282
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Collagen VI, alpha-1 polypeptide	1291
Collagen VI, alpha-2 polypeptide	1292
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Collectin 11	78989
Collagenic tail of endplate acetylcholinesterase	8292
Cartilage oligomeric matrix protein	1311
Coatomer protein complex, subunit beta-2	9276
Coenzyme Q2, polyprenyltransferase	27235
COQ7, <i>S. cerevisiae</i> , homolog of	10229
AARF domain-containing kinase 3	56997
Coq9, <i>S. cerevisiae</i> , homolog of	57017
Coronin 1A	11151
Cytochrome c oxidase, subunit X	1352
Cytochrome c oxidase, subunit 15	1355
Cytochrome c oxidase, subunit VIa, polypeptide-1	1337
Ceruloplasmin	1356
Ciliogenesis and planar polarity effector 1	65250
Complexin 1	10815
Coproporphyrinogen oxidase	1371
Carnitine palmitoyltransferase I, liver	1374

Carnitine palmitoyltransferase IC	126129
Caspase and RIP adaptor with death domain	8738
Carnitine acetyltransferase	1384
Crumbs cell polarity complex component 1	23418
Cereblon	51185
CREB binding protein	1387
Isoprenoid synthase domain-containing protein	729920
Crystallin, alpha B	1410
Colony-stimulating factor-1 receptor; oncogene FMS (McDonough fel	1436
Casein kinase-2, alpha-1 polypeptide	1457
Centrosome spindle pole-associated protein 1	79848
Cystatin B (stefin B)	1476
C-terminal binding protein 1	1487
Conserved telomere maintenance component 1	80169
C-terminal domain of RNA polymerase II subunit A, phosphatase of,	s9150
Cystathionine gamma-lyase	1491
Cytotoxic T-lymphocyte-associated serine esterase-4	1493
Catenin, alpha-2 (cadherin-associated protein, related)	1496
Catenin (cadherin-associated protein), beta 1, 88kD	1499
Cathepsin D (lysosomal aspartyl protease)	1509
Cathepsin F	8722
Cullin-4B	8450
Cut-like homeobox 2	23316
CWF19-like protein 1	55280
Chemokine (C-X-C motif) receptor 4 (neuropeptide Y receptor Y3)	7852
STING1 ER exit protein 1	63932
Cytochrome b5	1528
Cytochrome b5 reductase 3	1727
Cytoplasmic FMRP interacting protein 2	26999
Cytochrome P450, subfamily I, dioxin-inducible, polypeptide 1	1545
Cytochrome P450, subfamily XXVIIA, polypeptide 1 (sterol 27-hydroxy	1593
Cytochrome P450, subfamily XXVIIB, polypeptide 1	1594
Cytochrome P450, subfamily IIR, polypeptide 1 (vitamin D 25-hydroxy	120227
Cytochrome P450, family 2, subfamily U, polypeptide 1	113612
Cytochrome P450, subfamily VIIB (oxysterol 7-alpha-hydroxylase), pc	9420
D-2-hydroxyglutarate dehydrogenase	728294
DAB adaptor protein 1	1600
Dystrophin-associated glycoprotein-1	1605
Aspartyl tRNA synthetase 1	1615
Aspartyl-tRNA synthetase 2	55157
Dopamine-beta-hydroxylase	1621
DDB1- and CUL4-associated factor 17	80067
DDB1- and CUL4-associated factor 8	50717
Deleted in colorectal carcinoma	1630
Decapping enzyme, scavenger	28960

Dynactin 1 (p150, glued, Drosophila, homolog of)	1639
Damage-specific DNA binding protein 2, 48kD	1643
DOPA decarboxylase (aromatic L-amino acid decarboxylase)	1644
DDHD domain-containing protein 1	80821
DDHD domain-containing protein 2	23259
Dolichyl-diphosphooligosaccharide-protein glycosyltransferase	1650
DDRGK domain-containing protein 1	65992
DEAD/H box-3, X-linked	1654
Deaf1, Drosophila, homolog of	10522
Delta(4)-desaturase, sphingolipid, 1	8560
DENN domain-containing protein 5A	23258
Desmin	1674
Deoxyguanosine kinase, mitochondrial	1716
Delta-7-dehydrocholesterol reductase	1717
Dehydrodolichyl diphosphate synthase	79947
Dihydrofolate reductase	1719
Desert hedgehog signaling molecule	50846
Deoxyhypusine synthase	1725
Dehydrogenase E1 and transketolase domains-containing protein 1	55526
DEAH box polypeptide 30	22907
DEAH box polypeptide 37	57647
Dyskerin	1736
Dihydrolipoamide S-acetyltransferase	1737
Dihydrolipoamide dehydrogenase (E3 component of pyruvate dehydrogenase complex)	1738
Discs large MAGUK scaffold protein 3	1741
Dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate dehydrogenase complex)	1743
Dystrophin	1756
Dystrophia myotonica-protein kinase	1760
DMX-like 2	23312
DNA replication helicase/nuclease 2	1763
DnaJ, E. coli, homolog of, subfamily B, member 2 (heat-shock protein 3300)	3300
DNAJ/HSP40 homolog, subfamily B, member 6	10049
DNAJ/HSP40 homolog, subfamily C, member 12	56521
DnaJ (Hsp40) homolog, subfamily C, member 19 (translocase of inner mitochondrial membrane)	131118
DNAJ/HSP40 homolog, subfamily C, member 21	134218
DnaJ, E. coli, homolog of, subfamily C, member 3 (protein kinase inhibitor)	5611
DNAJ/HSP40 homolog, subfamily C, member 5	80331
DNAJ heat shock protein family (Hsp40) member C6	9829
Dynein, axonemal, light chain 4	10126
Deoxyribonuclease I-like 3	1776
Dynamin-1	1759
Dynamin 1-like	10059
Dynamin-2	1785
DNA methyltransferase 1	1786
DNA methyltransferase 3A	1788

Dedicator of cytokinesis 3	1795
Dedicator of cytokinesis 7	85440
Downstream of tyrosine kinase 7	285489
Dolichyl-phosphate N-acetylglucosamine phosphotransferase	1798
D4, zinc, and double PHD fingers family, member 2	5977
Diphthamide biosynthesis protein 1	1801
Dolichyl-phosphate mannosyltransferase 1, catalytic subunit	8813
Dolichyl-phosphate mannosyltransferase 2, regulatory subunit	8818
Dolichyl-phosphate mannosyltransferase 3	54344
Dipeptidylpeptidase VI	1804
Dihydropyrimidine dehydrogenase	1806
Dihydropyrimidinase	1807
Dopamine receptor D4	1815
Dermatan sulfate epimerase	29940
Dystonin (bullous pemphigoid antigen 1)	667
Dual serine/threonine and tyrosine protein kinase	25778
Dual-specificity phosphatase-6	1848
Dymeclin	54808
Dynein, cytoplasmic-1, heavy chain-1	1778
Dynein, cytoplasmic-1, intermediate chain-2	1781
Dual specificity tyrosine-(Y)-phosphorylation regulated kinase-1A (l'mi	1859
Dysferlin	8291
Glutamyl-tRNA synthetase 2	124454
Early B-cell factor 3	253738
Emopamil-binding protein	10682
Enoyl-CoA hydratase, short-chain, 1, mitochondrial	1892
Extracellular matrix protein-1	1893
Enhancer of mRNA decapping 3, S. cerevisiae, homolog of	80153
Endothelin receptor type B	1910
Embryonic ectoderm development protein	8726
Eukaryotic translation elongation factor-1, alpha-2	1917
Eukaryotic translation elongation factor-2	1938
Elongation factor-like GTPase 1	79631
Epidermal growth factor (urogastrone)	1950
KROX-20, Drosophila, homolog of (early growth response-2)	1959
Euchromatic histone methyltransferase 1	79813
Eukaryotic translation initiation factor 2-alpha kinase 3	9451
Eukaryotic translation initiation factor 2B, subunit 1	1967
Eukaryotic translation initiation factor 2B, subunit 2	8892
Eukaryotic translation initiation factor 2B, subunit 3	8891
Eukaryotic translation initiation factor 2B, subunit 4	8890
Eukaryotic translation initiation factor 2B, subunit 5	8893
Eukaryotic translation initiation factor 2, subunit 3	1968
Elastin	2006
Elongation of very long chain fatty acids-like 1	64834

Elongation of very long chain fatty acids 4	6785
Elongation of very long chain fatty acids-like 5	60481
Inhibitor of kappa light polypeptide gene enhancer in B cells, kinase	8518
Elongator acetyltransferase complex, subunit 2	55250
Endoplasmic reticulum membrane protein complex, subunit 1	23065
Emerin	2010
Ectonucleotide pyrophosphatase/phosphodiesterase 1 (Ly-41 antigen)	5167
Ectonucleoside triphosphate diphosphohydrolase 1 (CD39 antigen)	953
E1A-binding protein, 300kD	2033
Endothelial PAS domain protein 1	2034
Epithelial cellular adhesion molecule	4072
Ectopic P-granules autophagy protein 5 homolog	57724
Laforin	7957
Glutamyl-prolyl-tRNA synthetase	2058
Transformation gene ERBB-3	2065
Avian erythroblastic leukemia viral (v-erb-b2) oncogene homolog 4	2066
Excision repair cross complementing rodent repair deficiency, compl	2067
Excision repair cross complementing rodent repair deficiency, compl	2068
Excision-repair cross-complementing rodent repair deficiency, compl	2071
Excision-repair, complementing defective, in Chinese hamster, numb	2072
Excision-repair, complementing defective, in Chinese hamster, numb	2073
Excision repair cross complementing rodent repair deficiency, comple	2074
Excision repair cross-complementing rodent repair deficiency, compl	1161
Endoplasmic reticulum lipid raft-associated protein 1	10613
Endoplasmic reticulum lipid raft-associated protein 2	11160
Endoplasmic reticulum membrane-associated RNA degradation prote	55780
ETHE1 gene	23474
Exosome component 3	51010
Exosome component 9	5393
Exostosin 1	2131
Exostosin glycosyltransferase 2	2132
Exostosin-like 3	2137
Eyes absent, Drosophila, homolog of, 1	2138
Fatty acid 2-hydroxylase	79152
Fumarylacetoacetase	2184
Hyccin	84668
Family with sequence similarity 149, member B1	317662
FANCD2/FANCI-associated nuclease 1	22909
Fanconi anemia, complementation group A	2175
Fanconi anemia, complementation group B gene	2187
Fanconi anemia, complementation group C	2176
Fanconi anemia, complementation group D2	2177
Fanconi anemia, complementation group E gene	2178
Fanconi anemia, complementation group F	2188
X-ray repair, complementing defective, in Chinese hamster, 9	2189

FANCI gene	55215
PHD finger protein 9	55120
FANCM gene	57697
Fatty acyl CoA reductase 1	84188
Phenylalanyl-tRNA synthetase 2, mitochondrial	10667
Fas cell surface death receptor	355
FAT atypical cadherin 2	2196
Fibulin 1	2192
Fibulin 5	10516
Fibrillin-1	2200
F-box and leucine-rich repeat protein 4	26235
F-box only protein 11	80204
F-box only protein 31	79791
F-box only protein 38	81545
F-box only protein 7	25793
Fucose kinase	197258
Ferredoxin 2	112812
FEZ family zinc finger protein 1	389549
FYVE, RhoGEF, and PH domain-containing protein 1	2245
FYVE, RhoGEF, and PH domain-containing protein 4	121512
Fibroblast growth factor-12	2257
Fibroblast growth factor-14	2259
Fibroblast growth factor 17	8822
Fibroblast growth factor-8	2253
Fibroblast growth factor receptor-1 (fms-related tyrosine kinase-2)	2260
Fibroblast growth factor receptor-2 (bacteria-expressed kinase)	2263
Fibroblast growth factor receptor-3	2261
Fumarate hydratase	2271
Four-and-a-half LIM domains 1	2273
FIG4 phosphoinositide 5-phosphatase	9896
FK506-binding protein 10	60681
Fukutin-related protein	79147
Fukutin	2218
Friend leukemia virus integration 1	2313
Filamin A, alpha (actin-binding protein-280)	2316
Filamin C (actin-binding protein-280)	2318
Fibronectin-like domain-containing leucine-rich transmembrane protei	23767
Feline leukemia virus subgroup C receptor 1	28982
Feline leukemia virus subgroup C receptor 2	55640
Formin 2	56776
Fibronectin-1	2335
Folate receptor-1, adult	2348
Forkhead box G1B	2290
Forkhead box P1	27086
FAD-dependent oxidoreductase domain-containing protein 1	55572

FERM and PDZ domains-containing protein 4	9758
Ferric-chelate reductase 1-like	23732
Ferritin, light chain	2512
FTSJ RNA 2-prime-O-methyltransferase 1	24140
Fucosidase, alpha-L- 1, tissue	2517
Fusion, derived from 12-16 translocation, malignant liposarcoma	2521
Fragile X mental retardation, autosomal homolog	8087
Glucosidase, acid alpha-	2548
Gamma-aminobutyric acid B receptor 2	9568
Gamma-aminobutyric acid (GABA) A receptor, alpha-1	2554
Gamma-aminobutyric acid (GABA) A receptor, alpha-2	2555
Gamma-aminobutyric acid (GABA) A receptor, alpha-5	2558
Gamma-aminobutyric acid (GABA) A receptor, beta-2	2561
Gamma-aminobutyric acid (GABA) A receptor, beta-3	2562
Gamma-aminobutyric acid (GABA) A receptor, gamma-2	2566
Glutamate decarboxylase-1, brain, 67kD	2571
Galactosylceramidase	2581
Galactose-1-phosphate uridylyltransferase	2592
Guanidinoacetate methyltransferase	2593
Gigaxonin	8139
Glycyl-tRNA synthetase 1	2617
GATA zinc finger domain-containing protein 2B	57459
Glucosidase, acid beta	2629
Glucosidase, beta, acid 2	57704
Glycogen branching enzyme	2632
Glutaryl-Coenzyme A dehydrogenase	2639
GTP cyclohydrolase 1	2643
Glutamate-cysteine ligase, catalytic subunit	2729
Glycine cleavage system H protein	2653
Ganglioside-induced differentiation-associated protein 1	54332
Ganglioside-induced differentiation-associated protein 2	54834
Growth/differentiation factor 6	392255
GDP dissociation inhibitor 1	2664
Neurodevelopmental disorder with microcephaly, cataracts, and renal	50628
Glial fibrillary acidic protein	2670
Growth factor, erv1, S. cerevisiae, homolog of (augmenter of liver reg	2671
Mitochondrial elongation factor G1	85476
Mitochondrial elongation factor G2	84340
Glutamine-fructose-6-phosphate transaminase	2673
Gamma-glutamyltransferase 1	2678
Gap junction protein, alpha-1, 43kD (connexin 43)	2697
Gap junction protein, beta-1, 32kD (connexin 32)	2705
Gap junction protein, beta-2, 26kD (connexin 26)	2706
Gap junction protein, beta-6 (connexin-30)	10804
Gap junction protein, gamma-2 (47kD)	57165

Glycerol kinase	2710
Galactosidase, alpha	2717
Galactosidase, beta-1	2720
Glycine dehydrogenase (decarboxylating; glycine decarboxylase, glyc	2731
Gle1, RNA export mediator, <i>S. cerevisiae</i> , homolog of	2733
Glycine receptor, alpha-1 polypeptide	2741
Glycine receptor, beta subunit	2743
Glutaredoxin 5	51218
Glutamate dehydrogenase-1	2746
Glutamate-ammonia ligase (glutamine synthase)	2752
Glycerate kinase	132158
GM2 ganglioside activator protein	2760
GDP-mannose pyrophosphorylase A	29926
GDP-mannose pyrophosphorylase B	29925
Guanine nucleotide-binding protein, Gq class, GNA11	2767
Guanine nucleotide-binding protein, alpha-subunit, olfactory type	2774
Guanine nucleotide-binding protein (G protein), alpha-activating activi	2775
GNAS complex locus (guanine nucleotide binding protein (G protein),	2778
Guanine nucleotide-binding protein, beta polypeptide-1	2782
Guanine nucleotide-binding protein, beta-4	59345
Guanine nucleotide-binding protein, beta-5	10681
UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase	10020
N-acetylglucosamine-1-phosphate transferase, alpha/beta subunits	79158
N-acetylglucosamine-6-sulfatase	2799
Golgi snap receptor complex member 2	9570
Glutamic-oxaloacetic transaminase-2, mitochondrial (EC 2.6.1.1)	2806
Glycoprotein Ib, platelet, alpha polypeptide	2811
Glycoprotein Ib, platelet, beta polypeptide	2812
Glycophosphatidylinositol anchor attachment protein 1	8733
Gephyrin	10243
Glucose phosphate isomerase; neuroleukin	2821
G protein-coupled receptor 88	54112
Glutamate pyruvate transaminase 2	84706
Glutamate receptor, ionotropic, AMPA 3	2892
Glutamate receptor, ionotropic, AMPA 4	2893
Glutamate receptor, ionotropic, delta-2	2895
Glutamate receptor, ionotropic, kainate 2	2898
Glutamate receptor, ionotropic, N-methyl D-aspartate 1	2902
Glutamate receptor, ionotropic, N-methyl D-aspartate 2A	2903
Glutamate receptor, ionotropic, N-methyl D-aspartate 2B	2904
Glutamate receptor, ionotropic, N-methyl-D-aspartate 2D	2906
Glutamate receptor, metabotropic, 1	2911
Granulin	2896
Gelsolin	2934
Glutathione synthetase	2937

General transcription factor IIE, polypeptide 2, beta subunit, 34kD	2961
General transcription factor IIH, polypeptide 5	404672
GTP-binding protein 2	54676
GTP-binding protein 3	84705
Glucuronidase, beta-	2990
Glycogenin 1	2992
HECT domain- and ankyrin repeat-containing E3 ubiquitin protein liga	57531
L-3-hydroxyacyl-CoA dehydrogenase, short chain	3033
Hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A th	3030
Hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A th	3032
Histidine ammonia-lyase (histidase)	3034
Histidyl-tRNA synthetase 1	3035
Host cell factor C1 (VP16-accessory protein)	3054
Hyperpolarization-activated cyclic nucleotide-gated potassium channe	348980
Histone deacetylase 4	9759
Histone deacetylase 8	55869
Histidine decarboxylase	3067
HECT, C2, and WW domains-containing E3 ubiquitin-protein ligase 2	57520
HECT domain and RCC1-like domain 1	8925
HECT domain and RCC1-like domain 2	8924
Homeo box gene expressed in ES cells	8820
Hexosaminidase B, beta polypeptide	3074
Hemochromatosis gene	3077
Heparan-alpha-glucosaminide N-acetyltransferase	138050
3-hydroxyisobutyryl-CoA hydrolase	26275
Hikeshi	51501
Histidine triad nucleotide-binding protein 1 (protein kinase C inhibitor	3094
Human immunodeficiency virus type I enhancer-binding protein-2	3097
Hexokinase-1	3098
Hydroxymethylbilane synthase	3145
3-hydroxy-3-methylglutaryl-Coenzyme A lyase	3155
Hepatocyte nuclear factor 4, alpha (transcription factor-14)	3172
Histamine N-methyltransferase	3176
Heterogeneous nuclear ribonucleoprotein A1	3178
Heterogeneous nuclear ribonucleoprotein A2/B1	3181
Heterogeneous nuclear ribonucleoprotein D-like protein	9987
Heterogeneous nuclear ribonucleoprotein H2	3188
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Hippocalcin, 23kD, Ca2+-binding protein	3208
Hydroxyprostaglandin dehydrogenase 15-(NAD)	3248
Hypoxanthine phosphoribosyltransferase 1	3251
Harvey rat sarcoma viral (v-Ha-ras) oncogene homolog	3265
Heparan sulfate 6-O-sulfotransferase 1	9394
17-beta-hydroxysteroid dehydrogenase X	3028
Hydroxysteroid (17-beta) dehydrogenase 4	3295

3-beta-hydroxy-delta-5-C27-steroid oxidoreductase	80270
Heat-shock 27kD protein-1	3315
Heat-shock 27kD protein 3	8988
Heat-shock 22-kD protein 8	26353
Heat-shock 60kD protein 1	3329
Heparan sulfate proteoglycan of basement membrane (perlecan)	3339
HTRA serine peptidase 1	5654
HTRA serine peptidase 2	27429
HECT, UBA, and WWE domains-containing protein 1	10075
HYLS1 gene	219844
Isoleucyl-tRNA synthetase 2	55699
Iron-sulfur cluster assembly factor IBA57	200205
Isocitrate dehydrogenase, mitochondrial	3418
Iduronate 2-sulfatase (Hunter syndrome)	3423
Iduronidase, alpha-L-	3425
Immediate-early response 3-interacting protein 1	51124
Interferon induced with helicase C domain 1	64135
Intraflagellar transport 140	9742
Intraflagellar transport 172	26160
Insulin-like growth factor-1, or somatomedin C	3479
Insulin-like growth factor-2, or somatomedin A	3481
Immunoglobulin mu binding protein 2	3508
Inhibitor of kappa light polypeptide gene enhancer in B cells, kinase	8517
Interleukin 17, receptor D (Sef, zebrafish, homolog of)	54756
Il-1 receptor accessory protein-like 1	11141
Inverted formin 2	64423
Inositol polyphosphate-5-phosphatase, 72kD	56623
Inositol polyphosphate-5-phosphatase K	51763
Integrator complex subunit 1	26173
Inturned planar cell polarity protein	27152
IQ motif- and Sec7 domain-containing protein 1	9922
IQ motif- and Sec7 domain-containing protein 2	23096
Iron-responsive element-binding protein-2	3658
Interferon regulatory factor 2-binding protein like	64207
Iron-sulfur cluster assembly 1	81689
Iron-sulfur cluster assembly 2	122961
Integrin, alpha-2 (CD49B; alpha-2 subunit of VLA-2 receptor; platelet	3673
Integrin, alpha-2b (platelet glycoprotein IIb of IIb/IIIa complex, antig	3674
Integrin, alpha-7	3679
Integral membrane protein 2B (BRI gene)	9445
Inosine triphosphatase-A	3704
Inositol 1,4,5-triphosphate receptor, type 1	3708
Jagged 1	182
Junctional adhesion molecule 2	58494
Junctional adhesion molecule 3	83700

Junctophilin 1	56704
Junctophilin 3	57338
KN motif- and ankyrin repeat domain-containing protein 1	23189
KAT8 regulatory NSL complex subunit 1	284058
Lysyl-tRNA synthetase 1	3735
K(lysine) acetyltransferase 6A	7994
Katanin, p80 subunit, B1	10300
Kelch repeat and BTB/POZ domains-containing protein 13	390594
Potassium voltage-gated channel, shaker-related subfamily, member 3736	
Potassium channel, voltage-gated, Shaker-related subfamily, member 3737	
Potassium voltage-gated channel, shaker-related subfamily, member 3739	
Potassium voltage-gated channel, Shab-related subfamily, member 13745	
Potassium voltage-gated channel, Shaw-related subfamily, member 13746	
Potassium voltage-gated channel, Shaw-related subfamily, member 33748	
Potassium voltage-gated channel, Shal-related subfamily, member 33752	
Potassium inwardly-rectifying channel, subfamily J, member 1	3758
Potassium inwardly-rectifying channel, subfamily J, member 10	3766
Potassium inwardly-rectifying channel, subfamily J, member 6	3763
Potassium channel, subfamily K, member 4	50801
Potassium channel, subfamily K, member 9	51305
Potassium large conductance calcium-activated channel, subfamily M3778	
Potassium voltage-gated channel, KQT-like subfamily, member 2	3785
Potassium voltage-gated channel, KQT-like subfamily, member 3	3786
Potassium channel, voltage-gated, KQT-like subfamily, member 5	56479
Potassium channel, subfamily T, member 1	57582
Potassium channel tetramerization domain-containing protein 17	79734
Potassium channel tetramerization domain containing 7	154881
Lysine-specific demethylase 1A	23028
Lysine-specific demethylase 5B	10765
Lysine-specific demethylase 5C (Jumonji, AT-rich interactive domain	8242
Lysine-specific demethylase 6B	23135
KIAA0586 gene	9786
KIAA0753 gene	9851
Kinase D-interacting substrate, 220kD	57498
Kinesin family member 11	3832
Kinesin family member 14	9928
Kinesin family member 1A	547
Kinesin family member 1B	23095
Kinesin family member 1C	10749
Kinesin family member 5A	3798
Kinesin family member 7	374654
KISS1 receptor	84634
Kinesin, light chain 2	64837
Kelch-like 40	131377
Kelch-like family member 41	10324

Kelch-like 7	55975
Lysine (K)-specific methyltransferase 2E	4297
Lysine (K)-specific methyltransferase 2B	9757
Kinetochore scaffold 1	57082
Kaptin	11133
Kirsten rat sarcoma-2 viral (v-Ki-ras2) oncogene homolog	3845
Kyphoscoliosis peptidase	339855
Kynureninase	8942
L1 cell adhesion molecule	3897
L-2-hydroxyglutarate dehydrogenase	79944
Laminin, alpha-1	284217
Laminin, alpha-2 (merosin)	3908
Laminin, beta-2 (laminin S)	3913
Lysosome-associated membrane protein-2	3920
Acetylglucosaminyltransferase-like protein	9215
La ribonucleoprotein domain family, member 7	51574
Lamin B receptor	3930
LIM domain binding 3	11155
Low density lipoprotein receptor	3949
Low density lipoprotein receptor adaptor protein 1	26119
LEM domain-containing 3	23592
Leucine-rich gene, glioma-inactivated, 4	163175
Luteinizing hormone/choriogonadotropin receptor	3973
Lipoic acid synthase	11019
Leukemia inhibitory factor receptor	3977
Ligase IV, DNA, ATP-dependent	3981
LIM and senescent cell antigen-like domains 2	55679
Lines homolog 1	55180
Lipase E, hormone-sensitive	3991
Lipoyltransferase 1	51601
Lipoyl(octanoyl) transferase 2	387787
LPS-induced TNFA factor	9516
LMAN2-like protein	81562
Lamin A/C	4000
Lamin B1	4001
Lamin B2	84823
Leiomodin 3	56203
LIM homeo box transcription factor 1, beta	4010
Lunapark	80856
Lipin 1	23175
Low density lipoprotein receptor-related protein 12	29967
Low density lipoprotein receptor-related protein 4	4038
Leucine-rich PPR motif-containing protein	10128
Leucine-rich repeat kinase 2 (dardarin)	120892
Leucine-rich repeat- and sterile alpha motif-containing 1	90678

Latent transforming growth factor-beta-binding protein 4	8425
LYR motif-containing protein 7	90624
Lysosomal trafficking regulator	1130
mab-21 like 1	4081
Microtubule-actin cross-linking factor 1	23499
Mitotic arrest-deficient 2 like 2	10459
v-MAF musculoaponeurotic fibrosarcoma oncogene family, protein B	9935
Myelin-associated glycoprotein	4099
MAGE-like 2	54551
Mannosidase, alpha, class 1B member 1	11253
Mannosidase, alpha, class 2B, member 1	4125
Mannosidase, beta A, lysosomal	4126
Monoamine oxidase A	4128
Microtubule-associated protein 11	55262
Leucine zipper- and sterile alpha motif-containing kinase	51776
Mitogen-activated protein kinase 1	5594
Mitogen-activated protein kinase 8-interacting protein 3	23162
Microtubule-associated protein tau	4137
Membrane-associated RING-CH finger protein 6	10299
Methioninyl-tRNA synthetase 1	4141
Methionyl-tRNA synthetase 2	92935
Microtubule-associated serine/threonine kinase 1	22983
Methionine adenosyltransferase I, alpha	4143
Matrin 3	9782
Methyl-CpG-binding domain protein 5	55777
Membrane bound O-acyltransferase domain containing 7	79143
Membrane-bound transcription factor protease, site 1	8720
3-Methylcrotonyl-CoA carboxylase 1	56922
3-Methylcrotonyl-CoA carboxylase 2	64087
Minichromosome maintenance 3-associated protein, 80-kD	8888
Mucolipin 1	57192
Microcephalin	79648
Malate dehydrogenase, mitochondrial	4191
Methyl-CpG-binding protein-2	4204
Mitochondrial trans-2-enoyl-CoA reductase	51102
Mediator of RNA polymerase II transcription, subunit 12, S. cerevisia	9968
Mediator complex subunit 13	9969
Mediator complex subunit 13-like	23389
Mediator complex subunit 17	9440
Mediator complex subunit 23	9439
Mediator of RNA polymerase II transcription, subunit 25, S. cerevisia	81857
MADS box transcription enhancer factor 2, polypeptide C (myocyte er	4208
Pyrin (marenostrin)	4210
Multiple epidermal growth factor-like domains 10	84466
Methyltransferase-like 23	124512

methytransferase 5, N6-adenosine	29081
Mitochondrial fission factor	56947
Mitofusin 2	9927
Major facilitator superfamily domain-containing protein 2A	84879
Major facilitator superfamily domain-containing protein 8	256471
Mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyl- tr	4247
Mitochondrial genome maintenance exonuclease 1	92667
Mitochondrial contact site and cristae organizing system subunit 13	125988
Mitochondrial calcium uptake protein 1	10367
Midline 2	11043
Makorin 3	7681
MKS1 gene	54903
DNA mismatch repair protein MLH1	4292
MMAA gene	166785
MMACHC gene	25974
Chromosome 2 open reading frame 25	27249
Membrane metallo-endopeptidase (common acute lymphocytic leukemia)	4311
Matrix metalloproteinase 13 (collagenase 3)	4322
Matrix metalloproteinase 2 (gelatinase A, 72kD type IV collagenase)	4313
Methylmalonyl Coenzyme A mutase	4594
Molybdenum cofactor synthesis-1	4337
Molybdenum cofactor synthesis-2	4338
MORC family CW-type zinc finger protein 2	22880
Brain protein 44-like	51660
MPL proto-oncogene (thrombopoietin receptor)	4352
M-phase specific PLK1 interacting protein	136647
Mitochondrial inner membrane protein MPV17	4358
Myelin protein zero	4359
Meiotic recombination 11, <i>S. cerevisiae</i> , homolog A of	4361
Mitochondrial ribosomal protein S16	51021
Mitochondrial ribosomal protein S34	65993
mutS homolog 2	4436
Misato 1, mitochondrial distribution and morphology regulator	55154
Mitochondrial methionyl-tRNA formyltransferase	123263
Methylenetetrahydrofolate reductase	4524
5,10-methenyltetrahydrofolate synthetase	10588
Myotubularin	4534
Myotubularin-related protein 2	8898
Mitochondrial tRNA translation optimization 1	25821
Mechanistic target of rapamycin	2475
Mitochondrial poly(A) polymerase	55149
5-methyltetrahydrofolate-homocysteine methyltransferase 1	4548
Methionine synthase reductase	4552
Microsomal triglyceride transfer protein, 88kD	4547
Receptor tyrosine kinase MuSK	4593

Myeloid differentiation primary response gene 88	4615
Myogenic factor-5	4617
Myosin, heavy chain 14, nonmuscle	79784
Myosin, heavy polypeptide-2, skeletal muscle, adult	4620
Myosin, heavy polypeptide-3, skeletal muscle, embryonic	4621
Myosin, heavy polypeptide-7, cardiac muscle, beta	4625
Myosin, light polypeptide-1, alkali, skeletal, fast	4632
Myosin Va	4644
Myosin IXa	4649
Myocilin (trabecular meshwork-induced glucocorticoid response prote	4653
Myogenic factor-3	4654
Myogenesis-regulating glycosidase	57462
Myotilin (titin immunoglobulin domain protein)	9499
Myopalladin	84665
N-alpha-acetyltransferase 10, NatA catalytic subunit	8260
Nucleus accumbens-associated protein 1, BEN and BTB/POZ domair	112939
NAD kinase 2, mitochondrial	133686
Acetylgalactosaminidase, alpha-N- (alpha-galactosidase B)	4668
N-acetylglucosaminidase, alpha-	4669
N-acetylglutamate synthase	162417
Sodium leak channel, nonselective	259232
Asparaginyl-tRNA synthetase 2	79731
N-acetyltransferase 8-like	339983
NAD(P)HX dehydratase	55739
NAD(P)HX epimerase	128240
Non-SMC condensin II complex subunit D3	23310
nudE neurodevelopment protein 1	54820
Norrin	4693
N-myc downstream-regulated gene 1	10397
N-deacetylase/N-sulfotransferase (heparan sulfate-N-deacetylase/N-s	3340
NADH-ubiquinone oxidoreductase subunit A1	4694
NADH-ubiquinone oxidoreductase subunit A10	4705
NADH-ubiquinone oxidoreductase subunit A11	126328
NADH-ubiquinone oxidoreductase subunit A12	55967
NADH-ubiquinone oxidoreductase subunit A13	51079
NADH-ubiquinone oxidoreductase subunit A2	4695
NADH-ubiquinone oxidoreductase subunit A4	4697
NADH-ubiquinone oxidoreductase subunit A6	4700
NADH-ubiquinone oxidoreductase subunit A9	4704
NADH-ubiquinone oxidoreductase complex assembly factor 1	51103
NADH-ubiquinone oxidoreductase complex assembly factor 2	91942
NADH-ubiquinone oxidoreductase complex assembly factor 3	25915
NADH-ubiquinone oxidoreductase complex assembly factor 4	29078
NADH-ubiquinone oxidoreductase complex assembly factor 5	79133
NADH-ubiquinone oxidoreductase complex assembly factor 6	137682

NADH dehydrogenase (ubiquinone) complex I, assembly factor 8	284184
NADH-ubiquinone oxidoreductase subunit B10	4716
NADH-ubiquinone oxidoreductase subunit B11	54539
NADH-ubiquinone oxidoreductase subunit B3	4709
NADH-ubiquinone oxidoreductase subunit B8	4714
NADH-ubiquinone oxidoreductase subunit B9	4715
NADH-ubiquinone oxidoreductase core subunit S1	4719
NADH-ubiquinone oxidoreductase core subunit S2	4720
NADH-ubiquinone oxidoreductase core subunit S3	4722
NADH-ubiquinone oxidoreductase subunit S4	4724
NADH-ubiquinone oxidoreductase subunit S6	4726
NADH-ubiquinone oxidoreductase core subunit S7	374291
NADH-ubiquinone oxidoreductase core subunit S8	4728
NADH-ubiquinone oxidoreductase core subunit V1	4723
NADH-ubiquinone oxidoreductase core subunit V2	4729
Nebulin	4703
NECAP endocytosis-associated protein 1	25977
Neurofilament, heavy polypeptide	4744
Neurofilament, light polypeptide	4747
Never in mitosis gene A-related kinase 1	4750
Never in mitosis gene A-related kinase 9	91754
Neuraminidase 1 (lysosomal sialidase; sialidase 1)	4758
Neurogenic differentiation 2	4761
Neurite extension and migration factor	340533
Neurofibromin (neurofibromatosis, type I)	4763
Merlin	4771
Neurofascin	23114
Nuclear factor I/X (CCAAT-binding transcription factor)	4784
Nerve growth factor, beta	4803
N-glycanase 1	55768
NHL repeat-containing 1 gene (malin)	378884
NHL repeat-containing protein 2	374354
Nonimprinted gene in Prader-Willi syndrome/Angelman syndrome ch	123606
Nipped-B-like (delangin)	25836
NFKB-activating protein	79576
NK2 homeobox 1	7080
NK6 transcription factor related, locus 2 (Drosophila)	84504
Neurologin 4	57502
NLR family, pyrin domain containing 3	114548
Noggin, mouse, homolog of	9241
Nucleolar protein 3	8996
Non-Pou domain-containing octamer (ATGCAAAT) binding protein (n	4841
Nop56, S. cerevisiae, homolog of	10528
Notch receptor 2	4853
NOTCH2 N-terminal-like protein C	100996717

Notch, <i>Drosophila</i> , homolog of, 3	4854
NPC1 gene	4864
Epididymal secretory protein HE1	10577
Nephrocystin	4867
Nuclear receptor subfamily 0, group B, member 1	190
Nuclear receptor subfamily 2, group F, member 1 (transcription facto	7025
Neuroblastoma RAS viral (v-ras) oncogene homolog	4893
Neurexin 1	9378
Nuclear receptor binding SET domain protein 1	64324
Nuclear receptor-binding SET domain protein 2	7468
NAD(P)H steroid dehydrogenase-like protein	50814
NMDA receptor synaptonuclear signaling and neuronal migration facto	26012
NOP2/SUN RNA methyltransferase family, member 2	54888
5' nucleotidase, cytosolic II	22978
Netrin 1, mouse, homolog of	9423
netrin G2	84628
Neurotrophic tyrosine kinase, receptor, type 1	4914
Neurotrophic tyrosine kinase, receptor, type 2	4915
Nucleotide-binding protein-like protein	80224
Nucleoporin, 188kD	23511
Nucleoporin, 62-kD	23636
Nucleoporin, 88-kD	4927
Nuclear undecaprenyl pyrophosphate synthase 1, <i>S. cerevisiae</i> , hom	116150
Occludin	100506658
Phosphatidylinositol polyphosphate 5-phosphatase (OCRL gene)	4952
OFD1 protein	8481
Oxoglutarate dehydrogenase, lipoamide (alpha-ketoglutarate dehydr	4967
Optic atrophy 1 gene	4976
OPA3 gene	80207
Oligophrenin-1	4983
Optineurin	10133
ORAI calcium release-activated calcium modulator 1	84876
Osteopetrosis associated transmembrane protein 1 (grey-lethal, mous	28962
OTU domain-containing protein 6B	51633
Oxidation resistance 1	55074
Prolyl 4-hydroxylase, transmembrane	54681
Poly(A)-binding protein, nuclear 1	8106
Phosphofurin acidic cluster sorting protein 1	55690
Phosphofurin acidic cluster sorting protein 2	23241
Phenylalanine hydroxylase	5053
p21/CDC42/RAC1-activated kinase 1	5058
p21-activated kinase-3	5063
Presequence translocase-associated motor 16	51025
Pantothenate kinase 2	80025
Oncogene DJ-1	11315

Polyadenylate-specific ribonuclease	5073
Prolyl-tRNA synthetase 2	25973
Paired box homeotic gene-1	5075
Paired box homeotic gene-6	5080
Pyruvate carboxylase	5091
Pterin-4a-carbinolamine dehydratase 1	5092
Propionyl Coenzyme A carboxylase, alpha polypeptide	5095
Propionyl Coenzyme A carboxylase, beta polypeptide	5096
Protocadherin 12 (cadherin, vascular endothelial, 2)	51294
Protocadherin 19	57526
Ring finger protein 110 (zinc finger protein-144)	7703
Piccolo, mouse, homolog of	27445
Proliferating cell nuclear antigen	5111
Pericentrin	5116
phosphate cytidyltransferase 2, ethanolamine	5833
Phosphodiesterase 10A	10846
Phosphodiesterase-4D, cAMP-specific (dunce, Drosophila, homolog of)	5144
Phosphodiesterase-6B, cGMP-specific, rod, beta	5158
Phosphodiesterase 6D, cGMP-specific, rod, delta	5147
Phosphodiesterase 8B	8622
Platelet-derived growth factor, beta polypeptide (oncogene SIS)	5155
Platelet-derived growth factor receptor, beta polypeptide	5159
Pyruvate dehydrogenase, E1-alpha polypeptide-1	5160
Pyruvate dehydrogenase complex, lipoyl-containing component X	8050
Pyruvate dehydrogenase kinase, isoenzyme 3	5165
Pyruvate dehydrogenase phosphatase catalytic subunit 1	54704
Prenyl diphosphate synthase, subunit 1	23590
Pyridoxal kinase	8566
Prodynorphin	5173
PET100 cytochrome c oxidase chaperone	100131801
Peroxisome biogenesis factor-1	5189
Peroxisome biogenesis factor 10	5192
Peroxisome biogenesis 11B	8799
Peroxisome biogenesis factor 12	5193
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Peroxisome biogenesis factor 16	9409
Peroxisome biogenesis factor 19 (peroxisomal farnesylated protein)	5824
Peroxisome biogenesis factor 2	5828
Peroxisome biogenesis factor 26	55670
Peroxisomal biogenesis factor-3	8504
Peroxisome biogenesis factor 5	5830
Peroxisomal biogenesis factor 6 (peroxisomal AAA-type ATPase 1)	5190
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Profilin-1	5216

Post-GPI attachment to proteins 1	80055
Post-GPI attachment to proteins 2	27315
Post-GPI attachment to proteins 3	93210
Phosphoglycerate kinase-1	5230
Phosphoglucomutase-3 (N-acetylglucosamine-phosphate mutase 1)	5238
Phosphatase and actin regulator 1	221692
Polyhomeotic-like 1	1911
PHD finger protein 6	84295
Phosphoglycerate dehydrogenase	26227
Pleckstrin homology domain-interacting protein	55023
Phytanoyl-CoA hydroxylase	5264
Progesterone-induced blocking factor 1	10464
PIEZO-type mechanosensitive ion channel component 2	63895
Phosphatidylinositol glycan, class A	5277
Phosphatidylinositol glycan, class C	5279
Phosphatidylinositol glycan anchor biosynthesis class G protein	54872
Phosphatidylinositol glycan, class L	9487
Phosphatidylinositol glycan, class N	23556
Phosphatidylinositol glycan, class O	84720
Phosphatidylinositol glycan, class P	51227
Phosphatidylinositol glycan anchor biosynthesis class Q protein	9091
Phosphatidylinositol glycan, class S	94005
Phosphatidylinositol glycan, class T	51604
Phosphatidylinositol glycan, class V	55650
Phosphatidylinositol glycan, class W	284098
Phosphatidylinositol glycan, class Y	84992
Phosphatidylinositol 3-kinase, regulatory subunit 5	23533
PTEN-induced putative kinase 1	65018
Paired-like homeodomain transcription factor-3	5309
Phospholipase A2, group VI	8398
Phospholipase A2-activating protein	9373
Phospholipase C, beta-1	23236
Phospholipase D family, member 3	23646
Pleckstrin homology domain- and RhoGEF domain-containing protein	64857
Pleckstrin homology domain- and RhoGEF domain-containing protein	57449
Procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase)	5351
Proteolipid protein 1	5354
Pyridoxal phosphate-binding protein	11212
Phosphomannomutase 2	5373
Peripheral myelin protein-2	5375
Peripheral myelin protein-22	5376
Peptidase, mitochondrial processing, alpha	23203
Peptidase, mitochondrial processing, beta	9512
Myofibrillogenesis regulator 1	25953
Polynucleotide kinase 3' phosphatase	11284

Purine nucleoside phosphorylase	4860
Patatin-like phospholipase domain-containing protein 2	57104
Patatin-like phospholipase domain-containing protein 6	10908
Patatin-like phospholipase domain-containing protein 8	50640
Pyridoxamine 5'-phosphate oxidase	55163
Polyribonucleotide nucleotidyltransferase 1	87178
POC1 centriolar protein A	25886
POGO transposable element with ZNF domain	23126
Polymerase, DNA, alpha-1	5422
Polymerase (DNA directed), gamma	5428
Polymerase, DNA, gamma-2	11232
Polymerase I, RNA, subunit C	9533
Polymerase I, RNA, subunit D	51082
Polymerase III, RNA, subunit A	11128
Polymerase III, RNA, subunit B	55703
Protein O-mannose beta-1,2-N-acetylglucosaminyltransferase	55624
Protein O-mannose beta-1,2-N-acetylglucosaminyltransferase 2	84892
Protein-O-mannose kinase	84197
Protein O-mannosyltransferase 1	10585
Putative protein O-mannosyltransferase 2	29954
Protein phosphatase, magnesium-dependent, 1, delta isoform	8493
Protoporphyrinogen oxidase	5498
Protein phosphatase 1, regulatory subunit 15B	84919
Protein phosphatase 2, structural/regulatory subunit A, alpha	5518
Protein phosphatase 2, regulatory subunit B, beta	5521
Protein phosphatase-2, regulatory subunit B (B56), delta isoform	5528
Protein phosphatase 3, catalytic subunit, alpha isoform (calcineurin A	5530
Palmitoyl-protein thioesterase 1	5538
Polyglutamine-binding protein 1	10084
PR domain-containing protein 5	11107
PR domain-containing protein 8	56978
Peroxiredoxin 1	5052
Prolyl endopeptidase-like	9581
Prickle-like 1	144165
Protein kinase, cAMP-dependent, regulatory, type I, alpha	5573
Protein kinase, cAMP-dependent, regulatory, type I, beta	5575
Protein kinase C, gamma polypeptide	5582
Protein kinase, DNA-activated, catalytic polypeptide (hyperradiosensi	5591
Parkin	5071
Protein kinase, interferon-inducible double-stranded RNA-dependent	8575
Prion protein (p27-30)	5621
Protein C (inactivator of coagulation factors Va and VIIIa)	5624
Proline dehydrogenase (proline oxidase)	5625
Prokineticin 2	60675
Prokineticin receptor 2	128674

Phosphoribosyl pyrophosphate synthetase-1	5631
Proline-rich transmembrane protein 2	112476
Protease, serine, 12	8492
Prune exopolyphosphatase 1	58497
Periaxin	57716
Prosaposin (sphingolipid activator protein-1)	5660
Phosphoserine aminotransferase 1	29968
Presenilin 1	5663
Presenilin 2	5664
Proteasome 26S subunit, non-ATPase, 12	5718
Patched 1	5727
Pancreas transcription factor 1, alpha subunit	256297
Parathyroid hormone 1 receptor	5745
Peptidyl-tRNA hydrolase 2	51651
6-pyruvoyltetrahydropterin synthase	5805
Poly-U-binding splicing factor, 60kD	22827
Pumilio RNA binding family member 1	9698
Purine-rich element binding protein A	5813
Pseudouridylate synthase 3	83480
Pseudouridylate synthase 7, putative	54517
Pyrroline-5-carboxylate reductase 2	29920
Pyridine nucleotide-disulfide oxidoreductase domain-containing protein	79912
Glutaminyl-tRNA synthetase 1	5859
Quinoid dihydropteridine reductase	5860
Glutamine-rich protein 1	54870
Ras-associated protein RAB11B	9230
Ras-associated protein RAB18	22931
Ras-associated protein RAB39B	116442
RAB3 GTPase-activating protein, catalytic subunit	22930
RAB3 GTPase-activating protein (noncatalytic) subunit 2	25782
Ras-associated protein RAB7	7879
Rac family small GTPase 1	5879
RAD21 cohesin complex component	5885
RAD51 recombinase	5888
RAD52 paralog C	5889
Retinoic acid-induced gene 1	10743
Receptor-associated protein of the synapse, 43kD	5913
Arginyl-tRNA synthetase 1	5917
Arginyl-tRNA synthetase 2	57038
RNA-binding motif protein 10	8241
RNA-binding motif protein 8A	9939
Retinol dehydrogenase 12	145226
Receptor expression-enhancing protein 1	65055
Receptor expression-enhancing protein 2	51308
RELA proto-oncogene, NF-kB subunit	5970

RALBP1-associated EPS domain-containing protein 1	85021
RE repeats-encoding gene	473
Family with sequence similarity 134, member B	54463
Replication factor C1, 145kD (activator 1, 145kD)	5981
RFT1 homolog	91869
RING finger and WD repeat domains-containing protein 3	55159
Regulatory factor X, 5 (influences HLA class II expression)	5993
Regulatory factor X, ankyrin repeat-containing	8625
Regulatory factor X-associated protein	5994
Rhodopsin (opsin 2)	6010
Rho-related BTB domain-containing protein 2	23221
Connexin 43-interacting protein, 150kD	57589
Retinaldehyde-binding protein-1, cellular	6017
RING finger protein, LIM domain-interacting	51132
Required for meiotic nuclear division 1 homolog	55005
Mitochondrial RNA-processing endoribonuclease	6023
Ribonuclease H1	246243
Ribonuclease H2, large subunit	10535
Ribonuclease H2, subunit B	79621
Ribonuclease H2, subunit C	84153
Ribonuclease T2	8635
RING finger protein 113A	7737
RING finger protein 125	54941
RING finger protein 168	165918
RING finger protein 170	81790
RAR-related orphan receptor A	6095
RPGRIP1-like	23322
Ribose 5-phosphate isomerase A	22934
Ribosomal protein L10	6134
Ribosomal protein S6 kinase, 90kD, polypeptide 3	6197
Ribonucleotide reductase M2 B, TP53 inducible	50484
RING finger- and SPRY domain-containing protein 11	89970
Arginine/serine-rich coiled-coil protein 1	51319
Regulator of telomere elongation helicase 1	51750
Reticulon-2	6253
Rotatin	25914
RUN domain and cysteine-rich domain containing, Beclin 1-interacting	9711
RUN and SH3 domain-containing 2	9853
Ribitol xylosyltransferase 1	10329
Ryanodine receptor-1, skeletal	6261
Sacsin	26278
sal-like 4	57167
Sterile alpha motif domain containing 12	401474
Sterile alpha motif domain-containing 9-like	219285
SAM domain- and HD domain-containing protein 1	25939

Sar1a, <i>S. cerevisiae</i> , homolog 2	51128
Sarcosine dehydrogenase	1757
Seryl-tRNA synthetase 1	6301
SAS-6 centriolar assembly protein	163786
Special AT-rich sequence-binding protein 2	23314
SBDS gene	51119
SET-binding factor 1 (myotubularin-related protein 5)	6305
SET binding factor 2 (myotubularin-related 13)	81846
Sterol C5-desaturase-like	6309
Scavenger receptor class B, member 2	950
Sodium channel, voltage-gated, type X, alpha subunit	6336
Sodium channel, voltage-gated, type XI, alpha subunit	11280
Sodium channel, voltage-gated, type I, alpha polypeptide	6323
Sodium channel, voltage-gated, type I, beta polypeptide	6324
Sodium channel, voltage-gated, type II, alpha subunit	6326
Sodium channel, voltage-gated, type III, alpha polypeptide	6328
Sodium channel, voltage-gated, type IV, alpha polypeptide	6329
Sodium channel, voltage gated, type VIII, alpha polypeptide	6334
Sodium channel, voltage-gated, type IX, alpha subunit	6335
SCO2 cytochrome c oxidase assembly protein	9997
Sterol carrier protein-2	6342
SCY1-like 1	57410
SCY1-like protein 2	55681
Succinate dehydrogenase complex, subunit A, flavoprotein	6389
Succinate dehydrogenase complex assembly factor 1	644096
Succinate dehydrogenase complex, subunit D, integral membrane protein	6392
Selenoprotein I	85465
Selenoprotein N	57190
Semaphorin 3A	10371
Semaphorin 3E	9723
Semaphorin 4A	64218
O-phosphoserine tRNA-selenocysteine tRNA synthase	51091
Septin 9	10801
Serine active site-containing protein 1	84947
Complement component-1 inhibitor	710
Protease inhibitor 12	5274
SET-binding protein 1	26040
SET domain-containing protein 2	29072
SET domain-containing protein 5	55209
Senataxin	23064
Sideroflexin 4	119559
Sarcoglycan, alpha (50kD dystrophin-associated glycoprotein; adhalin 1)	6442
Sarcoglycan, beta (43kD dystrophin-associated glycoprotein)	6443
Sarcoglycan, delta (35kD dystrophin-associated glycoprotein)	6444
Sarcoglycan, epsilon	8910

Sarcoglycan, gamma (35kD dystrophin-associated glycoprotein)	6445
Sphingosine-1-phosphate lyase 1	8879
N-sulfoglucosamine sulfohydrolase (sulfamidase)	6448
SH3-domain binding protein 2	6452
SH3-domain kinase-binding protein 1	30011
SH3 domain and tetratricopeptide repeat domain 2	79628
SH3 and multiple ankyrin repeat domains 3	85358
Suppressor of clear, C. elegans, homolog of	8036
Sedoheptulokinase	23729
Shroom family member 4	57477
Sigma nonopioid intracellular receptor 1	10280
Salt-inducible kinase 1	150094
SIL1 nucleotide exchange factor	64374
Sin3, yeast, homolog of, A	25942
SKI proto-oncogene	6497
Solute carrier family 12 (sodium/potassium/chloride transporters), me	6557
Solute carrier family 12 (sodium/potassium/chloride transporters), me	6559
Solute carrier family 12, (potassium-chloride transporter) member 5	57468
Solute carrier family 12 (potassium/chloride transporters), member 6	9990
Solute carrier family 13 (sodium-dependent citrate transporter), memk	284111
Solute carrier family 16 (monocarboxylic acid transporters), member 2	6567
Solute carrier family 17 (sodium phosphate), member 5	26503
Solute carrier family 18 (vesicular monoamine), member 2	6571
Solute carrier family 18 (vesicular acetylcholine), member 3	6572
Solute carrier family 19 (thiamine transporter), member 2	10560
Solute carrier family 19 (folate transporter), member 3	80704
Solute carrier family 1 (glial high affinity glutamate transporter), memb	6506
Solute carrier family 1 (glutamate/neutral amino acid transporter), me	6509
Solute carrier family 20, phosphate transporter, member 2 (murine leu	6575
Solute carrier family 25 (mitochondrial citrate transporter), member 1	6576
Solute carrier family 25 (mitochondrial carrier; oxoglutarate carrier),	8402
Solute carrier family 25 (mitochondrial carrier, Aralar), member 12	8604
Solute carrier family 25 (mitochondrial carrier, citrin), member 13	10165
Solute carrier family 25 (mitochondrial carrier), member 15 (ornithine t	10166
Solute carrier family 25 (mitochondrial deoxynucleotide carrier), mem	60386
Solute carrier family 25 (mitochondrial oxodicarboxylate carrier), mem	89874
Solute carrier family 25 (mitochondrial carrier, glutamate), member 2	279751
Solute carrier family 25 (mitochondrial carrier) member 4 (adenine nu	291
Solute carrier family 25, member 42	284439
Solute carrier family 25, member 46	91137
Solute carrier family 29 (nucleoside transporter), member 3	55315
Solute carrier family 2 (facilitated glucose transporter), member 1	6513
Solute carrier family 30 (zinc transporter), member 10	55532
Solute carrier family 30 (zinc transporter), member 9	10463
Solute carrier family 33 (acetyl-CoA transporter), member 1	9197

Solute carrier family 34 (sodium/phosphate cotransporter), member 3	142680
Solute carrier family 35 (CMP-sialic acid transporter), member 1	10559
Solute carrier family 39 (zinc transporter), member 13	91252
Solute carrier family 39 (zinc transporter), member 14	23516
Solute carrier family 36 (zinc transporter), member 4	55630
Solute carrier family 39 (zinc transporter), member 8	64116
Solute carrier family 45, member 1	50651
Solute carrier family 46 (folate transporter), member 1	113235
Solute carrier family 52, riboflavin transporter, member 2	79581
Solute carrier family 52, riboflavin transporter, member 3	113278
Solute carrier family 5 (choline transporter), member 7	60482
Solute carrier family 6 (neurotransmitter transporter, GABA), member	6529
Solute carrier family 6 (neurotransmitter transporter), member 17	388662
Solute carrier family 6 (neurotransmitter transporter), member 19	340024
Solute carrier family 6 (neurotransmitter transporter, dopamine), mem	6531
Solute carrier family 6 (neurotransmitter transporter, glycine), membe	9152
Solute carrier family 6 (neurotransmitter transporter, creatine), memb	6535
Solute carrier family 6 (neurotransmitter transporter, glycine), membe	6536
Solute carrier family 9 (sodium/hydrogen exchanger), member 1 (anti	6548
Solute carrier family 9 (sodium/hydrogen exchanger), member 6	10479
Solute carrier family 9 (sodium/hydrogen exchanger), member 7	84679
Solute carrier organic anion transporter family, member 2A1	6578
SLIT- and NTRK-like family, member 1	114798
Slx4, <i>S. cerevisiae</i> , homolog of	84464
SWI/SNF related, matrix associated, actin dependent regulator of chr	50485
SWI/SNF related, matrix associated, actin dependent regulator of chr	6598
SW1/SNF related, matrix associated, actin dependent regulator of ch	6601
SWI/SNF-related, matrix-associated, actin-dependent regulator of ch	6605
Segregation of mitotic chromosomes 1 (SMC1, yeast, homolog of; D	8243
Structural maintenance of chromosomes 3	9126
Structural maintenance of chromosomes flexible hinge domain-contai	23347
Chromosome 19 open reading frame 61	56006
Survival of motor neuron 1, telomeric	6606
Sphingomyelin phosphodiesterase-1, acid lysosomal	6609
Spermine synthase	6611
Synaptosomal-associated protein, 25kD	6616
Synaptosomal-associated protein, 29kD	9342
Synuclein, alpha (non A4 component of amyloid precursor)	6622
SMAD nuclear interacting protein 1	79753
Small nucleolar RNA, C/D box, 118	727676
Small nuclear ribonucleoprotein polypeptide N	6638
Sorting nexin 10	29887
Sorting nexin 14	57231
Superoxide dismutase-1, soluble	6647
SRY (sex-determining region Y)-box-10	6663

SRY-box 5	6660
SP110 nuclear body protein (interferon-induced protein 41, 30kD; inte3431	
Spartin	23111
Spastin	6683
Spermatogenesis-associated protein 5	166378
SPEG complex locus	10290
Spastascin	80208
Acidic cluster protein, 33kD, (maspardin)	51324
Paraplegin	6687
Sepiapterin reductase	6697
Sprouty-related EVH1 domain-containing protein 1	161742
SPRY domain containing 4	81848
Spectrin, alpha, nonerythrocytic-1 (alpha-fodrin)	6709
Spectrin, beta, nonerythrocytic, 2	6712
Spectrin, beta, nonerythrocytic, 4 (quivering, mouse, homolog of)	57731
Serine palmitoyltransferase, long-chain base subunit 2	9517
Sequestosome 1	8878
Signal recognition particle, 54kD	6729
SUSHI repeat-containing protein, X-linked, 2	27286
ST3 beta-galactoside alpha-2,3-sialyltransferase 3	6487
Sialyltransferase 9	8869
SH3 and cystein-rich domains 3	246329
Stromal antigen 2	10735
STAM binding protein	10617
START domain-containing protein 4	56910
Signal transducer and activator of transcription-3 (acute-phase respor6774	
SCL/TAL1-interrupting locus	6491
Stromal interaction molecule 1	6786
STN1, CST complex subunit	79991
STE20-related kinase adaptor alpha	92335
Steroid sulfatase, microsomal (arylsulfatase C, isozyme S)	412
STIP1 homologous and U box-containing protein 1	10273
Syntaxin 16	8675
Syntaxin 1B	112755
Syntaxin-binding protein 1	6812
Succinate-CoA ligase, ADP-forming, beta subunit	8803
Succinate-CoA ligase, alpha subunit	8802
Suppressor of fused	51684
Sulfatase-modifying factor-1	285362
Sulfite oxidase	6821
Surfeit-1	6834
Spectrin repeat-containing nuclear envelope protein 1 (nesprin 1)	23345
Spectrin repeat-containing nuclear envelope protein 2 (nesprin 2)	23224
Synaptic Ras GTPase activating protein 1	8831
Synaptojanin 1	8867

Synaptophysin	6855
Synaptotagmin-1	6857
Synaptotagmin 14	255928
Synaptotagmin-2	127833
SZT2 subunit of KICSTOR complex	23334
Translational activator of mitochondrially encoded cytochrome c oxidase	51204
TAF1 RNA polymerase II, TATA box-binding protein-associated factor	6872
TAF13 RNA polymerase II, TATA box-binding protein-associated factor	6884
TAF2 RNA polymerase II, TATA box-binding protein-associated factor	6873
TAF6 RNA polymerase II, TATA box-binding protein-associated factor	6878
Transport and golgi organization 2 homolog	128989
TAR DNA-binding protein	23435
Threonyl-tRNA synthetase 1	6897
Tyrosine aminotransferase, soluble	6898
Tafazzin	6901
TBC1 domain family, member 20	128637
TBC1 domain family, member 23	55773
TBC1 domain family, member 24	57465
Tubulin-specific chaperone D	6904
Tubulin-specific chaperone E	6905
TBC1 domain-containing kinase	93627
TANK-binding kinase 1	29110
TATA box binding protein	6908
T-box, brain, 1	10716
T-box 1	6899
T-box 4	9496
Telethonin	8557
Transcription factor 20	6942
Transcription factor-4 (immunoglobulin transcription factor-2)	6925
T-cell immune regulator 1	10312
Treacle	6949
Tectonic family, member 1	79600
Tectonic family, member 2	79867
Tectonic family, member 3	26123
Tyrosyl-DNA phosphodiesterase 1	55775
Tectonin beta-propeller repeat-containing protein 2	9895
Trans-2,3-enoyl-CoA reductase	9524
Telomere maintenance 2, <i>S. cerevisiae</i> , homolog of	9894
Teneurin transmembrane protein 4	26011
Telomerase reverse transcriptase	7015
TET oncogene family, member 3	200424
TRK-fused gene	10342
Transforming growth factor, beta-1	7040
Transforming growth factor, beta-2	7042
Transforming growth factor, beta-3	7043

Transforming growth factor, beta receptor II, 70-80kD	7048
Transglutaminase-1 (K polypeptide epidermal type I, protein-glutami	7051
Transglutaminase 6	343641
Tyrosine hydroxylase	7054
THAP domain-containing protein 1	55145
THO complex 2 (Tho2, yeast, homolog of)	57187
Thrombopoietin (megakaryocyte growth and development factor)	7066
Thyroid hormone receptor, alpha (oncogene ERBA1)	7067
Thyroid hormone receptor, beta (avian erythroblastic leukemia viral	7068
TIA1 cytotoxic granule-associated RNA-binding protein	7072
Translocase of inner mitochondrial membrane 50, yeast, homolog of	92609
Translocase of inner mitochondrial membrane 8, yeast, homolog of, A1678	
Translocase of inner mitochondrial membrane domain-containing prot	51300
TRF1-interacting nuclear factor 2	26277
Thymidine kinase, mitochondrial	7084
Dihydroxyacetone kinase 2, <i>S. cerevisiae</i> , homolog of	26007
Transketolase	7086
Tousled-like kinase 2	11011
Transmembrane and coiled-coil domains protein 1	54499
Transmembrane protein 106B	54664
Transmembrane protein 107	84314
Transmembrane protein 126B	55863
Transmembrane protein 216	51259
Transmembrane protein 231	79583
Transmembrane protein 237	65062
Transmembrane protein 240	339453
Transmembrane protein 43	79188
Transmembrane protein 67 (meckelin)	91147
Transmembrane protein 70	54968
Transmembrane protease, serine 6 (matriptase 2)	164656
Tumor necrosis factor ligand superfamily, member 11 (osteoprotegeri	8600
TRAF2-and NCK-interacting kinase	23043
Troponin-T1, skeletal, slow	7138
Transportin 3	23534
Tenascin XB	7148
Target of EGR1	114034
Tonsoku-like DNA repair protein	4796
Topoisomerase (DNA) III, alpha	7156
Torsin A	1861
Torsin A-interacting protein 1	26092
Tumor protein p53	7157
Triosephosphate isomerase-1	7167
Thiamine pyrophosphokinase	27010
Tropomyosin-2, beta	7169
Tropomyosin 3	7170

Tripeptidyl peptidase 1	1200
TNF receptor-associated factor 7	84231
Trafficking protein, kinesin-binding 1	22906
Trafficking protein particle complex, subunit 11	60684
Trafficking protein particle complex, subunit 12	51112
Trafficking protein particle complex 2-like	51693
Trafficking protein particle complex, subunit 6B	122553
Trafficking protein particle complex 9	83696
Triggering receptor expressed on myeloid cells 2	54209
3' repair exonuclease 1	11277
Tripartite motif-containing protein 2	23321
Tripartite-motif-containing protein 32	22954
Tripartite motif-containing 37	4591
Tripartite motif-containing 8	81603
Triple functional domain	7204
Thyroid hormone receptor interactor 12	9320
Thyroid hormone receptor interactor 13	9319
Thyroid hormone receptor interactor 4	9325
tRNA isopentenyltransferase 1	54802
tRNA methyltransferase 10A	93587
tRNA methyltransferase 5	57570
tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase	55687
Transient receptor potential cation channel, subfamily C, member 3	7222
Transient receptor potential cation channel, subfamily V, member 4 (v)	59341
Hamartin (tuberous sclerosis 1 gene)	7248
Tuberin (tuberous sclerosis 2 gene)	7249
tRNA splicing endonuclease, subunit 15	116461
tRNA splicing endonuclease, subunit 2	80746
tRNA splicing endonuclease, subunit 34	79042
tRNA splicing endonuclease, subunit 54	283989
Ts translation elongation factor, mitochondrial	10102
Thyroid-stimulating hormone receptor	7253
Tetraspanin 7	7102
Y-encoded testis-specific protein-like	7259
Tau tubulin kinase 2	146057
Tetratricopeptide repeat domain 19	54902
Tetratricopeptide repeat domain 8	123016
TELO2-interacting protein 2	80185
Titin	7273
Tocopherol, alpha, transfer protein	7274
Transthyretin (prealbumin)	7276
Tubulin, alpha 8	51807
Tubulin, beta-2B	347733
Tubulin, beta-3	10381
Tubulin, beta-4A	10382

Tubulin-gamma complex-associated protein 2	10844
Tu translation elongation factor, mitochondrial	7284
Tubby-like protein-1	7287
Tumor suppressor candidate 3	7991
TWIST, Drosophila, homolog of, 1	7291
Twinkle mtDNA helicase	56652
Thioredoxin 2	25828
Thymidine phosphorylase	1890
TYRO protein tyrosine kinase-binding protein	7305
Ubiquitin-like modifier-activating enzyme 1	7317
Ubiquitin-like modifier activating enzyme 5	79876
Ubiquitin-associated protein 1	51271
Ubiquitin-conjugating enzyme E2T	29089
Ubiquitin protein ligase E3A	7337
Ubiquilin 2	29978
Upstream binding transcription factor, RNA polymerase I	7343
Ubiquitin C-terminal esterase L1	7345
Ubiquitin-fold modifier-conjugating enzyme 1	51506
Ubiquitin-fold modifier 1	51569
UFM1-specific peptidase 2	55325
UDP-glucose dehydrogenase	7358
Uridyl diphosphate glucose pyrophosphorylase-2	7360
UDP glycosyltransferase 1 family, polypeptide A1	54658
Unc-80 homolog, NALCN channel complex subunit	285175
Beta-ureidopropionase	51733
UPF3B regulator of nonsense-mediated mRNA decay	65109
Ubiquinol-cytochrome c reductase complex assembly factor 2	84300
Ubiquinol-cytochrome c reductase, complex III subunit VII, 9.5kD	27089
Urocanase domain-containing protein 1	131669
Usherin	7399
Ubiquitin-specific protease 27, X-linked	389856
Ubiquitin-specific protease-7, herpes virus-associated	7874
Ubiquitin-specific protease-9, X chromosome (Drosophila fat facets re	8239
Vac14, S. cerevisiae, homolog of	55697
Vesicle-associated membrane protein-1 (synaptobrevin-1)	6843
Vesicle-associated membrane protein-2 (synaptobrevin-2)	6844
Vang-like 1	81839
Vesicle-associated membrane protein-associated protein B	9217
Valyl-tRNA synthetase 1	7407
Valosin-containing protein	7415
Vitamin D (1,25-dihydroxyvitamin D3) receptor	7421
VHL gene	7428
Very low density lipoprotein receptor	7436
Vacuolar protein sorting 11, yeast, homolog of	55823
Vacuolar protein sorting 13A (chorein)	23230

Vacuolar protein sorting 13, yeast, homolog of, C	54832
Vacuolar protein sorting 13 homolog D	55187
Vacuolar protein sorting 33, yeast, homolog of, A	65082
Vacuolar protein sorting 35, yeast, homolog of	55737
Vacuolar protein sorting 37A	137492
Vaccinia-related kinase-1	7443
von Willebrand factor A domain-containing protein 3B	200403
WW domain-containing adaptor with coiled-coil region	51322
Tryptophanyl-tRNA synthetase 1	7453
Tryptophanyl-tRNA synthetase 2	10352
Wiskott-Aldrich syndrome gene	7454
WAS protein family member 1	8936
WASH complex, subunit 4	23325
WASH complex, subunit 5	9897
WD repeat-containing protein 11	55717
WD repeat-containing protein 26	80232
WD repeat-containing protein 4	10785
WD repeat-containing protein 45	11152
WD repeat domain 45B	56270
WD repeat-containing protein 62	284403
WD repeat-containing protein 73	84942
WD repeat-containing protein 81	124997
Wolframin	7466
WAS/WASL-interacting protein family, member 1	7456
WD40 repeat protein interacting with phosphoinositides 2	26100
WNK lysine deficient protein kinase 1	65125
WW domain-containing oxidoreductase	51741
Kell blood group precursor	7504
XPA complementing gene	7507
XPC gene	7508
X-prolyl aminopeptidase 3	63929
Xenotropic and polytropic retrovirus receptor	9213
X-ray-repair, complementing defective, repair in Chinese hamster cell	7515
X-ray repair, complementing defective, repair in Chinese hamster cell	7516
X-ray repair, complementing defective, repair in Chinese hamster cell	7518
Tyrosyl-tRNA synthetase 1	8565
Mitochondrial escape 1-like 1	10730
Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation	7532
YY1 transcription factor	7528
Zinc finger and BTB-domain containing 20	26137
Zinc finger CCCH domain-containing protein 14	79882
Zinc finger C4H2 domain-containing protein	55906
Zinc finger DHHC domain-containing protein 9	51114
Zinc finger homeobox 2	85446
Zinc finger FYVE domain-containing protein 26	23503

Zinc finger FYVE domain-containing protein 27	118813
Zinc metalloproteinase STE24	10269
Zinc finger protein-142	7701
Zinc finger protein 335	63925
Zinc finger protein 408	79797
Zinc finger protein-711	7552
Zinc finger HIT domain-containing protein 3	9326
Zinc finger SWIM domain-containing protein 6	57688
Influenza virus NS1A protein-binding protein	10625
Katanin-interacting protein	23247

Ensembl gene ID

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Phenotypes

Achalasia-addisonianism-alacrimia syndrome, 231550 (3), Autosomal recessive
Charcot-Marie-Tooth disease, axonal, type 2N, 613287 (3), Autosomal dominant; Epileptic encephalopathy
Combined oxidative phosphorylation deficiency 8, 614096 (3), Autosomal recessive; Leukoencephalopathy
Hyperlysinemia, 238700 (3), Autosomal recessive; Saccharopinuria, 268700 (1), Autosomal recessive
GABA-transaminase deficiency, 613163 (3), Autosomal recessive
HDL deficiency, familial, 1, 604091 (3); Tangier disease, 205400 (3), Autosomal recessive
NULL
{Alzheimer disease 9, susceptibility to}, 608907 (3), Autosomal dominant
[Blood group, Langereis system], 111600 (3); Dyschromatosis universalis hereditaria 3, 615402 (3), Autosomal dominant
Anemia, sideroblastic, with ataxia, 301310 (3), X-linked recessive
Arterial calcification, generalized, of infancy, 2, 614473 (3), Autosomal recessive; Pseudoxanthoma elasticum
Adrenoleukodystrophy, 300100 (3), X-linked recessive; Adrenomyeloneuropathy, adult, 300100 (3), X-linked recessive
Methylmalonic aciduria and homocystinuria, cblJ type, 614857 (3), Autosomal recessive
Sitosterolemia, 210250 (3), Autosomal recessive
{Gallbladder disease 4}, 611465 (3); Sitosterolemia, 210250 (3), Autosomal recessive
Polyneuropathy, hearing loss, ataxia, retinitis pigmentosa, and cataract, 612674 (3), Autosomal recessive
Chanarin-Dorfman syndrome, 275630 (3), Autosomal recessive
Acyl-CoA dehydrogenase, medium chain, deficiency of, 201450 (3), Autosomal recessive
Short stature and advanced bone age, with or without early-onset osteoarthritis and/or osteochondritis dissecans
Alpha-methylacetoacetic aciduria, 203750 (3), Autosomal recessive
?Dyskeratosis congenita, autosomal dominant 6, 616553 (3), Autosomal recessive, Autosomal dominant; ?Dyskeratosis congenita, autosomal recessive 6, 616553 (3), Autosomal recessive
?Leukodystrophy, progressive, early childhood-onset, 617762 (3), Autosomal recessive
Infantile cerebellar-retinal degeneration, 614559 (3), Autosomal recessive; ?Optic atrophy 9, 616289 (3), Autosomal recessive
Peroxisomal acyl-CoA oxidase deficiency, 264470 (3), Autosomal recessive
Combined malonic and methylmalonic aciduria, 614265 (3)
Mental retardation, X-linked 63, 300387 (3), X-linked dominant
Myopathy, actin, congenital, with cores, 161800 (3), Autosomal recessive, Autosomal dominant; Myopathy, actin, congenital, with cores, 161800 (3), Autosomal recessive, Autosomal dominant
Baraitser-Winter syndrome 1, 243310 (3), Autosomal dominant; ?Dystonia, juvenile-onset, 607371 (3), Autosomal dominant
Epileptic encephalopathy, early infantile, 76, 618468 (3); Intellectual developmental disorder with severe speech impairment
Aminoacylase 1 deficiency, 609924 (3), Autosomal recessive
?Sneddon syndrome, 182410 (3), Autosomal recessive; Vasculitis, autoinflammation, immunodeficiency, and thrombocytopenia
Thrombotic thrombocytopenic purpura, familial, 274150 (3), Autosomal recessive
Aicardi-Goutieres syndrome 6, 615010 (3), Autosomal recessive; Dyschromatosis symmetrica hereditaria, 615010 (3), Autosomal recessive
Mental retardation, autosomal recessive 36, 615286 (3), Autosomal recessive
Dyskinesia, familial, with facial myokymia, 606703 (3), Autosomal dominant
?Lethal congenital contracture syndrome 8, 616287 (3), Autosomal recessive
Cerebral palsy, spastic quadriplegic, 3, 617008 (3), Autosomal recessive
Polymicrogyria, bilateral frontoparietal, 606854 (3), Autosomal recessive; Polymicrogyria, bilateral perisylvian
Helsmoortel-van der Aa syndrome, 615873 (3), Autosomal dominant
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Epilepsy, myoclonic, familial adult, 2, 607876 (3), Autosomal dominant
Adenylosuccinase deficiency, 103050 (3), Autosomal recessive
Myopathy, distal, 5, 617030 (3), Autosomal recessive

Ehlers-Danlos syndrome, classic-like, 2, 618000 (3), Autosomal recessive
 Mental retardation, X-linked, FRAXE type, 309548 (3), X-linked recessive
 Spastic ataxia 5, autosomal recessive, 614487 (3), Autosomal recessive; Spinocerebellar ataxia 28, 61024
 Aspartylglucosaminuria, 208400 (3), Autosomal recessive
 Lipodystrophy, congenital generalized, type 1, 608594 (3), Autosomal recessive
 Myasthenic syndrome, congenital, 8, with pre- and postsynaptic defects, 615120 (3), Autosomal recessive
 Neurodegeneration, childhood-onset, with cerebellar atrophy, 618276 (3), Autosomal recessive
 Hyperoxaluria, primary, type 1, 259900 (3), Autosomal recessive
 Hypermethioninemia with deficiency of S-adenosylhomocysteine hydrolase, 613752 (3), Autosomal recessive
 Joubert syndrome 3, 608629 (3), Autosomal recessive
 Combined oxidative phosphorylation deficiency 6, 300816 (3), X-linked recessive; Cowchock syndrome, 3
 Leukodystrophy, hypomyelinating, 3, 260600 (3), Autosomal recessive
 Leukodystrophy, hypomyelinating, 17, 618006 (3), Autosomal recessive
 Cutis laxa, autosomal dominant 3, 616603 (3), Autosomal dominant; Cutis laxa, autosomal recessive, type
 Sjogren-Larsson syndrome, 270200 (3), Autosomal recessive
 Succinic semialdehyde dehydrogenase deficiency, 271980 (3), Autosomal recessive
 Methylmalonate semialdehyde dehydrogenase deficiency, 614105 (3), Autosomal recessive
 Epilepsy, pyridoxine-dependent, 266100 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Ik, 608540 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Ip, 613661 (3), Autosomal recessive
 ?Congenital disorder of glycosylation, type Is, 300884 (3), X-linked dominant; Epileptic encephalopathy, ea
 ?Myasthenic syndrome, congenital, 15, without tubular aggregates, 616227 (3), Autosomal recessive
 ?Congenital disorder of glycosylation, type Ii, 607906 (3), Autosomal recessive; Myasthenic syndrome, co
 Congenital disorder of glycosylation, type Id, 601110 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Ic, 603147 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Il, 608776 (3), Autosomal recessive; Gillesen-Kaesbach-Nishim
 Intellectual developmental disorder, autosomal recessive 71, 618504 (3), Autosomal recessive
 Hypophosphatasia, adult, 146300 (3), Autosomal recessive, Autosomal dominant; Hypophosphatasia, chil
 Amyotrophic lateral sclerosis 2, juvenile, 205100 (3), Autosomal recessive; Primary lateral sclerosis, juven
 Alpha-methylacyl-CoA racemase deficiency, 614307 (3), Autosomal recessive; Bile acid synthesis defect,
 Pontocerebellar hypoplasia, type 9, 615809 (3), Autosomal recessive; ?Spastic paraplegia 63, 615686 (3),
 Glycine encephalopathy, 605899 (3), Autosomal recessive
 Amyotrophic lateral sclerosis 9, 611895 (3)
 ?Mental retardation, autosomal recessive, 37, 615493 (3), Autosomal recessive
 Microcephaly 16, primary, autosomal recessive, 616681 (3), Autosomal recessive
 Spinocerebellar ataxia, autosomal recessive 10, 613728 (3), Autosomal recessive
 Dystonia 24, 615034 (3), Autosomal dominant
 Gnathodiaphyseal dysplasia, 166260 (3), Autosomal dominant; Miyoshi muscular dystrophy 3, 613319 (3)
 Hypogonadotropic hypogonadism 1 with or without anosmia (Kallmann syndrome 1), 308700 (3), X-linked
 Amyotrophic lateral sclerosis 23, 617839 (3), Autosomal dominant
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 MEDNIK syndrome, 609313 (3), Autosomal recessive
 Mental retardation, X-linked syndromic 5, 304340 (3), X-linked recessive
 Intellectual developmental disorder 60 with seizures, 618587 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 48, 617276 (3), Autosomal recessive

?Hermansky-Pudlak syndrome 10, 617050 (3), Autosomal recessive
 Spastic paraplegia 47, autosomal recessive, 614066 (3), Autosomal recessive
 Spastic paraplegia 51, autosomal recessive, 613744 (3), Autosomal recessive; Stuttering, familial persistence of, 613744 (3), Autosomal recessive
 Spastic paraplegia 50, autosomal recessive, 612936 (3), Autosomal recessive
 Spastic paraplegia 52, autosomal recessive, 614067 (3), Autosomal recessive
 Spastic paraplegia 48, autosomal recessive, 613647 (3), Autosomal recessive
 ?Sotos syndrome 3, 617169 (3), Autosomal recessive
 Hypercholesterolemia, familial, 2, 144010 (3), Autosomal dominant; Hypobetalipoproteinemia, 615558 (3), Autosomal recessive
 Alzheimer disease 1, familial, 104300 (3), Autosomal dominant; Cerebral amyloid angiopathy, Dutch, Italian, 615558 (3), Autosomal dominant
 Ataxia, early-onset, with oculomotor apraxia and hypoalbuminemia, 208920 (3), Autosomal recessive
 Short stature, rhizomelic, with microcephaly, micrognathia, and developmental delay, 617164 (3), Autosomal recessive
 Periventricular nodular heterotopia 8, 618185 (3), Autosomal dominant
 Argininemia, 207800 (3), Autosomal recessive
 ?Neurodevelopmental disorder with midbrain and hindbrain malformations, 617523 (3), Autosomal recessive
 Coffin-Siris syndrome 6, 617808 (3), Autosomal dominant
 Joubert syndrome 8, 612291 (3), Autosomal recessive
 Joubert syndrome 35, 618161 (3), Autosomal recessive; Retinitis pigmentosa 83, 618173 (3), Autosomal dominant
 {Bardet-Biedl syndrome 1, modifier of}, 209900 (3), Autosomal recessive, Digenic recessive; Bardet-Biedl syndrome 1, 209900 (3), Autosomal recessive
 ?Spastic paraplegia 61, autosomal recessive, 615685 (3), Autosomal recessive
 Joubert syndrome 30, 617622 (3), Autosomal recessive
 Metachromatic leukodystrophy, 250100 (3), Autosomal recessive
 Mucopolysaccharidosis type VI (Maroteaux-Lamy), 253200 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 38, 617020 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 1, 308350 (3), X-linked recessive; Hydranencephaly with abnormal facial features, 617020 (3), Autosomal recessive
 Farber lipogranulomatosis, 228000 (3), Autosomal recessive; Spinal muscular atrophy with progressive myofascial degeneration, 614266 (3), Autosomal recessive
 Barrett esophagus/esophageal adenocarcinoma, 614266 (3); ?Spinal muscular atrophy with congenital bone mineralization defects, 614266 (3), Autosomal recessive
 Mental retardation, autosomal dominant 52, 617796 (3), Autosomal dominant
 Asparagine synthetase deficiency, 615574 (3), Autosomal recessive
 Canavan disease, 271900 (3), Autosomal recessive
 Microcephaly 5, primary, autosomal recessive, 608716 (3), Autosomal recessive
 Bainbridge-Ropers syndrome, 615485 (3), Autosomal dominant
 Hyperekplexia 4, 618011 (3), Autosomal recessive
 Harel-Yoon syndrome, 617183 (3), Autosomal recessive, Autosomal dominant
 Ataxia, cerebellar, Cayman type, 601238 (3), Autosomal recessive
 Neuropathy, hereditary sensory, type ID, 613708 (3), Autosomal dominant; Spastic paraplegia 3A, autosomal dominant, 613708 (3), Autosomal dominant
 Neuropathy, hereditary sensory, type IF, 615632 (3), Autosomal dominant
 Ataxia-telangiectasia, 208900 (3), Autosomal recessive; {Breast cancer, susceptibility to}, 114480 (3), Autosomal recessive
 Congenital hypotonia, epilepsy, developmental delay, and digital anomalies, 618494 (3), Autosomal dominant
 Kufor-Rakeb syndrome, 606693 (3), Autosomal recessive; Spastic paraplegia 78, autosomal recessive, 618494 (3), Autosomal dominant
 Charcot-Marie-Tooth disease, axonal, type 2DD, 618036 (3), Autosomal dominant; Hypomagnesemia, severe, 618036 (3), Autosomal dominant
 Alternating hemiplegia of childhood 1, 104290 (3), Autosomal dominant; Migraine, familial basilar, 602481 (3), Autosomal dominant
 Alternating hemiplegia of childhood 2, 614820 (3), Autosomal dominant; CAPOS syndrome, 601338 (3), Autosomal dominant
 ?Spinocerebellar ataxia, X-linked 1, 302500 (3), X-linked recessive
 Mitochondrial complex V (ATP synthase) deficiency, 618120 (3), Autosomal recessive
 ?Mitochondrial complex V (ATP synthase) deficiency, nuclear type 3, 614053 (3), Autosomal recessive

Mental retardation, X-linked, syndromic, Hedera type, 300423 (3), X-linked recessive; ?Parkinsonism with
 Cutis laxa, autosomal recessive, type IID, 617403 (3), Autosomal recessive; Epileptic encephalopathy, infantile
 Menkes disease, 309400 (3), X-linked recessive; Occipital horn syndrome, 304150 (3), X-linked recessive
 Wilson disease, 277900 (3), Autosomal recessive
 ?Cerebellar ataxia, mental retardation, and dysequilibrium syndrome 4, 615268 (3), Autosomal recessive
 ?Cutaneous telangiectasia and cancer syndrome, familial, 614564 (3), Autosomal dominant; Seckel syndrome
 Alpha-thalassemia myelodysplasia syndrome, somatic, 300448 (3); Alpha-thalassemia/mental retardation
 Spinocerebellar ataxia 1, 164400 (3), Autosomal dominant
 Spinocerebellar ataxia 10, 603516 (3), Autosomal dominant
 3-methylglutaconic aciduria, type I, 250950 (3), Autosomal recessive
 Mental retardation, autosomal dominant 26, 615834 (3), Autosomal dominant
 ?Amyloidosis, familial visceral, 105200 (3), Autosomal dominant; Immunodeficiency 43, 241600 (3), Autosomal recessive
 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies, type A, 11, 615181 (3), Autosomal recessive
 Spastic paraplegia 26, autosomal recessive, 609195 (3), Autosomal recessive
 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 13, 615287 (3), Autosomal recessive
 Joubert syndrome 27, 617120 (3), Autosomal recessive; ?Meckel syndrome 9, 614209 (3), Autosomal recessive
 Cardiomyopathy, dilated, 1HH, 613881 (3), Autosomal dominant; Myopathy, myofibrillar, 6, 612954 (3), Autosomal dominant
 Tumor predisposition syndrome, 614327 (3), Autosomal dominant
 Bardet-Biedl syndrome 1, 209900 (3), Autosomal recessive, Digenic recessive
 Bardet-Biedl syndrome 2, 615981 (3), Autosomal recessive; Retinitis pigmentosa 74, 616562 (3), Autosomal recessive
 Immunodeficiency 49, 617237 (3), Autosomal dominant; Intellectual developmental disorder with dysmorphic features
 Shukla-Vernon syndrome, 301029 (3), X-linked recessive
 Bjornstad syndrome, 262000 (3), Autosomal recessive; GRACILE syndrome, 603358 (3), Autosomal recessive
 Spinocerebellar ataxia 31, 117210 (3), Autosomal dominant
 Spinal muscular atrophy, lower extremity-predominant, 2A, autosomal dominant, 615290 (3), Autosomal dominant
 Centronuclear myopathy 2, 255200 (3), Autosomal recessive
 Microphthalmia, syndromic 6, 607932 (3), Autosomal dominant; Orofacial cleft 11, 600625 (3)
 Multiple mitochondrial dysfunctions syndrome 2 with hyperglycinemia, 614299 (3), Autosomal recessive
 Adenocarcinoma of lung, somatic, 211980 (3); Cardiofaciocutaneous syndrome, 115150 (3), Autosomal dominant
 Neurodevelopmental disorder with cerebellar atrophy and with or without seizures, 618056 (3), Autosomal dominant
 {Breast cancer, early-onset, susceptibility to}, 114480 (3), Autosomal dominant, Somatic mutation; Fanconi anemia
 Encephalopathy, progressive, with or without lipodystrophy, 615924 (3), Autosomal recessive; Lipodystrophy
 Bartter syndrome, type 4a, 602522 (3), Autosomal recessive; Sensorineural deafness with mild renal dysfunction
 Muscular dystrophy, limb-girdle, autosomal recessive 25, 616812 (3), Autosomal recessive
 NA
 NA
 NA
 [Blood group, Rodgers], 614374 (3); C4a deficiency, 614380 (3), Autosomal recessive
 NA
 NA
 Osteopetrosis, autosomal recessive 3, with renal tubular acidosis, 259730 (3), Autosomal recessive
 Cerebellar ataxia and mental retardation with or without quadrupedal locomotion 3, 613227 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 42, 617106 (3), Autosomal dominant; Episodic ataxia, type 2, 108200 (3)
 Neurodevelopmental disorder with seizures and nonepileptic hyperkinetic movements, 618497 (3), Autosomal dominant
 Primary aldosteronism, seizures, and neurologic abnormalities, 615474 (3), Autosomal dominant; Sinoatrial block

Epileptic encephalopathy, early infantile, 69, 618285 (3), Autosomal dominant
Spinocerebellar ataxia 42, 616795 (3), Autosomal dominant; Spinocerebellar ataxia 42, early-onset, severe, 616795 (3), Autosomal dominant; {Epilepsy, childhood absence, susceptibility to, 6}, 611942 (3); {Epilepsy, idiopathic generalized, susceptibility to, 6}, 611942 (3)
Hypokalemic periodic paralysis, type 1, 170400 (3), Autosomal dominant; {Malignant hyperthermia susceptibility, type 1}, 610400 (3), Autosomal recessive
Cerebellar atrophy with seizures and variable developmental delay, 618501 (3), Autosomal recessive
{Epilepsy, idiopathic generalized, susceptibility to, 9}, 607682 (3), Autosomal dominant; {Epilepsy, juvenile myoclonic, susceptibility to, 9}, 607682 (3), Autosomal dominant
Epileptic encephalopathy, early infantile, 50, 616457 (3), Autosomal recessive
Mental retardation, autosomal dominant 53, 617798 (3), Autosomal dominant; ?Mental retardation, autosomal dominant 53, 617798 (3), Autosomal dominant
Mental retardation, autosomal dominant 54, 617799 (3), Autosomal dominant
Cerebellar ataxia, nonprogressive, with mental retardation, 614756 (3), Autosomal dominant
Desbuquois dysplasia 1, 251450 (3), Autosomal recessive; Epiphyseal dysplasia, multiple, 7, 617719 (3), Autosomal recessive
Spastic paraplegia 76, autosomal recessive, 616907 (3), Autosomal recessive
Muscular dystrophy, limb-girdle, autosomal dominant 4, 618129 (3), Autosomal dominant; Muscular dystrophy, limb-girdle, autosomal recessive 4, 618129 (3), Autosomal recessive
Combined oxidative phosphorylation deficiency 27, 616672 (3), Autosomal recessive
FG syndrome 4, 300422 (3); Mental retardation and microcephaly with pontine and cerebellar hypoplasia, 300422 (3), Autosomal recessive; {Epilepsy idiopathic generalized, susceptibility to, 8}, 612899 (3); Hyperparathyroidism, neonatal, 239200 (3), Autosomal recessive
?Lipodystrophy, congenital generalized, type 3, 612526 (3), Autosomal recessive; Lipodystrophy, familial partial, 612526 (3), Autosomal recessive
Cardiomyopathy, familial hypertrophic, 192600 (3), Autosomal dominant; Creatine phosphokinase, elevated, 192600 (3), Autosomal dominant
Lipodystrophy, congenital generalized, type 4, 613327 (3), Autosomal recessive
Intrinsic factor deficiency, 261000 (3), Autosomal recessive
Mental retardation, autosomal recessive 3, 608443 (3), Autosomal recessive
COACH syndrome, 216360 (3), Autosomal recessive; Joubert syndrome 9, 612285 (3), Autosomal recessive
Hennekam lymphangiectasia-lymphedema syndrome 1, 235510 (3), Autosomal recessive
?PEHO syndrome-like, 617507 (3), Autosomal recessive
Hydrocephalus, congenital, 1, 236600 (3), Autosomal recessive; ?Spinocerebellar ataxia 40, 616053 (3), Autosomal recessive
Arthropathy, progressive pseudorheumatoid, of childhood, 208230 (3), Autosomal recessive; Spondyloepiphyseal dysplasia, 208230 (3), Autosomal recessive
NULL
Neuropathy, hereditary sensory, with spastic paraplegia, 256840 (3), Autosomal recessive
Hemolytic anemia, CD59-mediated, with or without immune-mediated polyneuropathy, 612300 (3), Autosomal recessive
Deafness, autosomal recessive 12, 601386 (3), Autosomal recessive; {Pituitary adenoma 5, multiple types}, 601386 (3), Autosomal recessive
Al Kaissi syndrome, 617694 (3), Autosomal recessive
?Lissencephaly 7 with cerebellar hypoplasia, 616342 (3), Autosomal recessive
Microcephaly 3, primary, autosomal recessive, 604804 (3), Autosomal recessive
?Microcephaly 12, primary, autosomal recessive, 616080 (3), Autosomal recessive
NULL
Epileptic encephalopathy, early infantile, 2, 300672 (3), X-linked dominant
Microcephaly 6, primary, autosomal recessive, 608393 (3), Autosomal recessive; ?Seckel syndrome 4, 610393 (3), Autosomal recessive
Joubert syndrome 25, 616781 (3), Autosomal recessive
Joubert syndrome 31, 617761 (3), Autosomal recessive; Short-rib thoracic dysplasia 13 with or without polydactyly, 617761 (3), Autosomal recessive
Microcephaly 8, primary, autosomal recessive, 614673 (3), Autosomal recessive
Microcephaly 9, primary, autosomal recessive, 614852 (3), Autosomal recessive; Seckel syndrome 5, 613852 (3), Autosomal recessive
Joubert syndrome 15, 614464 (3), Autosomal recessive
Mosaic variegated aneuploidy syndrome 2, 614114 (3), Autosomal recessive
?Seckel syndrome 6, 614728 (3), Autosomal recessive
?Epilepsy, progressive myoclonic, 8, 616230 (3), Autosomal recessive

Mental retardation, autosomal dominant 34, 616351 (3), Autosomal dominant
 Retinal dystrophy with macular staphyloma, 617547 (3), Autosomal recessive; Spondylometaphyseal dysplasia, 617547 (3), Autosomal recessive
 Spermatogenic failure 19, 617592 (3), Autosomal recessive
 Nemaline myopathy 7, autosomal recessive, 610687 (3), Autosomal recessive
 Mental retardation, autosomal dominant 40, 616579 (3), Autosomal dominant
 Myasthenic syndrome, congenital, 6, presynaptic, 254210 (3), Autosomal recessive
 Frontotemporal dementia and/or amyotrophic lateral sclerosis 2, 615911 (3), Autosomal dominant; ?Myasthenic syndrome, congenital, 6, presynaptic, 254210 (3), Autosomal recessive
 Parkinson disease 22, autosomal dominant, 616710 (3), Autosomal dominant
 Pilarowski-Bjornsson syndrome, 617682 (3), Autosomal dominant
 Epileptic encephalopathy, childhood-onset, 615369 (3), Autosomal dominant
 Snijders Blok-Campeau syndrome, 618205 (3), Autosomal dominant
 Sifrim-Hitz-Weiss syndrome, 617159 (3), Autosomal dominant
 CHARGE syndrome, 214800 (3), Autosomal dominant; Hypogonadotropic hypogonadism 5 with or without hypogonadism, 214800 (3), Autosomal dominant
 Muscular dystrophy, congenital, megaconial type, 602541 (3), Autosomal recessive
 Pontocerebellar hypoplasia, type 8, 614961 (3), Autosomal recessive
 Amyotrophic lateral sclerosis 17, 614696 (3), Autosomal dominant; Dementia, familial, nonspecific, 600795 (3), Autosomal dominant
 Duane retraction syndrome 2, 604356 (3)
 ?Spastic ataxia 9, autosomal recessive, 618438 (3), Autosomal recessive
 Multiple pterygium syndrome, lethal type, 253290 (3), Autosomal recessive; Myasthenic syndrome, congenital, 2A, slow-channel, 616313 (3), Autosomal dominant
 Epilepsy, nocturnal frontal lobe, type 4, 610353 (3), Autosomal dominant
 Myasthenic syndrome, congenital, 2A, slow-channel, 616313 (3), Autosomal dominant; ?Myasthenic syndrome, congenital, 2A, slow-channel, 616313 (3), Autosomal dominant
 Multiple pterygium syndrome, lethal type, 253290 (3), Autosomal recessive; ?Myasthenic syndrome, congenital, 2A, slow-channel, 616313 (3), Autosomal dominant
 Myasthenic syndrome, congenital, 4A, slow-channel, 605809 (3), Autosomal recessive, Autosomal dominant
 Escobar syndrome, 265000 (3), Autosomal recessive; Multiple pterygium syndrome, lethal type, 253290 (3), Autosomal recessive
 Ehlers-Danlos syndrome, musculocontractural type 1, 601776 (3), Autosomal recessive
 Spondyloepiphyseal dysplasia with congenital joint dislocations, 143095 (3), Autosomal recessive
 Mental retardation, autosomal dominant 45, 617600 (3), Autosomal dominant
 Bare lymphocyte syndrome, type II, complementation group A, 209920 (3), Autosomal recessive; {Rheumatoid arthritis, 209920 (3), Autosomal recessive
 Endocrine-cerebroosteodysplasia, 612651 (3), Autosomal recessive; {Epilepsy, juvenile myoclonic, susceptibility to, 612651 (3), Autosomal recessive
 Wolfram syndrome 2, 604928 (3), Autosomal recessive
 Microcephaly 17, primary, autosomal recessive, 617090 (3), Autosomal recessive
 Filippi syndrome, 272440 (3), Autosomal recessive
 Cold-induced sweating syndrome 2, 610313 (3), Autosomal recessive
 {Epilepsy, idiopathic generalized, susceptibility to, 11}, 607628 (3), Autosomal dominant; {Epilepsy, juvenile myoclonic, susceptibility to, 607628 (3), Autosomal dominant
 Raynaud-Claes syndrome, 300114 (3), X-linked dominant
 Hypopigmentation, organomegaly, and delayed myelination and development, 618541 (3), Autosomal dominant
 Bartter syndrome, type 3, 607364 (3), Autosomal recessive; Bartter syndrome, type 4b, digenic, 613090 (3), Autosomal dominant
 ?Mental retardation, X-linked, syndromic 32, 300886 (3), X-linked recessive
 Ceroid lipofuscinosis, neuronal, 3, 204200 (3), Autosomal recessive
 Ceroid lipofuscinosis, neuronal, 5, 256731 (3), Autosomal recessive
 Ceroid lipofuscinosis, neuronal, 6, 601780 (3), Autosomal recessive; Ceroid lipofuscinosis, neuronal, Kufs disease, 601780 (3), Autosomal recessive
 Ceroid lipofuscinosis, neuronal, 8, 600143 (3), Autosomal recessive; Ceroid lipofuscinosis, neuronal, 8, NCL, 600143 (3), Autosomal recessive
 Pontocerebellar hypoplasia, type 10, 615803 (3), Autosomal recessive
 3-methylglutaconic aciduria, type VII, with cataracts, neurologic involvement and neutropenia, 616271 (3), Autosomal recessive
 Retinitis pigmentosa 61, 614180 (3); Usher syndrome, type 3A, 276902 (3), Autosomal recessive

Mental retardation, autosomal dominant 56, 617854 (3), Autosomal dominant
 Mental retardation, X-linked, syndromic, Houge type, 301008 (3), X-linked
 Hypomagnesemia 6, renal, 613882 (3), Autosomal dominant; Hypomagnesemia, seizures, and mental retardation 6, 613882 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 60, 617929 (3), Autosomal recessive
 ?Myopathy, congenital, Compton-North, 612540 (3), Autosomal recessive
 ?Epilepsy, myoclonic, familial adult, 5, 615400 (3), Autosomal recessive
 Hypomyelinating neuropathy, congenital, 3, 618186 (3), Autosomal recessive; Lethal congenital contracture syndrome 3, 618186 (3), Autosomal recessive
 {Autism susceptibility 15}, 612100 (3); Cortical dysplasia-focal epilepsy syndrome, 610042 (3), Autosomal recessive
 Spinocerebellar ataxia, autosomal recessive, with axonal neuropathy 3, 618387 (3), Autosomal recessive
 Mitochondrial complex IV deficiency, 220110 (3), Autosomal recessive, Mitochondrial
 Neurodegeneration with brain iron accumulation 6, 615643 (3), Autosomal recessive; Pontocerebellar hypoplasia 1, 615643 (3), Autosomal recessive
 Congenital disorder of glycosylation, type IIj, 613489 (3), Autosomal recessive; Saul-Wilson syndrome, 613489 (3), Autosomal recessive
 Congenital disorder of glycosylation, type IIi, 613612 (3)
 Congenital disorder of glycosylation, type IIe, 608779 (3), Autosomal recessive
 Congenital disorder of glycosylation, type IIh, 611182 (3)
 Metaphyseal chondrodysplasia, Schmid type, 156500 (3), Autosomal dominant
 Bethlem myopathy 2, 616471 (3), Autosomal dominant; ?Ullrich congenital muscular dystrophy 2, 616470 (3), Autosomal dominant
 Myasthenic syndrome, congenital, 19, 616720 (3), Autosomal recessive
 {Bone mineral density variation QTL, osteoporosis}, 166710 (3), Autosomal dominant; Caffey disease, 114200 (3), Autosomal dominant
 Achondrogenesis, type II or hypochondrogenesis, 200610 (3), Autosomal dominant; Avascular necrosis of femoral head 1, 200610 (3), Autosomal dominant
 Angiopathy, hereditary, with nephropathy, aneurysms, and muscle cramps, 611773 (3), Autosomal dominant
 Brain small vessel disease 2, 614483 (3), Autosomal dominant; {Hemorrhage, intracerebral, susceptibility 1}, 614483 (3), Autosomal dominant
 Bethlem myopathy 1, 158810 (3), Autosomal recessive, Autosomal dominant; Ullrich congenital muscular dystrophy 1, 158810 (3), Autosomal dominant
 Bethlem myopathy 1, 158810 (3), Autosomal recessive, Autosomal dominant; ?Myosclerosis, congenital, 2, 158810 (3), Autosomal dominant
 Bethlem myopathy 1, 158810 (3), Autosomal recessive, Autosomal dominant; Dystonia 27, 616411 (3), Autosomal dominant
 ?Epiphyseal dysplasia, multiple, 6, 614135 (3), Autosomal dominant; Stickler syndrome, type IV, 614134 (3), Autosomal dominant
 Epiphyseal dysplasia, multiple, 2, 600204 (3), Autosomal dominant; ?Stickler syndrome, type V, 614284 (3), Autosomal dominant
 Epiphyseal dysplasia, multiple, 3, with or without myopathy, 600969 (3), Autosomal dominant; {Intervertebral disc disease 1}, 600969 (3), Autosomal dominant
 3MC syndrome 2, 265050 (3), Autosomal recessive
 Myasthenic syndrome, congenital, 5, 603034 (3), Autosomal recessive
 Epiphyseal dysplasia, multiple, 1, 132400 (3), Autosomal dominant; Pseudoachondroplasia, 177170 (3), Autosomal dominant
 ?Microcephaly 19, primary, autosomal recessive, 617800 (3), Autosomal recessive
 Coenzyme Q10 deficiency, primary, 1, 607426 (3), Autosomal recessive; {Multiple system atrophy, susceptibility 1}, 607426 (3), Autosomal recessive
 ?Coenzyme Q10 deficiency, primary, 8, 616733 (3), Autosomal recessive
 Coenzyme Q10 deficiency, primary, 4, 612016 (3), Autosomal recessive
 Coenzyme Q10 deficiency, primary, 5, 614654 (3), Autosomal recessive
 Immunodeficiency 8, 615401 (3), Autosomal recessive
 Leigh syndrome due to mitochondrial COX4 deficiency, 256000 (3), Autosomal recessive, Mitochondrial; Mitochondrial COX4 deficiency, 256000 (3), Mitochondrial
 Cardioencephalomyopathy, fatal infantile, due to cytochrome c oxidase deficiency 2, 615119 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, recessive intermediate D, 616039 (3), Autosomal recessive
 Cerebellar ataxia, 604290 (3), Autosomal recessive; Hemosiderosis, systemic, due to aceruloplasminemia 1, 604290 (3), Autosomal recessive
 Joubert syndrome 17, 614615 (3), Autosomal recessive; Orofaciodigital syndrome VI, 277170 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 63, 617976 (3), Autosomal recessive
 Coproporphyrria, 121300 (3), Autosomal dominant; Harderoporphyria, 121300 (3), Autosomal dominant
 CPT deficiency, hepatic, type IA, 255120 (3), Autosomal recessive

?Spastic paraplegia 73, autosomal dominant, 616282 (3), Autosomal dominant

Mental retardation, autosomal recessive 34, with variant lissencephaly, 614499 (3), Autosomal recessive

?Neurodegeneration with brain iron accumulation 8, 617917 (3), Autosomal recessive

Leber congenital amaurosis 8, 613835 (3), Autosomal recessive; Pigmented paravenous chorioretinal atrophy 1, 613835 (3), Autosomal recessive

Mental retardation, autosomal recessive 2, 607417 (3), Autosomal recessive

Menke-Hennekam syndrome 1, 618332 (3); Rubinstein-Taybi syndrome 1, 180849 (3), Autosomal dominant

Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 7, 614643 (3), Autosomal recessive

Cardiomyopathy, dilated, 1II, 615184 (3), Autosomal dominant; Cataract 16, multiple types, 613763 (3), Autosomal dominant

Brain abnormalities, neurodegeneration, and dysosteosclerosis, 618476 (3), Autosomal recessive; Leukoencephalopathy with brain iron accumulation and neurodegeneration 1, 618476 (3), Autosomal recessive

Okur-Chung neurodevelopmental syndrome, 617062 (3), Autosomal dominant

Joubert syndrome 21, 615636 (3), Autosomal recessive

Epilepsy, progressive myoclonic 1A (Unverricht and Lundborg), 254800 (3), Autosomal recessive

Hypotonia, ataxia, developmental delay, and tooth enamel defect syndrome, 617915 (3), Autosomal dominant

Cerebroretinal microangiopathy with calcifications and cysts, 612199 (3), Autosomal recessive

Congenital cataracts, facial dysmorphism, and neuropathy, 604168 (3), Autosomal recessive

Cystathioninuria, 219500 (3), Autosomal recessive; Homocysteine, total plasma, elevated (3)

Autoimmune lymphoproliferative syndrome, type V, 616100 (3), Autosomal dominant; {Celiac disease, susceptibility to 1, 616100 (3), Autosomal dominant

Cortical dysplasia, complex, with other brain malformations 9, 618174 (3), Autosomal recessive

Colorectal cancer, somatic, 114500 (3); Exudative vitreoretinopathy 7, 617572 (3), Autosomal dominant; Hirschsprung disease 1, 617572 (3), Autosomal dominant

Ceroid lipofuscinosis, neuronal, 10, 610127 (3), Autosomal recessive

Ceroid lipofuscinosis, neuronal, 13, Kufs type, 615362 (3), Autosomal recessive

Mental retardation, X-linked, syndromic 15 (Cabezas type), 300354 (3), X-linked recessive

Epileptic encephalopathy, early infantile, 67, 618141 (3), Autosomal dominant

Spinocerebellar ataxia, autosomal recessive 17, 616127 (3), Autosomal recessive

Myelokathexis, isolated (3); WHIM syndrome, 193670 (3), Autosomal dominant

NA

Methemoglobinemia and ambiguous genitalia, 250790 (3), Autosomal recessive

Methemoglobinemia, type I, 250800 (3), Autosomal recessive; Methemoglobinemia, type II, 250800 (3), Autosomal recessive

Epileptic encephalopathy, early infantile, 65, 618008 (3), Autosomal dominant

Anterior segment dysgenesis 6, multiple subtypes, 617315 (3); Glaucoma 3A, primary open angle, congenital, 617315 (3), Autosomal dominant

Cerebrotendinous xanthomatosis, 213700 (3), Autosomal recessive

Vitamin D-dependent rickets, type I, 264700 (3), Autosomal recessive

Rickets due to defect in vitamin D 25-hydroxylation, 600081 (3), Autosomal recessive

Spastic paraplegia 56, autosomal recessive, 615030 (3), Autosomal recessive

Bile acid synthesis defect, congenital, 3, 613812 (3), Autosomal recessive; Spastic paraplegia 5A, autosomal dominant, 613812 (3), Autosomal dominant

D-2-hydroxyglutaric aciduria, 600721 (3), Autosomal recessive

Spinocerebellar ataxia 37, 615945 (3), Autosomal dominant

Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 9, 616538 (3), Autosomal recessive

Hypomyelination with brainstem and spinal cord involvement and leg spasticity, 615281 (3), Autosomal recessive

Leukoencephalopathy with brain stem and spinal cord involvement and lactate elevation, 611105 (3), Autosomal recessive

Orthostatic hypotension 1, due to DBH deficiency, 223360 (3), Autosomal recessive

Woodhouse-Sakati syndrome, 241080 (3), Autosomal recessive

?Giant axonal neuropathy 2, autosomal dominant, 610100 (3), Autosomal dominant

Colorectal cancer, somatic, 114500 (3); Esophageal carcinoma, somatic, 133239 (3); Gaze palsy, familial, 133239 (3), Autosomal dominant

Al-Raqad syndrome, 616459 (3), Autosomal recessive

{Amyotrophic lateral sclerosis, susceptibility to}, 105400 (3), Autosomal recessive, Autosomal dominant; N
 Xeroderma pigmentosum, group E, DDB-negative subtype, 278740 (3), Autosomal recessive
 Aromatic L-amino acid decarboxylase deficiency, 608643 (3), Autosomal recessive
 Spastic paraplegia 28, autosomal recessive, 609340 (3), Autosomal recessive
 Spastic paraplegia 54, autosomal recessive, 615033 (3), Autosomal recessive
 ?Congenital disorder of glycosylation, type 1r, 614507 (3), Autosomal recessive
 Spondyloepimetaphyseal dysplasia, Shohat type, 602557 (3), Autosomal recessive
 Mental retardation, X-linked 102, 300958 (3), X-linked recessive, X-linked dominant
 ?Dyskinesia, seizures, and intellectual developmental disorder, 617171 (3), Autosomal recessive; Mental r
 Leukodystrophy, hypomyelinating, 18, 618404 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 49, 617281 (3), Autosomal recessive
 Cardiomyopathy, dilated, 1I, 604765 (3); Myopathy, myofibrillar, 1, 601419 (3), Autosomal recessive, Auto
 Mitochondrial DNA depletion syndrome 3 (hepatocerebral type), 251880 (3), Autosomal recessive; Portal h
 Smith-Lemli-Opitz syndrome, 270400 (3), Autosomal recessive
 ?Congenital disorder of glycosylation, type 1bb, 613861 (3), Autosomal recessive; Developmental delay ar
 Megaloblastic anemia due to dihydrofolate reductase deficiency, 613839 (3), Autosomal recessive
 46XY partial gonadal dysgenesis, with minifascicular neuropathy, 607080 (3); 46XY sex reversal 7, 23342
 Neurodevelopmental disorder with seizures and speech and walking impairment, 618480 (3), Autosomal r
 2-aminoadipic 2-oxoadipic aciduria, 204750 (3), Autosomal recessive; ?Charcot-Marie-Tooth disease, axo
 Neurodevelopmental disorder with severe motor impairment and absent language, 617804 (3), Autosomal
 NULL
 Dyskeratosis congenita, X-linked, 305000 (3), X-linked recessive
 Pyruvate dehydrogenase E2 deficiency, 245348 (3), Autosomal recessive
 Dihydrolipoamide dehydrogenase deficiency, 246900 (3), Autosomal recessive
 Mental retardation, X-linked 90, 300850 (3), X-linked recessive
 Paragangliomas 7, 618475 (3), Autosomal dominant
 Becker muscular dystrophy, 300376 (3), X-linked recessive; Cardiomyopathy, dilated, 3B, 302045 (3), X-li
 Myotonic dystrophy 1, 160900 (3), Autosomal dominant
 ?Deafness, autosomal dominant 71, 617605 (3), Autosomal dominant; ?Polyendocrine-polyneuropathy sy
 Progressive external ophthalmoplegia with mitochondrial DNA deletions, autosomal dominant 6, 615156 (3)
 Spinal muscular atrophy, distal, autosomal recessive, 5, 614881 (3), Autosomal recessive
 Muscular dystrophy, limb-girdle, autosomal dominant 1, 603511 (3), Autosomal dominant
 Hyperphenylalaninemia, mild, non-BH4-deficient, 617384 (3), Autosomal recessive
 3-methylglutaconic aciduria, type V, 610198 (3), Autosomal recessive
 Bone marrow failure syndrome 3, 617052 (3), Autosomal recessive
 ?Ataxia, combined cerebellar and peripheral, with hearing loss and diabetes mellitus, 616192 (3), Autosom
 Ceroid lipofuscinosis, neuronal, 4, Parry type, 162350 (3), Autosomal dominant
 Parkinson disease 19a, juvenile-onset, 615528 (3), Autosomal recessive; Parkinson disease 19b, early-on
 ?Mirror movements 3, 616059 (3), Autosomal recessive
 Systemic lupus erythematosus 16, 614420 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 31, 616346 (3), Autosomal dominant
 Encephalopathy, lethal, due to defective mitochondrial peroxisomal fission 1, 614388 (3), Autosomal reces
 Centronuclear myopathy 1, 160150 (3), Autosomal dominant; Charcot-Marie-Tooth disease, axonal type 2
 Cerebellar ataxia, deafness, and narcolepsy, autosomal dominant, 604121 (3), Autosomal dominant; Neur
 Acute myeloid leukemia, somatic, 601626 (3); Tatton-Brown-Rahman syndrome, 615879 (3), Autosomal d

Neurodevelopmental disorder with impaired intellectual development, hypotonia, and ataxia, 618292 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 23, 615859 (3), Autosomal recessive
 ?Fetal akinesia deformation sequence 3, 618389 (3); Myasthenic syndrome, congenital, 10, 254300 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Ij, 608093 (3), Autosomal recessive; Myasthenic syndrome, congenital, 10, 254300 (3), Autosomal recessive
 Coffin-Siris syndrome 7, 618027 (3), Autosomal dominant
 Developmental delay with short stature, dysmorphic facial features, and sparse hair, 616901 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Ie, 608799 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Iu, 615042 (3), Autosomal recessive
 Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 15, 612937 (3), Autosomal recessive
 Mental retardation, autosomal dominant 33, 616311 (3); {Ventricular fibrillation, paroxysmal familial, 2}, 616311 (3), Autosomal dominant
 Dihydropyrimidine dehydrogenase deficiency, 274270 (3), Autosomal recessive; 5-fluorouracil toxicity, 274270 (3), Autosomal recessive
 Dihydropyrimidinuria, 222748 (3), Autosomal recessive
 {Attention deficit-hyperactivity disorder}, 143465 (3), Autosomal dominant; Autonomic nervous system dysfunction, 143465 (3), Autosomal dominant
 Ehlers-Danlos syndrome, musculocontractural type 2, 615539 (3), Autosomal recessive
 Epidermolysis bullosa simplex, autosomal recessive 2, 615425 (3), Autosomal recessive; ?Neuropathy, hereditary, 615425 (3), Autosomal recessive
 Congenital anomalies of kidney and urinary tract 1, 610805 (3), Autosomal dominant; Spastic paraplegia 2, 610805 (3), Autosomal dominant
 Hypogonadotropic hypogonadism 19 with or without anosmia, 615269 (3), Autosomal dominant
 Dyggve-Melchior-Clausen disease, 223800 (3), Autosomal recessive; Smith-McCort dysplasia, 607326 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, axonal, type 20, 614228 (3), Autosomal dominant; Mental retardation, autosomal dominant 7, 614104 (3), Autosomal dominant
 Neurodevelopmental disorder with microcephaly and structural brain anomalies, 618492 (3), Autosomal recessive
 Mental retardation, autosomal dominant 7, 614104 (3), Autosomal dominant
 Miyoshi muscular dystrophy 1, 254130 (3), Autosomal recessive; Muscular dystrophy, limb-girdle, autosomal recessive 1, 254130 (3), Autosomal recessive
 Combined oxidative phosphorylation deficiency 12, 614924 (3), Autosomal recessive
 Hypotonia, ataxia, and delayed development syndrome, 617330 (3), Autosomal dominant
 Chondrodysplasia punctata, X-linked dominant, 302960 (3), X-linked dominant; MEND syndrome, 300960 (3), X-linked dominant
 Mitochondrial short-chain enoyl-CoA hydratase 1 deficiency, 616277 (3), Autosomal recessive
 Urbach-Wiethe disease, 247100 (3), Autosomal recessive
 ?Mental retardation, autosomal recessive 50, 616460 (3), Autosomal recessive
 ABCD syndrome, 600501 (3), Autosomal recessive; {Hirschsprung disease, susceptibility to, 2}, 600155 (3), Autosomal recessive
 Cohen-Gibson syndrome, 617561 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 33, 616409 (3), Autosomal dominant; Mental retardation, autosomal dominant 7, 614104 (3), Autosomal dominant
 ?Spinocerebellar ataxia 26, 609306 (3), Autosomal dominant
 Shwachman-Diamond syndrome 2, 617941 (3), Autosomal recessive
 Hypomagnesemia 4, renal, 611718 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, type 1D, 607678 (3), Autosomal dominant; Dejerine-Sottas disease, 145900 (3), Autosomal dominant
 Kleefstra syndrome 1, 610253 (3), Autosomal dominant
 Wolcott-Rallison syndrome, 226980 (3), Autosomal recessive
 Leukoencephalopathy with vanishing white matter, 603896 (3), Autosomal recessive
 Leukoencephalopathy with vanishing white matter, 603896 (3), Autosomal recessive; Ovarioleukodystrophy, 603896 (3), Autosomal recessive
 Leukoencephalopathy with vanishing white matter, 603896 (3), Autosomal recessive
 Leukoencephalopathy with vanishing white matter, 603896 (3), Autosomal recessive; Ovarioleukodystrophy, 603896 (3), Autosomal recessive
 Leukoencephalopathy with vanishing white matter, 603896 (3), Autosomal recessive; Ovarioleukodystrophy, 603896 (3), Autosomal recessive
 MEHMO syndrome, 300148 (3), X-linked recessive
 Cutis laxa, autosomal dominant, 123700 (3), Autosomal dominant; Supravalvar aortic stenosis, 185500 (3), Autosomal dominant
 Ichthyotic keratoderma, spasticity, hypomyelination, and dysmorphic facies, 618527 (3), Autosomal dominant

Ichthyosis, spastic quadriplegia, and mental retardation, 614457 (3), Autosomal recessive; Spinocerebellar
 Spinocerebellar ataxia 38, 615957 (3), Autosomal dominant
 Dysautonomia, familial, 223900 (3), Autosomal recessive
 Mental retardation, autosomal recessive 58, 617270 (3), Autosomal recessive
 Cerebellar atrophy, visual impairment, and psychomotor retardation, 616875 (3), Autosomal recessive
 Emery-Dreifuss muscular dystrophy 1, X-linked, 310300 (3), X-linked recessive
 Arterial calcification, generalized, of infancy, 1, 208000 (3), Autosomal recessive; Cole disease, 615522 (3)
 Spastic paraplegia 64, autosomal recessive, 615683 (3), Autosomal recessive
 Colorectal cancer, somatic, 114500 (3); Menke-Hennekam syndrome 2, 618333 (3); Rubinstein-Taybi syndrome
 Erythrocytosis, familial, 4, 611783 (3)
 Colorectal cancer, hereditary nonpolyposis, type 8, 613244 (3); Diarrhea 5, with tufting enteropathy, congenital
 Vici syndrome, 242840 (3), Autosomal recessive
 Epilepsy, progressive myoclonic 2A (Lafora), 254780 (3), Autosomal recessive
 Leukodystrophy, hypomyelinating, 15, 617951 (3), Autosomal recessive
 {?Erythroleukemia, familial, susceptibility to}, 133180 (3), Autosomal dominant; ?Lethal congenital contracture
 Amyotrophic lateral sclerosis 19, 615515 (3), Autosomal dominant
 Cerebrooculofacioskeletal syndrome 4, 610758 (3), Autosomal recessive
 ?Cerebrooculofacioskeletal syndrome 2, 610756 (3), Autosomal recessive; Trichothiodystrophy 1, photosensitive
 Trichothiodystrophy 2, photosensitive, 616390 (3), Autosomal recessive; Xeroderma pigmentosum, group C
 Fanconi anemia, complementation group Q, 615272 (3), Autosomal recessive; XFE progeroid syndrome, 615272 (3)
 Cerebrooculofacioskeletal syndrome 3, 616570 (3), Autosomal recessive; Xeroderma pigmentosum, group D
 Cerebrooculofacioskeletal syndrome 1, 214150 (3), Autosomal recessive; Cockayne syndrome, type B, 133700 (3)
 Cockayne syndrome, type A, 216400 (3), Autosomal recessive; UV-sensitive syndrome 2, 614621 (3), Autosomal recessive
 Spastic paraplegia 62, 615681 (3), Autosomal recessive
 Spastic paraplegia 18, autosomal recessive, 611225 (3), Autosomal recessive
 ?Periventricular nodular heterotopia 6, 615544 (3), Autosomal dominant
 Ethylmalonic encephalopathy, 602473 (3), Autosomal recessive
 Pontocerebellar hypoplasia, type 1B, 614678 (3), Autosomal recessive
 Pontocerebellar hypoplasia, type 1D, 618065 (3), Autosomal recessive
 Chondrosarcoma, 215300 (3), Autosomal recessive; Exostoses, multiple, type 1, 133700 (3), Autosomal dominant
 Exostoses, multiple, type 2, 133701 (3), Autosomal dominant; Seizures, scoliosis, and macrocephaly syndrome
 Immunoskeletal dysplasia with neurodevelopmental abnormalities, 617425 (3), Autosomal recessive
 Anterior segment anomalies with or without cataract, 602588 (3), Autosomal dominant; Branchiootoc syndrome
 Spastic paraplegia 35, autosomal recessive, 612319 (3), Autosomal recessive
 Tyrosinemia, type I, 276700 (3), Autosomal recessive
 Leukodystrophy, hypomyelinating, 5, 610532 (3), Autosomal recessive
 NULL
 Interstitial nephritis, karyomegalic, 614817 (3), Autosomal recessive
 Fanconi anemia, complementation group A, 227650 (3), Autosomal recessive
 Fanconi anemia, complementation group B, 300514 (3), X-linked recessive
 Fanconi anemia, complementation group C, 227645 (3), Autosomal recessive
 Fanconi anemia, complementation group D2, 227646 (3), Autosomal recessive
 Fanconi anemia, complementation group E, 600901 (3), Autosomal recessive
 Fanconi anemia, complementation group F, 603467 (3)
 Fanconi anemia, complementation group G, 614082 (3)

Fanconi anemia, complementation group I, 609053 (3), Autosomal recessive
 Fanconi anemia, complementation group L, 614083 (3), Autosomal recessive
 ?Premature ovarian failure 15, 618096 (3), Autosomal recessive; Spermatogenic failure 28, 618086 (3), Autosomal recessive
 Peroxisomal fatty acyl-CoA reductase 1 disorder, 616154 (3), Autosomal recessive
 Combined oxidative phosphorylation deficiency 14, 614946 (3), Autosomal recessive; Spastic paraplegia 7
 Autoimmune lymphoproliferative syndrome, type IA, 601859 (3), Autosomal dominant; {Autoimmune lymphoproliferative syndrome, type IB, 601860 (3), Autosomal dominant
 Spinocerebellar ataxia 45, 617769 (3), Autosomal dominant
 Synpolydactyly, 3/3'4, associated with metacarpal and metatarsal synostoses, 608180 (4), Autosomal dominant
 ?Cutis laxa, autosomal dominant 2, 614434 (3), Autosomal dominant; Cutis laxa, autosomal recessive, type 1, 614435 (3), Autosomal recessive
 Acromicric dysplasia, 102370 (3), Autosomal dominant; Ectopia lentis, familial, 129600 (3), Autosomal dominant
 Mitochondrial DNA depletion syndrome 13 (encephalomyopathic type), 615471 (3), Autosomal recessive
 Intellectual developmental disorder with dysmorphic facies and behavioral abnormalities, 618089 (3), Autosomal recessive
 ?Mental retardation, autosomal recessive 45, 615979 (3), Autosomal recessive
 Neuronopathy, distal hereditary motor, type IID, 615575 (3), Autosomal dominant
 Parkinson disease 15, autosomal recessive, 260300 (3), Autosomal recessive
 Congenital disorder of glycosylation with defective fucosylation 2, 618324 (3), Autosomal recessive
 Mitochondrial myopathy, episodic, with optic atrophy and reversible leukoencephalopathy, 251900 (3), Autosomal recessive
 Hypogonadotropic hypogonadism 22, with or without anosmia, 616030 (3), Autosomal recessive
 Aarskog-Scott syndrome, 305400 (3), X-linked recessive; Mental retardation, X-linked syndromic 16, 305401 (3), X-linked recessive
 Charcot-Marie-Tooth disease, type 4H, 609311 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 47, 617166 (3), Autosomal dominant
 Spinocerebellar ataxia 27, 609307 (3), Autosomal dominant
 Hypogonadotropic hypogonadism 20 with or without anosmia, 615270 (3), Autosomal dominant
 Hypogonadotropic hypogonadism 6 with or without anosmia, 612702 (3), Autosomal dominant
 Encephalocraniocutaneous lipomatosis, somatic mosaic, 613001 (3); Hartsfield syndrome, 615465 (3), Autosomal dominant
 Antley-Bixler syndrome without genital anomalies or disordered steroidogenesis, 207410 (3), Autosomal dominant
 Achondroplasia, 100800 (3), Autosomal dominant; Bladder cancer, somatic, 109800 (3); CATSHL syndrome, 615466 (3), Autosomal dominant
 Fumarate deficiency, 606812 (3), Autosomal recessive; Leiomyomatosis and renal cell cancer, 150800 (3), Autosomal dominant
 Emery-Dreifuss muscular dystrophy 6, X-linked, 300696 (3), X-linked recessive; Myopathy, X-linked, with periodic paralysis, 300697 (3), X-linked recessive
 Amyotrophic lateral sclerosis 11, 612577 (3), Autosomal dominant; Charcot-Marie-Tooth disease, type 4J, 612578 (3), Autosomal dominant
 Bruck syndrome 1, 259450 (3), Autosomal recessive; Osteogenesis imperfecta, type XI, 610968 (3), Autosomal recessive
 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 5, 613153 (3), Autosomal recessive
 Cardiomyopathy, dilated, 1X, 611615 (3), Autosomal recessive; Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type B, 613154 (3), Autosomal recessive
 Bleeding disorder, platelet-type, 21, 617443 (3), Autosomal recessive, Autosomal dominant
 Cardiac valvular dysplasia, X-linked, 314400 (3), X-linked; Congenital short bowel syndrome, 300048 (3), Autosomal recessive
 Cardiomyopathy, familial hypertrophic, 26 (3); Cardiomyopathy, familial restrictive 5, 617047 (3), Autosomal recessive
 Hypogonadotropic hypogonadism 21 with anosmia, 615271 (3), Autosomal dominant
 Ataxia, posterior column, with retinitis pigmentosa, 609033 (3), Autosomal recessive
 Proliferative vasculopathy and hydranencephaly-hydrocephaly syndrome, 225790 (3), Autosomal recessive
 Mental retardation, autosomal recessive 47, 616193 (3), Autosomal recessive
 Glomerulopathy with fibronectin deposits 2, 601894 (3), Autosomal dominant; Plasma fibronectin deficiency, 601895 (3), Autosomal dominant
 Neurodegeneration due to cerebral folate transport deficiency, 613068 (3), Autosomal recessive
 Rett syndrome, congenital variant, 613454 (3), Autosomal dominant
 Mental retardation with language impairment and with or without autistic features, 613670 (3), Autosomal recessive
 Mitochondrial complex I deficiency, nuclear type 19, 618241 (3), Autosomal recessive

Mental retardation, X-linked 104, 300983 (3), X-linked
 Epileptic encephalopathy, early infantile, 37, 616981 (3), Autosomal recessive
 Hyperferritinemia-cataract syndrome, 600886 (3), Autosomal dominant; L-ferritin deficiency, dominant and
 Mental retardation, X-linked 9/44, 309549 (3), X-linked recessive
 Fucosidosis, 230000 (3), Autosomal recessive
 Amyotrophic lateral sclerosis 6, with or without frontotemporal dementia, 608030 (3); Essential tremor, hereditary
 NULL
 Glycogen storage disease II, 232300 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 59, 617904 (3), Autosomal dominant; Neurodevelopmental disorder
 {Epilepsy, childhood absence, susceptibility to, 4}, 611136 (3); {Epilepsy, juvenile myoclonic, susceptibility to, 1}, 611136 (3); {Alcohol dependence, susceptibility to}, 103780 (3), Multifactorial; Epileptic encephalopathy, early infantile
 Epileptic encephalopathy, early infantile, 79, 618559 (3), Autosomal dominant
 Epileptic encephalopathy, infantile or early childhood, 2, 617829 (3), Autosomal dominant
 {Epilepsy, childhood absence, susceptibility to, 5}, 612269 (3); Epileptic encephalopathy, early infantile, 43, 612269 (3)
 Epilepsy, generalized, with febrile seizures plus, type 3, 607681 (3), Autosomal dominant; Epileptic encephalopathy, early infantile
 ?Cerebral palsy, spastic quadriplegic, 1, 603513 (3), Autosomal recessive
 Krabbe disease, 245200 (3), Autosomal recessive
 Galactosemia, 230400 (3), Autosomal recessive
 Cerebral creatine deficiency syndrome 2, 612736 (3), Autosomal recessive
 Giant axonal neuropathy-1, 256850 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, type 2D, 601472 (3), Autosomal dominant; Neuropathy, distal hereditary motor and sensory
 Mental retardation, autosomal dominant 18, 615074 (3), Autosomal dominant
 Gaucher disease, perinatal lethal, 608013 (3), Autosomal recessive; Gaucher disease, type I, 230800 (3), Autosomal recessive
 Spastic paraplegia 46, autosomal recessive, 614409 (3), Autosomal recessive
 Glycogen storage disease IV, 232500 (3), Autosomal recessive; Polyglucosan body disease, adult form, 232500 (3), Autosomal recessive
 Glutaricaciduria, type I, 231670 (3), Autosomal recessive
 Dystonia, DOPA-responsive, with or without hyperphenylalaninemia, 128230 (3), Autosomal recessive, Autosomal dominant
 Hemolytic anemia due to gamma-glutamylcysteine synthetase deficiency, 230450 (3), Autosomal recessive
 ?Glycine encephalopathy, 605899 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, axonal, type 2K, 607831 (3), Autosomal recessive, Autosomal dominant; Charcot-Marie-Tooth disease, axonal, type 2K, 607831 (3), Autosomal recessive, Autosomal dominant
 Spinocerebellar ataxia, autosomal recessive 27, 618369 (3), Autosomal recessive
 Klippel-Feil syndrome 1, autosomal dominant, 118100 (3), Autosomal dominant; Leber congenital amaurosis 1, autosomal recessive, 118100 (3), Autosomal dominant
 Mental retardation, X-linked 41, 300849 (3), X-linked dominant
 Neurodevelopmental disorder with microcephaly, cataracts, and renal abnormalities, 617913 (3), Autosomal dominant
 Alexander disease, 203450 (3), Autosomal dominant
 Myopathy, mitochondrial progressive, with congenital cataract, hearing loss, and developmental delay, 613480 (3), Autosomal recessive
 Combined oxidative phosphorylation deficiency 1, 609060 (3), Autosomal recessive
 Combined oxidative phosphorylation deficiency 39, 618397 (3), Autosomal recessive
 Myasthenia, congenital, 12, with tubular aggregates, 610542 (3), Autosomal recessive
 ?Glutathioninuria, 231950 (3), Autosomal recessive
 Atrioventricular septal defect 3, 600309 (3), Autosomal dominant; Craniometaphyseal dysplasia, autosomal dominant
 Charcot-Marie-Tooth neuropathy, X-linked dominant, 1, 302800 (3), X-linked dominant
 Bart-Pumphrey syndrome, 149200 (3), Autosomal dominant; Deafness, autosomal dominant 3A, 601544 (3), Autosomal dominant
 Deafness, autosomal dominant 3B, 612643 (3), Autosomal dominant; Deafness, autosomal recessive 1B, 612643 (3), Autosomal recessive
 Leukodystrophy, hypomyelinating, 2, 608804 (3), Autosomal recessive; Lymphatic malformation 3, 613480 (3), Autosomal recessive

Glycerol kinase deficiency, 307030 (3), X-linked recessive
 Fabry disease, 301500 (3), X-linked; Fabry disease, cardiac variant, 301500 (3), X-linked
 GM1-gangliosidosis, type I, 230500 (3), Autosomal recessive; GM1-gangliosidosis, type II, 230600 (3), Au
 Glycine encephalopathy, 605899 (3), Autosomal recessive
 Congenital arthrogryposis with anterior horn cell disease, 611890 (3), Autosomal recessive; Lethal congen
 Hyperekplexia 1, 149400 (3), Autosomal recessive, Autosomal dominant
 Hyperekplexia 2, 614619 (3), Autosomal recessive
 Anemia, sideroblastic, 3, pyridoxine-refractory, 616860 (3), Autosomal recessive; Spasticity, childhood-on
 Hyperinsulinism-hyperammonemia syndrome, 606762 (3), Autosomal dominant
 Glutamine deficiency, congenital, 610015 (3), Autosomal recessive
 D-glyceric aciduria, 220120 (3), Autosomal recessive
 GM2-gangliosidosis, AB variant, 272750 (3), Autosomal recessive
 Alacrima, achalasia, and mental retardation syndrome, 615510 (3), Autosomal recessive
 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 14, 615350 (3)
 Hypocalcemia, autosomal dominant 2, 615361 (3), Autosomal dominant; Hypocalciuric hypercalcemia, typ
 Dystonia 25, 615073 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 17, 615473 (3), Autosomal dominant; Neurodevelopmental disor
 ACTH-independent macronodular adrenal hyperplasia, 219080 (3), Somatic mutation; McCune-Albright sy
 Leukemia, acute lymphoblastic, somatic, 613065 (3); Mental retardation, autosomal dominant 42, 616973
 Charcot-Marie-Tooth disease, dominant intermediate F, 615185 (3), Autosomal dominant
 Intellectual developmental disorder with cardiac arrhythmia, 617173 (3), Autosomal recessive; Language c
 Nonaka myopathy, 605820 (3), Autosomal recessive; Sialuria, 269921 (3), Autosomal dominant
 Mucopolidosis II alpha/beta, 252500 (3), Autosomal recessive; Mucopolidosis III alpha/beta, 252600 (3), Au
 Mucopolysaccharidosis type IIID, 252940 (3), Autosomal recessive
 Epilepsy, progressive myoclonic 6, 614018 (3), Autosomal recessive
 NULL
 Bernard-Soulier syndrome, type A1 (recessive), 231200 (3), Autosomal recessive; Bernard-Soulier syndro
 Bernard-Soulier syndrome, type B, 231200 (3), Autosomal recessive; Giant platelet disorder, isolated, 231
 Glycosylphosphatidylinositol biosynthesis defect 15, 617810 (3), Autosomal recessive
 Molybdenum cofactor deficiency C, 615501 (3), Autosomal recessive
 Hemolytic anemia, nonspherocytic, due to glucose phosphate isomerase deficiency, 613470 (3), Autosom
 ?Chorea, childhood-onset, with psychomotor retardation, 616939 (3), Autosomal recessive
 Mental retardation, autosomal recessive 49, 616281 (3), Autosomal recessive
 Mental retardation, X-linked 94, 300699 (3), X-linked recessive
 Neurodevelopmental disorder with or without seizures and gait abnormalities, 617864 (3), Autosomal dom
 Spinocerebellar ataxia, autosomal recessive 18, 616204 (3), Autosomal recessive
 Mental retardation, autosomal recessive, 6, 611092 (3), Autosomal recessive
 Neurodevelopmental disorder with or without hyperkinetic movements and seizures, autosomal dominant,
 Epilepsy, focal, with speech disorder and with or without mental retardation, 245570 (3), Autosomal domin
 Epileptic encephalopathy, early infantile, 27, 616139 (3), Autosomal dominant; Mental retardation, autosom
 Epileptic encephalopathy, early infantile, 46, 617162 (3), Autosomal dominant
 Spinocerebellar ataxia 44, 617691 (3), Autosomal dominant; Spinocerebellar ataxia, autosomal recessive
 Aphasia, primary progressive, 607485 (3), Autosomal dominant; Ceroid lipofuscinosis, neuronal, 11, 6147
 Amyloidosis, Finnish type, 105120 (3), Autosomal dominant
 Glutathione synthetase deficiency, 266130 (3), Autosomal recessive; Hemolytic anemia due to glutathione

Trichothiodystrophy 6, nonphotosensitive, 616943 (3), Autosomal recessive
 Trichothiodystrophy 3, photosensitive, 616395 (3)
 Jaber-Elahi syndrome, 617988 (3), Autosomal recessive
 Combined oxidative phosphorylation deficiency 23, 616198 (3), Autosomal recessive
 Mucopolysaccharidosis VII, 253220 (3), Autosomal recessive
 ?Glycogen storage disease XV, 613507 (3), Autosomal recessive; Polyglucosan body myopathy 2, 616199 (3), Autosomal recessive
 Spastic paraplegia and psychomotor retardation with or without seizures, 616756 (3), Autosomal recessive
 3-hydroxyacyl-CoA dehydrogenase deficiency, 231530 (3), Autosomal recessive; Hyperinsulinemic hypoglycemia 1, 616756 (3), Autosomal recessive
 Fatty liver, acute, of pregnancy, 609016 (3), Autosomal recessive; HELLP syndrome, maternal, of pregnancy, 609016 (3), Autosomal recessive
 Trifunctional protein deficiency, 609015 (3), Autosomal recessive
 [Histidinemia], 235800 (3), Autosomal recessive, Autosomal dominant
 Charcot-Marie-Tooth disease, axonal, type 2W, 616625 (3), Autosomal dominant; Usher syndrome type 3B, 616625 (3), Autosomal dominant
 Mental retardation, X-linked 3 (methylmalonic acidemia and homocysteinemia, cblX type), 309541 (3), X-linked recessive
 Epileptic encephalopathy, early infantile, 24, 615871 (3), Autosomal dominant; Generalized epilepsy with febrile seizures plus 1, 615871 (3), Autosomal dominant
 NULL
 Cornelia de Lange syndrome 5, 300882 (3), X-linked dominant
 {Gilles de la Tourette syndrome, susceptibility to}, 137580 (3), Autosomal dominant
 Neurodevelopmental disorder with hypotonia, seizures, and absent language, 617268 (3), Autosomal dominant
 Macrocephaly, dysmorphic facies, and psychomotor retardation, 617011 (3), Autosomal recessive
 Mental retardation, autosomal recessive 38, 615516 (3), Autosomal recessive; [Skin/hair/eye pigmentation], 615516 (3), Autosomal recessive
 Growth hormone deficiency with pituitary anomalies, 182230 (3), Autosomal recessive, Autosomal dominant
 Sandhoff disease, infantile, juvenile, and adult forms, 268800 (3), Autosomal recessive
 {Alzheimer disease, susceptibility to}, 104300 (3), Autosomal dominant; Hemochromatosis, 235200 (3), Autosomal recessive
 Mucopolysaccharidosis type IIIC (Sanfilippo C), 252930 (3), Autosomal recessive; Retinitis pigmentosa 73, 252930 (3), Autosomal recessive
 3-hydroxyisobutryl-CoA hydrolase deficiency, 250620 (3), Autosomal recessive
 Leukodystrophy, hypomyelinating, 13, 616881 (3), Autosomal recessive
 Neuromyotonia and axonal neuropathy, autosomal recessive, 137200 (3), Autosomal recessive
 Mental retardation, autosomal dominant 43, 616977 (3), Autosomal dominant
 Hemolytic anemia due to hexokinase deficiency, 235700 (3), Autosomal recessive; Neurodevelopmental disorder with autistic features, 235700 (3), Autosomal recessive
 Porphyria, acute intermittent, 176000 (3), Autosomal dominant; Porphyria, acute intermittent, nonerythroid, 176000 (3), Autosomal dominant
 HMG-CoA lyase deficiency, 246450 (3), Autosomal recessive
 {Diabetes mellitus, noninsulin-dependent}, 125853 (3), Autosomal dominant; Fanconi renal tubular syndrome, 125853 (3), Autosomal dominant
 {Asthma, susceptibility to}, 600807 (3), Autosomal dominant; Mental retardation, autosomal recessive 51, 600807 (3), Autosomal recessive
 Amyotrophic lateral sclerosis 20, 615426 (3), Autosomal dominant; ?Inclusion body myopathy with early-onset scoliosis, 615426 (3), Autosomal dominant
 ?Inclusion body myopathy with early-onset Paget disease with or without frontotemporal dementia 2, 615426 (3), Autosomal dominant
 Muscular dystrophy, limb-girdle, autosomal dominant 3, 609115 (3), Autosomal dominant
 Mental retardation, X-linked, syndromic, Bain type, 300986 (3), X-linked dominant
 Microtia with or without hearing impairment (AD), 612290 (3), Autosomal recessive, Autosomal dominant; Microtia with or without hearing impairment (AR), 612290 (3), Autosomal recessive
 Dystonia 2, torsion, autosomal recessive, 224500 (3), Autosomal recessive
 Cranioosteoarthropathy, 259100 (3), Autosomal recessive; Digital clubbing, isolated congenital, 119900 (3), Autosomal recessive
 HPRT-related gout, 300323 (3), X-linked recessive; Lesch-Nyhan syndrome, 300322 (3), X-linked recessive
 Bladder cancer, somatic, 109800 (3); Congenital myopathy with excess of muscle spindles, 218040 (3), Autosomal recessive
 {Hypogonadotropic hypogonadism 15 with or without anosmia}, 614880 (3), Autosomal dominant
 HSD10 mitochondrial disease, 300438 (3), X-linked dominant
 D-bifunctional protein deficiency, 261515 (3), Autosomal recessive; Perrault syndrome 1, 233400 (3), Autosomal recessive

Bile acid synthesis defect, congenital, 1, 607765 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, axonal, type 2F, 606595 (3), Autosomal dominant; Neuropathy, distal hereditary
 ?Neuronopathy, distal hereditary motor, type IIC, 613376 (3), Autosomal dominant
 Charcot-Marie-Tooth disease, axonal, type 2L, 608673 (3), Autosomal dominant; Neuropathy, distal hereditary
 Leukodystrophy, hypomyelinating, 4, 612233 (3), Autosomal recessive; Spastic paraplegia 13, autosomal
 Dyssegmental dysplasia, Silverman-Handmaker type, 224410 (3), Autosomal recessive; Schwartz-Jampel
 CARASIL syndrome, 600142 (3), Autosomal recessive; Cerebral arteriopathy, autosomal dominant, with s
 3-methylglutaconic aciduria, type VIII, 617248 (3), Autosomal recessive; {Parkinson disease 13}, 610297 (3)
 Mental retardation, X-linked syndromic, Turner type, 309590 (3), X-linked
 Hydroletharus syndrome, 236680 (3), Autosomal recessive
 ?Cataracts, growth hormone deficiency, sensory neuropathy, sensorineural hearing loss, and skeletal dysplasia
 Multiple mitochondrial dysfunctions syndrome 3, 615330 (3), Autosomal recessive; ?Spastic paraplegia 74
 D-2-hydroxyglutaric aciduria 2, 613657 (3)
 Mucopolysaccharidosis II, 309900 (3), X-linked recessive
 Mucopolysaccharidosis Ih, 607014 (3), Autosomal recessive; Mucopolysaccharidosis Ih/s, 607015 (3), Autosomal recessive
 Microcephaly, epilepsy, and diabetes syndrome, 614231 (3), Autosomal recessive
 Aicardi-Goutieres syndrome 7, 615846 (3), Autosomal dominant; Singleton-Merten syndrome 1, 182250 (3)
 Retinitis pigmentosa 80, 617781 (3), Autosomal recessive; Short-rib thoracic dysplasia 9 with or without polydactyly
 Retinitis pigmentosa 71, 616394 (3), Autosomal recessive; Short-rib thoracic dysplasia 10 with or without polydactyly
 Growth retardation with deafness and mental retardation due to IGF1 deficiency, 608747 (3), Autosomal recessive
 ?Growth restriction, severe, with distinctive facies, 616489 (3), Autosomal dominant
 Charcot-Marie-Tooth disease, axonal, type 2S, 616155 (3), Autosomal recessive; Neuronopathy, distal hereditary
 Ectodermal dysplasia and immunodeficiency 1, 300291 (3); Ectodermal, dysplasia, anhidrotic, lymphedema
 Hypogonadotropic hypogonadism 18 with or without anosmia, 615267 (3), Autosomal recessive, Autosomal dominant
 Mental retardation, X-linked 21/34, 300143 (3), X-linked recessive
 Charcot-Marie-Tooth disease, dominant intermediate E, 614455 (3), Autosomal dominant; Glomerulosclerosis
 Joubert syndrome 1, 213300 (3), Autosomal recessive; Mental retardation, truncal obesity, retinal dystrophy
 Muscular dystrophy, congenital, with cataracts and intellectual disability, 617404 (3), Autosomal recessive
 Neurodevelopmental disorder with cataracts, poor growth, and dysmorphic facies, 618571 (3)
 ?Orofaciodigital syndrome XVII, 617926 (3), Autosomal recessive; ?Short-rib thoracic dysplasia 20 with polydactyly
 NULL
 Mental retardation, X-linked 1/78, 309530 (3), X-linked dominant
 ?Neurodegeneration, early-onset, with choreoathetoid movements and microcytic anemia, 618451 (3), Autosomal recessive
 Neurodevelopmental disorder with regression, abnormal movements, loss of speech, and seizures, 618080 (3)
 Multiple mitochondrial dysfunctions syndrome 5, 617613 (3), Autosomal recessive
 Multiple mitochondrial dysfunctions syndrome 4, 616370 (3), Autosomal recessive
 ?Glycoprotein Ia deficiency, 614200 (1), Autosomal dominant
 Bleeding disorder, platelet-type, 16, autosomal dominant, 187800 (3), Autosomal dominant; Glanzmann thrombasthenia
 Muscular dystrophy, congenital, due to ITGA7 deficiency, 613204 (3), Autosomal recessive
 Dementia, familial British, 176500 (3), Autosomal dominant; Dementia, familial Danish, 117300 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 35, 616647 (3), Autosomal recessive; [Inosine triphosphatase deficiency]
 Gillespie syndrome, 206700 (3), Autosomal recessive, Autosomal dominant; Spinocerebellar ataxia 15, 600500 (3)
 Alagille syndrome 1, 118450 (3), Autosomal dominant; ?Deafness, congenital heart defects, and posterior
 NULL
 Hemorrhagic destruction of the brain, subependymal calcification, and cataracts, 613730 (3), Autosomal recessive

?Charcot-Marie-Tooth disease, axonal, autosomal dominant, type 2K, 607831 (3), Autosomal recessive, A
 Huntington disease-like 2, 606438 (3), Autosomal dominant
 Cerebral palsy, spastic quadriplegic, 2, 612900 (3)
 Koolen-De Vries syndrome, 610443 (3), Autosomal dominant
 ?Charcot-Marie-Tooth disease, recessive intermediate, B, 613641 (3), Autosomal recessive; Deafness, au
 Mental retardation, autosomal dominant 32, 616268 (3), Autosomal dominant
 Lissencephaly 6, with microcephaly, 616212 (3), Autosomal recessive
 Nemaline myopathy 6, autosomal dominant, 609273 (3), Autosomal dominant
 Episodic ataxia/myokymia syndrome, 160120 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 32, 616366 (3), Autosomal dominant
 Microcephaly, cataracts, impaired intellectual development, and dystonia with abnormal striatum, 618284 (3)
 Epileptic encephalopathy, early infantile, 26, 616056 (3), Autosomal dominant
 Epilepsy, progressive myoclonic 7, 616187 (3), Autosomal dominant
 Spinocerebellar ataxia 13, 605259 (3), Autosomal dominant
 Brugada syndrome 9, 616399 (3), Autosomal dominant; Spinocerebellar ataxia 19, 607346 (3), Autosomal dominant
 Bartter syndrome, type 2, 241200 (3), Autosomal recessive
 Enlarged vestibular aqueduct, digenic, 600791 (3), Autosomal recessive; SESAME syndrome, 612780 (3), Autosomal recessive
 Keppen-Lubinsky syndrome, 614098 (3), Autosomal dominant
 Facial dysmorphism, hypertrichosis, epilepsy, intellectual/developmental delay, and gingival overgrowth syndrome, 612292 (3)
 Birk-Barel mental retardation dysmorphism syndrome, 612292 (3)
 Cerebellar atrophy, developmental delay, and seizures, 617643 (3), Autosomal recessive; {Epilepsy, idiopathic, 617643 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 7, 613720 (3), Autosomal dominant; Myokymia, 121200 (3), Autosomal dominant
 Seizures, benign neonatal, 2, 121201 (3), Autosomal dominant
 Mental retardation, autosomal dominant 46, 617601 (3), Autosomal dominant
 Epilepsy, nocturnal frontal lobe, 5, 615005 (3), Autosomal dominant; Epileptic encephalopathy, early infantile, 615005 (3), Autosomal dominant
 Dystonia 26, myoclonic, 616398 (3), Autosomal dominant
 Epilepsy, progressive myoclonic 3, with or without intracellular inclusions, 611726 (3), Autosomal recessive
 Cleft palate, psychomotor retardation, and distinctive facial features, 616728 (3), Autosomal dominant
 Mental retardation, autosomal recessive 65, 618109 (3), Autosomal recessive
 Mental retardation, X-linked, syndromic, Claes-Jensen type, 300534 (3), X-linked recessive
 Neurodevelopmental disorder with coarse facies and mild distal skeletal abnormalities, 618505 (3), Autosomal recessive
 Joubert syndrome 23, 616490 (3), Autosomal recessive; Short-rib thoracic dysplasia 14 with polydactyly, 616490 (3), Autosomal recessive
 ?Orofaciodigital syndrome XV, 617127 (3), Autosomal recessive
 Spastic paraplegia, intellectual disability, nystagmus, and obesity, 617296 (3), Autosomal dominant
 Microcephaly with or without chorioretinopathy, lymphedema, or mental retardation, 152950 (3), Autosomal dominant
 ?Meckel syndrome 12, 616258 (3), Autosomal recessive; Microcephaly 20, primary, autosomal recessive, 616258 (3), Autosomal recessive
 Mental retardation, autosomal dominant 9, 614255 (3), Autosomal dominant; Neuropathy, hereditary sensory, 614255 (3), Autosomal dominant
 ?Charcot-Marie-Tooth disease, type 2A1, 118210 (3), Autosomal dominant; {Neuroblastoma, susceptibility to, 118210 (3), Autosomal dominant
 Spastic ataxia 2, autosomal recessive, 611302 (3), Autosomal recessive
 {Amyotrophic lateral sclerosis, susceptibility to, 25}, 617921 (3), Autosomal dominant; Myoclonus, intractable, 617921 (3), Autosomal dominant
 Acrocallosal syndrome, 200990 (3), Autosomal recessive; ?Al-Gazali-Bakalinova syndrome, 607131 (3), Autosomal recessive
 Hypogonadotropic hypogonadism 8 with or without anosmia, 614837 (3), Autosomal recessive; ?Precocious puberty, 614837 (3), Autosomal recessive
 Spastic paraplegia, optic atrophy, and neuropathy, 609541 (3), Autosomal recessive
 Nemaline myopathy 8, autosomal recessive, 615348 (3)
 Nemaline myopathy 9, 615731 (3), Autosomal recessive

Cold-induced sweating syndrome 3, 617055 (3), Autosomal recessive; Retinitis pigmentosa 42, 612943 (3)
 Leukemia, myeloid/lymphoid or mixed-lineage, 159555 (2), Autosomal dominant; Wiedemann-Steiner syndrome
 Dystonia 28, childhood-onset, 617284 (3), Autosomal dominant
 Microcephaly 4, primary, autosomal recessive, 604321 (3), Autosomal recessive
 Mental retardation, autosomal recessive 41, 615637 (3), Autosomal recessive
 Arteriovenous malformation of the brain, somatic, 108010 (3); Bladder cancer, somatic, 109800 (3); Breast
 Myopathy, myofibrillar, 7, 617114 (3), Autosomal recessive
 ?Hydroxykynureninuria, 236800 (3), Autosomal recessive; Vertebral, cardiac, renal, and limb defects syndrome
 CRASH syndrome, 303350 (3), X-linked recessive; Corpus callosum, partial agenesis of, 304100 (3), X-linked
 L-2-hydroxyglutaric aciduria, 236792 (3), Autosomal recessive
 Poretti-Boltshauser syndrome, 615960 (3), Autosomal recessive
 Muscular dystrophy, congenital, merosin deficient or partially deficient, 607855 (3), Autosomal recessive; M
 Nephrotic syndrome, type 5, with or without ocular abnormalities, 614199 (3); Pierson syndrome, 609049 (3)
 Danon disease, 300257 (3), X-linked dominant
 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 6, 613154 (3),
 Alazami syndrome, 615071 (3), Autosomal recessive
 Greenberg skeletal dysplasia, 215140 (3), Autosomal recessive; Pelger-Huet anomaly, 169400 (3), Autosomal
 Cardiomyopathy, dilated, 1C, with or without LVNC, 601493 (3), Autosomal dominant; Cardiomyopathy, hypertrophic
 Hypercholesterolemia, familial, 1, 143890 (3), Autosomal dominant; LDL cholesterol level QTL2, 143890 (3)
 Hypercholesterolemia, familial, 4, 603813 (3), Autosomal recessive
 Buschke-Ollendorff syndrome, 166700 (3), Autosomal dominant; Osteopoikilosis with or without melorheostosis
 Arthrogryposis multiplex congenita, neurogenic, with myelin defect, 617468 (3), Autosomal recessive
 Leydig cell adenoma, somatic, with precocious puberty, 176410 (3); Leydig cell hypoplasia with hypergonadotropinemia
 Hyperglycinemia, lactic acidosis, and seizures, 614462 (3), Autosomal recessive
 Stuve-Wiedemann syndrome/Schwartz-Jampel type 2 syndrome, 601559 (3), Autosomal recessive
 LIG4 syndrome, 606593 (3), Autosomal recessive; {Multiple myeloma, resistance to}, 254500 (3), Somatic
 ?Muscular dystrophy, autosomal recessive, with cardiomyopathy and triangular tongue, 616827 (3), Autosomal
 Mental retardation, autosomal recessive 27, 614340 (3), Autosomal recessive
 Lipodystrophy, familial partial, type 6, 615980 (3), Autosomal recessive
 Lipoyltransferase 1 deficiency, 616299 (3), Autosomal recessive
 Encephalopathy, neonatal severe, with lactic acidosis and brain abnormalities, 617668 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, type 1C, 601098 (3), Autosomal dominant
 ?Mental retardation, autosomal recessive, 52, 616887 (3), Autosomal recessive
 Cardiomyopathy, dilated, 1A, 115200 (3), Autosomal dominant; Charcot-Marie-Tooth disease, type 2B1, 601098 (3)
 Leukodystrophy, adult-onset, autosomal dominant, 169500 (3), Autosomal dominant
 ?Epilepsy, progressive myoclonic, 9, 616540 (3), Autosomal recessive; {Lipodystrophy, partial, acquired, s
 Nemaline myopathy 10, 616165 (3), Autosomal recessive
 Nail-patella syndrome, 161200 (3), Autosomal dominant
 Neurodevelopmental disorder with epilepsy and hypoplasia of the corpus callosum, 618090 (3), Autosomal dominant
 Myoglobinuria, acute recurrent, autosomal recessive, 268200 (3), Autosomal recessive
 NULL
 Cenani-Lenz syndactyly syndrome, 212780 (3), Autosomal recessive; ?Myasthenic syndrome, congenital, 616887 (3)
 Leigh syndrome, French-Canadian type, 220111 (3), Autosomal recessive
 {Parkinson disease 8}, 607060 (3), Autosomal dominant
 Charcot-Marie-Tooth disease, axonal, type 2P, 614436 (3), Autosomal recessive, Autosomal dominant

Cutis laxa, autosomal recessive, type IC, 613177 (3), Autosomal recessive
 Mitochondrial complex III deficiency, nuclear type 8, 615838 (3), Autosomal recessive
 Chediak-Higashi syndrome, 214500 (3), Autosomal recessive
 Cerebellar, ocular, craniofacial, and genital syndrome, 618479 (3), Autosomal recessive
 Lissencephaly 9 with complex brainstem malformation, 618325 (3), Autosomal dominant
 ?Fanconi anemia, complementation group V, 617243 (3), Autosomal recessive
 Duane retraction syndrome 3, 617041 (3), Autosomal dominant; Multicentric carpotarsal osteolysis syndrome
 Spastic paraplegia 75, autosomal recessive, 616680 (3), Autosomal recessive
 Schaaf-Yang syndrome, 615547 (3), Autosomal dominant
 Mental retardation, autosomal recessive 15, 614202 (3), Autosomal recessive
 Mannosidosis, alpha-, types I and II, 248500 (3), Autosomal recessive
 Mannosidosis, beta, 248510 (3), Autosomal recessive
 {Antisocial behavior}, 300615 (3), X-linked recessive; Brunner syndrome, 300615 (3), X-linked recessive
 ?Microcephaly 25, primary, autosomal recessive, 618351 (3), Autosomal recessive
 Centronuclear myopathy 6 with fiber-type disproportion, 617760 (3), Autosomal recessive; Split-foot malformation
 NULL
 Neurodevelopmental disorder with or without variable brain abnormalities, 618443 (3), Autosomal dominant
 Dementia, frontotemporal, with or without parkinsonism, 600274 (3), Autosomal dominant; {Parkinson disease
 NULL
 Charcot-Marie-Tooth disease, axonal, type 2U, 616280 (3), Autosomal dominant; Interstitial lung and liver disease
 ?Combined oxidative phosphorylation deficiency 25, 616430 (3), Autosomal recessive; Spastic ataxia 3, autosomal
 Mega-corpus-callosum syndrome with cerebellar hypoplasia and cortical malformations, 618273 (3), Autosomal
 Hypermethioninemia, persistent, autosomal dominant, due to methionine adenosyltransferase I/III deficiency
 Amyotrophic lateral sclerosis 21, 606070 (3), Autosomal dominant
 Mental retardation, autosomal dominant 1, 156200 (3), Autosomal dominant
 Mental retardation, autosomal recessive 57, 617188 (3), Autosomal recessive
 ?Spondyloepiphyseal dysplasia, Kondo-Fu type, 618392 (3), Autosomal recessive
 3-Methylcrotonyl-CoA carboxylase 1 deficiency, 210200 (3), Autosomal recessive
 3-Methylcrotonyl-CoA carboxylase 2 deficiency, 210210 (3), Autosomal recessive
 Peripheral neuropathy, autosomal recessive, with or without impaired intellectual development, 618124 (3), Autosomal
 Mucopolysaccharidosis IV, 252650 (3), Autosomal recessive
 Microcephaly 1, primary, autosomal recessive, 251200 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 51, 617339 (3), Autosomal recessive
 {Autism susceptibility, X-linked 3}, 300496 (3), X-linked; Encephalopathy, neonatal severe, 300673 (3), X-linked
 Dystonia, childhood-onset, with optic atrophy and basal ganglia abnormalities, 617282 (3), Autosomal recessive
 Lujan-Fryns syndrome, 309520 (3), X-linked recessive; Ohdo syndrome, X-linked, 300895 (3), X-linked recessive
 NULL
 Mental retardation and distinctive facial features with or without cardiac defects, 616789 (3), Autosomal dominant
 Microcephaly, postnatal progressive, with seizures and brain atrophy, 613668 (3), Autosomal recessive
 Mental retardation, autosomal recessive 18, 614249 (3), Autosomal recessive
 Basel-Vanagait-Smirin-Yosef syndrome, 616449 (3), Autosomal recessive; ?Charcot-Marie-Tooth disease
 Chromosome 5q14.3 deletion syndrome, 613443 (4), Autosomal dominant; Mental retardation, stereotypical
 Familial Mediterranean fever, AD, 134610 (3), Autosomal dominant; Familial Mediterranean fever, AR, 249000 (3), Autosomal
 Myopathy, areflexia, respiratory distress, and dysphagia, early-onset, 614399 (3), Autosomal recessive; Mental
 Mental retardation, autosomal recessive 44, 615942 (3), Autosomal recessive

NA

Encephalopathy due to defective mitochondrial and peroxisomal fission 2, 617086 (3), Autosomal recessive
Charcot-Marie-Tooth disease, axonal, type 2A2A, 609260 (3), Autosomal dominant; Charcot-Marie-Tooth
Microcephaly 15, primary, autosomal recessive, 616486 (3), Autosomal recessive
Ceroid lipofuscinosis, neuronal, 7, 610951 (3), Autosomal recessive; Macular dystrophy with central cone
Congenital disorder of glycosylation, type IIa, 212066 (3), Autosomal recessive
Mitochondrial DNA depletion syndrome 11, 615084 (3), Autosomal recessive
Combined oxidative phosphorylation deficiency 37, 618329 (3), Autosomal recessive
Myopathy with extrapyramidal signs, 615673 (3), Autosomal recessive
?Mental retardation, X-linked 101, 300928 (3), X-linked recessive
Precocious puberty, central, 2, 615346 (3), Autosomal dominant
Bardet-Biedl syndrome 13, 615990 (3), Autosomal recessive; Joubert syndrome 28, 617121 (3), Autosomal
Colorectal cancer, hereditary nonpolyposis, type 2, 609310 (3); Mismatch repair cancer syndrome, 276300
Methylmalonic aciduria, vitamin B12-responsive, 251100 (3), Autosomal recessive
Methylmalonic aciduria and homocystinuria, cblC type, 277400 (3), Autosomal recessive
Homocystinuria, cblD type, variant 1, 277410 (3), Autosomal recessive; Methylmalonic aciduria and homocystinuria
Charcot-Marie-Tooth disease, axonal, type 2T, 617017 (3), Autosomal recessive, Autosomal dominant; ?S
Metaphyseal anadysplasia 1, 602111 (3), Autosomal dominant; Metaphyseal dysplasia, Spahr type, 250400
Multicentric osteolysis, nodulosis, and arthropathy, 259600 (3), Autosomal recessive
Methylmalonic aciduria, mut(0) type, 251000 (3), Autosomal recessive
Molybdenum cofactor deficiency A, 252150 (3), Autosomal recessive
Molybdenum cofactor deficiency B, 252160 (3), Autosomal recessive
Charcot-Marie-Tooth disease, axonal, type 2Z, 616688 (3), Autosomal dominant
Mitochondrial pyruvate carrier deficiency, 614741 (3), Autosomal recessive
Myelofibrosis with myeloid metaplasia, somatic, 254450 (3); Thrombocythemia 2, 601977 (3), Autosomal dominant
Trichothiodystrophy 4, nonphotosensitive, 234050 (3), Autosomal recessive
Charcot-Marie-Tooth disease, axonal, type 2EE, 618400 (3), Autosomal recessive; Mitochondrial DNA depletion
Charcot-Marie-Tooth disease, dominant intermediate D, 607791 (3), Autosomal dominant; Charcot-Marie-Tooth
Ataxia-telangiectasia-like disorder 1, 604391 (3), Autosomal recessive
Combined oxidative phosphorylation deficiency 2, 610498 (3), Autosomal recessive
Combined oxidative phosphorylation deficiency 32, 617664 (3), Autosomal recessive
Colorectal cancer, hereditary nonpolyposis, type 1, 120435 (3), Autosomal dominant; Mismatch repair cancer
Myopathy, mitochondrial, and ataxia, 617675 (3), Autosomal recessive, Autosomal dominant
Combined oxidative phosphorylation deficiency 15, 614947 (3), Autosomal recessive; Mitochondrial complex I
Homocystinuria due to MTHFR deficiency, 236250 (3), Autosomal recessive; {Neural tube defects, susceptible
Neurodevelopmental disorder with microcephaly, epilepsy, and hypomyelination, 618367 (3), Autosomal recessive
Myotubular myopathy, X-linked, 310400 (3), X-linked recessive
Charcot-Marie-Tooth disease, type 4B1, 601382 (3), Autosomal recessive
Combined oxidative phosphorylation deficiency 10, 614702 (3), Autosomal recessive
Focal cortical dysplasia, type II, somatic, 607341 (3); Smith-Kingsmore syndrome, 616638 (3), Autosomal dominant
?Spastic ataxia 4, autosomal recessive, 613672 (3), Autosomal recessive
Homocystinuria-megaloblastic anemia, cblG complementation type, 250940 (3), Autosomal recessive; {Neural tube defects, susceptible
Homocystinuria-megaloblastic anemia, cbl E type, 236270 (3), Autosomal recessive; {Neural tube defects, susceptible
Abetalipoproteinemia, 200100 (3), Autosomal recessive; {Metabolic syndrome, protection against}, 605552
Fetal akinesia deformation sequence 1, 208150 (3), Autosomal recessive; Myasthenic syndrome, congenital

Macroglobulinemia, Waldenstrom, somatic, 153600 (3); Pyogenic bacterial infections, recurrent, due to MY
Ophthalmoplegia, external, with rib and vertebral anomalies, 618155 (3), Autosomal recessive
Deafness, autosomal dominant 4A, 600652 (3), Autosomal dominant; ?Peripheral neuropathy, myopathy,
Proximal myopathy and ophthalmoplegia, 605637 (3), Autosomal recessive, Autosomal dominant
Arthrogryposis, distal, type 2A (Freeman-Sheldon), 193700 (3), Autosomal dominant; Arthrogryposis, distal
Cardiomyopathy, dilated, 1S, 613426 (3), Autosomal dominant; Cardiomyopathy, hypertrophic, 1, 192600
Myopathy, congenital, with fast-twitch (type II) fiber atrophy, 618414 (3), Autosomal recessive
Griscelli syndrome, type 1, 214450 (3), Autosomal recessive
Myasthenic syndrome, congenital, 24, presynaptic, 618198 (3), Autosomal recessive
Glaucoma 1A, primary open angle, 137750 (3), Autosomal dominant

NULL

Basal ganglia calcification, idiopathic, 7, autosomal recessive, 618317 (3), Autosomal recessive
Myopathy, myofibrillar, 3, 609200 (3), Autosomal dominant; Myopathy, spheroid body, 182920 (3), Autosomal dominant
Cardiomyopathy, dilated, 1KK, 615248 (3), Autosomal dominant; Cardiomyopathy, familial restrictive, 4, 615249 (3), Autosomal dominant
?Microphthalmia, syndromic 1, 309800 (3), X-linked; Ogden syndrome, 300855 (3), X-linked recessive, X-linked
Neurodevelopmental disorder with epilepsy, cataracts, feeding difficulties, and delayed brain myelination, 616034 (3), Autosomal recessive
?2,4-dienoyl-CoA reductase deficiency, 616034 (3), Autosomal recessive
Kanzaki disease, 609242 (3), Autosomal recessive; Schindler disease, type I, 609241 (3), Autosomal recessive
?Charcot-Marie-Tooth disease, axonal, type 2V, 616491 (3), Autosomal dominant; Mucopolysaccharidosis type VII, 607016 (3), Autosomal recessive
N-acetylglutamate synthase deficiency, 237310 (3), Autosomal recessive
Congenital contractures of the limbs and face, hypotonia, and developmental delay, 616266 (3), Autosomal recessive
Combined oxidative phosphorylation deficiency 24, 616239 (3), Autosomal recessive; ?Deafness, autosomal dominant
?N-acetylaspartate deficiency, 614063 (3), Autosomal recessive
Encephalopathy, progressive, early-onset, with brain edema and/or leukoencephalopathy, 2, 618321 (3), Autosomal recessive
Encephalopathy, progressive, early-onset, with brain edema and/or leukoencephalopathy, 617186 (3), Autosomal recessive
Microcephaly 22, primary, autosomal recessive, 617984 (3), Autosomal recessive
Lissencephaly 4 (with microcephaly), 614019 (3), Autosomal recessive; ?Microhydranencephaly, 605013 (3), Autosomal recessive
Exudative vitreoretinopathy 2, X-linked, 305390 (3); Norrie disease, 310600 (3), X-linked recessive
Charcot-Marie-Tooth disease, type 4D, 601455 (3), Autosomal recessive
Mental retardation, autosomal recessive 46, 616116 (3), Autosomal recessive
Mitochondrial complex I deficiency, nuclear type 12, 301020 (3), X-linked recessive
Mitochondrial complex I deficiency, nuclear type 22, 618243 (3), Autosomal recessive
Mitochondrial complex I deficiency, nuclear type 14, 618236 (3), Autosomal recessive
?Mitochondrial complex I deficiency, nuclear type 23, 618244 (3), Autosomal recessive
?Mitochondrial complex I deficiency, nuclear type 28, 618249 (3), Autosomal recessive; {Thyroid carcinoma, 600400 (3), Autosomal dominant
?Mitochondrial complex I deficiency, nuclear type 13, 618235 (3), Autosomal recessive

NULL

Mitochondrial complex I deficiency, nuclear type 33, 618253 (3), Autosomal recessive
Mitochondrial complex I deficiency, nuclear type 26, 618247 (3), Autosomal recessive
Mitochondrial complex I deficiency, nuclear type 11, 618234 (3), Autosomal recessive
Mitochondrial complex I deficiency, nuclear type 10, 618233 (3), Autosomal recessive
Mitochondrial complex I deficiency, nuclear type 18, 618240 (3), Autosomal recessive
Mitochondrial complex I deficiency, nuclear type 15, 618237 (3), Autosomal recessive
Mitochondrial complex I deficiency, nuclear type 16, 618238 (3), Autosomal recessive
Mitochondrial complex I deficiency, nuclear type 17, 618239 (3), Autosomal recessive

NULL

NULL

Linear skin defects with multiple congenital anomalies 3, 300952 (3), X-linked dominant; ?Mitochondrial co

Mitochondrial complex I deficiency, nuclear type 25, 618246 (3), Autosomal recessive

Mitochondrial complex I deficiency, nuclear type 32, 618252 (3), Autosomal recessive

?Mitochondrial complex I deficiency, nuclear type 24, 618245 (3), Autosomal recessive

Mitochondrial complex I deficiency, nuclear type 5, 618226 (3), Autosomal recessive

Mitochondrial complex I deficiency, nuclear type 6, 618228 (3), Autosomal recessive

Mitochondrial complex I deficiency, nuclear type 8, 618230 (3), Autosomal recessive

Mitochondrial complex I deficiency, nuclear type 1, 252010 (3), Autosomal recessive

Mitochondrial complex I deficiency, nuclear type 9, 618232 (3), Autosomal recessive

Mitochondrial complex I deficiency, nuclear type 3, 618224 (3), Autosomal recessive

Mitochondrial complex I deficiency, nuclear type 2, 618222 (3), Autosomal recessive

Mitochondrial complex I deficiency, nuclear type 4, 618225 (3), Autosomal recessive

Mitochondrial complex I deficiency, nuclear type 7, 618229 (3), Autosomal recessive

Nemaline myopathy 2, autosomal recessive, 256030 (3), Autosomal recessive

?Epileptic encephalopathy, early infantile, 21, 615833 (3), Autosomal recessive

{?Amyotrophic lateral sclerosis, susceptibility to}, 105400 (3), Autosomal recessive, Autosomal dominant; ?

Charcot-Marie-Tooth disease, dominant intermediate G, 617882 (3), Autosomal dominant; Charcot-Marie-

{Amyotrophic lateral sclerosis, susceptibility to, 24}, 617892 (3), Autosomal dominant; Short-rib thoracic dy

?Arthrogryposis, Perthes disease, and upward gaze palsy, 614262 (3), Autosomal recessive; Lethal conge

Sialidosis, type I, 256550 (3), Autosomal recessive; Sialidosis, type II, 256550 (3), Autosomal recessive

Epileptic encephalopathy, early infantile, 72, 618374 (3), Autosomal dominant

Mental retardation, X-linked 98, 300912 (3), X-linked dominant

Leukemia, juvenile myelomonocytic, 607785 (3), Autosomal dominant, Somatic mutation; Neurofibromatosis

Meningioma, NF2-related, somatic, 607174 (3); Neurofibromatosis, type 2, 101000 (3), Autosomal domina

Neurodevelopmental disorder with central and peripheral motor dysfunction, 618356 (3), Autosomal reces

Marshall-Smith syndrome, 602535 (3), Autosomal dominant; Sotos syndrome 2, 614753 (3), Autosomal do

Neuropathy, hereditary sensory and autonomic, type V, 608654 (3), Autosomal recessive

Congenital disorder of deglycosylation, 615273 (3), Autosomal recessive

Epilepsy, progressive myoclonic 2B (Lafora), 254780 (3), Autosomal recessive

FINCA syndrome, 618278 (3), Autosomal recessive

Spastic paraplegia 6, autosomal dominant, 600363 (3), Autosomal dominant

Cornelia de Lange syndrome 1, 122470 (3), Autosomal dominant

NULL

Chorea, hereditary benign, 118700 (3), Autosomal dominant; Choreoathetosis, hypothyroidism, and neona

Spastic ataxia 8, autosomal recessive, with hypomyelinating leukodystrophy, 617560 (3), Autosomal reces

{Asperger syndrome susceptibility, X-linked 2}, 300497 (3), X-linked; {Autism susceptibility, X-linked 2}, 30

CINCA syndrome, 607115 (3), Autosomal dominant; Deafness, autosomal dominant 34, with or without inf

Brachydactyly, type B2, 611377 (3), Autosomal dominant; Multiple synostoses syndrome 1, 186500 (3), A

?Myoclonus, familial, 1, 614937 (3), Autosomal dominant

Mental retardation, X-linked, syndromic 34, 300967 (3), X-linked

Spinocerebellar ataxia 36, 614153 (3), Autosomal dominant

Alagille syndrome 2, 610205 (3), Autosomal dominant; Hajdu-Cheney syndrome, 102500 (3), Autosomal d

NULL

Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy 1, 125310 (3), Autosomal dominant
 Niemann-Pick disease, type C1, 257220 (3), Autosomal recessive; Niemann-Pick disease, type D, 257220 (3), Autosomal recessive
 Niemann-pick disease, type C2, 607625 (3), Autosomal recessive
 Joubert syndrome 4, 609583 (3), Autosomal recessive; Nephronophthisis 1, juvenile, 256100 (3), Autosomal recessive
 Adrenal hypoplasia, congenital, 300200 (3), X-linked recessive; 46XY sex reversal 2, dosage-sensitive, 300200 (3), X-linked recessive
 Bosch-Boonstra-Schaaf optic atrophy syndrome, 615722 (3), Autosomal dominant
 Colorectal cancer, somatic, 114500 (3); Epidermal nevus, somatic, 162900 (3); Melanocytic nevus syndrome, 162900 (3)
 Pitt-Hopkins-like syndrome 2, 614325 (3), Autosomal recessive; {Schizophrenia, susceptibility to, 17}, 614325 (3), Autosomal recessive
 Leukemia, acute myeloid, 601626 (1), Autosomal dominant, Somatic mutation; Sotos syndrome 1, 117550 (3), Autosomal dominant
 NULL
 CHILD syndrome, 308050 (3), X-linked dominant; CK syndrome, 300831 (3), X-linked recessive
 Hypogonadotropic hypogonadism 9 with or without anosmia, 614838 (3), Autosomal dominant
 Mental retardation, autosomal recessive 5, 611091 (3), Autosomal recessive
 Spastic paraplegia 45, autosomal recessive, 613162 (3), Autosomal recessive
 Mirror movements 4, 618264 (3), Autosomal dominant
 NA
 Insensitivity to pain, congenital, with anhidrosis, 256800 (3), Autosomal recessive; Medullary thyroid carcinoma, 256800 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 58, 617830 (3), Autosomal dominant; Obesity, hyperphagia, and mental retardation, 617830 (3), Autosomal dominant
 Mitochondrial complex I deficiency, nuclear type 21, 618242 (3), Autosomal recessive
 NULL
 Striatonigral degeneration, infantile, 271930 (3), Autosomal recessive
 Fetal akinesia deformation sequence 4, 618393 (3), Autosomal recessive
 ?Congenital disorder of glycosylation, type 1aa, 617082 (3), Autosomal recessive; Mental retardation, autosomal recessive 1, 617082 (3), Autosomal recessive
 Pseudo-TORCH syndrome 1, 251290 (3), Autosomal recessive
 Dent disease 2, 300555 (3), X-linked recessive; Lowe syndrome, 309000 (3), X-linked recessive
 Joubert syndrome 10, 300804 (3), X-linked recessive; Orofaciodigital syndrome I, 311200 (3), X-linked dominant
 Alpha-ketoglutarate dehydrogenase deficiency, 203740 (1), Autosomal recessive
 Behr syndrome, 210000 (3), Autosomal recessive; {Glaucoma, normal tension, susceptibility to}, 606657 (3), Autosomal recessive
 3-methylglutaconic aciduria, type III, 258501 (3), Autosomal recessive; Optic atrophy 3 with cataract, 165300 (3), Autosomal recessive
 Mental retardation, X-linked, with cerebellar hypoplasia and distinctive facial appearance, 300486 (3), X-linked recessive
 Amyotrophic lateral sclerosis 12, 613435 (3); Glaucoma 1, open angle, E, 137760 (3), Autosomal dominant
 Immunodeficiency 9, 612782 (3), Autosomal recessive; Myopathy, tubular aggregate, 2, 615883 (3), Autosomal recessive
 Osteopetrosis, autosomal recessive 5, 259720 (3), Autosomal recessive
 Intellectual developmental disorder with dysmorphic facies, seizures, and distal limb anomalies, 617452 (3), Autosomal dominant
 NULL
 Hypotonia, hypoventilation, impaired intellectual development, dysautonomia, epilepsy, and eye abnormalities, 617452 (3), Autosomal dominant
 Oculopharyngeal muscular dystrophy, 164300 (3), Autosomal dominant
 Schuurs-Hoeijmakers syndrome, 615009 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 66, 618067 (3), Autosomal dominant
 [Hyperphenylalaninemia, non-PKU mild], 261600 (3), Autosomal recessive; Phenylketonuria, 261600 (3), Autosomal recessive
 Intellectual developmental disorder with macrocephaly, seizures, and speech delay, 618158 (3), Autosomal dominant
 Mental retardation, X-linked 30/47, 300558 (3), X-linked recessive
 Spondylometaphyseal dysplasia, Megarbane-Dagher-Melike type, 613320 (3), Autosomal recessive
 HARP syndrome, 607236 (3), Autosomal recessive; Neurodegeneration with brain iron accumulation 1, 230300 (3), Autosomal recessive
 Parkinson disease 7, autosomal recessive early-onset, 606324 (3), Autosomal recessive

Dyskeratosis congenita, autosomal recessive 6, 616353 (3), Autosomal recessive; Pulmonary fibrosis and
 Epileptic encephalopathy, early infantile, 75, 618437 (3), Autosomal recessive
 ?Otofaciocervical syndrome 2, 615560 (3), Autosomal recessive
 Aniridia, 106210 (3), Autosomal dominant; Anterior segment dysgenesis 5, multiple subtypes, 604229 (3);
 Pyruvate carboxylase deficiency, 266150 (3), Autosomal recessive
 Hyperphenylalaninemia, BH4-deficient, D, 264070 (3), Autosomal recessive
 Propionicacidemia, 606054 (3), Autosomal recessive
 Propionicacidemia, 606054 (3), Autosomal recessive
 Microcephaly, seizures, spasticity, and brain calcification, 251280 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 9, 300088 (3), X-linked
 Turnpenny-Fry syndrome, 618371 (3), Autosomal dominant
 ?Pontocerebellar hypoplasia, type 3, 608027 (3), Autosomal recessive
 ?Ataxia-telangiectasia-like disorder 2, 615919 (3), Autosomal recessive
 Microcephalic osteodysplastic primordial dwarfism, type II, 210720 (3), Autosomal recessive
 NA
 Dyskinesia, limb and orofacial, infantile-onset, 616921 (3), Autosomal recessive; Striatal degeneration, aut
 Acrodysostosis 2, with or without hormone resistance, 614613 (3), Autosomal dominant
 Night blindness, congenital stationary, autosomal dominant 2, 163500 (3), Autosomal dominant; Retinitis p
 ?Joubert syndrome 22, 615665 (3), Autosomal recessive
 Pigmented nodular adrenocortical disease, primary, 3, 614190 (3); Striatal degeneration, autosomal domin
 Basal ganglia calcification, idiopathic, 5, 615483 (3), Autosomal dominant; Dermatofibrosarcoma protuberans
 Basal ganglia calcification, idiopathic, 4, 615007 (3), Autosomal dominant; Kosaki overgrowth syndrome, 6
 Pyruvate dehydrogenase E1-alpha deficiency, 312170 (3), X-linked dominant
 Lacticacidemia due to PDX1 deficiency, 245349 (3), Autosomal recessive
 ?Charcot-Marie-Tooth disease, X-linked dominant, 6, 300905 (3), X-linked dominant
 Pyruvate dehydrogenase phosphatase deficiency, 608782 (3), Autosomal recessive
 Coenzyme Q10 deficiency, primary, 2, 614651 (3), Autosomal recessive
 Neuropathy, hereditary motor and sensory, type VIC, with optic atrophy, 618511 (3), Autosomal recessive
 Spinocerebellar ataxia 23, 610245 (3), Autosomal dominant
 Mitochondrial complex IV deficiency, 220110 (3), Autosomal recessive, Mitochondrial
 Heimler syndrome 1, 234580 (3), Autosomal recessive; Peroxisome biogenesis disorder 1A (Zellweger), 2
 Peroxisome biogenesis disorder 6A (Zellweger), 614870 (3), Autosomal recessive; Peroxisome biogenesis
 ?Peroxisome biogenesis disorder 14B, 614920 (3), Autosomal recessive
 Peroxisome biogenesis disorder 3A (Zellweger), 614859 (3), Autosomal recessive; Peroxisome biogenesis
 Peroxisome biogenesis disorder 11A (Zellweger), 614883 (3), Autosomal recessive; Peroxisome biogenes
 Peroxisome biogenesis disorder 13A (Zellweger), 614887 (3), Autosomal recessive
 Peroxisome biogenesis disorder 8A (Zellweger), 614876 (3), Autosomal recessive; Peroxisome biogenesis
 Peroxisome biogenesis disorder 12A (Zellweger), 614886 (3), Autosomal recessive
 Peroxisome biogenesis disorder 5A (Zellweger), 614866 (3), Autosomal recessive; Peroxisome biogenesis
 Peroxisome biogenesis disorder 7A (Zellweger), 614872 (3), Autosomal recessive; Peroxisome biogenesis
 Peroxisome biogenesis disorder 10A (Zellweger), 614882 (3), Autosomal recessive; ?Peroxisome biogene
 Peroxisome biogenesis disorder 2A (Zellweger), 214110 (3), Autosomal recessive; Peroxisome biogenesis
 Heimler syndrome 2, 616617 (3), Autosomal recessive; Peroxisome biogenesis disorder 4A (Zellweger), 6
 Peroxisome biogenesis disorder 9B, 614879 (3), Autosomal recessive; Rhizomelic chondrodysplasia punct
 Amyotrophic lateral sclerosis 18, 614808 (3)

Mental retardation, autosomal recessive 42, 615802 (3), Autosomal recessive
 Hyperphosphatasia with mental retardation syndrome 3, 614207 (3), Autosomal recessive
 Hyperphosphatasia with mental retardation syndrome 4, 615716 (3), Autosomal recessive
 Phosphoglycerate kinase 1 deficiency, 300653 (3), X-linked recessive
 Immunodeficiency 23, 615816 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 70, 618298 (3), Autosomal dominant
 ?Microcephaly 11, primary, autosomal recessive, 615414 (3), Autosomal recessive
 Borjeson-Forssman-Lehmann syndrome, 301900 (3), X-linked recessive
 Neu-Laxova syndrome 1, 256520 (3), Autosomal recessive; Phosphoglycerate dehydrogenase deficiency,
 Developmental delay, intellectual disability, obesity, and dysmorphism, 617991 (3), Autosomal dominant
 Refsum disease, 266500 (3), Autosomal recessive
 Joubert syndrome 33, 617767 (3), Autosomal recessive
 Arthrogryposis, distal, type 3, 114300 (3), Autosomal dominant; Arthrogryposis, distal, type 5, 108145 (3),
 Multiple congenital anomalies-hypotonia-seizures syndrome 2, 300868 (3), X-linked recessive; Paroxysmal
 Glycosylphosphatidylinositol biosynthesis defect 16, 617816 (3), Autosomal recessive
 Mental retardation, autosomal recessive 53, 616917 (3), Autosomal recessive
 CHIME syndrome, 280000 (3), Autosomal recessive
 Multiple congenital anomalies-hypotonia-seizures syndrome 1, 614080 (3), Autosomal recessive
 Hyperphosphatasia with mental retardation syndrome 2, 614749 (3), Autosomal recessive
 ?Epileptic encephalopathy, early infantile, 55, 617599 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 77, 618548 (3)
 Glycosylphosphatidylinositol biosynthesis defect 18, 618143 (3), Autosomal recessive
 Multiple congenital anomalies-hypotonia-seizures syndrome 3, 615398 (3), Autosomal recessive; ?Paroxysmal
 Hyperphosphatasia with mental retardation syndrome 1, 239300 (3), Autosomal recessive
 Glycosylphosphatidylinositol biosynthesis defect 11, 616025 (3), Autosomal recessive
 Hyperphosphatasia with mental retardation syndrome 6, 616809 (3), Autosomal recessive
 Ataxia-oculomotor apraxia 3, 615217 (3), Autosomal recessive
 Parkinson disease 6, early onset, 605909 (3), Autosomal recessive
 Anterior segment dysgenesis 1, multiple subtypes, 107250 (3), Autosomal dominant; Cataract 11, multiple
 Infantile neuroaxonal dystrophy 1, 256600 (3), Autosomal recessive; Neurodegeneration with brain iron acc
 Neurodevelopmental disorder with progressive microcephaly, spasticity, and brain anomalies, 617527 (3),
 Epileptic encephalopathy, early infantile, 12, 613722 (3), Autosomal recessive
 ?Spinocerebellar ataxia 46, 617770 (3), Autosomal dominant
 Leukodystrophy and acquired microcephaly with or without dystonia, 616763 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, recessive intermediate C, 615376 (3), Autosomal recessive; Spinal muscular
 Ehlers-Danlos syndrome, kyphoscoliotic type, 1, 225400 (3), Autosomal recessive
 Pelizaeus-Merzbacher disease, 312080 (3), X-linked recessive; Spastic paraplegia 2, X-linked, 312920 (3)
 Epilepsy, early-onset, vitamin B6-dependent, 617290 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Ia, 212065 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, demyelinating, type 1G, 618279 (3), Autosomal dominant
 Charcot-Marie-Tooth disease, type 1A, 118220 (3), Autosomal dominant; Charcot-Marie-Tooth disease, ty
 Spinocerebellar ataxia, autosomal recessive 2, 213200 (3), Autosomal recessive
 Multiple mitochondrial dysfunctions syndrome 6, 617954 (3), Autosomal recessive
 Paroxysmal nonkinesigenic dyskinesia 1, 118800 (3), Autosomal dominant
 Ataxia-oculomotor apraxia 4, 616267 (3), Autosomal recessive; Microcephaly, seizures, and developmental

Immunodeficiency due to purine nucleoside phosphorylase deficiency, 613179 (3), Autosomal recessive
 Neutral lipid storage disease with myopathy, 610717 (3), Autosomal recessive
 Boucher-Neuhauser syndrome, 215470 (3), Autosomal recessive; ?Laurence-Moon syndrome, 245800 (3)
 ?Mitochondrial myopathy with lactic acidosis, 251950 (3), Autosomal recessive
 Pyridoxamine 5'-phosphate oxidase deficiency, 610090 (3), Autosomal recessive
 Combined oxidative phosphorylation deficiency 13, 614932 (3), Autosomal recessive; Deafness, autosomal
 Short stature, onychodysplasia, facial dysmorphism, and hypotrichosis, 614813 (3), Autosomal recessive
 White-Sutton syndrome, 616364 (3), Autosomal dominant
 Pigmentary disorder, reticulate, with systemic manifestations, X-linked, 301220 (3), X-linked recessive; Va
 Mitochondrial DNA depletion syndrome 4A (Alpers type), 203700 (3), Autosomal recessive; Mitochondrial
 Mitochondrial DNA depletion syndrome 16 (hepatic type), 618528 (3), Autosomal recessive; Progressive e
 Leukodystrophy, hypomyelinating, 11, 616494 (3), Autosomal recessive; Treacher Collins syndrome 3, 24
 Treacher Collins syndrome 2, 613717 (3), Autosomal recessive, Autosomal dominant
 Leukodystrophy, hypomyelinating, 7, with or without oligodontia and/or hypogonadotropic hypogonadism, 6
 Leukodystrophy, hypomyelinating, 8, with or without oligodontia and/or hypogonadotropic hypogonadism, 6
 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 3, 253280 (3),
 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 8, 614830 (3), A
 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 12, 615249 (3)
 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 1, 236670 (3),
 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 2, 613150 (3),
 Breast cancer, somatic, 114480 (3); Jansen de Vries syndrome, 617450 (3), Autosomal dominant
 Porphyria variegata, 176200 (3), Autosomal dominant
 Microcephaly, short stature, and impaired glucose metabolism 2, 616817 (3), Autosomal recessive
 Mental retardation, autosomal dominant 36, 616362 (3), Autosomal dominant
 Spinocerebellar ataxia 12, 604326 (3), Autosomal dominant
 Mental retardation, autosomal dominant 35, 616355 (3), Autosomal dominant
 Arthrogryposis, cleft palate, craniosynostosis, and impaired intellectual development, 618265 (3), Autosom
 Ceroid lipofuscinosis, neuronal, 1, 256730 (3), Autosomal recessive
 Renpenning syndrome, 309500 (3), X-linked recessive
 Brittle cornea syndrome 2, 614170 (3), Autosomal recessive
 ?Epilepsy, progressive myoclonic, 10, 616640 (3), Autosomal recessive
 Methylmalonic aciduria and homocystinuria, cblC type, digenic, 277400 (3), Autosomal recessive
 Myasthenic syndrome, congenital, 22, 616224 (3), Autosomal recessive
 Epilepsy, progressive myoclonic 1B, 612437 (3), Autosomal recessive
 Acrodysostosis 1, with or without hormone resistance, 101800 (3), Autosomal dominant; Adrenocortical tur
 NULL
 Spinocerebellar ataxia 14, 605361 (3), Autosomal dominant
 Immunodeficiency 26, with or without neurologic abnormalities, 615966 (3), Autosomal recessive
 Adenocarcinoma of lung, somatic, 211980 (3); Ovarian cancer, somatic, 167000 (3); Parkinson disease, ju
 Dystonia 16, 612067 (3), Autosomal recessive
 Cerebral amyloid angiopathy, PRNP-related, 137440 (3), Autosomal dominant; Creutzfeldt-Jakob disease,
 Thrombophilia due to protein C deficiency, autosomal dominant, 176860 (3), Autosomal dominant; Thromb
 Hyperprolinemia, type I, 239500 (3), Autosomal recessive; {Schizophrenia, susceptibility to, 4}, 600850 (3)
 Hypogonadotropic hypogonadism 4 with or without anosmia, 610628 (3), Autosomal dominant
 Hypogonadotropic hypogonadism 3 with or without anosmia, 244200 (3), Autosomal dominant

Arts syndrome, 301835 (3), X-linked recessive; Charcot-Marie-Tooth disease, X-linked recessive, 5, 31107
 Convulsions, familial infantile, with paroxysmal choreoathetosis, 602066 (3), Autosomal dominant; Episodi
 Mental retardation, autosomal recessive 1, 249500 (3), Autosomal recessive
 Neurodevelopmental disorder with microcephaly, hypotonia, and variable brain anomalies, 617481 (3), Au
 Charcot-Marie-Tooth disease, type 4F, 614895 (3), Autosomal recessive; Dejerine-Sottas disease, 145900
 Combined SAP deficiency, 611721 (3), Autosomal recessive; Gaucher disease, atypical, 610539 (3); Krab
 Neu-Laxova syndrome 2, 616038 (3), Autosomal recessive; ?Phosphoserine aminotransferase deficiency,
 ?Acne inversa, familial, 3, 613737 (3), Autosomal dominant; Alzheimer disease, type 3, 607822 (3), Autos
 Alzheimer disease-4, 606889 (3), Autosomal dominant; Cardiomyopathy, dilated, 1V, 613697 (3), Autosom
 Stankiewicz-Isidor syndrome, 617516 (3), Autosomal dominant
 Basal cell carcinoma, somatic, 605462 (3); Basal cell nevus syndrome, 109400 (3), Autosomal dominant; I
 Pancreatic agenesis 2, 615935 (3), Autosomal recessive; Pancreatic and cerebellar agenesis, 609069 (3),
 Chondrodysplasia, Blomstrand type, 215045 (3), Autosomal recessive; Eiken syndrome, 600002 (3), Auto
 Infantile-onset multisystem neurologic, endocrine, and pancreatic disease, 616263 (3), Autosomal recessiv
 Hyperphenylalaninemia, BH4-deficient, A, 261640 (3), Autosomal recessive
 Verheij syndrome, 615583 (3), Autosomal dominant
 Spinocerebellar ataxia 47, 617931 (3), Autosomal dominant
 Mental retardation, autosomal dominant 31, 616158 (3), Autosomal dominant
 Mental retardation, autosomal recessive 55, 617051 (3), Autosomal recessive
 Intellectual developmental disorder with abnormal behavior, microcephaly, and short stature, 618342 (3), A
 Leukodystrophy, hypomyelinating, 10, 616420 (3), Autosomal recessive
 Myopathy, myofibrillar, 8, 617258 (3), Autosomal recessive
 Microcephaly, progressive, seizures, and cerebral and cerebellar atrophy, 615760 (3), Autosomal recessiv
 Hyperphenylalaninemia, BH4-deficient, C, 261630 (3), Autosomal recessive
 Ververi-Brady syndrome, 617982 (3), Autosomal dominant
 Neurodevelopmental disorder with ataxic gait, absent speech, and decreased cortical white matter, 61780
 Warburg micro syndrome 3, 614222 (3), Autosomal recessive
 Mental retardation, X-linked 72, 300271 (3), X-linked recessive; Waisman syndrome, 311510 (3), X-linked
 Warburg micro syndrome 1, 600118 (3), Autosomal recessive
 Martsof syndrome, 212720 (3), Autosomal recessive; Warburg micro syndrome 2, 614225 (3), Autosomal
 Charcot-Marie-Tooth disease, type 2B, 600882 (3), Autosomal dominant
 Mental retardation, autosomal dominant 48, 617751 (3), Autosomal dominant
 Cornelia de Lange syndrome 4, 614701 (3), Autosomal dominant; ?Mungan syndrome, 611376 (3), Autos
 {Breast cancer, susceptibility to}, 114480 (3), Autosomal dominant, Somatic mutation; ?Fanconi anemia, c
 {Breast-ovarian cancer, familial, susceptibility to, 3}, 613399 (3); Fanconi anemia, complementation group
 Smith-Magenis syndrome, 182290 (3), Autosomal dominant, Isolated cases
 Fetal akinesia deformation sequence 2, 618388 (3); Myasthenic syndrome, congenital, 11, associated with
 Leukodystrophy, hypomyelinating, 9, 616140 (3), Autosomal recessive
 Pontocerebellar hypoplasia, type 6, 611523 (3), Autosomal recessive
 TARP syndrome, 311900 (3), X-linked recessive
 Thrombocytopenia-absent radius syndrome, 274000 (3), Autosomal recessive
 Leber congenital amaurosis 13, 612712 (3), Autosomal recessive, Autosomal dominant
 ?Neuronopathy, distal hereditary motor, type VB, 614751 (3), Autosomal dominant; Spastic paraplegia 31,
 ?Spastic paraplegia 72, autosomal dominant, 615625 (3), Autosomal recessive, Autosomal dominant; ?Sp
 ?Mucocutaneous ulceration, chronic, 618287 (3), Autosomal dominant

?Neurodegeneration with brain iron accumulation 7, 617916 (3), Autosomal recessive
 Neurodevelopmental disorder with or without anomalies of the brain, eye, or heart, 616975 (3), Autosomal recessive
 Neuropathy, hereditary sensory and autonomic, type IIB, 613115 (3), Autosomal recessive
 Cerebellar ataxia, neuropathy, and vestibular areflexia syndrome, 614575 (3), Autosomal recessive
 Congenital disorder of glycosylation, type In, 612015 (3), Autosomal recessive
 ?Fanconi anemia, complementation group W, 617784 (3), Autosomal recessive
 Bare lymphocyte syndrome, type II, complementation group C, 209920 (3), Autosomal recessive; Bare lymphocyte syndrome, type II, complementation group D, 209920 (3), Autosomal recessive
 MHC class II deficiency, complementation group B, 209920 (3), Autosomal recessive
 Bare lymphocyte syndrome, type II, complementation group D, 209920 (3), Autosomal recessive
 Night blindness, congenital stationary, autosomal dominant 1, 610445 (3); Retinitis pigmentosa 4, autosomal dominant
 Epileptic encephalopathy, early infantile, 64, 618004 (3), Autosomal dominant
 NULL
 Bothnia retinal dystrophy, 607475 (3), Autosomal recessive; Fundus albipunctatus, 136880 (3), Autosomal recessive
 Tonne-Kalscheuer syndrome, 300978 (3), X-linked
 Combined oxidative phosphorylation deficiency 11, 614922 (3), Autosomal recessive
 Anauxetic dysplasia 1, 607095 (3), Autosomal recessive; Cartilage-hair hypoplasia, 250250 (3), Autosomal recessive
 Progressive external ophthalmoplegia with mitochondrial DNA deletions, autosomal recessive 2, 616479 (3), Autosomal recessive
 Aicardi-Goutieres syndrome 4, 610333 (3), Autosomal recessive
 Aicardi-Goutieres syndrome 2, 610181 (3), Autosomal recessive
 Aicardi-Goutieres syndrome 3, 610329 (3), Autosomal recessive
 Leukoencephalopathy, cystic, without megalencephaly, 612951 (3), Autosomal recessive
 ?Trichothiodystrophy 5, nonphotosensitive, 300953 (3), X-linked dominant
 Tenorio syndrome, 616260 (3), Autosomal dominant
 RIDDLE syndrome, 611943 (3), Autosomal recessive
 Ataxia, sensory, 1, autosomal dominant, 608984 (3), Autosomal dominant
 Intellectual developmental disorder with or without epilepsy or cerebellar ataxia, 618060 (3), Autosomal dominant
 COACH syndrome, 216360 (3), Autosomal recessive; Joubert syndrome 7, 611560 (3), Autosomal recessive
 Ribose 5-phosphate isomerase deficiency, 608611 (3), Autosomal recessive
 {Autism, susceptibility to, X-linked 5}, 300847 (3); Mental retardation, X-linked, syndromic, 35, 300998 (3), X-linked
 Coffin-Lowry syndrome, 303600 (3), X-linked dominant; Mental retardation, X-linked 19, 300844 (3), X-linked
 Mitochondrial DNA depletion syndrome 8A (encephalomyopathic type with renal tubulopathy), 612075 (3), Autosomal recessive
 Spondyloepimetaphyseal dysplasia, Faden-Alkuraya type, 616723 (3), Autosomal recessive
 Intellectual developmental disorder, autosomal recessive 70, 618402 (3), Autosomal recessive
 Dyskeratosis congenita, autosomal dominant 4, 615190 (3), Autosomal recessive, Autosomal dominant; Dyskeratosis congenita, autosomal recessive 1, 615190 (3), Autosomal recessive
 Spastic paraplegia 12, autosomal dominant, 604805 (3), Autosomal dominant
 Microcephaly, short stature, and polymicrogyria with seizures, 614833 (3), Autosomal recessive
 ?Spinocerebellar ataxia, autosomal recessive 15, 615705 (3), Autosomal recessive
 Mental retardation, autosomal recessive 61, 617773 (3), Autosomal recessive
 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 10, 615041 (3), Autosomal recessive
 Central core disease, 117000 (3), Autosomal recessive, Autosomal dominant; King-Denborough syndrome, 615041 (3), Autosomal recessive
 Spastic ataxia, Charlevoix-Saguenay type, 270550 (3), Autosomal recessive
 Duane-radial ray syndrome, 607323 (3), Autosomal dominant; IVIC syndrome, 147750 (3), Autosomal dominant
 Epilepsy, familial adult myoclonic, 1, 601068 (3), Autosomal dominant
 Ataxia-pancytopenia syndrome, 159550 (3), Autosomal dominant
 Aicardi-Goutieres syndrome 5, 612952 (3), Autosomal recessive; ?Chilblain lupus 2, 614415 (3), Autosomal recessive

Chylomicron retention disease, 246700 (3), Autosomal recessive
 [Sarcosinemia], 268900 (3), Autosomal recessive
 ?Neurodevelopmental disorder with microcephaly, ataxia, and seizures, 617709 (3), Autosomal recessive
 ?Microcephaly 14, primary, autosomal recessive, 616402 (3), Autosomal recessive
 Glass syndrome, 612313 (3), Autosomal dominant
 {Aplastic anemia, susceptibility to}, 609135 (3); Shwachman-Diamond syndrome, 260400 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, type 4B3, 615284 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, type 4B2, 604563 (3), Autosomal recessive
 Lathosterolosis, 607330 (3), Autosomal recessive
 Epilepsy, progressive myoclonic 4, with or without renal failure, 254900 (3), Autosomal recessive
 Episodic pain syndrome, familial, 2, 615551 (3), Autosomal dominant
 Episodic pain syndrome, familial, 3, 615552 (3), Autosomal dominant; Neuropathy, hereditary sensory and motor, type 1, 605293 (3), Autosomal dominant
 Epilepsy, generalized, with febrile seizures plus, type 2, 604403 (3), Autosomal dominant; Epileptic encephalopathy, infantile, 1, 602505 (3), Autosomal dominant
 Atrial fibrillation, familial, 13, 615377 (3), Autosomal dominant; Brugada syndrome 5, 612838 (3); Cardiac conduction system disease, 602693 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 11, 613721 (3), Autosomal dominant; Seizures, benign familial infantile, 1, 602496 (3), Autosomal dominant
 Epilepsy, familial focal, with variable foci 4, 617935 (3), Autosomal dominant; Epileptic encephalopathy, early infantile, 1, 602505 (3), Autosomal dominant
 Hyperkalemic periodic paralysis, type 2, 170500 (3), Autosomal dominant; Hypokalemic periodic paralysis, type 1, 602688 (3), Autosomal dominant
 Cognitive impairment with or without cerebellar ataxia, 614306 (3), Autosomal dominant; Epileptic encephalopathy, infantile, 1, 602505 (3), Autosomal dominant
 {Dravet syndrome, modifier of}, 607208 (3), Autosomal dominant; Epilepsy, generalized, with febrile seizures, 602496 (3), Autosomal dominant
 Cardioencephalomyopathy, fatal infantile, due to cytochrome c oxidase deficiency 1, 604377 (3), Autosomal recessive
 ?Leukoencephalopathy with dystonia and motor neuropathy, 613724 (3), Autosomal recessive
 Spinocerebellar ataxia, autosomal recessive 21, 616719 (3), Autosomal recessive
 NULL
 Cardiomyopathy, dilated, 1GG, 613642 (3); Leigh syndrome, 256000 (3), Autosomal recessive, Mitochondrial complex I deficiency, 252011 (3), Autosomal recessive
 Mitochondrial complex II deficiency, 252011 (3), Autosomal recessive
 Mitochondrial complex II deficiency, 252011 (3), Autosomal recessive; Paraganglioma and gastric stromal tumor, 602693 (3), Autosomal dominant
 NULL
 Muscular dystrophy, rigid spine, 1, 602771 (3), Autosomal recessive; Myopathy, congenital, with fiber-type disproportion, 602693 (3), Autosomal dominant
 {Hypogonadotropic hypogonadism 16 with or without anosmia}, 614897 (3), Autosomal dominant
 ?CHARGE syndrome, 214800 (3), Autosomal dominant
 Cone-rod dystrophy 10, 610283 (3), Autosomal recessive; Retinitis pigmentosa 35, 610282 (3), Autosomal recessive
 Pontocerebellar hypoplasia type 2D, 613811 (3), Autosomal recessive
 Amyotrophy, hereditary neuralgic, 162100 (3), Autosomal dominant; Leukemia, acute myeloid, therapy-related, 602693 (3), Autosomal dominant
 3-methylglutaconic aciduria with deafness, encephalopathy, and Leigh-like syndrome, 614739 (3), Autosomal recessive
 Angioedema, hereditary, types I and II, 106100 (3), Autosomal recessive, Autosomal dominant; Complement deficiency, C1, 602693 (3), Autosomal dominant
 Encephalopathy, familial, with neuroserpin inclusion bodies, 604218 (3), Autosomal dominant
 Mental retardation, autosomal dominant 29, 616078 (3), Autosomal dominant; Schinzel-Giedion midface retraction syndrome, 602693 (3), Autosomal dominant
 Luscan-Lumish syndrome, 616831 (3), Autosomal dominant
 Mental retardation, autosomal dominant 23, 615761 (3), Autosomal dominant
 Amyotrophic lateral sclerosis 4, juvenile, 602433 (3), Autosomal dominant; Spinocerebellar ataxia, autosomal recessive 21, 616719 (3), Autosomal recessive
 Combined oxidative phosphorylation deficiency 18, 615578 (3), Autosomal recessive
 Muscular dystrophy, limb-girdle, autosomal recessive 3, 608099 (3), Autosomal recessive
 Muscular dystrophy, limb-girdle, autosomal recessive 4, 604286 (3), Autosomal recessive
 Cardiomyopathy, dilated, 1L, 606685 (3); Muscular dystrophy, limb-girdle, autosomal recessive 6, 601287 (3), Autosomal recessive
 Dystonia-11, myoclonic, 159900 (3), Autosomal dominant

Muscular dystrophy, limb-girdle, autosomal recessive 5, 253700 (3), Autosomal recessive
 Nephrotic syndrome, type 14, 617575 (3), Autosomal recessive
 Mucopolysaccharidosis type IIIA (Sanfilippo A), 252900 (3), Autosomal recessive
 Cherubism, 118400 (3), Autosomal dominant
 ?Immunodeficiency 61, 300310 (3), X-linked recessive
 Charcot-Marie-Tooth disease, type 4C, 601596 (3), Autosomal recessive; Mononeuropathy of the median
 Phelan-McDermid syndrome, 606232 (3), Autosomal dominant; {Schizophrenia 15}, 613950 (3), Autosomal dominant
 Noonan-like syndrome with loose anagen hair, 607721 (3), Autosomal dominant
 [Sedoheptulokinase deficiency], 617213 (3), Autosomal recessive
 Stocco dos Santos X-linked mental retardation syndrome, 300434 (3), X-linked
 ?Amyotrophic lateral sclerosis 16, juvenile, 614373 (3), Autosomal recessive; ?Spinal muscular atrophy, distal
 Epileptic encephalopathy, early infantile, 30, 616341 (3), Autosomal dominant
 Marinesco-Sjogren syndrome, 248800 (3), Autosomal recessive
 Witteveen-Kolk syndrome, 613406 (3), Autosomal dominant
 Shprintzen-Goldberg syndrome, 182212 (3), Autosomal dominant
 Bartter syndrome, type 1, 601678 (3), Autosomal recessive
 Gitelman syndrome, 263800 (3), Autosomal recessive
 {Epilepsy, idiopathic generalized, susceptibility to, 14}, 616685 (3), Autosomal dominant; Epileptic encephalopathy, early infantile, 39, 612949 (3), Autosomal recessive
 Agenesis of the corpus callosum with peripheral neuropathy, 218000 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 25, 615905 (3), Autosomal recessive
 Allan-Herndon-Dudley syndrome, 300523 (3), X-linked
 Salla disease, 604369 (3), Autosomal recessive; Sialic acid storage disorder, infantile, 269920 (3), Autosomal recessive
 ?Parkinsonism-dystonia, infantile, 2, 618049 (3), Autosomal recessive
 Myasthenic syndrome, congenital, 21, presynaptic, 617239 (3), Autosomal recessive
 Thiamine-responsive megaloblastic anemia syndrome, 249270 (3), Autosomal recessive
 Thiamine metabolism dysfunction syndrome 2 (biotin- or thiamine-responsive encephalopathy type 2), 607105 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 41, 617105 (3), Autosomal dominant
 Spastic tetraplegia, thin corpus callosum, and progressive microcephaly, 616657 (3), Autosomal recessive
 Basal ganglia calcification, idiopathic, 1, 213600 (3), Autosomal dominant
 Combined D-2- and L-2-hydroxyglutaric aciduria, 615182 (3), Autosomal recessive; ?Myasthenic syndrome, congenital, 21, presynaptic, 617239 (3), Autosomal recessive
 Paragangliomas 6, 618464 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 39, 612949 (3), Autosomal recessive
 Citrullinemia, adult-onset type II, 603471 (3), Autosomal recessive; Citrullinemia, type II, neonatal-onset, 607105 (3), Autosomal dominant
 Hyperornithinemia-hyperammonemia-homocitrullinemia syndrome, 238970 (3), Autosomal recessive
 Microcephaly, Amish type, 607196 (3), Autosomal recessive; Thiamine metabolism dysfunction syndrome 2 (biotin- or thiamine-responsive encephalopathy type 2), 607105 (3), Autosomal dominant
 NULL
 Epileptic encephalopathy, early infantile, 3, 609304 (3), Autosomal recessive
 Mitochondrial DNA depletion syndrome 12A (cardiomyopathic type) AD, 617184 (3), Autosomal dominant; Mitochondrial DNA depletion syndrome 12A (cardiomyopathic type) AD, 617184 (3), Autosomal dominant
 Metabolic crises, recurrent, with variable encephalomyopathic features and neurologic regression, 618416 (3), Autosomal recessive
 Neuropathy, hereditary motor and sensory, type VIB, 616505 (3), Autosomal recessive
 Histiocytosis-lymphadenopathy plus syndrome, 602782 (3), Autosomal recessive
 Dystonia 9, 601042 (3), Autosomal dominant; {Epilepsy, idiopathic generalized, susceptibility to, 12}, 614800 (3), Autosomal dominant
 Hypermanganesemia with dystonia 1, 613280 (3), Autosomal recessive
 ?Birk-Landau-Perez syndrome, 617595 (3), Autosomal recessive
 Congenital cataracts, hearing loss, and neurodegeneration, 614482 (3), Autosomal recessive; Spastic paraparesis, infantile, 269920 (3), Autosomal recessive

Hypophosphatemic rickets with hypercalciuria, 241530 (3), Autosomal recessive
 Congenital disorder of glycosylation, type II_f, 603585 (3), Autosomal recessive
 Ehlers-Danlos syndrome, spondylodysplastic type, 3, 612350 (3), Autosomal recessive
 Hypermanganesemia with dystonia 2, 617013 (3), Autosomal recessive; ?Hyperostosis cranialis interna, 14
 Acrodermatitis enteropathica, 201100 (3), Autosomal recessive
 Congenital disorder of glycosylation, type II_n, 616721 (3), Autosomal recessive
 Intellectual developmental disorder with neuropsychiatric features, 617532 (3), Autosomal recessive
 Folate malabsorption, hereditary, 229050 (3), Autosomal recessive
 Brown-Vialetto-Van Laere syndrome 2, 614707 (3), Autosomal recessive
 Brown-Vialetto-Van Laere syndrome 1, 211530 (3), Autosomal recessive; ?Fazio-Londe disease, 211500 (3)
 Myasthenic syndrome, congenital, 20, presynaptic, 617143 (3), Autosomal recessive; Neuronopathy, distal
 Myoclonic-atonic epilepsy, 616421 (3), Autosomal dominant
 Mental retardation, autosomal recessive 48, 616269 (3), Autosomal recessive
 Hartnup disorder, 234500 (3), Autosomal recessive; Hyperglycinuria, 138500 (3), Autosomal dominant; Im
 {Nicotine dependence, protection against}, 188890 (3); Parkinsonism-dystonia, infantile, 1, 613135 (3), Au
 Hyperekplexia 3, 614618 (3), Autosomal recessive, Autosomal dominant
 Cerebral creatine deficiency syndrome 1, 300352 (3), X-linked recessive
 Glycine encephalopathy with normal serum glycine, 617301 (3), Autosomal recessive
 ?Lichtenstein-Knorr syndrome, 616291 (3), Autosomal recessive
 Mental retardation, X-linked syndromic, Christianson type, 300243 (3), X-linked dominant
 Intellectual developmental disorder, X-linked 108, 301024 (3), X-linked recessive
 Hypertrophic osteoarthropathy, primary, autosomal recessive 2, 614441 (3), Autosomal recessive
 Tourette syndrome, 137580 (3), Autosomal dominant; ?Trichotillomania, 613229 (3), Autosomal dominant,
 Fanconi anemia, complementation group P, 613951 (3), Autosomal recessive
 Schimke immunoosseous dysplasia, 242900 (3), Autosomal recessive
 Coffin-Siris syndrome 3, 614608 (3), Autosomal dominant; {Rhabdoid tumor predisposition syndrome 1}, 6
 Coffin-Siris syndrome 8, 618362 (3), Autosomal dominant
 Coffin-Siris syndrome 5, 616938 (3), Autosomal dominant; {Meningioma, familial, susceptibility to}, 607174
 Cornelia de Lange syndrome 2, 300590 (3), X-linked dominant
 Cornelia de Lange syndrome 3, 610759 (3), Autosomal dominant
 Bosma arhinia microphthalmia syndrome, 603457 (3), Autosomal dominant; Fascioscapulohumeral muscul
 Heart and brain malformation syndrome, 616920 (3), Autosomal recessive
 Spinal muscular atrophy-1, 253300 (3), Autosomal recessive; Spinal muscular atrophy-2, 253550 (3), Auto
 Niemann-Pick disease, type A, 257200 (3), Autosomal recessive; Niemann-Pick disease, type B, 607616 (3)
 Mental retardation, X-linked, Snyder-Robinson type, 309583 (3), X-linked recessive
 ?Myasthenic syndrome, congenital, 18, 616330 (3), Autosomal dominant
 Cerebral dysgenesis, neuropathy, ichthyosis, and palmoplantar keratoderma syndrome, 609528 (3), Autos
 Dementia, Lewy body, 127750 (3), Autosomal dominant; Parkinson disease 1, 168601 (3), Autosomal dom
 Psychomotor retardation, epilepsy, and craniofacial dysmorphism, 614501 (3), Autosomal recessive
 Leukoencephalopathy, brain calcifications, and cysts, 614561 (3), Autosomal recessive
 Prader-Willi syndrome, 176270 (3), Autosomal dominant
 Osteopetrosis, autosomal recessive 8, 615085 (3), Autosomal recessive
 Spinocerebellar ataxia, autosomal recessive 20, 616354 (3), Autosomal recessive
 Amyotrophic lateral sclerosis 1, 105400 (3), Autosomal recessive, Autosomal dominant; Spastic tetraplegia
 PCWH syndrome, 609136 (3), Autosomal dominant; Waardenburg syndrome, type 2E, with or without neu

Lamb-Shaffer syndrome, 616803 (3), Autosomal dominant
 Hepatic venoocclusive disease with immunodeficiency, 235550 (3), Autosomal recessive; {Mycobacterium
 Troyer syndrome, 275900 (3), Autosomal recessive
 Spastic paraplegia 4, autosomal dominant, 182601 (3), Autosomal dominant
 Epilepsy, hearing loss, and mental retardation syndrome, 616577 (3), Autosomal recessive
 Centronuclear myopathy 5, 615959 (3), Autosomal recessive
 Amyotrophic lateral sclerosis 5, juvenile, 602099 (3), Autosomal recessive; Charcot-Marie-Tooth disease,
 Mast syndrome, 248900 (3), Autosomal recessive
 Spastic paraplegia 7, autosomal recessive, 607259 (3), Autosomal recessive, Autosomal dominant
 Dystonia, dopa-responsive, due to sepiapterin reductase deficiency, 612716 (3), ?Autosomal dominant, Au
 Legius syndrome, 611431 (3), Autosomal dominant
 Hypogonadotropic hypogonadism 17 with or without anosmia, 615266 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 5, 613477 (3), Autosomal dominant
 Spinocerebellar ataxia 5, 600224 (3), Autosomal dominant; Spinocerebellar ataxia, autosomal recessive 1
 Neurodevelopmental disorder with hypotonia, neuropathy, and deafness, 617519 (3), Autosomal recessive
 Neuropathy, hereditary sensory and autonomic, type IC, 613640 (3), Autosomal dominant
 Frontotemporal dementia and/or amyotrophic lateral sclerosis 3, 616437 (3), Autosomal dominant; Myopat
 NULL
 ?Rolandic epilepsy, mental retardation, and speech dyspraxia, 300643 (3)
 ?Epileptic encephalopathy, early infantile, 15, 615006 (3), Autosomal recessive; Mental retardation, autoso
 Salt and pepper developmental regression syndrome, 609056 (3), Autosomal recessive
 Myopathy, congenital, Baily-Bloch, 255995 (3), Autosomal recessive
 Neurodevelopmental disorder, X-linked, with craniofacial abnormalities, 301022 (3), X-linked
 Microcephaly-capillary malformation syndrome, 614261 (3), Autosomal recessive
 NULL
 Autoimmune disease, multisystem, infantile-onset, 1, 615952 (3), Autosomal dominant; Hyper-IgE recurrent
 Microcephaly 7, primary, autosomal recessive, 612703 (3), Autosomal recessive
 Immunodeficiency 10, 612783 (3), Autosomal recessive; Myopathy, tubular aggregate, 1, 160565 (3), Auto
 Cerebroretinal microangiopathy with calcifications and cysts 2, 617341 (3), Autosomal recessive
 Polyhydramnios, megalencephaly, and symptomatic epilepsy, 611087 (3), Autosomal recessive
 Ichthyosis, X-linked, 308100 (3), X-linked recessive
 ?Spinocerebellar ataxia 48, 618093 (3), Autosomal dominant; Spinocerebellar ataxia, autosomal recessive
 Pseudohypoparathyroidism, type IB, 603233 (3), Autosomal dominant
 Generalized epilepsy with febrile seizures plus, type 9, 616172 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 4, 612164 (3), Autosomal dominant
 Mitochondrial DNA depletion syndrome 5 (encephalomyopathic with or without methylmalonic aciduria), 61
 Mitochondrial DNA depletion syndrome 9 (encephalomyopathic type with methylmalonic aciduria), 245400
 Basal cell nevus syndrome, 109400 (3), Autosomal dominant; Joubert syndrome 32, 617757 (3), Autosom
 Multiple sulfatase deficiency, 272200 (3), Autosomal recessive
 Sulfite oxidase deficiency, 272300 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, type 4K, 616684 (3), Autosomal recessive; Leigh syndrome, due to COX IV
 Arthrogryposis multiplex congenita, myogenic type, 618484 (3), Autosomal recessive; Emery-Dreifuss mus
 Emery-Dreifuss muscular dystrophy 5, autosomal dominant, 612999 (3), Autosomal dominant
 Mental retardation, autosomal dominant 5, 612621 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 53, 617389 (3), Autosomal recessive; Parkinson disease 20, earl

Mental retardation, X-linked 96, 300802 (3), X-linked recessive
 Baker-Gordon syndrome, 618218 (3), Autosomal dominant
 ?Spinocerebellar ataxia, autosomal recessive 11, 614229 (3), Autosomal recessive
 Myasthenic syndrome, congenital, 7, presynaptic, 616040 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 18, 615476 (3), Autosomal recessive
 Mitochondrial complex IV deficiency, 220110 (3), Autosomal recessive, Mitochondrial
 Dystonia-Parkinsonism, X-linked, 314250 (3), X-linked recessive; Mental retardation, X-linked, syndromic 3
 Mental retardation, autosomal recessive 60, 617432 (3), Autosomal recessive
 Mental retardation, autosomal recessive 40, 615599 (3), Autosomal recessive
 Alazami-Yuan syndrome, 617126 (3), Autosomal recessive
 Metabolic encephalomyopathic crises, recurrent, with rhabdomyolysis, cardiac arrhythmias, and neurodegeneration
 Amyotrophic lateral sclerosis 10, with or without FTD, 612069 (3), Autosomal dominant; Frontotemporal lobar degeneration
 Trichothiodystrophy 7, nonphotosensitive, 618546 (3), Autosomal recessive
 Tyrosinemia, type II, 276600 (3), Autosomal recessive
 Barth syndrome, 302060 (3), X-linked recessive
 Warburg micro syndrome 4, 615663 (3), Autosomal recessive
 Pontocerebellar hypoplasia, type 11, 617695 (3), Autosomal recessive
 DOORS syndrome, 220500 (3), Autosomal recessive; Deafness , autosomal recessive 86, 614617 (3), Autosomal recessive
 Encephalopathy, progressive, early-onset, with brain atrophy and thin corpus callosum, 617193 (3), Autosomal recessive
 Encephalopathy, progressive, with amyotrophy and optic atrophy, 617207 (3), Autosomal recessive; Hypotonia
 Hypotonia, infantile, with psychomotor retardation and characteristic facies 3, 616900 (3), Autosomal recessive
 {Encephalopathy, acute, infection-induced (herpes-specific), susceptibility to, 8}, 617900 (3), Autosomal dominant
 {Parkinson disease, susceptibility to}, 168600 (3), Autosomal dominant, Multifactorial; Spinocerebellar ataxia
 Intellectual developmental disorder with autism and speech delay, 606053 (3), Autosomal dominant
 Conotruncal anomaly face syndrome, 217095 (3); DiGeorge syndrome, 188400 (3), Autosomal dominant; Ischiocoxopodopatellar syndrome with or without pulmonary arterial hypertension, 147891 (3), Autosomal dominant
 Cardiomyopathy, hypertrophic, 25, 607487 (3), Autosomal dominant; Muscular dystrophy, limb-girdle, autosomal recessive
 Developmental delay with variable intellectual impairment and behavioral abnormalities, 618430 (3), Autosomal dominant
 Corneal dystrophy, Fuchs endothelial, 3, 613267 (3), Autosomal dominant; Pitt-Hopkins syndrome, 610955 (3), Autosomal recessive
 Osteopetrosis, autosomal recessive 1, 259700 (3), Autosomal recessive
 Treacher Collins syndrome 1, 154500 (3), Autosomal dominant
 Joubert syndrome 13, 614173 (3), Autosomal recessive
 Joubert syndrome 24, 616654 (3), Autosomal recessive; ?Meckel syndrome 8, 613885 (3), Autosomal recessive
 Joubert syndrome 18, 614815 (3), Autosomal recessive; Orofaciodigital syndrome IV, 258860 (3), Autosomal recessive
 ?Spinocerebellar ataxia, autosomal recessive, with axonal neuropathy 1, 607250 (3), Autosomal recessive
 Spastic paraplegia 49, autosomal recessive, 615031 (3), Autosomal recessive
 Mental retardation, autosomal recessive 14, 614020 (3), Autosomal recessive
 You-Hoover-Fong syndrome, 616954 (3), Autosomal recessive
 Essential tremor, hereditary, 5, 616736 (3), Autosomal dominant
 {Dyskeratosis congenita, autosomal dominant 2}, 613989 (3), Autosomal recessive, Autosomal dominant; NULL
 Hereditary motor and sensory neuropathy, Okinawa type, 604484 (3), Autosomal dominant; ?Spastic paraparesis
 Camurati-Engelmann disease, 131300 (3), Autosomal dominant; {Cystic fibrosis lung disease, modifier of}
 Loeys-Dietz syndrome 4, 614816 (3), Autosomal dominant
 Arrhythmogenic right ventricular dysplasia 1, 107970 (3), Autosomal dominant; Loeys-Dietz syndrome 5, 614817 (3), Autosomal dominant

Colorectal cancer, hereditary nonpolyposis, type 6, 614331 (3); Esophageal cancer, somatic, 133239 (3);
 Ichthyosis, congenital, autosomal recessive 1, 242300 (3), Autosomal recessive
 Spinocerebellar ataxia 35, 613908 (3), Autosomal dominant
 Segawa syndrome, recessive, 605407 (3), Autosomal recessive
 Dystonia 6, torsion, 602629 (3), Autosomal dominant
 Mental retardation, X-linked 12/35, 300957 (3), X-linked recessive
 Thrombocythemia 1, 187950 (3), Autosomal dominant
 Hypothyroidism, congenital, nongoitrous, 6, 614450 (3), Autosomal dominant
 Thyroid hormone resistance, 188570 (3), Autosomal dominant; Thyroid hormone resistance, autosomal re
 Welander distal myopathy, 604454 (3), Autosomal recessive, Autosomal dominant
 3-methylglutaconic aciduria, type IX, 617698 (3), Autosomal recessive
 Mohr-Tranebjaerg syndrome, 304700 (3), X-linked recessive
 Mitochondrial complex I deficiency, nuclear type 31, 618251 (3), Autosomal recessive
 Dyskeratosis congenita, autosomal dominant 3, 613990 (3), Autosomal dominant; Revesz syndrome, 268
 Mitochondrial DNA depletion syndrome 2 (myopathic type), 609560 (3), Autosomal recessive; ?Progressiv
 NULL
 Short stature, developmental delay, and congenital heart defects, 617044 (3), Autosomal recessive
 Mental retardation, autosomal dominant 57, 618050 (3), Autosomal dominant
 Craniofacial dysmorphism, skeletal anomalies, and mental retardation syndrome, 213980 (3), Autosomal r
 Leukodystrophy, hypomyelinating, 16, 617964 (3), Autosomal dominant
 ?Joubert syndrome 29, 617562 (3), Autosomal recessive; Meckel syndrome 13, 617562 (3), Autosomal re
 Mitochondrial complex I deficiency, nuclear type 29, 618250 (3), Autosomal recessive
 Joubert syndrome 2, 608091 (3), Autosomal recessive; Meckel syndrome 2, 603194 (3), Autosomal recess
 Joubert syndrome 20, 614970 (3), Autosomal recessive; Meckel syndrome 11, 615397 (3), Autosomal rec
 Joubert syndrome 14, 614424 (3), Autosomal recessive
 Spinocerebellar ataxia 21, 607454 (3), Autosomal dominant
 Arrhythmogenic right ventricular dysplasia 5, 604400 (3), Autosomal dominant; Emery-Dreifuss muscular c
 {Bardet-Biedl syndrome 14, modifier of}, 615991 (3), Autosomal recessive; COACH syndrome, 216360 (3)
 Mitochondrial complex V (ATP synthase) deficiency, nuclear type 2, 614052 (3), Autosomal recessive
 Iron-refractory iron deficiency anemia, 206200 (3), Autosomal recessive
 Osteopetrosis, autosomal recessive 2, 259710 (3), Autosomal recessive
 Mental retardation, autosomal recessive 54, 617028 (3), Autosomal recessive
 Nemaline myopathy 5, Amish type, 605355 (3), Autosomal recessive
 Muscular dystrophy, limb-girdle, autosomal dominant 2, 608423 (3), Autosomal dominant
 Ehlers-Danlos syndrome, classic-like, 1, 606408 (3), Autosomal recessive; Vesicoureteral reflux 8, 615963
 Pontocerebellar hypoplasia, type 7, 614969 (3), Autosomal recessive
 Spondyloepimetaphyseal dysplasia, sponastrime type, 271510 (3), Autosomal recessive
 Microcephaly, growth restriction, and increased sister chromatid exchange 2, 618097 (3), Autosomal recess
 {Dystonia-1, modifier of} (3); Dystonia-1, torsion, 128100 (3), Autosomal dominant
 ?Muscular dystrophy, autosomal recessive, with rigid spine and distal joint contractures, 617072 (3), Autos
 {Adrenocortical carcinoma, pediatric}, 202300 (3), Autosomal dominant; {Basal cell carcinoma 7}, 614740
 Hemolytic anemia due to triosephosphate isomerase deficiency, 615512 (3), Autosomal recessive
 Thiamine metabolism dysfunction syndrome 5 (episodic encephalopathy type), 614458 (3), Autosomal rec
 Arthrogryposis, distal, type 1A, 108120 (3), Autosomal dominant; Arthrogryposis, distal, type 2B4, 108120
 CAP myopathy 1, 609284 (3), Autosomal recessive, Autosomal dominant; Myopathy, congenital, with fiber

Ceroid lipofuscinosis, neuronal, 2, 204500 (3), Autosomal recessive; Spinocerebellar ataxia, autosomal recessive
 Cardiac, facial, and digital anomalies with developmental delay, 618164 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 68, 618201 (3), Autosomal recessive
 Muscular dystrophy, limb-girdle, autosomal recessive 18, 615356 (3), Autosomal recessive
 Encephalopathy, progressive, early-onset, with brain atrophy and spasticity, 617669 (3), Autosomal recessive
 Encephalopathy, progressive, early-onset, with episodic rhabdomyolysis, 618331 (3), Autosomal recessive
 Neurodevelopmental disorder with microcephaly, epilepsy, and brain atrophy, 617862 (3), Autosomal recessive
 Mental retardation, autosomal recessive 13, 613192 (3), Autosomal recessive
 Polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy 2, 618193 (3)
 Aicardi-Goutieres syndrome 1, dominant and recessive, 225750 (3), Autosomal recessive, Autosomal dominant
 Charcot-Marie-Tooth disease, type 2R, 615490 (3), Autosomal recessive
 ?Bardet-Biedl syndrome 11, 615988 (3), Autosomal recessive; Muscular dystrophy, limb-girdle, autosomal recessive
 Mulibrey nanism, 253250 (3), Autosomal recessive
 NULL
 Mental retardation, autosomal dominant 44, 617061 (3), Autosomal dominant
 Mental retardation, autosomal dominant 49, 617752 (3), Autosomal dominant
 Mosaic variegated aneuploidy syndrome 3, 617598 (3), Autosomal recessive
 ?Muscular dystrophy, congenital, Davignon-Chauveau type, 617066 (3), Autosomal recessive; Spinal muscular atrophy
 Combined oxidative phosphorylation deficiency 35, 617873 (3), Autosomal recessive
 Microcephaly, short stature, and impaired glucose metabolism 1, 616033 (3), Autosomal recessive
 Combined oxidative phosphorylation deficiency 26, 616539 (3), Autosomal recessive
 {Deafness, mitochondrial, modifier of}, 580000 (3), Mitochondrial; Liver failure, transient infantile, 613070 (3)
 ?Spinocerebellar ataxia 41, 616410 (3), Autosomal dominant
 ?Avascular necrosis of femoral head, primary, 2, 617383 (3), Autosomal dominant; Brachyolmia type 3, 115200 (3)
 Focal cortical dysplasia, type II, somatic, 607341 (3); Lymphangioliomyomatosis, 606690 (3); Tuberous sclerosis
 ?Focal cortical dysplasia, type II, somatic, 607341 (3); Lymphangioliomyomatosis, somatic, 606690 (3); Tuberous sclerosis
 Pontocerebellar hypoplasia, type 2F, 617026 (3), Autosomal recessive
 Pontocerebellar hypoplasia type 2B, 612389 (3), Autosomal recessive
 ?Pontocerebellar hypoplasia type 2C, 612390 (3), Autosomal recessive
 Pontocerebellar hypoplasia type 2A, 277470 (3), Autosomal recessive; Pontocerebellar hypoplasia type 4, 612390 (3)
 Combined oxidative phosphorylation deficiency 3, 610505 (3), Autosomal recessive
 Hyperthyroidism, familial gestational, 603373 (3); Hyperthyroidism, nonautoimmune, 609152 (3), Autosomal recessive
 Mental retardation, X-linked 58, 300210 (3), X-linked recessive
 Sudden infant death with dysgenesis of the testes syndrome, 608800 (3), Autosomal recessive
 Spinocerebellar ataxia 11, 604432 (3), Autosomal dominant
 Mitochondrial complex III deficiency, nuclear type 2, 615157 (3), Autosomal recessive
 Bardet-Biedl syndrome 8, 615985 (3), Autosomal recessive; ?Retinitis pigmentosa 51, 613464 (3), Autosomal recessive
 Mental retardation, autosomal recessive 39, 615541 (3), Autosomal recessive
 Cardiomyopathy, dilated, 1G, 604145 (3); Cardiomyopathy, familial hypertrophic, 9, 613765 (3), Autosomal recessive
 Ataxia with isolated vitamin E deficiency, 277460 (3), Autosomal recessive
 Amyloidosis, hereditary, transthyretin-related, 105210 (3), Autosomal dominant; Carpal tunnel syndrome, familial
 Cortical dysplasia, complex, with other brain malformations 8, 613180 (3), Autosomal recessive
 Cortical dysplasia, complex, with other brain malformations 7, 610031 (3), Autosomal dominant
 Cortical dysplasia, complex, with other brain malformations 1, 614039 (3), Autosomal dominant; Fibrosis of the lungs
 Dystonia 4, torsion, autosomal dominant, 128101 (3), Autosomal dominant; Leukodystrophy, hypomyelinating

NULL

Combined oxidative phosphorylation deficiency 4, 610678 (3), Autosomal recessive

Leber congenital amaurosis 15, 613843 (3), Autosomal recessive; Retinitis pigmentosa 14, 600132 (3), Autosomal recessive

Mental retardation, autosomal recessive 7, 611093 (3), Autosomal recessive

Craniosynostosis 1, 123100 (3), Autosomal dominant; Robinow-Sorauf syndrome, 180750 (3), Autosomal dominant

Mitochondrial DNA depletion syndrome 7 (hepatocerebral type), 271245 (3), Autosomal recessive; Perrault syndrome, 271245 (3), Autosomal recessive

?Combined oxidative phosphorylation deficiency 29, 616811 (3), Autosomal recessive

Mitochondrial DNA depletion syndrome 1 (MNGIE type), 603041 (3), Autosomal recessive

Polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy 1, 221770 (3), Autosomal recessive

Spinal muscular atrophy, X-linked 2, infantile, 301830 (3), X-linked recessive

Epileptic encephalopathy, early infantile, 44, 617132 (3), Autosomal recessive; ?Spinocerebellar ataxia, autosomal recessive 1, 617132 (3), Autosomal recessive

Spastic paraplegia 80, autosomal dominant, 618418 (3), Autosomal dominant

Fanconi anemia, complementation group T, 616435 (3), Autosomal recessive

Angelman syndrome, 105830 (3), Autosomal dominant

Amyotrophic lateral sclerosis 15, with or without frontotemporal dementia, 300857 (3), X-linked dominant

Neurodegeneration, childhood-onset, with brain atrophy, 617672 (3), Autosomal dominant

{?Parkinson disease 5, susceptibility to}, 613643 (3); Spastic paraplegia 79, autosomal recessive, 615491 (3), Autosomal recessive

Neurodevelopmental disorder with spasticity and poor growth, 618076 (3), Autosomal recessive

Leukodystrophy, hypomyelinating, 14, 617899 (3), Autosomal recessive

?Hip dysplasia, Beukes type, 142669 (3), Autosomal dominant; ?Spondyloepimetaphyseal dysplasia, Di Rubeo type, 142669 (3), Autosomal dominant

NULL

NULL

[Bilirubin, serum level of, QTL1], 601816 (3); Crigler-Najjar syndrome, type I, 218800 (3), Autosomal recessive

Hypotonia, infantile, with psychomotor retardation and characteristic facies 2, 616801 (3), Autosomal recessive

Beta-ureidopropionase deficiency, 613161 (3), Autosomal recessive

Mental retardation, X-linked, syndromic 14, 300676 (3), X-linked recessive

Mitochondrial complex III deficiency, nuclear type 7, 615824 (3), Autosomal recessive

Mitochondrial complex III deficiency, nuclear type 4, 615159 (3), Autosomal recessive

?Urocanase deficiency, 276880 (3), Autosomal recessive

Retinitis pigmentosa 39, 613809 (3); Usher syndrome, type 2A, 276901 (3), Autosomal recessive

Mental retardation, X-linked 105, 300984 (3), X-linked recessive

NULL

Mental retardation, X-linked 99, 300919 (3), X-linked recessive; Mental retardation, X-linked 99, syndromic 99, 300919 (3), X-linked recessive

Striatonigral degeneration, childhood-onset, 617054 (3), Autosomal recessive

Myasthenic syndrome, congenital, 25, 618323 (3), Autosomal recessive; Spastic ataxia 1, autosomal dominant 1, 618323 (3), Autosomal dominant

NULL

Caudal regression syndrome, 600145 (3), Autosomal dominant; {Neural tube defects, susceptibility to}, 180300 (3), Autosomal dominant

Amyotrophic lateral sclerosis 8, 608627 (3), Autosomal dominant; Spinal muscular atrophy, late-onset, Finnish type, 608627 (3), Autosomal dominant

Neurodevelopmental disorder with microcephaly, seizures, and cortical atrophy, 617802 (3), Autosomal recessive

Amyotrophic lateral sclerosis 14, with or without frontotemporal dementia, 613954 (3); Charcot-Marie-Tooth disease, type 1, 613954 (3), Autosomal dominant

?Osteoporosis, involutional, 166710 (1), Autosomal dominant; Rickets, vitamin D-resistant, type IIA, 277440 (3), Autosomal dominant

Erythrocytosis, familial, 2, 263400 (3), Autosomal recessive; Hemangioblastoma, cerebellar, somatic (3), Familial hemangioblastoma, 263400 (3), Autosomal recessive

Cerebellar hypoplasia and mental retardation with or without quadrupedal locomotion 1, 224050 (3), Autosomal recessive

Leukodystrophy, hypomyelinating, 12, 616683 (3), Autosomal recessive

Choreoacanthocytosis, 200150 (3), Autosomal recessive

Parkinson disease 23, autosomal recessive, early onset, 616840 (3), Autosomal recessive
 Spinocerebellar ataxia, autosomal recessive 4, 607317 (3), Autosomal recessive
 Mucopolysaccharidosis-plus syndrome, 617303 (3), Autosomal recessive
 {Parkinson disease 17}, 614203 (3), Autosomal dominant
 Spastic paraplegia 53, autosomal recessive, 614898 (3), Autosomal recessive
 Pontocerebellar hypoplasia type 1A, 607596 (3), Autosomal recessive
 ?Spinocerebellar ataxia, autosomal recessive 22, 616948 (3), Autosomal recessive
 Desanto-Shinawi syndrome, 616708 (3), Autosomal dominant
 Neuronopathy, distal hereditary motor, type IX, 617721 (3), Autosomal dominant
 Neurodevelopmental disorder, mitochondrial, with abnormal movements and lactic acidosis, with or without
 Neutropenia, severe congenital, X-linked, 300299 (3), X-linked recessive; Thrombocytopenia, X-linked, 31
 NULL
 ?Mental retardation, autosomal recessive 43, 615817 (3), Autosomal recessive
 Ritscher-Schinzel syndrome 1, 220210 (3), Autosomal recessive; Spastic paraplegia 8, autosomal domina
 Hypogonadotropic hypogonadism 14 with or without anosmia, 614858 (3), Autosomal dominant
 Skraban-Deardorff syndrome, 617616 (3), Autosomal dominant
 Galloway-Mowat syndrome 6, 618347 (3), Autosomal recessive; Microcephaly, growth deficiency, seizures
 Neurodegeneration with brain iron accumulation 5, 300894 (3), X-linked dominant
 Neurodevelopmental disorder with spastic quadriplegia and brain abnormalities with or without seizures, 6
 Microcephaly 2, primary, autosomal recessive, with or without cortical malformations, 604317 (3), Autosom
 Galloway-Mowat syndrome 1, 251300 (3), Autosomal recessive
 Cerebellar ataxia, mental retardation, and dysequilibrium syndrome 2, 610185 (3), Autosomal recessive; H
 ?Cataract 41, 116400 (3), Autosomal dominant; Deafness, autosomal dominant 6/14/38, 600965 (3), Auto
 ?Wiskott-Aldrich syndrome 2, 614493 (3)
 ?Intellectual developmental disorder with short stature and variable skeletal anomalies, 618453 (3), Autos
 Neuropathy, hereditary sensory and autonomic, type II, 201300 (3), Autosomal recessive; Pseudohypoald
 Epileptic encephalopathy, early infantile, 28, 616211 (3), Autosomal recessive; Esophageal squamous cell
 McLeod syndrome with or without chronic granulomatous disease, 300842 (3), X-linked
 Xeroderma pigmentosum, group A, 278700 (3), Autosomal recessive
 Xeroderma pigmentosum, group C, 278720 (3), Autosomal recessive
 Nephronophthisis-like nephropathy 1, 613159 (3), Autosomal recessive
 Basal ganglia calcification, idiopathic, 6, 616413 (3), Autosomal dominant
 ?Spinocerebellar ataxia, autosomal recessive 26, 617633 (3), Autosomal recessive
 ?Fanconi anemia, complementation group U, 617247 (3), Autosomal recessive
 Short stature, microcephaly, and endocrine dysfunction, 616541 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, dominant intermediate C, 608323 (3), Autosomal dominant
 ?Optic atrophy 11, 617302 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 56, 617665 (3), Autosomal dominant
 Gabriele-de Vries syndrome, 617557 (3), Autosomal dominant
 Primrose syndrome, 259050 (3), Autosomal dominant
 Mental retardation, autosomal recessive 56, 617125 (3), Autosomal recessive
 Wieacker-Wolff syndrome, 314580 (3), X-linked recessive
 Mental retardation, X-linked syndromic, Raymond type, 300799 (3)
 ?Marsili syndrome, 147430 (3), Autosomal dominant
 Spastic paraplegia 15, autosomal recessive, 270700 (3), Autosomal recessive

Spastic paraplegia 33, autosomal dominant, 610244 (3), Autosomal dominant
Mandibuloacral dysplasia with type B lipodystrophy, 608612 (3), Autosomal recessive; Restrictive dermopathy, 608612 (3), Autosomal recessive
Neurodevelopmental disorder with impaired speech and hyperkinetic movements, 618425 (3), Autosomal recessive
Microcephaly 10, primary, autosomal recessive, 615095 (3), Autosomal recessive
?Exudative vitreoretinopathy 6, 616468 (3), Autosomal dominant; Retinitis pigmentosa 72, 616469 (3), Autosomal dominant
Mental retardation, X-linked 97, 300803 (3), X-linked
PEHO syndrome, 260565 (3), Autosomal recessive
Acromelic frontonasal dysostosis, 603671 (3), Autosomal dominant; Neurodevelopmental disorder with microcephaly, 603671 (3), Autosomal dominant
NULL
Joubert syndrome 26, 616784 (3), Autosomal recessive

(3), Autosomal dominant

recessive, Autosomal dominant; ?Myopathy, scapulohumeroperoneal, 616852 (3), Autosc

.I recessive

it

0 (3), X-linked recessive; Proud syndrome, 300004 (3), X-linked

drome 7, 613706 (3), Autosomal dominant

270685 (3), Autosomal dominant

Autosomal dominant; Spinocerebellar ataxia 6, 183086 (3), Autosomal dominant

3 (3), Autosomal dominant; Hypocalciuric hypercalcemia, type I, 145980 (3), Autosomal dc
isease 2, 606072 (3), Autosomal dominant

3, Digenic recessive

associated with acetylcholine receptor deficiency, 616323 (3), Autosomal recessive
1 (3), Autosomal recessive

605635 (3), Autosomal dominant; Leukoencephalopathy with ataxia, 615651 (3), Autosor

ogenesis imperfecta, type II, 166210 (3), Autosomal dominant; Osteogenesis imperfecta, type I dominant; Kniest dysplasia, 156550 (3), Autosomal dominant; Legg-Calve-Perthes disease; cerebellar ataxia, pontine, autosomal dominant, 618564 (3), Autosomal dominant; ?Retinal atrophy

), Autosomal recessive

y to}, 152700 (3), Autosomal dominant

iant; Ovarian cancer, somatic, 167000 (3); Pilomatricoma, somatic, 132600 (3)

ssive

osomal recessive

osomal recessive; {Obesity, susceptibility to}, 601665 (3), Autosomal recessive, Autosom:

essive

Macular degeneration, age-related, susceptibility to, 5}, 613761 (3); Premature ovarian fai

ominant

608895 (3), Autosomal dominant
4700 (3), Autosomal dominant; Stiff skin syndrome, 184900 (3), Autosomal dominant; Wei

onic dysplasia, 166250 (3), Autosomal dominant; Pfeiffer syndrome, 101600 (3), Autosomal dominant; Craniofacial-skeletal-dermatologic dysplasia, 101600 (3), Autosomal dominant; .2247 (3), Autosomal dominant; Hypochondroplasia, 146000 (3), Autosomal dominant; LA

ryopathy, X-linked 1b, with late childhood or adult onset, 300718 (3), X-linked; Scapuloperi

nopathy (limb-girdle), type C, 5, 607155 (3), Autosomal recessive
{), Autosomal recessive; Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 4, {

Intestinal pseudoobstruction, neuronal, 300048 (3), X-linked recessive; Melnick-Needles s

})

tosomal recessive; {Lewy body dementia, susceptibility to}, 127750 (3), Autosomal dominant

Charcot-Marie-Tooth disease, type 4A, 214400 (3), Autosomal recessive

e 4, 617898 (3), Autosomal dominant

l recessive; Oculodentodigital dysplasia, 164200 (3), Autosomal dominant; Oculodentodig

-deafness syndrome, 148210 (3), Autosomal dominant; Keratoderma, palmoplantar, with c

(limb-girdle), type C, 14, 615352 (3), Autosomal recessive

roidism Ia, 103580 (3), Autosomal dominant; Pseudohypoparathyroidism Ib, 603233 (3),

atelet-type, 177820 (3), Autosomal dominant

a variegata, susceptibility to}, 176200 (3), Autosomal dominant; [Transferrin serum level Q

), Autosomal dominant

atic mosaic, 163200 (3); Spitz nevus or nevus spilus, somatic, 137550 (3); Thyroid carcin

ar type}, 610149 (3)

t; Invasive pneumococcal disease, recurrent isolated, 2, 300640 (3)

utation; Lung cancer, somatic, 211980 (3); Noonan syndrome 3, 609942 (3), Autosomal d

congenital idiopathic intestinal pseudoobstruction, 307000 (3), X-linked recessive; MASA

, 238320 (3), Autosomal recessive; Precocious puberty, male, 176410 (3), Autosomal don

e, 616516 (3), Autosomal recessive; Heart-hand syndrome, Slovenian type, 610140 (3), A

Supranuclear palsy, progressive atypical, 260540 (3), Autosomal recessive

me, 312750 (3), X-linked dominant; Rett syndrome, atypical, 312750 (3), X-linked dominanc

Autosomal dominant; Dejerine-Sottas disease, 145900 (3), Autosomal recessive, Autosomal c

/ascular disease, susceptibility to} (3)

and variable skeletal fusions syndrome 1B, 618469 (3), Autosomal recessive
nal dominant, 608358 (3), Autosomal dominant; Myopathy, myosin storage, autosomal re

Watson syndrome, 193520 (3), Autosomal dominant

ant; Muckle-Wells syndrome, 191900 (3), Autosomal dominant
on syndrome, 186570 (3), Autosomal dominant

erative syndrome type IV, somatic, 614470 (3); Schimmelpenning-Feuerstein-Mims syndr

Autosomal dominant

ninant; Foveal hypoplasia 1, 136520 (3), Autosomal dominant; Keratitis, 148190 (3), Auto:

aging syndrome, Penttinen type, 601812 (3), Autosomal dominant

mal dominant; Neuropathy, recurrent, with pressure palsies, 162500 (3), Autosomal domi

Progressive external ophthalmoplegia, autosomal dominant 1, 157640 (3), Autosomal dom

mb-girdle), type C, 3, 613157 (3), Autosomal recessive; Retinitis pigmentosa 76, 617123 (

mb-girdle), type C, 1, 609308 (3), Autosomal recessive

mb-girdle), type C, 2, 613158 (3), Autosomal recessive

L, 610489 (3), Autosomal dominant

00072 (3), Autosomal dominant; {Kuru, susceptibility to}, 245300 (3); Prion disease with p

1 (3), X-linked recessive

rs, 607822 (3), Autosomal dominant; Cardiomyopathy, dilated, 1U, 613694 (3), Autosoma

s, autosomal dominant 5, 613077 (3), Autosomal dominant

tosomal dominant

recessive; Neuromuscular disease, congenital, with uniform type 1 fiber, 117000 (3), Auto

3), Autosomal dominant
(3), Autosomal recessive

Autosomal dominant; Paramyotonia congenita, 168300 (3), Autosomal dominant
variant
Autosomal recessive, 243000 (3), Autosomal recessive; Insensitivity to pain, congenital, 2430

omal dominant 2, 609283 (3), Autosomal dominant

et, 612126 (3), Autosomal dominant; Stomatin-deficient cryohydrocytosis with neurologic c

isease of bone 3, 167250 (3), Autosomal dominant

somal recessive; Epileptic encephalopathy, early infantile, 16, 615338 (3), Autosomal rece

{[Melanoma, cutaneous malignant, 9], 615134 (3); {Pulmonary fibrosis and/or bone marro

ive; ?RHYNS syndrome, 602152 (3), Autosomal recessive

inant; {Colorectal cancer}, 114500 (3), Autosomal dominant, Somatic mutation; {Glioma s

ant

rophy, 192315 (3), Autosomal dominant

inant; Metatropic dysplasia, 156530 (3), Autosomal dominant; Parastremmatic dwarfism

inant; Salih myopathy, 611705 (3), Autosomal recessive; Tibial muscular dystrophy, tardiv

Autosomal recessive

ome, autosomal dominant, 614296 (3), Autosomal dominant

omal dominant; Nemaline myopathy 3, autosomal dominant or recessive, 161800 (3), Autc

ominant

nal recessive

type III, 259420 (3), Autosomal dominant; Osteogenesis imperfecta, type IV, 166220 (3), Autosomal recessive; Osteoarthritis with mild chondrodysplasia, 604864 (3), Autosomal recessive; Arteries, tortuosity of, 180000 (3), Autosomal dominant

al dominant, Multifactorial

lure 11, 616946 (3), Autosomal dominant; UV-sensitive syndrome 1, 600630 (3), Autosom

II-Marchesani syndrome 2, dominant, 608328 (3), Autosomal dominant

nal dominant; Trigonocephaly 1, 190440 (3), Autosomal dominant
inant; Craniosynostosis, nonspecific (3); Crouzon syndrome, 123500 (3), Autosomal dom
.DD syndrome, 149730 (3), Autosomal dominant; Muenke syndrome, 602849 (3), Autosor
roneal myopathy, X-linked dominant, 300695 (3), X-linked dominant; ?Uruguay faciocardic

311588 (3), Autosomal recessive

syndrome, 309350 (3), X-linked dominant; Otopalatodigital syndrome, type I, 311300 (3), >

ant; {Parkinson disease, late-onset, susceptibility to}, 168600 (3), Autosomal dominant, M

ital dysplasia, autosomal recessive, 257850 (3), Autosomal recessive; Palmoplantar keral
deafness, 148350 (3), Autosomal dominant; Vohwinkel syndrome, 124500 (3), Autosomal

Autosomal dominant; Pseudohypoparathyroidism Ic, 612462 (3), Autosomal dominant; Ps

TL2], 614193 (3)

oma, follicular, somatic, 188470 (3)

lominant; Oculoectodermal syndrome, somatic, 600268 (3); Pancreatic carcinoma, somati

syndrome, 303350 (3), X-linked recessive

ninant

utosomal dominant; Hutchinson-Gilford progeria, 176670 (3), Autosomal recessive, Autos

unt; Rett syndrome, preserved speech variant, 312750 (3), X-linked dominant

dominant; Hypomyelinating neuropathy, congenital, 2, 618184 (3), Autosomal dominant; F

cessive, 255160 (3), Autosomal recessive; Scapuloperoneal syndrome, myopathic type, 1

ome, somatic mosaic, 163200 (3); Thyroid carcinoma, follicular, somatic, 188470 (3)

somal dominant; ?Morning glory disc anomaly, 120430 (3), Autosomal dominant; Optic ne

nant; Roussy-Levy syndrome, 180800 (3), Autosomal dominant

inant; Progressive external ophthalmoplegia, autosomal recessive 1, 258450 (3), Autosor

(3), Autosomal recessive

protracted course, 606688 (3), Autosomal dominant

I dominant; Dementia, frontotemporal, 600274 (3), Autosomal dominant; Pick disease, 17;

isomal recessive, Autosomal dominant

00 (3), Autosomal recessive; Paroxysmal extreme pain disorder, 167400 (3), Autosomal c

defects, 608885 (3), Autosomal dominant

ressive; Myoclonic epilepsy, infantile, familial, 605021 (3), Autosomal recessive

w failure, telomere-related, 1}, 614742 (3), Autosomal dominant

usceptibility 1}, 137800 (3), Autosomal dominant, Somatic mutation; Hepatocellular carcin

l, 168400 (3), Autosomal dominant; SED, Maroteaux type, 184095 (3), Autosomal domina

ve, 600334 (3), Autosomal dominant

Autosomal recessive, Autosomal dominant

Autosomal dominant

3), Autosomal dominant; Platyspondylic skeletal dysplasia, Torrance type, 151210 (3), Au

al recessive

inant; Gastric cancer, somatic, 613659 (3); Jackson-Weiss syndrome, 123150 (3), Autosomal dominant; Nevus, epidermal, somatic, 162900 (3); SADDAN, 616482 (3), Autosomal c
omusculoskeletal syndrome, 300280 (3), X-linked recessive

X-linked dominant; Otopalatodigital syndrome, type II, 304120 (3), X-linked dominant; Terr

ultifactorial

toaderma with congenital alopecia, 104100 (3), Autosomal dominant; Syndactyly, type III, 1
dominant

pseudopseudohypoparathyroidism, 612463 (3), Autosomal dominant

ic, 260350 (3); RAS-associated autoimmune leukoproliferative disorder, 614470 (3), Autos

somal dominant; Lipodystrophy, familial partial, type 2, 151660 (3), Autosomal dominant; N

roussy-Levy syndrome, 180800 (3), Autosomal dominant

.81430 (3), Autosomal dominant

erve hypoplasia, 165550 (3), Autosomal dominant

nal recessive

2700 (3), Autosomal dominant

dominant; Small fiber neuropathy, 133020 (3), Autosomal dominant

lioma, somatic, 114550 (3); Li-Fraumeni syndrome, 151623 (3), Autosomal dominant; Nas

nt; Scapuloperoneal spinal muscular atrophy, 181405 (3), Autosomal dominant; [Sodium :

tosomal dominant; SED congenita, 183900 (3), Autosomal dominant; SMED Strudwick ty|

omal dominant; LADD syndrome, 149730 (3), Autosomal dominant; Pfeiffer syndrome, 101
lominant; Spermatocytic seminoma, somatic, 273300 (3); Thanatophoric dysplasia, type I,

ninal osseous dysplasia, 300244 (3), X-linked dominant

.86100 (3), Autosomal dominant

somal dominant; Schimmelpenning-Feuerstein-Mims syndrome, somatic mosaic, 163200

Malouf syndrome, 212112 (3), Autosomal dominant; Mandibuloacral dysplasia, 248370 (3)

opharyngeal carcinoma, somatic, 607107 (3); {Osteosarcoma}, 259500 (3), Somatic muta

serum level QTL 1], 613508 (3); Spinal muscular atrophy, distal, congenital nonprogressiv

pe, 184250 (3), Autosomal dominant; Spondyloepiphyseal dysplasia, Stanescu type, 6165

1600 (3), Autosomal dominant; Saethre-Chotzen syndrome, 101400 (3), Autosomal dominant; 187600 (3), Autosomal dominant; Thanatophoric dysplasia, type II, 187601 (3), Autosomal dominant

(3)

), Autosomal recessive; Muscular dystrophy, congenital, 613205 (3), Autosomal dominant

tion; Pancreatic cancer, somatic, 260350 (3)

re, 600175 (3), Autosomal dominant; Spondylometaphyseal dysplasia, Kozlowski type, 18.

583 (3), Autosomal dominant; Spondyloperipheral dysplasia, 271700 (3), Autosomal domi

ant; Scaphocephaly and Axenfeld-Rieger anomaly (3); Scaphocephaly, maxillary retrusion
al dominant

; Restrictive dermopathy, lethal, 275210 (3), Autosomal recessive

4252 (3), Autosomal dominant

ant; Stickler syndrome, type I, nonsyndromic ocular, 609508 (3), Autosomal dominant; Stic

n, and mental retardation, 609579 (3)

ckler syndrome, type I, 108300 (3), Autosomal dominant; Vitreoretinopathy with phalangeal

al epiphyseal dysplasia (3)

Table S2: Monogenic disease-ca

Approved symbol	MIM number
PSEN1	104311
BLNK	604515
LRRC8A	608360
PIK3R1	171833
B2M	109700
STEAP3	609671
NEK9	609798
PCNA	176740
CASP8	601763
ABCD3	170995
IL17F	606496
TRAF3IP2	607043
ERCC2	126340
NAGLU	609701
SEMA3E	608166
PAX6	607108
COG2	606974
DDOST	602202
ALG13	300776
SEC23B	610512
FBLN5	604580
RPL26	603704
ACD	609377
DEAF1	602635
ACTB	102630
KDF1	616758
PLEC	601282
LMNB2	150341
SPECC1L	614140
NLRC4	606831
RAD51	179617
XRCC2	600375
MAD2L2	604094
RFWD3	614151
SLC52A3	613350
FLNA	300017
SOS1	182530
NCF4	601488
HOXA13	142959
AP3D1	607246
BLOC1S6	604310
ECE1	600423
BCO1	605748

UNC119	604011
TNFRSF4	600315
LCK	153390
CD247	186780
BCL10	603517
IRF7	605047
IL21	605384
HNRNPA2B1	600124
ADAM17	603639
EGFR	131550
ADCY6	600294
SCNN1A	600228
CAV1	601047
CIDEA	612120
CDC6	602627
NAA10	300013
HYAL1	607071
RAD21	606462
CHRNA1	100720
CHCHD10	615903
ACTA1	102610
COL6A2	120240
PMP22	601097
GFI1	600871
MBTPS2	300294
TK2	188250
CHRM3	118494
LBR	600024
TMEM67	609884
WNT4	603490
ADA2	607575
APC2	612034
UBA5	610552
RIPPLY2	609891
WNT3	165330
SRC	190090
TBXAS1	274180
RNF113A	300951
UROC1	613012
ARNT2	606036
WIPF1	602357
PLA2G2A	172411
TP53	191170
KIF5A	602821
SBDS	607444

TERC	602322
CLEC7A	606264
TBX21	604895
MECP2	300005
FAS	134637
ATM	607585
PALB2	610355
RAD51C	602774
F5	612309
ODC1	165640
GALNT12	610290
POLD1	174761
POLE	174762
TLR2	603028
TGFB1	190180
FLG	135940
TERT	187270
DNAAF4	608706
TBK1	604834
NUP214	114350
MSH6	600678
MMP1	120353
CASR	601199
GABRD	137163
SLC2A1	138140
SPINK1	167790
IL1RN	147679
PTEN	601728
POT1	606478
IFNGR1	107470
CFH	134370
CFI	217030
CFB	138470
C3	120700
RET	164761
EDNRB	131244
GDNF	600837
EDN3	131242
PRNP	176640
GBA	606463
ERCC6	609413
RYR1	180901
CDKN2A	600160
CDK4	123829
MITF	156845

SMARCE1	603111
ESR1	133430
CCND1	168461
TNFRSF1A	191190
SP110	604457
GATA2	137295
ITGB3	173470
VANGL1	610132
PHOX2B	603851
GP1BA	606672
MET	164860
COL1A2	120160
TNFRSF11A	603499
PALLD	608092
PRSS2	601564
CTRC	601405
CFTR	602421
COMT	116790
CDH23	605516
HFE	613609
F2	176930
MUC5B	600770
SMARCB1	601607
SMARCA4	603254
BTNL2	606000
SHANK3	606230
LZTR1	600574
TREX1	606609
NKX2-1	600635
FOXE1	602617
HABP2	603924
F9	300746
MCCC2	609014
SERAC1	614725
CLPB	616254
HTRA2	606441
OPLAH	614243
AAAS	605378
SLC26A2	606718
COL2A1	120140
NCSTN	605254
PSENEN	607632
SLC39A4	607059
PRKAR1A	188830
PDE4D	600129

MUTYH	604933
APC	611731
ADA	608958
PKLR	609712
SMARCAD1	612761
TP63	603273
FGA	134820
FGB	134830
FGG	134850
IGHM	147020
IGLL1	146770
CD79A	112205
CD79B	147245
TCF3	147141
BTK	300300
RNASEH2C	610330
RNASEH2A	606034
IFIH1	606951
GMPPA	615495
NOTCH2	600275
HGD	607474
AMACR	604489
COL4A5	303630
COL4A3	120070
COL4A4	120131
ALMS1	606844
ATP1A3	182350
APOA1	107680
OSMR	601743
LYZ	153450
SOD1	147450
TARDBP	605078
UBQLN2	300264
CHMP2B	609512
ALS2	606352
MATR3	164015
SETX	608465
SPG11	610844
RMRP	157660
GLRX5	609588
HSPA9	600548
GATA1	305371
SERPING1	606860
DDC	107930
DSP	125647

ENPP1	173335
ABCC6	603234
VPS33B	608552
VIPAS39	613401
PRPS1	311850
AGA	613228
RPSA	150370
SAMD9L	611170
FLVCR1	609144
TF	190000
GNAI3	139370
STAT3	102582
ZAP70	176947
ITCH	606409
FASLG	134638
CASP10	601762
PRKCD	176977
CTLA4	123890
AIRE	607358
NLRP1	606636
PLCG2	600220
OTULIN	615712
CARD11	607210
TAP1	170260
TAPBP	601962
TAP2	170261
RFX5	601863
RFXAP	601861
GJB2	121011
TAZ	300394
PDGFRB	173410
THOC6	615403
GP1BB	138720
COL6A1	120220
COL6A3	120250
HSD3B7	607764
AKR1D1	604741
CYP7B1	603711
BTD	609019
FLCN	607273
BCS1L	603647
NOD2	605956
ITGA2B	607759
GFI1B	604383
FLI1	193067

CDH1	192090
BLM	604610
ASXL1	612990
ERCC6L2	615667
DNAJC21	617048
ROR2	602337
PAPSS2	603005
TFAP2A	107580
SCNN1B	600760
SCNN1G	600761
SLC52A2	607882
KCND3	605411
CD96	606037
C1QA	120550
C1QB	120570
C1QC	120575
C2	613927
C4A	120810
C5	120900
C6	217050
C7	217070
C8A	120950
C8B	120960
C9	120940
COL1A1	120150
PRG4	604283
ASPA	608034
CARD9	607212
IL17RC	610925
TPM3	191030
TPM2	190990
KRAS	190070
MAP2K2	601263
BRAF	164757
MAP3K7	602614
MYMK	615345
RAB23	606144
TGDS	616146
CD8A	186910
ASCL1	100790
MAP3K20	609479
SLC6A8	300036
ADD3	601568
SNRPB	182282
ERCC5	133530

ERCC1	126380
STN1	613128
CTC1	613129
CYP27A1	606530
CLN3	607042
MPV17	137960
MPZ	159440
RAB7A	602298
LMNA	150330
CHD7	608892
LYST	606897
PIGL	605947
ERF	611888
ABCB11	603201
ATP8B1	602397
ABCB4	171060
LIPA	613497
EBP	300205
AFF4	604417
VPS13A	605978
NCF1	608512
NCF2	608515
CYBA	608508
CYBB	300481
NLRP3	606416
SLC25A13	603859
NECTIN1	600644
MEIS2	601740
RUNX2	600211
CC2D2A	612013
RPGRIP1L	610937
ERCC8	609412
COQ4	612898
ARID1B	614556
ARID1A	603024
ARID2	609539
SOX11	600898
VPS13B	607817
CRLF1	604237
KLHL7	611119
MSH2	609309
BAX	600040
BUB1B	602860
CTNNB1	116806
MCC	159350

RAG1	179615
RAG2	179616
LPL	609708
IL2RG	308380
TRMT10C	615423
C12ORF65	NA
PSAP	176801
CFD	134350
NALCN	611549
PMM2	601785
MAGT1	300715
DPM1	603503
MPDU1	604041
ALG12	607144
MOGS	601336
SLC35C1	605881
COG7	606978
SLC35A1	605634
COG4	606976
SLC35A2	314375
CCDC115	613734
ALG1	605907
ALG9	606941
DOLK	610746
SRD5A3	611715
SSR4	300090
ABL1	189980
HRAS	190020
CLMP	611693
CPOX	612732
TCF4	602272
SLC4A11	610206
NIPBL	608667
SMC1A	300040
SMC3	606062
HDAC8	300269
H6PD	138090
HPGD	601688
SLC4A1	109270
FREM2	608945
MNX1	142994
ALDH18A1	138250
ELN	130160
EFEMP2	604633
LTBP4	604710

ATP6V0A2	611716
PYCR1	179035
CTNS	606272
SLC3A1	104614
SLC7A9	604144
KCNN4	602754
PIEZO1	611184
MAPT	157140
SNCA	163890
KRT14	148066
RPS19	603474
RPS17	180472
RPL35A	180468
RPL11	604175
RPS7	603658
EPCAM	185535
GUCY2C	601330
KRT5	148040
SALL4	607343
G6PC3	611045
ELP1	603722
CDAN1	607465
C15ORF41	NA
KLF1	600599
TINF2	604319
RTEL1	608833
NOP10	606471
NHP2	606470
WRAP53	612661
PARN	604212
DKC1	300126
PLG	173350
PRKRA	603424
HPCA	142622
MECR	608205
GCH1	600225
COL7A1	120120
EDA	300451
EDARADD	606603
GJB6	604418
NFKBIA	164008
PKP1	601975
COL5A1	120215
COL5A2	120190
TNXB	600985

ADAMTS2	604539
PLOD1	153454
CHST14	608429
C1R	613785
C1S	120580
COL3A1	120180
SERPINA1	107400
MFF	614785
TBCE	604934
BSCL2	606158
TMC8	605829
TMC6	605828
ITGB4	147557
ITGA6	147556
KRT1	139350
KRT10	148080
SCN9A	603415
SCARB2	602257
ARX	300382
CDKL5	300203
SLC25A22	609302
SIK1	605705
STXBP1	602926
CACNA1A	601011
GRIN2D	602717
GABBR2	607340
CPLX1	605032
BPGM	613896
DSG1	125670
GJB3	603324
GJB4	605425
GJA1	121014
KDSR	136440
COX4I2	607976
EXT2	608210
F7	613878
NLRP12	609648
MEFV	608107
FANCA	607139
FANCB	300515
FANCC	613899
FANCD2	613984
FANCE	613976
FANCI	611360
FANCL	608111

SLX4	613278
ERCC4	133520
UBE2T	610538
ASAH1	613468
MYCN	164840
COL11A2	120290
SRCAP	611421
CYP26C1	608428
SLC46A1	611672
FMR1	309550
SH3PXD2B	613293
FRAS1	607830
GRIP1	604597
SQSTM1	601530
ALDOB	612724
FUCA1	612280
GALE	606953
NUP107	607617
TTC7A	609332
SDHB	185470
SDHC	602413
KIT	164920
KAT6B	605880
GORAB	607983
TEK	600221
MC2R	607397
NR3C1	138040
FTCD	606806
GLUL	138290
GSS	601002
SLC6A9	601019
G6PC	613742
SLC37A4	602671
GAA	606800
AGL	610860
GBE1	607839
PHKG2	172471
ALDOA	103850
PIGM	610273
GLB1	611458
ANO5	608662
FAM111A	615292
NBEAL2	614169
GLI3	165240
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CTSC	602365
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HLCS	609018
CDON	608707
CBS	613381
HPRT1	308000
ANTXR2	608041
HYLS1	610693
MVK	251170
DOCK8	611432
GLRA1	138491
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PDGFRA	173490
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ABCC8	600509
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SCN4A	603967
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QDPR	612676
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SARS2	612804
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CD3D	186790
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TYK2	176941
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DOCK2	603122
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IL21R	605383
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TNFRSF13C	606269
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KANSL1	612452
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SDHA	600857
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POLR3B	614366
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FOXC2	602402
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MYH9	160775
RPGR	312610

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MMP2	120360
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CDKN1B	600778
CHRNA1	100690
SUMF1	607939
ACTA2	102620
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LAMA2	156225
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CAPN3	114240
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CHRNE	100725

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MYOT	604103
PYROXD1	617220
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NSMCE2	617246
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SDCCAG8	613524
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SPG7	602783
CEBPE	600749
DNAH1	603332
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ANK1	612641
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SMN1	600354
TTBK2	611695
PRKCG	176980
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SCYL1	607982
DLL3	602768
MESP2	605195
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DDR2	191311
STING1	612374
SHROOM4	300579
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NUP62	605815
LIFR	151443
TSPYL1	604714

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SFTPC	178620
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DNASE1L3	602244
FOXN1	600838
MST1	142408
ABCA1	600046
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ACVRL1	601284
KCNH1	603305
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SLC19A3	606152
THPO	600044
MPL	159530
JAK2	147796
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CACNA1C	114205
SALL1	602218
TALDO1	602063
TCN2	613441
TTC37	614589
SKIV2L	600478
TRPS1	604386
ERCC3	133510
GTF2H5	608780
FMO3	136132
MYH8	160741
TSC1	605284
TSC2	191092
BAP1	603089
RHBDF2	614404
FAH	613871
ECM1	602201
HPSE2	613469
LRIG2	608869
ZIC3	300265
TBX1	602054
EPG5	615068
ACTG2	102545
CAPN5	602537
VWF	613160
CXCR4	162643
POGZ	614787
KMT2A	159555

ATP7B	606882
SIN3A	607776
EIF2AK3	604032
WFS1	606201
CISD2	611507
XDH	607633
XPA	611153
XPC	613208
DDB2	600811
POLH	603968
SLC30A2	609617

Using genes screened in inflammatory bowel disease cases in the U.K. Biobank

Gene symbols

PSEN1, AD3, ACNINV3
BLNK, SLP65, AGM4
LRRC8A, KIAA1437, AGM5
PIK3R1, GRB1, AGM7, SHORT, IMD36
B2M, IMD43
STEAP3, TSAP6, AHMIO2
NEK9, NERCC1, LCCS10, APUG, NC
PCNA, ATLD2
CASP8, MCH5, ALPS2B
ABCD3, PXMP1, PMP70, CBAS5
IL17F, ML1, CANDF6
TRAF3IP2, C6orf5, ACT1, CIKS, C6orf4, C6orf6, PSORS13, CANDF8
ERCC2, EM9, XPD, COFS2, TTD1
NAGLU, MPS3B, CMT2V
SEMA3E, SEMAH, KIAA0331
PAX6, AN2, MGDA, FVH1, ASGD5
COG2, LDLC, CDG2Q
DDOST, OST, OST48, CDG1R
ALG13, GLT28D1, CDG1S, EIEE36
SEC23B, CDAN2, HEMPAS, CWS7
FBLN5, ARMD3, ADCL2, ARCL1A, HNARMMD
RPL26, DBA11
ACD, PTOP, PIP1, TINT1
DEAF1, SPN, ZMYND5, MRD24
ACTB, BRWS1
KDF1, C1orf172, ECTD12
PLEC1, PLEC, PLTN, EBS1, LGMDR17, EBSOG, EBSPA, EBSMD, EBSND
LMNB2, LMN2, EPM9
SPECC1L, KIAA0376, OBLFC1, GBBB2, TBHS
NLRC4, CARD12, CLAN, IPAF, AIFEC, FCAS4
RAD51A, RECA, MRMV2, FANCR
XRCC2, FANCU
MAD2L2, MAD2B, FANCV
RFWD3, FANCW
SLC52A3, C20orf54, RFT2, BVVLS1
FLNA, FLN1, NHBP, OPD1, OPD2, FMD, MNS, CVD1, CSBS, FGS2
SOS1, GINGF, GF1, HGF, NS4
NCF4, P40PHOX, CGD3
HOXA13, HOX1J
AP3D1, HPS10
BLOC1S6, BLOS6, PLDN, PA, HPS9
ECE1
BCO1, BCMO1, BCDO

UNC119, HRG4, IMD13
TNFRSF4, TXGP1L, OX40, ACT35, IMD16
LCK, IMD22
CD247, CD3Z, TCRZ, IMD25
BCL10, IMD37
IRF7, IRF7A, IRF7B, IRF7C, IRF7H, IMD39
IL21, CVID11
HNRPA2B1, IBMPFD2
ADAM17, TACE, NISBD1
EGFR, NISBD2
ADCY6, LCCS8
SCNN1A, BESC2, LIDLS3
CAV1, BSCL3, CGL3, PPH3, LCCNS
CIDEA, FSP27, CIDE3, FPLD5
CDC6, CDC18L, MGORS5
NAA10, ARD1A, ARD1, TE2, NATD, OGDNS, MCOPS1
HYAL1, MPS9
RAD21, SCC1, NXP1, KIAA0078, CDLS4, MGS
CHRNA, ACHRD, SCCMS, CMS3A, CMS3B, CMS3C
CHCHD10, FTDALS2, SMAJ, IMMD
ACTA1, ASMA, NEM3, CFTD1, SHPM
COL6A2, BTHLM1, UCMD1
PMP22, CMT1A, CMT1E, DSS, CIDP
GFI1, ZNF163, SCN2
MBTPS2, S2P, IFAP, KFSDX, OLMSX, OI19
TK2, MTDPS2, PEOB3
CHRM3, PBS, EGBRS
LBR, PHA, PHASK
TMEM67, MKS3, JBTS6, NPHP11
WNT4, SERKAL
ADA2, CECR1, VAIHS, SNEDS
APC2, APCL, SOTOS3
UBA5, UBE1DC1, EIEE44, SCAR24
RIPPLY2, C6orf59, SCDO6
WNT3, INT4, TETAMS
SRC, ASV, SRC1, THC6
TBXAS1, GHOSAL, CYP5, BDPLT14
RNF113A, ZNF183, TTD5
UROC1, UROCD
ARNT2, WEDAS
WIPF1, WASPIP, WIP, WAS2
PLA2G2A, PLA2B, PLA2L, MOM1
TP53, P53, LFS1, BCC7, BMFS5
KIF5A, NKHC, SPG10, NEIMY, ALS25
SBDS, SDS

TERC, TRC3, TR, DKCA1, PFBMFT2
CLEC7A, CLECSF12, DECTIN1, CANDF4
TBX21, TBET
MECP2, RTT, PPMX, MRX16, MRX79, AUTSX3, MRXSL, MRXS13
FAS, TNFRSF6, APT1, CD95, ALPS1A
ATM, ATA, AT1
PALB2, FANCN, PNCA3
RAD51C, FANCO, BROVCA3
F5, THPH2, RPRGL1
ODC1
GALNT12, CRCS1
POLD1, CRCS10, MDPL
POLE, CRCS12, FILS, IMAGEI
TLR2, TIL4
TGFB1, DPD1, CED, IBDIMDE
FLG, ATOD2
TERT, TCS1, EST2, DKCA2, DKCB4, PFBMFT1, CMM9
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NUP214, D9S46E, CAN, CAIN, IIAE9
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MMP1, CLG
CASR, HHC1, PCAR1, FIH, EIG8, HYPOC1
GABRD, GEFSP5, EIG10, EJM7
SLC2A1, GLUT1, HTLVR, DYT18, PED, GLUT1DS, EIG12, DYT9, SDCHCN
SPINK1, PSTI, PCTT, TATI, TCP
IL1RN, MVCD4, DIRA
PTEN, MMAC1, GLM2, CWS1
POT1, CMM10, GLM9
IFNGR1, IMD27A, IMD27B
CFH, HF1, HUS, ARMD4, AHUS1
CFI, FI, AHUS3, ARMD13
CFB, BF, GBG, AHUS4, ARMD14, CFBD
C3, ARMD9, AHUS5
RET, MEN2A, HSCR1
EDNRB, HSCR2, ABCDS, WS4A
GDNF, HSCR3
EDN3, WS4B, HSCR4
PRNP, PRIP, KURU, CJD
GBA
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RYSR1, MHS, CCO
CDKN2A, MTS1, P16, MLM, CMM2
CDK4, CMM3
MITF, WS2A, CMM8, COMMAD

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ESR1, ESR, ESTRR
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VANGL1, STBM2
PHOX2B, NBPHOX, PMX2B, NBLST2, CCHS
GP1BA, BSS, BDPLT1, VWDP, BDPLT3
MET, DFNB97, OSFD
COL1A2, EDSCV, EDSARTH2
TNFRSF11A, RANK, ODFR, FEO, OPTB7, PDB2
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PRSS2, TRY2
CTRC, CLCR
CFTR, ABCC7, CF, MRP7
COMT
CDH23, USH1D, DFNB12, PITA5
HFE, HLA-H, HFE1, MVCD7, TFQTL2
F2, THPH1, RPRGL2
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SMARCA4, BRG1, RTPS2, MRD16, CSS4
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NKX2-1, TITF1, NKX2A, TTF1, NMTC1
FOXE1, FKHL15, TITF2, TTF2, NMTC4
HABP2, PHBP, HGFAL, FSAP, NMTC5
F9, HEMB, THPH8
MCCC2, MCCB
SERAC1, MEGDEL
CLPB, SKD3, MEGCANN, MGCA7
HTRA2, OMI, PARK13, PRSS25, MGCA8
OPLAH, OPLAHD
AAAS, AAA
SLC26A2, DTD, DTDST, D5S1708, EDM4
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PSENEN, PEN2, ACNINV2
SLC39A4, ZIP4
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PDE4D, DPDE3, ACRDYS2

MUTYH, MYH
APC, GS, FPC, BTPS2
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HGD, AKU
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COL4A4, ATS2, BFH
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APOA1, HPALP2
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LYZ
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TARDBP, TDP43, ALS10
UBQLN2, PLIC2, CHAP1, ALS15
CHMP2B, DMT1, VPS2B, ALS17
ALS2, ALSJ, PLSJ, IAHSP
MATR3, MPD2, ALS21
SETX, SCAN2, AOA2, ALS4
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DSP, KPPS2, PPKS2, DCWHKTA

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RPSA, LAMR1, LAMBR, ICAS
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CASP10, MCH4, ALPS2
PRKCD, CVID9, ALPS3
CTLA4, IDDM12, CELIAC3, ALPS5
AIRE, APECED, APS1
NLRP1, NALP1, KIAA0926, DEFCAP, CARD7, SLEV1, VAMAS1, MSPC, AIADK
PLCG2, FCAS3, APLAID
OTULIN, FAM105B, GUM, AIPDS
CARD11, CARMA1, BIMP3, PPBL, BENTA, IMD11A
TAP1, ABCB2, RING4, PSF1
TAPBP, TPSN
TAP2, ABCB3, PSF2, RING11
RFX5
RFXAP
GJB2, CX26, DFNB1A, PPK, DFNA3A, KID, HID
TAZ, EFE2, BTHS, CMD3A, LVNCX
PDGFRB, PDGFR, IBGC4, IMF1, PENTT, KOGS
THOC6, FSAP35, BBIS
GP1BB, BS, BDPLT1
COL6A1, BTHLM1, UCHMD1
COL6A3, DYT27, BTHLM1, UCMD1
HSD3B7, CBAS1
AKR1D1, SRD5B1, CBAS2
CYP7B1, CBAS3, SPG5A
BTD
FLCN, BHD
BCS1L, FLNMS, GRACILE, BJS, PTD, MC3DN1
NOD2, CARD15, IBD1, CD, YAOS, BLAUS
ITGA2B, GP2B, CD41B, GT, BDPLT2, BDPLT16
GFI1B, BDPLT17
FLI1, BDPLT21

CDH1, UVO, LCAM, ECAD, BCDS1
RECQL3, RECQ2, BLM, BS, MGRISCE1
ASXL1, KIAA0978, BOPS, MDS
ERCC6L2, RAD26L, BMFS2
DNAJC21, DNAJA5, BMFS3
ROR2, BDB1, BDB, NTRKR2
PAPSS2, ATPSK2, BCYM4
TFAP2A, AP2TF, BOFS
SCNN1B, BESC1, LIDLS1
SCNN1G, PHA1, BESC3, LDLS2
SLC52A2, GPR172A, GPCR41, PAR1, FLJ11856, BVVLS2
KCND3, KCND3S, KCND3L, SCA19, SCA22, BRGDA9
CD96, TACTILE
C1QA
C1QB
C1QC, C1QG
C2, ARMD14
C4A, C4S, C4AD
C5, C5D, ECLZB
C6
C7
C8A
C8B
C9, C9D, ARMD15
COL1A1, OI1, OI2, OI3, OI4, EDSARTH1
PRG4, CACP, MSF, SZP, HAPO
ASPA
CARD9, CANDF2
IL17RC, IL17RL, CANDF9
TPM3, NEM1, CFTD, CAPM1
TPM2, TMSB, AMCD1, DA1, DA2B4, NEM4
KRAS, KRAS2, RASK2, NS, CFC2, RALD, OES
MAP2K2, PRKMK2, MEK2, MKK2, CFC4
BRAF, NS7
MAP3K7, TAK1, CSCF, FMD2
MYMK, TMEM8C
RAB23
TGDS, SDR2E1, CATMANS
CD8A
ASCL1, ASH1
ZAK, MLTK, MRK, SFMMP, CNM6
SLC6A8, CRTR, CCDS1
ADD3, ADDL, CPSQ3
SNRPB, CCMS
ERCC5, XPG, COFS3

ERCC1, UV20, COFS4
STN1, OBFC1, AAF44
CTC1, CRMCC, C17orf68, AAF132
CYP27A1, CYP27, CTX
CLN3, BTS
MPV17, MTDPS6, CMT2EE
MPZ, CMT1B, CMTDID, DSS, CHN2
RAB7, CMT2B, PSN
LMNA, LMN1, EMD2, FPLD2, CMD1A, HGPS
CHD7, HH5
LYST, CHS1
PIGL, CHIME
ERF, PE2, CRS4, CHYTS
ABCB11, BSEP, SPGP, PFIC2, BRIC2
ATP8B1, FIC1, BRIC, PFIC1, ICP1
ABCB4, PGY3, MDR3, ICP3
LIPA, CESD
EBP, CDPX2, CPXD, CPX, MEND
AFF4, AF5Q31, CHOPS
VPS13A, CHAC
NCF1
NCF2
CYBA
CYBB, CGD, AMCBX2, IMD34
NLRP3, CIAS1, FCU, FCAS1, NALP3, PYPAF1, DFNA34, KEFH
SLC25A13, CTLN2, NICCD
NECTIN1, PVRL1, HVEC, PVRR1, PRR1, ED4, OFC7, CLPED1
MEIS2, MRG1, CPCMR
RUNX2, CBFA1, PEBP2A1, AML3, CCD, CLCD
CC2D2A, KIAA1345, MKS6
RPGRIP1L, KIAA1005, JBTS7, MKS5
ERCC8, CKN1, CSA, UVSS2
COQ4, COQ10D7
ARID1B, BAF250B, KIAA1235, MRD12, CSS1
ARID1A, C1orf4, B120, SMARCF1, MRD14, CSS2
ARID2, BAF200, KIAA1557, CSS6
SOX11, MRD27, CSS9
VPS13B, KIAA0532, COH1
CRLF1, CISS1
KLHL7, RP42, CISS3
MSH2, COCA1, FCC1, HNPCC1
BAX
BUB1B, BUBR1, MVA1
CTNNB1, NEDSDV, EVR7
MCC

RAG1
RAG2
LPL, LIPD, HDLCQ11
IL2RG, SCIDX1, SCIDX, IMD4
TRMT10C, RG9MTD1, MRPP1, COXPD30
NA
PSAP, SAP1
CFD, ADN
NALCN, IHPRF1, CLIFAHDD
PMM2, CDG1A
MAGT1, IAP, XMEN, CDG1CC
DPM1, MPDS, CDGIE
MPDU1, SL15, CDGIF
ALG12, CDG1G
MOGS, GCS1, CDG2B
SLC35C1, FUCT1, CDG2C
COG7, CDG2E
SLC35A1, CST, CDG2F
COG4, COD1, CDG2J, SWILS
SLC35A2, UGALT, UGTL, UGT2, CDGX, CDG2M
CCDC115, CCP1, CDG2O
ALG1, HMAT1, HMT1, CDG1K
ALG9, DIBD1, CDG1L, GIKANIS
DOLK, TMEM15, DK1, SEC59, KIAA1094, CDG1M
SRD5A3, SRD5A2L, CDG1Q, KRIZI
SSR4, TRAPD, CDG1Y
ABL1, CHDSKM
HRAS
CLMP, ASAM, ACAM, CSBS
CPOX
TCF4, SEF2, ITF2, PTHS, FECD3
SLC4A11, BTR1, NABC1, CHED, CDPD, FECD4
NIPBL, CDLS1
SMC1A, SMC1L1, SMC1, DXS423E, KIAA0178, CDLS2
SMC3, CSPG6, HCAP, BAM, CDLS3
HDAC8, MRXS6, CDLS5
H6PD, GDH, G6PDH, CORTRD1
HPGD, PGDH1, PHOAR1
SLC4A1, AE1, EPB3, SPH4, SAO, CHC
FREM2, FRASRS2, CRYPTOP
MNX1, HLXB9, HOXHB9, SCRA1
ALDH18A1, PYCS, GSAS, ARCL3A, SPG9A, SPG9B, ADCL3
ELN, SVAS, ADCL1
EFEMP2, FBLN4, UPH1, ARCL1B
LTBP4, LTBP4S, LTBP4L, ARCL1C

ATP6V0A2, WSS, ARCL2A
PYCR1, PRO3, ARCL2B, ARCL3B
CTNS
SLC3A1, ATR1, D2H, NBAT
SLC7A9, CSNU3
KCNN4, KCA4, SK4, DHS2
PIEZO1, FAM38A, MIB, DHS, LMPHM6
MAPT, MTBT1, DDPAC, MSTD
SNCA, NACP, PARK1, PARK4
KRT14
RPS19, DBA, DBA1
RPS17, RPS17L1, RPS17L2, DBA4
RPL35A, DBA5
RPL11, DBA7
RPS7, DBA8
EPCAM, ACSTD1, TROP1, M4S1, MIC18, DIAR5, HNPCC8
GUCY2C, GUC2C, DIAR6, MECIL
KRT5, DDD1
SALL4, HSAL4
G6PC3, UGRP, SCN4
IKBKAP, IKAP
CDAN1, CDA1, CDAN1A
NA
KLF1, EKLF, INLU, HBFQTL6, CDAN4
TINF2, TIN2, DKCA3
RTEL1, C20orf41, NHL, KIAA1088, DKCB5, DKCA4, PFBMFT3
NOLA3, NOP10, DKCB1
NOLA2, NHP2, DKCB2
WRAP53, TCAB1, WDR79, DKCB3
PARN, DAN, DKCB6, PFBMFT4
DKC1, DKCX
PLG
PRKRA, PACT, RAX, DYT16
HPCA, DYT2
MECR, NRBF1, DYTOABG
GCH1, DYT5, HPABH4B
COL7A1, NDNC8
EDA, ED1, ECTD1, HED1, STHAGX1
EDARADD, ED3, EDA3, ECTD11B, ECTD11A
GJB6, CX30, DFNA3B, DFNB1B, ECTD2, HED2
NFKBIA, IKBA, EDAID2
PKP1
COL5A1, EDSCL1
COL5A2, EDSCL2
TNXB, TNX, TNXB1, TNXBS, TNXB2, EDSCLL1, VUR8

ADAMTS2, NPI, EDSDERMS
PLOD1, LH1, LLH, EDSKCL1
CHST14, D4ST1, ATCS, EDSMC1
C1R, EDSPD1
C1S, EDSPD2
COL3A1, EDSVASC, PMGEDSV
SERPINA1, PI, AAT
MFF, C2orf33, EMPF2
TBCE, KCS, KCS1, HRD, PEAMO
BSCL2, SPG17, HMN5, PELD
TMC8, EVER2, EV2
TMC6, EVER1, EV1
ITGB4
ITGA6
KRT1, EPPK, NEPPK, EHK
KRT10, EHK, BCIE, BIE
SCN9A, NENA, PN1, FEB3B, GEFSP7, SFNP, HSAN2D
SCARB2, CD36L2, LIMPII, AMRF, EPM4
ARX, ISSX, PRTS, MRXS1, MRX36, MRX54, MRX43, MRX87, MRX29, MRX32
CDKL5, STK9, ISSX, EIEE2
SLC25A22, GC1, EIEE3
SIK1, SNF1LK, MSK, EIEE30
STXBP1, UNC18, EIEE4
CACNA1A, CACNL1A4, SCA6, EIEE42
GRIN2D, NMDAR2D, EIEE46
GABBR2, GPR51, EIEE59, NDPLHS
CPLX1, CPX1, EIEE63
BPGM, ECYT8
DSG1, PPKS1, SPPK1, EPKHE
GJB3, CX31, DFNA2B, EKVP1
GJB4, CX30.3, EKVP2
GJA1, CX43, ODDD, SDTY3, ODOD, HSS, AVSD3, HLHS1, CMDR, EKVP3
KDSR, FVT1, EKVP4
COX4I2
EXT2, SSMS
F7
NLRP12, NALP12, PYPAF7, RNO, FCAS2
MEFV, MEF, FMF
FANCA, FACA, FA1, FA, FAA
FANCB, FAAP95, FAAP90, FLJ34064
FANCC, FACC
FANCD2, FANCD, FACD, FAD
FANCE, FACE
FANCI, KIAA1794
PHF9, FANCL

SLX4, BTBD12, MUS312, KIAA1784, KIAA1987, FANCP
ERCC4, XPF, FANCO, XFEPS
UBE2T, HSPC150, FANCT
ASAH1, AC, SMAPME
MYCN, NMYC, ODED, MODED
COL11A2, DFNA13, DFNB53, FBCG2, OSMEDA, OSMEDB
SRCAP, SWR1, KIAA0309, FLHS
CYP26C1, FFDD4
SLC46A1, HCP1, PCFT
FMR1, FRAXA, POF1
SH3PXD2B, TKS4, KIAA1295, FTHS
FRAS1, FRASRS1
GRIP1, FRASRS3
SQSTM1, P62, PDB3, FTDALS3, NADGP, DMRV
ALDOB
FUCA1
GALE
NUP107, NUP84, NPHS11, ODG6; GAMOS7
TTC7A, TTC7, KIAA1140, MINAT, GIDID
SDHB, SDH2, SDHIP, PGL4
SDHC, PGL3
KIT, PBT, MASTC
KAT6B, MYST4, MORF, GTPTS
GORAB, SCYL1BP1, NTKLBP1, GO
TEK, TIE2, VMCM, GLC3E
MC2R
NR3C1, GCR, GRL, GCRST
FTCD
GLUL, GLNS
GSS, GSHS
SLC6A9, GLYT1, GCENSG
G6PC, G6PT
SLC37A4, G6PT1
GAA
AGL, GDE
GBE1, GSD4, APBD
PHKG2, GSD9C
ALDOA, GSD12
PIGM
GLB1, MPS4B
ANO5, TMEM16E, GDD1, LGMDR12
FAM111A, KIAA1895, KCS2, GCLEB
NBEAL2, KIAA0540, GPS, BDPLT4
GLI3, PAPA, PAPB
RAB27A, RAM, GS2

CTSC, CPPI, PALS, PLS, HMS, PDON1, JPD
PANK2, NBIA1, PKAN, HARP
SLC6A19, HND
C19orf61, SMG9, HBMS
ADNP, ADNP1, KIAA0784, HVDAS, MRD28
HJV, HFE2A
HAMP, LEAP1, HEPC, HFE2B
TFR2, HFE3
HK1, HKD, HMSNR, RP79, NEDVIBA
TPI1, TPID
GPI
PRF1, HPLH2, FLH2
UNC13D, MUNC13-4, HPLH3, HLH3, FHL3
STXBP2, UNC18B, FHL5
CCBE1, KIAA1983, HKLLS1
FAT4, VMLDS2, HKLLS2
ADAMTS3, HKLLS3
HPS1
AP3B1, ADTB3A, HPS2
SLC29A3, ENT3, PHID, HCLAP
HLCS, HCS
CDON, CDO, HPE11
CBS
HPRT1, HPRT
ANTXR2, CMG2, HFS
HYLS1, FLJ32915
MVK, MVLK, POROK3
DOCK8
GLRA1, STHE, HKPX1
GLRB, HKPX2
SLC6A5, GLYT2, HKPX3
PDGFRA
FTL, NBIA3, LFTD
ABCC8, SUR, PHHI, SUR1, HHF1, TNDM2
KCNJ11, BIR, PHHI, HHF2, TNDM3, MODY13
GCK, HHF3
SCN4A, HYPP, NAC1A, HOKPP2, CMS16
GPIHBP1, HYPL1D
APOC2
SLC25A15, ORNT1, HHH
GRHPR, GLXR
CDC73, HRPT2, C1orf28
PTS
QDPR, DHPR
SLCO2A1, OATP2A1, PGT, SLC21A2, PHOAR2

SARS2
SEC61A1, SEC61, HNFJ4
AP2S1, CLAPS2, AP17, HHC3
CLDN16, PCLN1, HOMG3
CLDN19, HOMG5
CNTNAP1, CASPR, P190, CHN3
ALPL, HOPS, TNSALP
CLCN7, CLC7, OPTA2, OPTB4, HOD
EBF3, COE3, HADDS
CTBP1, HADDTs
CDSN, HTSS1, HYPT2, PSS1
SOX18, HLTS, HLTRS
SLC27A4, FATP4, IPS
TGM1, ICR2, ARCI1
PNPLA1, ARCI10
SULT2B1, ARCI14
ALOX12B, ARCI2
ALOXE3, ARCI3
ABCA12, ARCI4A, ARCI4B, ICR2B, LI2
CYP4F22, ARCI5, LI3
NIPAL4, ICHYN, ARCI6
LIPN, LIPL4, ARCI8, LI4
CERS3, LASS3, ARCI9
CLDN1, SEMP1, ILVASC
STIM1, TAM1, IMD10, STRMK
MALT1, MLT, IMD12
PIK3CD, APDS, IMD14
IKBKB, NFKB1KB, IMD15B, IMD15A
CD3G, IMD17
CD3E, IMD18
CD3D, T3D, IMD19
FCGR3A, CD16, IGFR3, IMD20
PGM3, AGM1, IMD23
CTPS1, CTPS, IMD24
PRKDC, HYRC1, DNPK1, IMD26
IFNGR2, IFNGT1, IFGR2, IMD28
IL12B, NKSF2, IMD29
IL12RB1, IMD30
STAT1, CANDF7, IMD31A, IMD31B, IMD31C
IRF8, ICSBP1, IMD32A, IMD32B
IKBKG, NEMO, FIP3, IP, IPD2, AMCBX1, IMD33, EDAID1
TYK2, IMD35
ISG15, G1P2, IFI15, IMD38
DOCK2, IMD40
IL2RA, CD25, IL2R, IDDM10, IMD41

RORC, RORG, RZRG, IMD42
TFRC, TFR, CD71, IMD46
ATP6AP1, ATP6IP1, ATP6S1, VATPS1
BCL11B, CTIP2, IMD49, IDDFSTA
MSN, IMD50
IL17RA, IL17R, IMD51
MCM4, NKGCD, NKCD, IMD54
IL21R, IMD56
IL2RB, IMD63
TRAC, TRCA, TRA, IMD7
IVNS1ABP, NS1BP, ND1
TPP2
CORO1A, TACO, CLIPINA, IMD8
ORAI1, TMEM142A, CRACM1, IMD9, TAM2
LAMTOR2, MAPBPIP, p14
FCN3, HAKA1
PNP, NP
UNG, DGU, HIGM5
AICDA, AID, HIGM2
CD40, TNFRSF5
DNMT3B, ICF1
ZBTB24, PATZ2, ZNF450, KIAA0441, ICF2
CDCA7, JPO1, ICF3
HELLS, LSH, ICF4
ICOS, AILIM, CVID1
NFKB2, LYT10, CVID10
NFKB1, CVID12
IKZF1, ZNFN1A1, IK1, LYF1, CVID13
TNFRSF13B, TACI, CVID2
CD19, CVID3
TNFRSF13C, BAFFR, CVID4
MS4A1, CD20, CVID5
CD81, TAPA1, CVID6
CR2, C3DR, SLEB9, CVID7
LRBA, LBA, CDC4L, CVID8
TNFSF5, CD40LG, HIGM1, IGM
FOXP3, IPEX, AIID, XPID, PIDX
EXTL3, EXTR1, ISDNA
PLA2G6, IPLA2, INAD1, NBIA2B, NBIA2A, PARK14
FADD
CRFB4, IBD25
IL10RA, IL10R, IBD28
NTRK1, TRKA, MTC
SFTPA1, SFTP1
FAN1, MTMR15, KIAA1018, KMIN

GIF, IF
IVD
PPM1D, WIP1, JDVS
OFD1, CXorf5, SGBS2, JBTS10, RP23
TCTN3, TECT3, C10orf61, OFD4, JBTS18
KATNIP, KIAA0556
MKS1, MKS, BBS13, JBTS28
LACC1, C13orf31
SMAD4, MADH4, DPC4, JIP, MYHRS
KMT2D, MLL2, ALR, KABUK1
KDM6A, UTX, KABUK2
IGKC, IGKCD
GPC4, KPTS
KCNJ6, GIRK2, KCNJ7, KPLBS
MGP
FERMT1, KIND1, URP1, C20orf42
EHMT1, EUHMTASE1, KMT1D, DEL9q34, KLEFS1
KANSL1, KIAA1267, MSL1V1, KDVS
GALC
MYH7, CMH1, MPD1, CMD1S, SPMM, SPMD
PRDM16, MEL1, LVNC8, CMD1LL
SDHA, SDH1, SDHF, CMD1GG, PGL5
PTPN11, PTP2C, SHP2, NS1, JMML, METCDS
ITGB2, CD18, LCAMB, LAD
FERMT3, KIND3, URP2, MIG2B
LMNB1, ADLD
ATP11A, ATPIS, ATP1H
POLR3A, RPC1, RPC155, ADDH, HLD7, WDRTS
POLR3B, RPC2, C128, HLD8
LMF1, TMEM112
FLAD1, FADS, LSMFLAD
AGPAT2, LPAAB, BSCL, BSCL1
CAVIN1, PTRF
TGFB2, HNPCC6, AAT3, MFS2, LDS2
NSMCE3, NDNL2, MAGEG1, LICS
SETD2, SET2, HYPB, HBP231, KIAA1732, LLS
FLT4, VEGFR3, PCL, LMPHM1
FOXC2, FKHL14, MFH1
ITK, EMT, LPFS1
CD27, TNFRSF7, S152, LPFS2
SH2D1A, LYP, IMD5, XLP, XLDP1
XIAP, BIRC4, API3, XLP2
SLC7A7, LPI
MYH9, MHA, FTNS, DFNA17, BDPLT6, MATINS
RPGR, RP3, CRD, RP15, COD1, CORDX1

LPIN2
ZMPSTE24, FACE1, STE24, MADB
MAN2B1, MANB
MANBA, MANB1
BCKDHA, MSUD1
BCKDHB, E1B
DBT, BCATE2
NFIX, NF1A, SOTOS2, MRSHSS
RAB3GAP2, RAB3GAP150, p150, KIAA0839, WARBM2
MKKS, HMCS, KMS, MKS, BBS6
NPHP3, NPH3, RHPD1, MKS7
LMOD1, SMLMOD, 1D
ORC1, ORC1L
ORC4, ORC4L
ORC6, ORC6L
GMNN, MGORS6
CREBBP, CBP, RSTS1, MKHK1
EP300, RSTS2, MKHK2
ATP7A, MNK, MK, OHS, SMAX3
MED13L, THRAP2, PROSIT240, TRAP240L, KIAA1025, MRFACD
SETD5, KIAA1757
CHAMP1, ZNF828, C13orf8, KIAA1802, MRD40
GNB1, MRD42
HIVEP2, MRD43
KIF1A, ATSV, UNC104, SPG30, HSN2C, MRD9
HERC2, SHEP1, MRT38
NSUN2, TRM4, SAKI, MISU, MRT5
NEXMIF, KIAA2022, MRX98
SLC9A6, NHE6
RPL10, DXS648, QM, AUTSX5, MRXS35
TANGO2, C22orf25, MECRCN
MMACHC
LMBRD1, LMBD1, NESI, MAHCF
ABCD4, PXMP1L, P79R, PMP69, MAHCJ
MUT, MCM
MMAA
MMAB
MCEE
RFXANK
RNU4ATAC, U4ATAC, MOPD1, TALS, RFMN
MSMO1, SC4MOL, ERG25, MCCPD
IER3IP1, MEDS
MED17, CRSP6, CRSP77, TRAP80, DRIP80
RBP4, RDCCAS, MCOPCB10
STRA6, MCOPS9, MCOPCB8

BCOR, KIAA1575, MCOPS2, MAA2, ANOP2
SAMD9, NFTC, MIRAGE
MLH1, COCA2, HNPCC2
PMS2, PMSL2, HNPCC4
SDHD, PGL1
TYMP, ECGF1, MNGIE, PDECGF, MEDPS1, MTDPS1
MGME1, C20orf72, MTDPS11
FBXL4, FBL4, MTDPS13
DGUOK, DGK, MTDPS3, PEOB4, NCPH
POLG, POLG1, POLGA, PEO, SANDO, SCAE, MTDPS4A, MTDPS4B, MIRAS
TWNK, C10orf2, TWINKLE, PEOA3, IOSCA, MTDPS7, PRLTS5
RRM2B, P53R2, PEOA5, MTDPS8A, MTDPS8B
TIMM8A, DFN1, DDP, MTS, DDP1
GPHN, GPH, KIAA1385, GEPH, MOCODC
GUCY1A3, GUC1A3, GUCSA3, MYMY6
GNPTAB, GNPTA
IDUA, IDA
IDS, MPS2, SIDS
GALNS, MPS4A
SGSH, MPS3A, SFMD
HGSNAT, TMEM76, MPS3C, RP73
GNS, G6S
ARSB, MPS6
GUSB, MPS7
VPS33A, MPSPS
MMP2, CLG4A, MONA
PIGN, MCAHS1
MEN1
CDKN1B, KIP1, CDKN4, MEN4
CHRNA1, ACHRD, CMS1B, CMS1A
SUMF1, FGE
ACTA2, ACTSA, AAT6, MYMY5
ITGA7
LAMA2, LAMM, MDC1A
DNAJB6, MRJ, DJ4, LGMDD1
TNPO3, TRNSR, LGMDD2
CAPN3, CANP3, LGMDR1, LGMDD4
TRAPPC11, C4orf41, LGMDR18
SGCG, LGMDR5, DMDA1, SCG3
SELENON, SEPN1, SELN, RSMD1, CFTD
GFPT1, GFAT1, GFPT1L, MSLG, CMS12, CMSTA1
COL13A1, CMS19
SLC5A7, CHT1, HMN7A, CMS20
VAMP1, SYB1, SPAX1, CMS25
CHRNE, SCCMS, CMS4A, CMS4B, CMS4C

COLQ, EAD, CMS5
CHAT, CMS6
MEGF10, KIAA1780, EMARDD
YARS2, TYRRS, MLASA2
MYOT, TTOD, MFM3
PYROXD1, MFM8
CLCN1
DMPK, DM, DMK
CNBP, ZNF9, CNBP1, DM2, PROMM
PLCD1, NDNC3
LMX1B, NPS1
NEB, NEM2
DCDC2, RU2, KIAA1154, NPHP19, DFNB66, NSC
CFHR5, CFHL5, FHR5, CFHR5D
CD151, PETA3, SFA1, MER2
NPHS1, NPHN
EMP2, NPHS10
SPINK5, LEKTI
HDAC4, HDACA
RERE, NEDBEH
NF1, VRNF, WSS, NFNS
SPTLC1, LBC1, SPT1, HSN1, HSAN
SPTLC2, KIAA0526, SPT2, LCB2, HSN1C, NSAN1C
WNK1, PRKWNK1, KDP, PHA2C, HSAN2, HSN2
FAM134B, HSAN2B
DNMT1, MCMT, HSN1E, ADCADN
ATL3, HSN1F
ELANE, ELA2, SCN1
SRP54
HAX1, SCN3
VPS45, VPS45A, SCN5
JAGN1, SCN6
CSF3R, GCSFR, SCN7
WAS, IMD2, THC1, SCNX
RAC2
SMARCA2, SNF2L2, NCBRS
SMPD1, NPD
NPC1, NPC
NPC2, HE1
TRPM1, MLSN1, CSNB1C
NBN, NBS1
GNE, GLCNE, IBM2, DMRV, NM
RAF1, CRAF, NS5, CMD1NN
NRAS, ALPS4, NS6, CMNS, NCMS
RIT1, RIT, ROC1, NS8

SOS2, NS9
CBL, CBL2, NSLL
LEP, OB, LEPD
LEPR, OBR, LEPRD
PABPN1, PABP2, PAB2
CD4
CSNK2A1, CK2A1, OCNDS
AXIN2, ODCRCS
DCLRE1C, ARTEMIS, SCIDA
MID1, OGS1, BBBG1, FXY, OSX
INPPL1, OPSMD
OTC
UMPS, OPRT
AMER1, FAM123B, WTX, OSCS
TCIRG1, TIRC7, OC116, OPTB1
TNFSF11, OPGL, TRANCE, OPTB2
CA2
OSTM1, GL, OPTB5
SNX10, OPTB8
RHAG, RH50A, OHST, RHNR
KRT16, FNEPPK, PC1
KRT17, PC2, PCHC1
KRT9, EPPK
PDX1, IPF1, MODY4, PAGEN1
PRSS1, TRY1
PRKN, PARK2, PDJ
SLC6A3, DAT1, PKDYS1
MR1, TAHCCP2, KIPP1184, BRP17, PNKD1, FPD1, PDC, DYT8
SOX10, WS4, WS4C, PCWH
TGM5, TGX, PSS2
CSTA, STFA, STF1, AREI, PSS4
ZNHIT3, TRIP3, PEHO
PLP1, PMD, HLD1, SPG2
ACOX1, ACOX, SCOX
PEX5, PXR1, PTS1R, PBD2A, PBD2B, RCDP5
PEX2, PAF1, PMP35, PBD5A, PBD5B, PXMP3
PEX16, PBD8A, PBD8B
PEX7, RCDP1, PBD9B
STK11, PJS, LKB1
PAH, PKU1
POLA1, VEODS
NRXN1, PTHSL2, SCZD17
CARD14, CARMA2, BIMP2, PSORS2, PSS1, PRP
RUNX1, CBFA2, AML1
USB1, C16orf57, PN

PKD2
FCYT, PKHD1, ARPKD, PKD4
HMBS, PBGD, UPS
UROS
NDN
SNRPN
MKRN3, ZFP127, ZNF127, CPPB2
RNASEH1, PEOB2
PEPD
PFC, PFD
PCCA
PCCB
PSMB8, LMP7, RING10, JMP, NKJO, ALDD, PRAAS1
FECH, FCE, EPP1
OCLN, BLCPMG, PTORCH1
IL36RN, IL1F5, FIL1D, IL1HY1, IL1RP3, PSORP, PSORS14
SFTPA2, SPA2, COLEC5
MYD88, MYD88D
PSTPIP1, PSTPIP, CD2BP1, PAPAS
PDP1, PPM2C, PDPC
MECOM, EVI1, RUSAT2
NSD2, WHSC1, MMSET
PHYH, PAHX
AK2
TRNT1, SIFD, RPEM
FOXG1, FOXG1B, FKHL1, FKH2, QIN, BF1
RNF168, RIDL
GDF1, DTGA3, DORV, RAI, CHTD6
WSHC5, KIAA0196, SPG8, RTSC1
CCDC22, RTSC2
ESCO2
NXN, RRS2
SLC17A5, SIASD, SLD
HEXB
KCTD1, SENS
MAGEL2, NDNL1, SHFYNG
SMARCAL1, HARP, SIOD
JAK3, JAKL
ZNF750, FLJ13841
NSMCE2, NSE2, MMS21
TRAIP, TRIP, RNF206, SCKL9
SDCCAG8, CCCAP, SLSN7, BBS16
NHEJ1, XLF
PTPRC, CD45, LCA
IL7R, IL7RA, CD127

CRIPT, SS MDF
XRCC4, SS MED
IFT172, SLB, KIAA1179, SRTD10, RP71
WDR34, SRTD11
DYNC2LI1, D2LIC, LIC3, SRTD15
SKI, SGS
EFL1, RIA1, EFTUD1, FAM42A, SDS2
NEU1, NEU, SIAL1
GPC3, SDYS, SGBS1
ABCG5
ABCG8, GBD4
ALDH3A2, ALDH10, SLS, FALDH
MTOR, FRAP1, SKS
DHCR7, SLOS
RAI1, SMCR, SMS
NSD1, ARA267, STO, SOTOS1
AFG3L2, SCA28, SPAX5
ERLIN2, SPFH2, C8orf2, SPG18
TECPR2, KIAA0329, SPG49
DDHD2, KIAA0725, SPG54
PGN, SPG7, CMAR, CAR
CEBPE, CRP1
DNAH1, HL11, DNAHC1, HDHC7, SPGF18, CILD37
FANCM, KIAA1596, SPGF28, POF15
ANK1, SPH1
SPTB, SPH2, EL3, HS2
SMN1, SMA1, SMA2, SMA3, SMA4
TTBK2, SCA11
PRKCG, PKCC, PKCG, SCA14
TBP, SCA17, HDL4
SCYL1, NTKL, SCAR21
DLL3, SCDO1
MESP2, SCDO2
LFNG, SCDO3
HES7, SCDO4
ACP5, SPENCDI
DDRKG1, UFBP1, C20orf116, SEMDSH
DDR2, NTRKR3, TKT, WRCN
TMEM173, STING, MPYS, SAVI
SHROOM4, KIAA1202, SDSX
PDE8B, PPNAD3, ADSD
VAC14, TAX1BP2, TRX, SNDC
NUP62, SNDI, IBSN
LIFR, STWS, SWS, SJS2
TSPYL1, TSPYL, SIDDT

SUOX
SFTPC, SFTP2, SMDP2
ABCA3, ABC3, SMDP3
DNASE1L3, SLEB16
FOXN1, WHN
MST1, HGFL
ABCA1, ABC1, HPALP1, TGD, HDLCQTL13
ENG, END, HHT1, ORW
ACVRL1, ACVRLK1, ALK1, HHT2
KCNH1, EAG, TMBTS, ZLS1
RNF125, TRAC1, TNORS
SLC19A3, THMD2, BBGD
THPO, MGDF, MPLLG, TPO, THCYT1
MPL, TPOR, MPLV, THCYT2
JAK2, THCYT3
RBM8A, RBM8B, TAR, C1DELq21.1, DEL1q21.1
FCGR2C, CD32C
CACNA1C, CACNL1A1, CCHL1A1, TS. LQT8
SALL1, HSAL1, TBS
TALDO1
TCN2, TC2
TTC37, KIAA0372
SKIV2L, SKI2, SKI2W, THES2
TRPS1
ERCC3, XPB, TTD2
GTF2H5, TTD3, TFB5, C6orf175, TTDA
FMO3, TMAU
MYH8, DA7
TSC1, LAM
TSC2, LAM
BAP1, TPDS
RHBDF2, IRHOM2, TOC
FAH
ECM1, URBWD
HPSE2, HPA2, UFS1
LRIG2, LIG2, KIAA0806, UFS2
ZIC3, HTX1, HTX, VACTERLX
TBX1, DGS, CTHM, CAFS, TGA, DORV, VCFS, DGCR
EPG5, KIAA1632, HEEW1, VICIS
ACTG2, ACTA3, VSCM
CAPN5, HTRA3, VRNI
VWF, F8VWF
CXCR4, D2S201E, NPY3R, WHIMS
POGZ, KIAA0461, MRD37, WHSUS
KMT2A, MLL, HRX, HTRX1, WDSTS

ATP7B, WND
SIN3A, WITKOS
EIF2AK3, PEK, PERK, WRS
WFS1, WFRS, WFS, DFNA6, DFNA14, DFNA38, WFSL, CTRCT41
CISD2, WFS2, ZCD2, ERIS
XDH, XAN1
XPA, XPAC
XPC, XPCC
DDB2
POLH, XPV
SLC30A2, ZNT2, TNZD

Gene name

Presenilin 1
B-cell linker protein (SH2 domain-containing leukocyte protein, 65kD)
Leucine-rich repeat-containing 8A
Phosphatidylinositol 3-kinase, regulatory, 1
Beta-2-microglobulin
STEAP3 metalloredutase
Never in mitosis gene A-related kinase 9
Proliferating cell nuclear antigen
Caspase 8, apoptosis-related cysteine protease
ATP-binding cassette, subfamily D, member 3 (peroxisomal membrane protein 1, 70kD)
Interleukin 17F
TRAF3-interacting protein 2
Excision repair cross complementing rodent repair deficiency, complementation group
N-acetylglucosaminidase, alpha-
Semaphorin 3E
Paired box homeotic gene-6
Component of oligomeric golgi complex 2
Dolichyl-diphosphooligosaccharide-protein glycosyltransferase
Alg13, *S. cerevisiae*, homolog of
Sec23, *S. cerevisiae*, homolog of, B
Fibulin 5
Ribosomal protein L26
ACD shelterin complex subunit and telomerase recruitment factor
Deaf1, *Drosophila*, homolog of
Actin, beta
Keratinocyte differentiation factor 1
Plectin 1
Lamin B2
Sperm antigen with calponin homology and coiled-coil domains 1-like
NLR family, caspase recruitment domain-containing 4
RAD51 recombinase
X-ray repair, complementing defective, repair in Chinese hamster cells-2
Mitotic arrest-deficient 2 like 2
RING finger and WD repeat domains-containing protein 3
Solute carrier family 52, riboflavin transporter, member 3
Filamin A, alpha (actin-binding protein-280)
SOS Ras/Rac guanine nucleotide exchange factor 1
Neutrophil cytosolic factor-4
Homeo box-A13
Adaptor-related protein complex 3, delta-1 subunit
Biogenesis of lysosome-related organelles complex 1, subunit 6
Endothelin converting enzyme 1
Beta-carotene oxygenase 1

unc-119 lipid binding chaperone
Tumor necrosis factor receptor superfamily, member 4
Lymphocyte-specific protein tyrosine kinase
CD247 antigen
B-cell leukemia/lymphoma 10
Interferon regulatory factor 7
Interleukin 21
Heterogeneous nuclear ribonucleoprotein A2/B1
ADAM metallopeptidase domain 17
Epidermal growth factor receptor
Adenylate cyclase-6
Sodium channel, nonvoltage-gated 1, alpha
Caveolin-1
Cell death-inducing DFFA-like effector C
Cell division cycle 6
N-alpha-acetyltransferase 10, NatA catalytic subunit
Hyaluronoglucosaminidase 1
RAD21 cohesin complex component
Cholinergic receptor, nicotinic, delta polypeptide
Coiled-coil-helix-coiled-coil-helix domain-containing protein 10
Actin, alpha-1, skeletal muscle
Collagen VI, alpha-2 polypeptide
Peripheral myelin protein-22
Growth factor independent 1
Membrane-bound transcription factor protease, site 2
Thymidine kinase, mitochondrial
Cholinergic receptor, muscarinic, 3
Lamin B receptor
Transmembrane protein 67 (meckelin)
Wingless-type MMTV integration site family, member 4
Adenosine deaminase 2
APC2 gene
Ubiquitin-like modifier activating enzyme 5
Ripply2, zebrafish, homolog of
Wingless-type MMTV integration site family, member 3
Protooncogene SRC, Rous sarcoma
Thromboxane A synthase 1, platelet
RING finger protein 113A
Urocanase domain-containing protein 1
Aryl hydrocarbon receptor nuclear translocator 2
WAS/WASL-interacting protein family, member 1
Phospholipase A2, group IIA, platelets, synovial fluid
Tumor protein p53
Kinesin family member 5A
SBDS gene

Telomerase RNA component
C-type lectin domain family 7, member A
T-box 21
Methyl-CpG-binding protein-2
Fas cell surface death receptor
Ataxia-telangiectasia mutated (includes complementation groups A, C, D, and E)
Partner and localizer of BRCA2
RAD52 paralog C
Coagulation factor V (proaccelerin, labile factor)
Ornithine decarboxylase-1
UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase
Polymerase (DNA directed), delta 1, catalytic subunit
Polymerase, DNA, epsilon
Toll-like receptor-2
Transforming growth factor, beta-1
Filaggrin
Telomerase reverse transcriptase
Dynein, axonemal, assembly factor 4
TANK-binding kinase 1
Nucleoporin, 214kD
mutS homolog 6
Matrix metalloproteinase 1 (interstitial collagenase)
Calcium-sensing receptor
Gamma-aminobutyric acid (GABA) A receptor, delta
Solute carrier family 2 (facilitated glucose transporter), member 1
Serine protease inhibitor, Kazal type I (pancreatic secretory trypsin inhibitor)
Interleukin-1 receptor antagonist
Phosphatase and tensin homolog (mutated in multiple advanced cancers 1)
Protection of telomeres 1
Immune interferon, receptor for
Complement factor H
Complement factor I
Complement factor B
Complement component-3
RET transforming sequence; oncogene RET
Endothelin receptor type B
Glial cell line derived neurotrophic factor
Endothelin-3
Prion protein (p27-30)
Glucosidase, acid beta
Excision repair cross complementing rodent repair deficiency, complementation group
Ryanodine receptor-1, skeletal
Cyclin-dependent kinase inhibitor 2A (p16, inhibits CDK4)
Cyclin-dependent kinase 4
Microphthalmia-associated transcription factor

SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin, subfam
Estrogen receptor 1
Cyclin D1
Tumor necrosis factor receptor superfamily, member 1A
SP110 nuclear body protein (interferon-induced protein 41, 30kD; interferon-induced p
GATA-binding protein-2
Integrin, beta-3 (platelet glycoprotein IIIa; antigen CD61)
Vang-like 1
Paired mesoderm homeo box 2B
Glycoprotein Ib, platelet, alpha polypeptide
Oncogene MET
Collagen I, alpha-2 polypeptide
Tumor necrosis factor receptor superfamily, member 11A
Palladin, cytoskeletal-associated protein
Protease, serine, 2 (trypsin 2)
Chymotrypsin
Cystic fibrosis transmembrane conductance regulator (ATP-binding cassette, subfam
Catechol-O-methyltransferase
Cadherin-23 (otocadherin)
Hemochromatosis gene
Coagulation factor II (thrombin)
Mucin 5, subtype B, tracheobronchial
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamil
SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin, subfam
Butyrophilin-like protein 2
SH3 and multiple ankyrin repeat domains 3
Leucine-zipper-like regulator-1
3' repair exonuclease 1
NK2 homeobox 1
Forkhead box E1 (thyroid transcription factor-2)
Hyaluronan-binding protein 2
Coagulation factor IX (plasma thromboplastic component)
3-Methylcrotonyl-CoA carboxylase 2
Serine active site-containing protein 1
Caseinolytic peptidase B
HTRA serine peptidase 2
5-oxoprolinase (ATP-hydrolyzing)
Aladin
Solute carrier family 26 (sulfate transporter), member 2 (diastrophic dysplasia sulfate t
Collagen II, alpha-1 polypeptide
Nicastrin
Presenilin enhancer, gamma-secretase subunit
Solute carrier family 36 (zinc transporter), member 4
Protein kinase, cAMP-dependent, regulatory, type I, alpha
Phosphodiesterase-4D, cAMP-specific (dunce, Drosophila, homolog of, phosphodiester

mutY DNA glycosylase
Adenomatous polyposis coli
Adenosine deaminase
Pyruvate kinase, liver and RBC type
SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subfamil
Tumor protein p63 (tumor protein p73-like)
Fibrinogen, alpha polypeptide
Fibrinogen, beta polypeptide
Fibrinogen, gamma polypeptide
Constant region of heavy chain of IgM
Immunoglobulin lambda-like polypeptide 1 (immunoglobulin omega peptide)
CD79A antigen (immunoglobulin-associated alpha)
CD79B antigen
Transcription factor-3 (E2A immunoglobulin enhancer-binding factors E12/E47)
Bruton agammaglobulinemia tyrosine kinase
Ribonuclease H2, subunit C
Ribonuclease H2, large subunit
Interferon induced with helicase C domain 1
GDP-mannose pyrophosphorylase A
Notch receptor 2
Homogentisate 1,2-dioxygenase (homogentisate oxidase)
Alpha-methylacyl-CoA racemase
Collagen IV, alpha-5 polypeptide
Collagen IV, alpha-3 polypeptide (Goodpasture antigen)
Collagen IV, alpha-4 polypeptide
Alstrom syndrome gene
ATPase, Na⁺K⁺ transporting, alpha-3 polypeptide
Apolipoprotein A-I
Oncostatin M receptor
Lysozyme
Superoxide dismutase-1, soluble
TAR DNA-binding protein
Ubiquilin 2
CHMP family, member 2B
Alsin
Matrin 3
Senataxin
Spastascin
Mitochondrial RNA-processing endoribonuclease
Glutaredoxin 5
Heat-shock 70kD protein-9 (mortalin)
GATA-binding protein-1 (globin transcription factor-1)
Complement component-1 inhibitor
DOPA decarboxylase (aromatic L-amino acid decarboxylase)
Desmoplakin

Ectonucleotide pyrophosphatase/phosphodiesterase 1 (Ly-41 antigen, mouse, homolog of ATP-binding cassette, subfamily C, member 6)

Vacuolar protein sorting 33, yeast, homolog of, B

VPS33B-interacting protein, apical-basolateral polarity regulator, spe-39 homolog

Phosphoribosyl pyrophosphate synthetase-1

Aspartylglucosaminidase

Ribosomal protein SA

Sterile alpha motif domain-containing 9-like

Feline leukemia virus subgroup C receptor 1

Transferrin

Guanine nucleotide-binding protein (G-protein), alpha-inhibiting activity polypeptide-3

Signal transducer and activator of transcription-3 (acute-phase response factor)

Zeta-chain associated protein kinase, 70kD (syk-related tyrosine kinase)

Itchy, mouse, homolog of

Fas ligand (TNF superfamily, member 6)

Caspase 10, apoptosis-related cysteine protease

Protein kinase C, delta

Cytotoxic T-lymphocyte-associated serine esterase-4

Autoimmune regulator

NLR family, pyrin domain containing 1

Phospholipase C, gamma 2

OTU deubiquitinase with linear linkage specificity

Caspase recruitment domain-containing protein 11

Transporter 1, ATP-binding cassette, subfamily B

TAP-binding protein (tapasin)

Transporter 2, ATP-binding cassette, subfamily B

Regulatory factor X, 5 (influences HLA class II expression)

Regulatory factor X-associated protein

Gap junction protein, beta-2, 26kD (connexin 26)

Tafazzin

Platelet-derived growth factor receptor, beta polypeptide

THO complex subunit 6

Glycoprotein Ib, platelet, beta polypeptide

Collagen VI, alpha-1 polypeptide

Collagen VI, alpha-3 polypeptide

3-beta-hydroxy-delta-5-C27-steroid oxidoreductase

Bile acid synthesis defect, congenital, 2

Cytochrome P450, subfamily VII B (oxysterol 7-alpha-hydroxylase), polypeptide 1

Biotinidase

Folliculin

BCS1 homolog, ubiquinol-cytochrome c reductase complex chaperone

Nucleotide-binding oligomerization domain protein 2

Integrin, alpha-2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41B)

Growth factor-independent 1B

Friend leukemia virus integration 1

Cadherin-1 (E-cadherin; uvomorulin)
DNA helicase, RecQ-like 3
Additional sex combs-like 1
ERCC6-like 2
DNAJ/HSP40 homolog, subfamily C, member 21
Receptor tyrosine kinase-like orphan receptor 2
3'-phosphoadenosine 5'-phosphosulfate synthase 2
Transcription factor AP-2 alpha (activating enhancer-binding protein 2 alpha)
Sodium channel, nonvoltage-gated 1, beta
Sodium channel, nonvoltage-gated 1, gamma
Solute carrier family 52, riboflavin transporter, member 2
Potassium voltage-gated channel, Shal-related subfamily, member 3
CD96 antigen
Complement component 1, q subcomponent, A chain
Complement component 1, q subcomponent, B chain
Complement component 1, q subcomponent, C chain
Complement component-2
Complement component-4A
Complement component-5
Complement component-6
Complement component-7
Complement component-8, alpha polypeptide
Complement component-8, beta polypeptide
Complement component-9
Collagen I, alpha-1 polypeptide
Proteoglycan 4 (megakaryocyte stimulating factor; hemangiopoietin)
Aspartoacylase (aminoacylase-2)
Caspase recruitment domain-containing protein 9
Interleukin 17 receptor C
Tropomyosin 3
Tropomyosin-2, beta
Kirsten rat sarcoma-2 viral (v-Ki-ras2) oncogene homolog
Mitogen-activated protein kinase kinase 2
Murine sarcoma viral (v-raf) oncogene homolog B1
Mitogen-activated protein kinase kinase kinase 7
Myomaker
Ras-associated protein RAB23
TDP-glucose 4,6-dehydratase
CD8 antigen, alpha polypeptide (p32)
Achaete-scute family bHLH transcription factor 1
Leucine zipper- and sterile alpha motif-containing kinase
Solute carrier family 6 (neurotransmitter transporter, creatine), member 8
Adducin-3, gamma
Small nuclear ribonucleoprotein polypeptides B and B1
Excision-repair, complementing defective, in Chinese hamster, number 5

Excision repair cross complementing rodent repair deficiency, complementation group
STN1, CST complex subunit
Conserved telomere maintenance component 1
Cytochrome P450, subfamily XXVIIA, polypeptide 1 (sterol 27-hydroxylase)
Battenin
Mitochondrial inner membrane protein MPV17
Myelin protein zero
Ras-associated protein RAB7
Lamin A/C
Chromodomain helicase DNA binding protein 7
Lysosomal trafficking regulator
Phosphatidylinositol glycan, class L
ETS2 repressor factor
ATP-binding cassette, subfamily B, member 11 (bile salt export pump)
ATPase, class I, type 8B, member 1
ATP-binding cassette, subfamily B, member 4 (P-glycoprotein-3/multiple drug resistant)
Lipase A, lysosomal acid, cholesterol esterase
Emopamil-binding protein
AF4/FMR2 family, member 4
Vacuolar protein sorting 13A (chorein)
Neutrophil cytosolic factor-1, 47kD
Neutrophil cytosolic factor-2, 65kD
Cytochrome b-245, alpha polypeptide
Cytochrome b-245, beta polypeptide
NLR family, pyrin domain containing 3
Solute carrier family 25 (mitochondrial carrier, citrin), member 13
Nectin 1
Meis homeobox 2
Runt-related transcription factor 2
Coiled-coil and C2 domains-containing protein 2A
RPGRIP1-like
Excision repair cross-complementing rodent repair deficiency, complementation group
Coenzyme Q4, *S. cerevisiae*, homolog of
AT-rich interaction domain-containing protein 1B
AT rich interactive domain 1A, SWI-like
AT-rich interaction domain-containing protein 2
SRY (sex-determining region Y)-box 11
Vacuolar protein sorting 13, yeast, homolog of, B
Cytokine-like factor 1
Kelch-like 7
mutS homolog 2
BCL2-associated X protein
BUB1 mitotic checkpoint serine/threonine kinase B
Catenin (cadherin-associated protein), beta 1, 88kD
Mutated in colorectal cancers

Recombination activating gene-1
Recombination activating gene-2
Lipoprotein lipase
Interleukin-2 receptor, gamma
tRNA methyltransferase 10C, mitochondrial RNase P subunit
NA
Prosaposin (sphingolipid activator protein-1)
Complement factor D
Sodium leak channel, nonselective
Phosphomannomutase 2
Magnesium transporter 1
Dolichyl-phosphate mannosyltransferase 1, catalytic subunit
Mannose-P-dolichol utilization defect 1
Dolichyl-P-mannose:Man-7-GlcNAc-2-PP-dolichyl-alpha-6- mannosyltransferase
Mannosyl-oligosaccharide glucosidase
Solute carrier family 35, member C1 (GDP-Fucose transporter 1)
Component of oligomeric golgi complex 7
Solute carrier family 35 (CMP-sialic acid transporter), member 1
Component of oligomeric golgi complex 4
Solute carrier family 35 (UDP-galactose transporter), member 2
Coiled-coil domain-containing protein 115
Alg1, yeast, homolog of (beta-1,4 mannosyltransferase)
Alg9, yeast, homolog of
Dolichol kinase
Steroid 5-alpha-reductase 3
Signal sequence receptor, delta
Abelson murine leukemia viral (v-abl) oncogene homolog 1
Harvey rat sarcoma viral (v-Ha-ras) oncogene homolog
Coxsackievirus- and adenovirus receptor-like membrane protein
Coproporphyrinogen oxidase
Transcription factor-4 (immunoglobulin transcription factor-2)
Solute carrier family 4 (sodium borate cotransporter), member 11
Nipped-B-like (delangin)
Segregation of mitotic chromosomes 1 (SMC1, yeast, homolog of; DXS423E; SB1.8)
Structural maintenance of chromosomes 3
Histone deacetylase 8
Hexose-6-phosphate dehydrogenase
Hydroxyprostaglandin dehydrogenase 15-(NAD)
Solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein ba
FRAS1-related extracellular matrix protein 2
Motor neuron and pancreas homeobox 1
Aldehyde dehydrogenase 18 family, member A1 (1-pyrroline-5-carboxylate synthetase
Elastin
EGF-containing fibulin-like extracellular matrix protein 2 (fibulin 4)
Latent transforming growth factor-beta-binding protein 4

ATPase, H⁺ transporting, V0 subunit A2
Pyrroline-5-carboxylate reductase-1
Cystinosin
Solute carrier family 3 (cystine, dibasic and neutral amino acid transporters), member
Solute carrier family 7 (cationic amino acid transporter, y⁺ system), member 9
Potassium intermediate/small conductance calcium-activated channel, subfamily N, m
PIEZO1 ion channel
Microtubule-associated protein tau
Synuclein, alpha (non A4 component of amyloid precursor)
Keratin 14
Ribosomal protein S19
Ribosomal protein S17
Ribosomal protein L35A
Ribosomal protein L11
Ribosomal protein S7
Epithelial cellular adhesion molecule
Guanylate cyclase 2C (heat stable enterotoxin receptor)
Keratin 5
sal-like 4
Glucose-6-phosphatase, catalytic, 3
Inhibitor of kappa light polypeptide gene enhancer in B cells, kinase complex-associated
Codanin 1
NA
Kruppel-like factor 1, erythroid
TRF1-interacting nuclear factor 2
Regulator of telomere elongation helicase 1
Nucleolar protein family A, member 3
Nucleolar protein family A, member 2
WD repeat-containing protein antisense to TP53
Polyadenylate-specific ribonuclease
Dyskerin
Plasminogen
Protein kinase, interferon-inducible double-stranded RNA-dependent activator
Hippocalcin, 23kD, Ca²⁺-binding protein
Mitochondrial trans-2-enoyl-CoA reductase
GTP cyclohydrolase 1
Collagen VII, alpha-1 polypeptide
Ectodysplasin A
EDAR-associated death domain
Gap junction protein, beta-6 (connexin-30)
Nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha
Plakophilin-1
Collagen V, alpha-1 polypeptide
Collagen V, alpha-2 polypeptide
Tenascin XB

ADAM metallopeptidase with thrombospondin type 1 motif, 2 (procollagen I N-proteinase)
Procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase)
Carbohydrate (N-acetylgalactosamine 4-O) sulfotransferase 14
Complement component-1, r subcomponent
Complement component-1, s subcomponent
Collagen III, alpha-1 polypeptide
Alpha-1-antitrypsin (serpin peptidase inhibitor, clade A, member 1)
Mitochondrial fission factor
Tubulin-specific chaperone E
Seipin
Transmembrane channel-like 8
Transmembrane channel-like 6
Integrin, beta-4
Integrin, alpha-6
Keratin 1
Keratin 10
Sodium channel, voltage-gated, type IX, alpha subunit
Scavenger receptor class B, member 2
Aristaless-related homeobox, X-linked
Cyclin-dependent kinase-like 5 (serine/threonine protein kinase 9)
Solute carrier family 25 (mitochondrial carrier, glutamate), member 22
Salt-inducible kinase 1
Syntaxin-binding protein 1
Calcium channel, voltage-dependent, P/Q type, alpha 1A subunit
Glutamate receptor, ionotropic, N-methyl-D-aspartate 2D
Gamma-aminobutyric acid B receptor 2
Complexin 1
2,3-bisphosphoglycerate mutase
Desmoglein-1
Gap junction protein, beta-3
Gap junction protein, beta-4
Gap junction protein, alpha-1, 43kD (connexin 43)
3-ketodihydrosphingosine reductase
Cytochrome c oxidase, subunit IV, isoform 2
Exostosin glycosyltransferase 2
Coagulation factor VII
NLR family, pyrin domain containing 12
Pyrin (marenostrin)
Fanconi anemia, complementation group A
Fanconi anemia, complementation group B gene
Fanconi anemia, complementation group C
Fanconi anemia, complementation group D2
Fanconi anemia, complementation group E gene
FANCI gene
PHD finger protein 9

Slx4, *S. cerevisiae*, homolog of
Excision-repair, complementing defective, in Chinese hamster, number 4
Ubiquitin-conjugating enzyme E2T
N-acylsphingosine amidohydrolase (acid ceramidase) 1
Oncogene NMYC
Collagen XI, alpha-2 polypeptide
SNF2-related CBP activator protein
Cytochrome P450, subfamily XXVIC, polypeptide 1
Solute carrier family 46 (folate transporter), member 1
FMR1 gene
SH3 and PX domains-containing protein 2B
FRAS1 gene
Glutamate receptor-interacting protein 1
Sequestosome 1
Aldolase B, fructose-bisphosphatase
Fucosidase, alpha-L- 1, tissue
UDP galactose-4-epimerase
Nucleoporin, 107kD
Tetratricopeptide repeat domain 7A
Succinate dehydrogenase complex, subunit B, iron sulfur (Ip)
Succinate dehydrogenase complex, subunit C, integral membrane protein, 15kD
Hardy-Zuckerman 4 feline sarcoma (v-kit) oncogene
Lysine acetyltransferase 6B
Golgin, RAB6-interacting
TEK tyrosine kinase, endothelial
Melanocortin-2 receptor (ACTH receptor)
Nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)
Formiminotransferase cyclodeminase
Glutamate-ammonia ligase (glutamine synthase)
Glutathione synthetase
Solute carrier family 6 (neurotransmitter transporter, glycine), member 9
Glucose-6-phosphatase, catalytic
Solute carrier family 37 (glucose-6-phosphate transporter), member 4
Glucosidase, acid alpha-
Amylo-1,6-glucosidase, 4-alpha-glucanotransferase (glycogen debranching enzyme)
Glycogen branching enzyme
Phosphorylase kinase, gamma 2 (testis/liver)
Aldolase A, fructose-bisphosphatase
Phosphatidylinositol glycan, class M
Galactosidase, beta-1
Anoctamin 5
Family with sequence similarity 111, member A
Neurobeachin-like 2
GLI-Kruppel family member GLI3 (oncogene GLI3)
Ras-associated protein RAB27A

Cathepsin C
Pantothenate kinase 2
Solute carrier family 6 (neurotransmitter transporter), member 19
Chromosome 19 open reading frame 61
Activity-dependent neuroprotector homeobox
Hemojuvelin
Hepcidin antimicrobial peptide
Transferrin receptor 2
Hexokinase-1
Triosephosphate isomerase-1
Glucose phosphate isomerase; neuroleukin
Perforin
unc-13 homolog D
Syntaxin binding protein 2
Collagen and calcium-binding EGF domain-containing protein 1
FAT atypical cadherin 4
ADAM metallopeptidase with thrombospondin type 1 motif, 3
HPS gene 1
Adaptor-related protein complex 3, beta 1 subunit (adaptin, beta-3a)
Solute carrier family 29 (nucleoside transporter), member 3
Holocarboxylase synthetase
Cell adhesion molecule-related/downregulated by oncogenes
Cystathionine beta-synthase
Hypoxanthine phosphoribosyltransferase 1
Anthrax toxin receptor 2
HYLS1 gene
Mevalonate kinase
Dedicator of cytokinesis 8
Glycine receptor, alpha-1 polypeptide
Glycine receptor, beta subunit
Solute carrier family 6 (neurotransmitter transporter, glycine), member 5
Platelet-derived growth factor receptor, alpha polypeptide
Ferritin, light chain
ATP-binding cassette, subfamily C, member 8 (sulfonylurea receptor)
Potassium inwardly-rectifying channel, subfamily J, member 11
Glucokinase (hexokinase-4)
Sodium channel, voltage-gated, type IV, alpha polypeptide
Glycosylphosphatidylinositol-anchored high density lipoprotein-binding protein 1
Apolipoprotein C-II
Solute carrier family 25 (mitochondrial carrier), member 15 (ornithine transporter 1)
Glyoxylate reductase/hydroxypyruvate reductase
Cell division cycle 73
6-pyruvoyltetrahydropterin synthase
Quinoid dihydropteridine reductase
Solute carrier organic anion transporter family, member 2A1

Seryl-tRNA synthetase 2
Sec61 translocon, alpha-1 subunit
Adaptor-related protein complex 2, sigma 1 subunit
Claudin 16 (paracellin 1)
Claudin 19
Contactin-associated protein 1
Alkaline phosphatase, liver/bone/kidney
Chloride channel-7
Early B-cell factor 3
C-terminal binding protein 1
Corneodesmosin
SOX18, mouse, homolog of
Solute carrier family 27 (fatty acid transporter), member 4
Transglutaminase-1 (K polypeptide epidermal type I, protein-glutamine gamma-glutam
Patatin-like phospholipase domain-containing protein 1
Sulfotransferase family 2B, member 1
Archidonate 12-lipoxygenase, R type
Arachidonate lipoxygenase 3
ATP-binding cassette, subfamily A, member 12
Cytochrome P450, family 4, subfamily F, polypeptide 22
NIPA-like domain-containing 4
Lipase family, member N
Ceramide synthase 3
Claudin 1
Stromal interaction molecule 1
Mucosa-associated lymphoid tissue lymphoma translocation gene 1
Phosphatidylinositol 3-kinase, catalytic, 110kD, delta
Inhibitor of kappa light polypeptide gene enhancer in B cells, kinase of, beta
CD3G antigen, gamma polypeptide (TiT3 complex)
CD3E antigen, epsilon polypeptide (TiT3 complex)
CD3D antigen, delta polypeptide (TiT3 complex)
Fc fragment of IgG, low affinity III, receptor for (CD16)
Phosphoglucomutase-3 (N-acetylglucosamine-phosphate mutase 1)
Cytidine 5'-triphosphate synthetase 1
Protein kinase, DNA-activated, catalytic polypeptide (hyperradiosensitivity of murine
Interferon gamma receptor-2 (interferon gamma transducer 1)
Interleukin-12B (natural killer cell stimulatory factor-2, cytotoxic lymphocyte maturation
Interleukin-12 receptor, beta-1
Signal transducer and activator of transcription-1
Interferon regulatory factor 8
Inhibitor of kappa light polypeptide gene enhancer in B cells, kinase of, gamma (NF-k
Tyrosine kinase 2
ISG15 ubiquitin-like modifier
Dedicator of cytokinesis 2
Interleukin-2 receptor, alpha

RAR-related orphan receptor C
Transferrin receptor
ATPase, H⁺ transporting, lysosomal, accessory protein 1
BAF chromatin remodeling complex subunit BCL11B
Moesin
Interleukin 17 receptor A
Minichromosome maintenance deficient, *S. cerevisiae*, homolog of, 4
Interleukin 21 receptor
Interleukin-2 receptor, beta polypeptide
T-cell receptor alpha
Influenza virus NS1A protein-binding protein
Tripeptidyl peptidase II
Coronin 1A
ORAI calcium release-activated calcium modulator 1
Late endosomal/lysosomal adaptor, MAPK and MTOR activator 2
Ficolin 3
Purine nucleoside phosphorylase
Uracil-DNA glycosylase
Activation-induced cytidine deaminase
CD40 antigen
DNA methyltransferase 3B
Zinc finger- and BTB domain-containing protein 24
Cell division cycle-associated 7
Helicase, lymphoid-specific
Inducible costimulator
Nuclear factor of kappa light chain gene enhancer in B-cells 2 (p49/p100); oncogene L
Nuclear factor of kappa light chain gene enhancer in B-cells 1 (p105)
Ikaros family zinc finger 1
Tumor necrosis factor receptor superfamily, member 13B
CD19 antigen
Tumor necrosis factor receptor superfamily, member 13C
Membrane-spanning 4-domains, subfamily A, member 1
CD81 antigen (target of antiproliferative antibody-1)
Complement component (3d/Epstein-Barr virus) receptor-2
Lipopolysaccharide-responsive, beige-like anchor protein
Tumor necrosis factor ligand superfamily, member 5
Forkhead box P3 (scurfin)
Exostosin-like 3
Phospholipase A2, group VI
FAS-associating protein with death domain
Cytokine receptor, family II, member 4
Interleukin-10 receptor, alpha
Neurotrophic tyrosine kinase, receptor, type 1
Surfactant, pulmonary-associated protein A1
FANCD2/FANCI-associated nuclease 1

Gastric intrinsic factor
Isovaleryl Coenzyme A dehydrogenase
Protein phosphatase, magnesium-dependent, 1, delta isoform
OFD1 protein
Tectonic family, member 3
Katanin-interacting protein
MKS1 gene
Laccase (multicopper reductase) domain-containing protein 1
Mothers against decapentaplegic, Drosophila, homolog of, 4
Lysine (K)-specific methyltransferase 2D
Lysine (K)-specific demethylase 6A
Immunoglobulin kappa constant region
Glypican 4
Potassium inwardly-rectifying channel, subfamily J, member 6
Matrix Gla protein
Fermitin family, member 1
Euchromatic histone methyltransferase 1
KAT8 regulatory NSL complex subunit 1
Galactosylceramidase
Myosin, heavy polypeptide-7, cardiac muscle, beta
PR domain-containing protein 16
Succinate dehydrogenase complex, subunit A, flavoprotein
Protein tyrosine phosphatase, nonreceptor-type, 11
Integrin, beta-2 (antigen CD18 (p95), lymphocyte function-associated antigen-1; macr
Fermitin family, member 3
Lamin B1
ATPase, class VI, type 11A
Polymerase III, RNA, subunit A
Polymerase III, RNA, subunit B
Lipase maturation factor 1
Flavin adenine dinucleotide synthetase 1
1-acylglycerol-3-phosphate O-acyltransferase 2 (lysophosphatidic acid acyltransferase
Caveolae-associated protein 1
Transforming growth factor, beta receptor II, 70-80kD
NSE3 homolog, SMC5-SMC6 complex component
SET domain-containing protein 2
fms-related tyrosine kinase-4 (vascular endothelial growth factor receptor 3)
Forkhead box C2
T-cell-specific tyrosine kinase; homolog of mouse T-cell itk/tsk tyrosine kinase
CD27 antigen
SH2 domain protein 1A
Inhibitor of apoptosis, X-linked
Solute carrier family 7 (cationic amino acid transporter, y+ system), member 7
Myosin, heavy polypeptide-9, nonmuscle
Retinitis pigmentosa GTPase regulator

Lipin 2
Zinc metalloproteinase STE24
Mannosidase, alpha, class 2B, member 1
Mannosidase, beta A, lysosomal
Branched chain keto acid dehydrogenase E1, alpha polypeptide
Branched chain keto acid dehydrogenase E1, beta polypeptide
Dihydrolipoamide branched chain transacylase (E2 component of branched chain ket
Nuclear factor I/X (CCAAT-binding transcription factor)
RAB3 GTPase-activating protein (noncatalytic) subunit 2
McKusick-Kaufman syndrome gene
Nephrocystin 3
Leiomodin 1
Origin recognition complex, subunit 1
Origin recognition complex, subunit 4, *S. cerevisiae*, homolog of
Origin recognition complex, subunit 6, *S. cerevisiae*, homolog of
Geminin
CREB binding protein
E1A-binding protein, 300kD
ATPase, Cu⁺⁺ transporting, alpha polypeptide
Mediator complex subunit 13-like
SET domain-containing protein 5
Chromosome alignment-maintaining phosphoprotein 1
Guanine nucleotide-binding protein, beta polypeptide-1
Human immunodeficiency virus type I enhancer-binding protein-2
Kinesin family member 1A
HECT domain and RCC1-like domain 2
NOP2/SUN RNA methyltransferase family, member 2
Neurite extension and migration factor
Solute carrier family 9 (sodium/hydrogen exchanger), member 6
Ribosomal protein L10
Transport and golgi organization 2 homolog
MMACHC gene
LMBR1 domain-containing protein 1
ATP-binding cassette, subfamily D, member 4 (peroxisomal membrane protein 1-like)
Methylmalonyl Coenzyme A mutase
MMAA gene
MMAB gene
Methylmalonyl-CoA epimerase
Regulatory factor X, ankyrin repeat-containing
RNA, U4, small nuclear, AT-AC form
Methylsterol monooxygenase 1
Immediate-early response 3-interacting protein 1
Mediator complex subunit 17
Retinol-binding protein-4, interstitial
Stimulated by retinoic acid 6, mouse, homolog of

BCL6 corepressor
Sterile alpha motif domain-containing protein 9
DNA mismatch repair protein MLH1
PMS1 homolog 2, mismatch repair system component
Succinate dehydrogenase complex, subunit D, integral membrane protein
Thymidine phosphorylase
Mitochondrial genome maintenance exonuclease 1
F-box and leucine-rich repeat protein 4
Deoxyguanosine kinase, mitochondrial
Polymerase (DNA directed), gamma
Twinkle mtDNA helicase
Ribonucleotide reductase M2 B, TP53 inducible
Translocase of inner mitochondrial membrane 8, yeast, homolog of, A
Gephyrin
Guanylate cyclase 1, soluble, alpha 3
N-acetylglucosamine-1-phosphate transferase, alpha/beta subunits
Iduronidase, alpha-L-
Iduronate 2-sulfatase (Hunter syndrome)
Galactosamine (N-acetyl)-6-sulfate sulfatase
N-sulfoglucosamine sulfohydrolase (sulfamidase)
Heparan-alpha-glucosaminide N-acetyltransferase
N-acetylglucosamine-6-sulfatase
Arylsulfatase B
Glucuronidase, beta-
Vacuolar protein sorting 33, yeast, homolog of, A
Matrix metalloproteinase 2 (gelatinase A, 72kD type IV collagenase)
Phosphatidylinositol glycan, class N
Menin
Cyclin-dependent kinase inhibitor 1B (p27, Kip1)
Cholinergic receptor, nicotinic, alpha polypeptide-1, muscle
Sulfatase-modifying factor-1
Actin, alpha-2, smooth muscle, aorta
Integrin, alpha-7
Laminin, alpha-2 (merosin)
DNAJ/HSP40 homolog, subfamily B, member 6
Transportin 3
Calpain, large polypeptide L3
Trafficking protein particle complex, subunit 11
Sarcoglycan, gamma (35kD dystrophin-associated glycoprotein)
Selenoprotein N
Glutamine-fructose-6-phosphate transaminase
Collagen XIII, alpha-1 polypeptide
Solute carrier family 5 (choline transporter), member 7
Vesicle-associated membrane protein-1 (synaptobrevin-1)
Cholinergic receptor, nicotinic, epsilon polypeptide

Collagenic tail of endplate acetylcholinesterase
Choline acetyltransferase
Multiple epidermal growth factor-like domains 10
Tyrosyl-tRNA synthetase 2
Myotilin (titin immunoglobulin domain protein)
Pyridine nucleotide-disulfide oxidoreductase domain-containing protein 1
Chloride channel-1, skeletal muscle
Dystrophia myotonica-protein kinase
CCHC-type zinc finger nucleic acid-binding protein
Phospholipase C, delta-1
LIM homeo box transcription factor 1, beta
Nebulin
Doublecortin domain-containing protein 2
Complement factor H-related 5
CD151 antigen
Nephrin
Epithelial membrane protein 2
Serine protease inhibitor, Kazal type, 5
Histone deacetylase 4
RE repeats-encoding gene
Neurofibromin (neurofibromatosis, type I)
Serine palmitoyltransferase, long-chain base subunit 1
Serine palmitoyltransferase, long-chain base subunit 2
WNK lysine deficient protein kinase 1
Family with sequence similarity 134, member B
DNA methyltransferase 1
Atlastin 3
Elastase, neutrophil-expressed
Signal recognition particle, 54kD
HCLS1-associated protein X1
Vacuolar protein sorting 45 homolog
Jagunal homolog 1
Colony-stimulating factor-3 receptor (granulocyte)
Wiskott-Aldrich syndrome gene
Rac family small GTPase 2
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamil
Sphingomyelin phosphodiesterase-1, acid lysosomal
NPC1 gene
Epididymal secretory protein HE1
Transient receptor potential cation channel, subfamily M, member 1 (melastatin)
Nibrin
UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase
Oncogene RAF1
Neuroblastoma RAS viral (v-ras) oncogene homolog
Ric-like protein without CAAX motif 1

SOS Ras/Rac guanine nucleotide exchange factor 2
Cas-Br-M ecotropic retroviral transforming sequence (Oncogene CBL2)
Leptin (murine obesity homolog)
Leptin receptor
Poly(A)-binding protein, nuclear 1
CD4 antigen (p55)
Casein kinase-2, alpha-1 polypeptide
Axis inhibitor 2 (conductin, mouse, homolog of)
DNA cross-link repair protein 1C
Midline-1
Inositol polyphosphate phosphatase-like 1
Ornithine transcarbamylase
Uridine monophosphate synthetase (orotate phosphoribosyl transferase and orotidine-APC membrane recruitment protein 1
T-cell immune regulator 1
Tumor necrosis factor ligand superfamily, member 11 (osteoprotegerin ligand)
Carbonic anhydrase II
Osteopetrosis associated transmembrane protein 1 (grey-lethal, mouse, homolog of)
Sorting nexin 10
Rhesus blood group-associated glycoprotein
Keratin 16
Keratin 17
Keratin 9
Pancreas/duodenum homeobox protein 1
Protease, serine, 1 (trypsin 1)
Parkin
Solute carrier family 6 (neurotransmitter transporter, dopamine), member 3
Myofibrillogenesis regulator 1
SRY (sex-determining region Y)-box-10
Transglutaminase 5
Cystatin A (stefin A)
Zinc finger HIT domain-containing protein 3
Proteolipid protein 1
Acyl-Coenzyme A oxidase 1, palmitoyl
Peroxisome biogenesis factor 5
Peroxisome biogenesis factor 2
Peroxisome biogenesis factor 16
Peroxisomal biogenesis factor-7
Serine/threonine protein kinase-11
Phenylalanine hydroxylase
Polymerase, DNA, alpha-1
Neurexin 1
Caspase recruitment domain-containing protein 14
Runt-related transcription factor 1 (aml1 oncogene)
U6 small nuclear RNA biogenesis phosphodiesterase 1

Polycystin-2
Fibrocystin
Hydroxymethylbilane synthase
Uroporphyrinogen III synthase
Necdin
Small nuclear ribonucleoprotein polypeptide N
Makorin 3
Ribonuclease H1
Peptidase D (prolidase)
Properdin P factor, complement
Propionyl Coenzyme A carboxylase, alpha polypeptide
Propionyl Coenzyme A carboxylase, beta polypeptide
Proteasome subunit, beta type, 8 (large multifunctional protease-7)
Ferrochelatase
Occludin
Interleukin 36 receptor antagonist
Surfactant, pulmonary-associated protein A2
Myeloid differentiation primary response gene 88
Proline-serine-threonine phosphatase-interacting protein 1
Pyruvate dehydrogenase phosphatase catalytic subunit 1
MDS1 and EVS1 complex locus
Nuclear receptor-binding SET domain protein 2
Phytanoyl-CoA hydroxylase
Adenylate kinase-2, mitochondrial
tRNA nucleotidyltransferase, CCA-adding, 1
Forkhead box G1B
RING finger protein 168
Growth/differentiation factor 1
WASH complex, subunit 5
Coiled-coil domain-containing protein 22
Establishment of cohesion 1, *S. cerevisiae*, homolog of, 2
Nucleoredoxin
Solute carrier family 17 (sodium phosphate), member 5
Hexosaminidase B, beta polypeptide
Potassium channel tetramerization domain-containing 1
MAGE-like 2
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily
Janus kinase 3 (Janus kinase, leukocyte)
Zinc finger protein 750
Non-SMC element 2, *S. cerevisiae*, homolog of
TRAF-interacting protein
Serologically defined colon cancer antigen 8
Nonhomologous end-joining factor 1
Protein tyrosine phosphatase, receptor type, c polypeptide
Interleukin-7 receptor

Cystine-rich PDZ binding protein
X-ray repair, complementing defective, repair in Chinese hamster cells-4
Intraflagellar transport 172
WD repeat-containing protein 34
Dynein, cytoplasmic 2, light intermediate chain 1
SKI proto-oncogene
Elongation factor-like GTPase 1
Neuraminidase 1 (lysosomal sialidase; sialidase 1)
Glypican 3
ATP-binding cassette, subfamily G, member 5
ATP-binding cassette, subfamily G, member 8
Aldehyde dehydrogenase 3 family, member A2 (fatty aldehyde dehydrogenase)
Mechanistic target of rapamycin
Delta-7-dehydrocholesterol reductase
Retinoic acid-induced gene 1
Nuclear receptor binding SET domain protein 1
ATPase family gene 3-like 2
Endoplasmic reticulum lipid raft-associated protein 2
Tectonin beta-propeller repeat-containing protein 2
DDHD domain-containing protein 2
Paraplegin
CCAAT/enhancer-binding protein (C/EBP), epsilon
Dynein, axonemal, heavy chain-1
FANCM gene
Ankyrin-1, erythrocytic
Spectrin, beta, erythrocytic
Survival of motor neuron 1, telomeric
Tau tubulin kinase 2
Protein kinase C, gamma polypeptide
TATA box binding protein
SCY1-like 1
Delta like canonical Notch ligand 3
Mesoderm posterior bHLH transcription factor 2
LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
Hes family bHLH transcription factor 7
Acid phosphatase 5, tartrate resistant
DDRGK domain-containing protein 1
Discoidin domain receptor family, member 2
Transmembrane protein 173
Shroom family member 4
Phosphodiesterase 8B
Vac14, *S. cerevisiae*, homolog of
Nucleoporin, 62-kD
Leukemia inhibitory factor receptor
Y-encoded testis-specific protein-like

Sulfite oxidase
Surfactant, pulmonary-associated protein C (pulmonary surfactant apoprotein-2, SP-C
ATP-binding cassette-3
Deoxyribonuclease I-like 3
Forkhead box N1 (winged helix nude)
Macrophage-stimulating-1 (hepatocyte growth factor-like)
ATP-binding cassette 1
Endoglin
Activin A receptor, type II-like kinase 1
Potassium voltage-gated channel, subfamily H, member 1 (ether-a-go-go, drosophila,
RING finger protein 125
Solute carrier family 19 (folate transporter), member 3
Thrombopoietin (megakaryocyte growth and development factor)
MPL proto-oncogene (thrombopoietin receptor)
Janus kinase 2 (a protein-tyrosine kinase)
RNA-binding motif protein 8A
Fc fragment of IgG, low affinity IIc, receptor for
Calcium channel, voltage-dependent, L type, alpha 1C subunit
Sal-like 1
Transaldolase-1
Transcobalamin II
Tetratricopeptide repeat domain 37
Superkiller viralicidic activity 2, *S. cerevisiae*, homolog, like
Zinc finger transcription factor TRPS1
Excision-repair cross-complementing rodent repair deficiency, complementation group
General transcription factor IIH, polypeptide 5
Flavin-containing monooxygenase 3
Myosin, heavy polypeptide-8, skeletal muscle, perinatal
Hamartin (tuberous sclerosis 1 gene)
Tuberin (tuberous sclerosis 2 gene)
BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)
Rhomboid 5, *Drosophila*, homolog of, 2
Fumarylacetoacetase
Extracellular matrix protein-1
Heparanase 2
Leucine-rich repeats- and immunoglobulin-like domains-containing protein 2
Zic family, member 3
T-box 1
Ectopic P-granules autophagy protein 5 homolog
Actin, gamma-2, smooth muscle, enteric
Calpain 5
Coagulation factor VIII VWF (von Willebrand factor)
Chemokine (C-X-C motif) receptor 4 (neuropeptide Y receptor Y3)
POGO transposable element with ZNF domain
Lysine (K)-specific methyltransferase 2E

ATPase, Cu⁺⁺ transporting, beta polypeptide
Sin3, yeast, homolog of, A
Eukaryotic translation initiation factor 2-alpha kinase 3
Wolframin
CDGSH iron sulfur domain protein 2
Xanthine dehydrogenase (xanthine oxidase)
XPA complementing gene
XPC gene
Damage-specific DNA binding protein 2, 48kD
Polymerase, DNA, eta
Solute carrier family 30 (zinc transporter), member 2

Entrez gene ID	Ensembl gene ID
5663	ENSG00000080815
29760	ENSG00000095585
56262	ENSG00000136802
5295	ENSG00000145675
567	ENSG00000166710
55240	ENSG00000115107
91754	ENSG00000119638
5111	ENSG00000132646
841	ENSG00000064012
5825	ENSG00000117528
112744	ENSG00000112116
10758	ENSG00000056972
2068	ENSG00000104884
4669	ENSG00000108784
9723	ENSG00000170381
5080	ENSG00000007372
22796	ENSG00000135775
1650	ENSG00000244038
79868	ENSG00000101901
10483	ENSG00000101310
10516	ENSG00000140092
6154	ENSG00000161970
65057	ENSG00000102977
10522	ENSG00000177030
60	ENSG00000075624
126695	ENSG00000175707
5339	ENSG00000178209
84823	ENSG00000176619
23384	ENSG00000100014
58484	ENSG00000091106
5888	ENSG00000051180
7516	ENSG00000196584
10459	ENSG00000116670
55159	ENSG00000168411
113278	ENSG00000101276
2316	ENSG00000196924
6654	ENSG00000115904
4689	ENSG00000100365
3209	ENSG00000106031
8943	ENSG00000065000
26258	ENSG00000104164
1889	ENSG00000117298
53630	ENSG00000135697

9094	ENSG00000109103
7293	ENSG00000186827
3932	ENSG00000182866
919	ENSG00000198821
8915	ENSG00000142867
3665	ENSG00000185507
59067	ENSG00000138684
3181	ENSG00000122566
6868	ENSG00000151694
1956	ENSG00000146648
112	ENSG00000174233
6337	ENSG00000111319
857	ENSG00000105974
63924	ENSG00000187288
990	ENSG00000094804
8260	ENSG00000102030
3373	ENSG00000114378
5885	ENSG00000164754
1144	ENSG00000135902
400916	ENSG00000250479
58	ENSG00000143632
1292	ENSG00000142173
5376	ENSG00000109099
2672	ENSG00000162676
51360	ENSG00000012174
7084	ENSG00000166548
1131	ENSG00000133019
3930	ENSG00000143815
91147	ENSG00000164953
54361	ENSG00000162552
51816	ENSG00000093072
10297	ENSG00000115266
79876	ENSG00000081307
134701	ENSG00000203877
7473	ENSG00000108379
6714	ENSG00000197122
6916	ENSG00000059377
7737	ENSG00000125352
131669	ENSG00000159650
9915	ENSG00000172379
7456	ENSG00000115935
5320	ENSG00000188257
7157	ENSG00000141510
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1475	ENSG00000121552
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9409	ENSG00000121680
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6794	ENSG00000118046
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79092	ENSG00000141527
861	ENSG00000159216
79650	ENSG00000103005

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246243	ENSG00000171865
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5696	ENSG00000204264
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54704	ENSG00000164951
2122	ENSG00000085276
7468	ENSG00000109685
5264	ENSG00000107537
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64359	ENSG00000167693
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50485	ENSG00000138375
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26160	ENSG00000138002
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79631	ENSG00000140598
4758	ENSG00000204386
2719	ENSG00000147257
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64241	ENSG00000143921
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64324	ENSG00000165671
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9895	ENSG00000196663
23259	ENSG00000085788
6687	ENSG00000197912
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2328	ENSG000000007933
4626	ENSG000000133020
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7249	ENSG000000103197
8314	ENSG000000163930
79651	ENSG000000129667
2184	ENSG000000103876
1893	ENSG000000143369
60495	ENSG000000172987
9860	ENSG000000198799
7547	ENSG000000156925
6899	ENSG000000184058
57724	ENSG000000152223
72	ENSG000000163017
726	ENSG000000149260
7450	ENSG000000110799
7852	ENSG000000121966
23126	ENSG000000143442
4297	ENSG000000118058

540	ENSG000000123191
25942	ENSG000000169375
9451	ENSG000000172071
7466	ENSG000000109501
493856	ENSG000000145354
7498	ENSG000000158125
7507	ENSG000000136936
7508	ENSG000000154767
1643	ENSG000000134574
5429	ENSG000000170734
7780	ENSG000000158014

Phenotypes

?Acne inversa, familial, 3, 613737 (3), Autosomal dominant; Alzheimer disease, type 3, 607822 (3), Autosomal dominant; ?Agammaglobulinemia 4, 613502 (3), Autosomal recessive
?Agammaglobulinemia 5, 613506 (3), Autosomal dominant
?Agammaglobulinemia 7, autosomal recessive, 615214 (3), Autosomal recessive; Immunodeficiency 36, 615214 (3), Autosomal recessive
?Amyloidosis, familial visceral, 105200 (3), Autosomal dominant; Immunodeficiency 43, 241600 (3), Autosomal dominant
?Anemia, hypochromic microcytic, with iron overload 2, 615234 (3), Autosomal dominant
?Arthrogryposis, Perthes disease, and upward gaze palsy, 614262 (3), Autosomal recessive; Lethal congenital contracture syndrome 1, 614262 (3), Autosomal recessive
?Ataxia-telangiectasia-like disorder 2, 615919 (3), Autosomal recessive
?Autoimmune lymphoproliferative syndrome, type IIB, 607271 (3), Autosomal recessive; {Breast cancer, predisposition to}, 607271 (3), Autosomal recessive
?Bile acid synthesis defect, congenital, 5, 616278 (3), Autosomal recessive
?Candidiasis, familial, 6, autosomal dominant, 613956 (3)
?Candidiasis, familial, 8, 615527 (3), Autosomal recessive; {Psoriasis susceptibility 13}, 614070 (3)
?Cerebrooculofacioskeletal syndrome 2, 610756 (3), Autosomal recessive; Trichothiodystrophy 1, photosecure type, 610756 (3), Autosomal recessive
?Charcot-Marie-Tooth disease, axonal, type 2V, 616491 (3), Autosomal dominant; Mucopolysaccharidosis 1, 616491 (3), Autosomal dominant
?CHARGE syndrome, 214800 (3), Autosomal dominant
Aniridia, 106210 (3), Autosomal dominant; Anterior segment dysgenesis 5, multiple subtypes, 604229 (3); Anterior segment dysgenesis 6, 604229 (3), Autosomal dominant
?Congenital disorder of glycosylation, type IIq, 617395 (3), Autosomal recessive
?Congenital disorder of glycosylation, type Ir, 614507 (3), Autosomal recessive
?Congenital disorder of glycosylation, type Is, 300884 (3), X-linked dominant; Epileptic encephalopathy, early infantile, 300884 (3), X-linked dominant
?Cowden syndrome 7, 616858 (3), Autosomal dominant; Dyserythropoietic anemia, congenital, type II, 226400 (3), Autosomal dominant
?Cutis laxa, autosomal dominant 2, 614434 (3), Autosomal dominant; Cutis laxa, autosomal recessive, type 1, 614434 (3), Autosomal recessive
?Diamond-Blackfan anemia 11, 614900 (3), Autosomal dominant
?Dyskeratosis congenita, autosomal dominant 6, 616553 (3), Autosomal recessive, Autosomal dominant; ?Dyskeratosis congenita, autosomal recessive, 616553 (3), Autosomal recessive
?Dyskinesia, seizures, and intellectual developmental disorder, 617171 (3), Autosomal recessive; Mental retardation, mild, 617171 (3), Autosomal recessive
Baraitser-Winter syndrome 1, 243310 (3), Autosomal dominant; ?Dystonia, juvenile-onset, 607371 (3), Autosomal dominant
?Ectodermal dysplasia 12, hypohidrotic/hair/tooth/nail type, 617337 (3), Autosomal dominant
Epidermolysis bullosa simplex with muscular dystrophy, 226670 (3), Autosomal recessive; ?Epidermolysis bullosa simplex with muscular dystrophy, 226670 (3), Autosomal recessive
?Epilepsy, progressive myoclonic, 9, 616540 (3), Autosomal recessive; {Lipodystrophy, partial, acquired, susceptibility to}, 616540 (3), Autosomal recessive
?Facial clefting, oblique, 1, 600251 (3), Autosomal dominant; Hypertelorism, Teebi type, 145420 (3), Autosomal dominant
Autoinflammation with infantile enterocolitis, 616050 (3), Autosomal dominant; ?Familial cold autoinflammatory syndrome 1, 616050 (3), Autosomal dominant
{Breast cancer, susceptibility to}, 114480 (3), Autosomal dominant, Somatic mutation; ?Fanconi anemia, complementation group U, 617247 (3), Autosomal recessive
?Fanconi anemia, complementation group V, 617243 (3), Autosomal recessive
?Fanconi anemia, complementation group W, 617784 (3), Autosomal recessive
Brown-Vialetto-Van Laere syndrome 1, 211530 (3), Autosomal recessive; ?Fazio-Londe disease, 211500 (3), Autosomal recessive
Cardiac valvular dysplasia, X-linked, 314400 (3), X-linked; Congenital short bowel syndrome, 300048 (3), Autosomal dominant
?Fibromatosis, gingival, 1, 135300 (3), Autosomal dominant; Noonan syndrome 4, 610733 (3), Autosomal dominant
?Granulomatous disease, chronic, autosomal recessive, cytochrome b-positive, type III, 613960 (3), Autosomal recessive
?Guttmacher syndrome, 176305 (3), Autosomal dominant; Hand-foot-uterus syndrome, 140000 (3), Autosomal dominant
?Hermansky-Pudlak syndrome 10, 617050 (3), Autosomal recessive
?Hermansky-pudlak syndrome 9, 614171 (3), Autosomal recessive
?Hirschsprung disease, cardiac defects, and autonomic dysfunction, 613870 (3), Autosomal dominant; {Hirschsprung disease, cardiac defects, and autonomic dysfunction, 613870 (3), Autosomal dominant
?Hypercarotenemia and vitamin A deficiency, autosomal dominant, 115300 (3), Autosomal dominant

?Cone-rod dystrophy (3); ?Immunodeficiency 13, 615518 (3), Autosomal dominant
 ?Immunodeficiency 16, 615593 (3), Autosomal recessive
 ?Immunodeficiency 22, 615758 (3), Autosomal recessive
 ?Immunodeficiency 25, 610163 (3), Autosomal recessive
 ?Immunodeficiency 37, 616098 (3), Autosomal recessive; Lymphoma, MALT, somatic, 137245 (3); {Lymphoma, MALT, somatic, 137245 (3)}
 ?Immunodeficiency 39, 616345 (3), Autosomal recessive
 ?Immunodeficiency, common variable, 11, 615767 (3), Autosomal recessive
 ?Inclusion body myopathy with early-onset Paget disease with or without frontotemporal dementia 2, 615445 (3), Autosomal recessive
 ?Inflammatory skin and bowel disease, neonatal, 1, 614328 (3), Autosomal recessive
 Adenocarcinoma of lung, response to tyrosine kinase inhibitor in, 211980 (3), Autosomal dominant, Somatic mutation
 ?Lethal congenital contracture syndrome 8, 616287 (3), Autosomal recessive
 Bronchiectasis with or without elevated sweat chloride 2, 613021 (3), Autosomal dominant; ?Liddle syndrome 1, 613021 (3), Autosomal dominant
 ?Lipodystrophy, congenital generalized, type 3, 612526 (3), Autosomal recessive; Lipodystrophy, familial partial, type 1, 612526 (3), Autosomal recessive
 ?Lipodystrophy, familial partial, type 5, 615238 (3), Autosomal recessive
 ?Meier-Gorlin syndrome 5, 613805 (3), Autosomal recessive
 ?Microphthalmia, syndromic 1, 309800 (3), X-linked; Ogden syndrome, 300855 (3), X-linked recessive, X-linked
 ?Mucopolysaccharidosis type IX, 601492 (3), Autosomal recessive
 Cornelia de Lange syndrome 4, 614701 (3), Autosomal dominant; ?Mungan syndrome, 611376 (3), Autosomal dominant
 Multiple pterygium syndrome, lethal type, 253290 (3), Autosomal recessive; ?Myasthenic syndrome, congenital, 253290 (3), Autosomal recessive
 Frontotemporal dementia and/or amyotrophic lateral sclerosis 2, 615911 (3), Autosomal dominant; ?Myopathy, actin, congenital, with cores, 161800 (3), Autosomal recessive, Autosomal dominant; Myopathy, actin, congenital, with cores, 161800 (3), Autosomal recessive, Autosomal dominant
 Bethlem myopathy 1, 158810 (3), Autosomal recessive, Autosomal dominant; ?Myosclerosis, congenital, 253290 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, type 1A, 118220 (3), Autosomal dominant; Charcot-Marie-Tooth disease, type 1A, 118220 (3), Autosomal dominant
 ?Neutropenia, nonimmune chronic idiopathic, of adults, 607847 (3), Autosomal dominant; ?Neutropenia, severe, 607847 (3), Autosomal dominant
 IFAP syndrome with or without BRESHECK syndrome, 308205 (3), X-linked recessive; Keratosis follicularis, 308205 (3), X-linked recessive
 Mitochondrial DNA depletion syndrome 2 (myopathic type), 609560 (3), Autosomal recessive; ?Progressive myoclonic epilepsy, 609560 (3), Autosomal recessive
 ?Prune belly syndrome, 100100 (3), Autosomal recessive
 Greenberg skeletal dysplasia, 215140 (3), Autosomal recessive; Pelger-Huet anomaly, 169400 (3), Autosomal recessive
 {Bardet-Biedl syndrome 14, modifier of}, 615991 (3), Autosomal recessive; COACH syndrome, 216360 (3), Autosomal recessive
 Mullerian aplasia and hyperandrogenism, 158330 (3), Autosomal dominant; ?SERKAL syndrome, 611812 (3), Autosomal dominant
 ?Sneddon syndrome, 182410 (3), Autosomal recessive; Vasculitis, autoinflammation, immunodeficiency, and autoinflammation, 182410 (3), Autosomal recessive
 ?Sotos syndrome 3, 617169 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 44, 617132 (3), Autosomal recessive; ?Spinocerebellar ataxia, autosomal recessive 1, 617132 (3), Autosomal recessive
 ?Spondylocostal dysostosis 6, 616566 (3), Autosomal recessive
 ?Tetra-amelia syndrome 1, 273395 (3), Autosomal recessive
 Colon cancer, advanced, somatic, 114500 (3); ?Thrombocytopenia 6, 616937 (3), Autosomal dominant
 Ghosal hematodiaphyseal syndrome, 231095 (3), Autosomal recessive; ?Thromboxane synthase deficiency, 231095 (3), Autosomal recessive
 ?Trichothiodystrophy 5, nonphotosensitive, 300953 (3), X-linked dominant
 ?Urocanase deficiency, 276880 (3), Autosomal recessive
 ?Webb-Dattani syndrome, 615926 (3), Autosomal recessive
 ?Wiskott-Aldrich syndrome 2, 614493 (3)
 {?Colorectal cancer, susceptibility to}, 114500 (3), Autosomal dominant, Somatic mutation
 {Adrenocortical carcinoma, pediatric}, 202300 (3), Autosomal dominant; {Basal cell carcinoma 7}, 614740 (3), Autosomal dominant
 {Amyotrophic lateral sclerosis, susceptibility to, 25}, 617921 (3), Autosomal dominant; Myoclonus, intractable, 617921 (3), Autosomal dominant
 {Aplastic anemia, susceptibility to}, 609135 (3); Shwachman-Diamond syndrome, 260400 (3), Autosomal recessive

{Aplastic anemia}, 614743 (3), Autosomal dominant; Dyskeratosis congenita, autosomal dominant 1, 1275
 {Aspergillosis, susceptibility to}, 614079 (3); Candidiasis, familial, 4, autosomal recessive, 613108 (3), Auto
 Asthma and nasal polyps, 208550 (3), Autosomal recessive; {Asthma, aspirin-induced, susceptibility to}, 2
 {Autism susceptibility, X-linked 3}, 300496 (3), X-linked; Encephalopathy, neonatal severe, 300673 (3), X-l
 Autoimmune lymphoproliferative syndrome, type IA, 601859 (3), Autosomal dominant; {Autoimmune lymph
 Ataxia-telangiectasia, 208900 (3), Autosomal recessive; {Breast cancer, susceptibility to}, 114480 (3), Auto
 {Breast cancer, susceptibility to}, 114480 (3), Autosomal dominant, Somatic mutation; Fanconi anemia, co
 {Breast-ovarian cancer, familial, susceptibility to, 3}, 613399 (3); Fanconi anemia, complementation group
 {Budd-Chiari syndrome}, 600880 (3), Autosomal recessive; Factor V deficiency, 227400 (3), Autosomal re
 {Colonic adenoma recurrence, reduced risk of}, 114500 (3), Autosomal dominant, Somatic mutation
 {Colorectal cancer, susceptibility to, 1}, 608812 (3)
 {Colorectal cancer, susceptibility to, 10}, 612591 (3), Autosomal dominant; Mandibular hypoplasia, deafness
 {Colorectal cancer, susceptibility to, 12}, 615083 (3), Autosomal dominant; FILS syndrome, 615139 (3), Au
 {Colorectal cancer, susceptibility to}, 114500 (3), Autosomal dominant, Somatic mutation; {Leprosy, suscep
 Camurati-Engelmann disease, 131300 (3), Autosomal dominant; {Cystic fibrosis lung disease, modifier of}
 {Dermatitis, atopic, susceptibility to, 2}, 605803 (3); Ichthyosis vulgaris, 146700 (3), Autosomal dominant
 {Dyskeratosis congenita, autosomal dominant 2}, 613989 (3), Autosomal recessive, Autosomal dominant;
 Ciliary dyskinesia, primary, 25, 615482 (3), Autosomal recessive; {Dyslexia, susceptibility to, 1}, 127700 (3)
 {Encephalopathy, acute, infection-induced (herpes-specific), susceptibility to, 8}, 617900 (3), Autosomal do
 {Encephalopathy, acute, infection-induced, susceptibility to, 9}, 618426 (3), Autosomal recessive; Leukemi
 Colorectal cancer, hereditary nonpolyposis, type 5, 614350 (3), Autosomal dominant; {Endometrial cancer
 COPD, rate of decline of lung function in, 606963 (3); {Epidermolysis bullosa dystrophica, autosomal reces
 {Epilepsy idiopathic generalized, susceptibility to, 8}, 612899 (3); Hyperparathyroidism, neonatal, 239200 (3)
 {Epilepsy, generalized, with febrile seizures plus, type 5, susceptibility to}, 613060 (3), Autosomal dominan
 Dystonia 9, 601042 (3), Autosomal dominant; {Epilepsy, idiopathic generalized, susceptibility to, 12}, 6148
 {Fibrocalculous pancreatic diabetes, susceptibility to}, 608189 (3), Autosomal recessive, Autosomal domin
 {Gastric cancer risk after H. pylori infection}, 137215 (3), Autosomal dominant; Interleukin 1 receptor antag
 Cowden syndrome 1, 158350 (3), Autosomal dominant; {Glioma susceptibility 2}, 613028 (3); Lhermitte-Du
 {Glioma susceptibility 9}, 616568 (3), Autosomal dominant; {Melanoma, cutaneous malignant, susceptibility
 {H. pylori infection, susceptibility to}, 600263 (3); {Hepatitis B virus infection, susceptibility to}, 610424 (3);
 Basal laminar drusen, 126700 (3), Autosomal dominant; Complement factor H deficiency, 609814 (3), Auto
 Complement factor I deficiency, 610984 (3), Autosomal recessive; {Hemolytic uremic syndrome, atypical, s
 ?Complement factor B deficiency, 615561 (3); {Hemolytic uremic syndrome, atypical, susceptibility to, 4}, 6
 C3 deficiency, 613779 (3), Autosomal recessive; {Hemolytic uremic syndrome, atypical, susceptibility to, 5
 Central hypoventilation syndrome, congenital, 209880 (3), Autosomal dominant; {Hirschsprung disease, pr
 ABCD syndrome, 600501 (3), Autosomal recessive; {Hirschsprung disease, susceptibility to, 2}, 600155 (3)
 Central hypoventilation syndrome, 209880 (3), Autosomal dominant; {Hirschsprung disease, susceptibility
 Central hypoventilation syndrome, congenital, 209880 (3), Autosomal dominant; {Hirschsprung disease, su
 Cerebral amyloid angiopathy, PRNP-related, 137440 (3), Autosomal dominant; Creutzfeldt-Jakob disease,
 Gaucher disease, perinatal lethal, 608013 (3), Autosomal recessive; Gaucher disease, type I, 230800 (3),
 Cerebrooculofacioskeletal syndrome 1, 214150 (3), Autosomal recessive; Cockayne syndrome, type B, 13
 Central core disease, 117000 (3), Autosomal recessive, Autosomal dominant; King-Denborough syndrome
 Melanoma and neural system tumor syndrome, 155755 (3), Autosomal dominant; {Melanoma, cutaneous m
 {Melanoma, cutaneous malignant, 3}, 609048 (3), Autosomal dominant
 COMMAD syndrome, 617306 (3), Autosomal recessive; {Melanoma, cutaneous malignant, susceptibility to

Coffin-Siris syndrome 5, 616938 (3), Autosomal dominant; {Meningioma, familial, susceptibility to}, 607174 (3), Autosomal dominant; {Breast cancer, somatic, 114480 (3); Estrogen resistance, 615363 (3), Autosomal recessive; {Migraine, susceptibility to}, 114500 (3), Autosomal dominant, Somatic mutation; {Multiple myeloma, susceptibility to}, 614810 (3); Periodic fever, familial, 142680 (3), Autosomal dominant; Hepatic venoocclusive disease with immunodeficiency, 235550 (3), Autosomal recessive; {Mycobacterium tuberculosis, susceptibility to}, 614038 (3), Autosomal dominant; Immunodeficiency 21, 614172 (3), Autosomal dominant; Bleeding disorder, platelet-type, 16, autosomal dominant, 187800 (3), Autosomal dominant; Glanzmann thrombasthenia, 16, autosomal dominant, 187800 (3), Autosomal dominant; Caudal regression syndrome, 600145 (3), Autosomal dominant; {Neural tube defects, susceptibility to}, 187800 (3), Autosomal dominant; Central hypoventilation syndrome, congenital, with or without Hirschsprung disease, 209880 (3), Autosomal dominant; Bernard-Soulier syndrome, type A1 (recessive), 231200 (3), Autosomal recessive; Bernard-Soulier syndrome, type B1 (recessive), 231200 (3), Autosomal recessive; ?Deafness, autosomal recessive 97, 616705 (3), Autosomal recessive; Hepatocellular carcinoma, childhood, 616705 (3), Autosomal recessive; Ehlers-Danlos syndrome, arthrochalasia type, 2, 617821 (3), Autosomal dominant; Ehlers-Danlos syndrome, classical type, 2, 617821 (3), Autosomal dominant; Osteolysis, familial expansile, 174810 (3), Autosomal dominant; Osteopetrosis, autosomal recessive 7, 617821 (3), Autosomal dominant; {Pancreatic cancer, susceptibility to, 1}, 606856 (3), Autosomal dominant; {Pancreatitis, chronic, protection against}, 167800 (3), Autosomal dominant; {Pancreatitis, chronic, susceptibility to}, 167800 (3), Autosomal dominant; {Bronchiectasis with or without elevated sweat chloride 1, modifier of}, 211400 (3), Autosomal dominant; {Cystic fibrosis, susceptibility to}, 167870 (3), ?Autosomal dominant; {Schizophrenia, susceptibility to}, 187800 (3), Autosomal dominant; Deafness, autosomal recessive 12, 601386 (3), Autosomal recessive; {Pituitary adenoma 5, multiple types}, 601386 (3), Autosomal recessive; {Alzheimer disease, susceptibility to}, 104300 (3), Autosomal dominant; Hemochromatosis, 235200 (3), Autosomal recessive; Dysprothrombinemia, 613679 (3), Autosomal recessive; Hypoprothrombinemia, 613679 (3), Autosomal recessive; {Pulmonary fibrosis, idiopathic, susceptibility to}, 178500 (3), Autosomal dominant; Coffin-Siris syndrome 3, 614608 (3), Autosomal dominant; {Rhabdoid tumor predisposition syndrome 1}, 614608 (3), Autosomal dominant; Coffin-Siris syndrome 4, 614609 (3), Autosomal dominant; {Rhabdoid tumor predisposition syndrome 2}, 614609 (3), Autosomal dominant; {Sarcoidosis, susceptibility to, 2}, 612387 (3), Autosomal dominant; Phelan-McDermid syndrome, 606232 (3), Autosomal dominant; {Schizophrenia 15}, 613950 (3), Autosomal dominant; Noonan syndrome 10, 616564 (3), Autosomal dominant; Noonan syndrome 2, 605275 (3), Autosomal recessive; Aicardi-Goutieres syndrome 1, dominant and recessive, 225750 (3), Autosomal recessive, Autosomal dominant; Chorea, hereditary benign, 118700 (3), Autosomal dominant; Choreoathetosis, hypothyroidism, and neonatal hypocalcemia, 118700 (3), Autosomal dominant; Bamforth-Lazarus syndrome, 241850 (3), Autosomal recessive; {Thyroid cancer, nonmedullary, 4}, 616535 (3), Autosomal dominant; {?Thyroid cancer, nonmedullary, 5}, 616535 (3), Autosomal dominant; {Venous thromboembolism, susceptibility to}, 300807 (3); Hemophilia B, 306900 (3), X-linked recessive; 3-Methylcrotonyl-CoA carboxylase 2 deficiency, 210210 (3), Autosomal recessive; 3-methylglutaconic aciduria with deafness, encephalopathy, and Leigh-like syndrome, 614739 (3), Autosomal recessive; 3-methylglutaconic aciduria, type VII, with cataracts, neurologic involvement and neutropenia, 616271 (3), Autosomal recessive; 3-methylglutaconic aciduria, type VIII, 617248 (3), Autosomal recessive; {Parkinson disease 13}, 610297 (3), Autosomal dominant; 5-oxoprolinase deficiency, 260005 (3), Autosomal recessive, Autosomal dominant; Achalasia-addisonianism-alacrimia syndrome, 231550 (3), Autosomal recessive; Achondrogenesis Ib, 600972 (3), Autosomal recessive; Atelosteogenesis, type II, 256050 (3), Autosomal recessive; Achondrogenesis, type II or hypochondrogenesis, 200610 (3), Autosomal dominant; Avascular necrosis of femoral head, 200610 (3), Autosomal dominant; Acne inversa, familial, 1, 142690 (3), Autosomal dominant; Acne inversa, familial, 2, with or without Dowling-Degos disease, 613736 (3), Autosomal dominant; Acrodermatitis enteropathica, 201100 (3), Autosomal recessive; Acrodysostosis 1, with or without hormone resistance, 101800 (3), Autosomal dominant; Adrenocortical tumor, 101800 (3), Autosomal dominant; Acrodysostosis 2, with or without hormone resistance, 614613 (3), Autosomal dominant

Adenomas, multiple colorectal, 608456 (3), Autosomal recessive; Colorectal adenomatous polyposis, auto
 Adenoma, periampullary, somatic (3); Adenomatous polyposis coli, 175100 (3), Autosomal dominant; Brain
 Adenosine deaminase deficiency, partial, 102700 (3), Autosomal recessive, Somatic mosaicism; Severe c
 Adenosine triphosphate, elevated, of erythrocytes, 102900 (3), Autosomal dominant; Pyruvate kinase defic
 Adermatoglyphia, 136000 (3), Autosomal dominant; Basan syndrome, 129200 (3), Autosomal dominant; H
 ADULT syndrome, 103285 (3), Autosomal dominant; Ectrodactyly, ectodermal dysplasia, and cleft lip/pala
 Afibrinogenemia, congenital, 202400 (3), Autosomal recessive; Amyloidosis, familial visceral, 105200 (3),
 Afibrinogenemia, congenital, 202400 (3), Autosomal recessive; Dysfibrinogenemia, congenital, 616004 (3)
 Afibrinogenemia, congenital, 202400 (3), Autosomal recessive; Dysfibrinogenemia, congenital, 616004 (3)
 Agammaglobulinemia 1, 601495 (3), Autosomal recessive
 Agammaglobulinemia 2, 613500 (3), Autosomal recessive
 Agammaglobulinemia 3, 613501 (3), Autosomal recessive
 Agammaglobulinemia 6, 612692 (3), Autosomal recessive
 Agammaglobulinemia 8, autosomal dominant, 616941 (3), Autosomal dominant
 Agammaglobulinemia, X-linked 1, 300755 (3), X-linked recessive; Isolated growth hormone deficiency, typ
 Aicardi-Goutieres syndrome 3, 610329 (3), Autosomal recessive
 Aicardi-Goutieres syndrome 4, 610333 (3), Autosomal recessive
 Aicardi-Goutieres syndrome 7, 615846 (3), Autosomal dominant; Singleton-Merten syndrome 1, 182250 (3)
 Alacrima, achalasia, and mental retardation syndrome, 615510 (3), Autosomal recessive
 Alagille syndrome 2, 610205 (3), Autosomal dominant; Hajdu-Cheney syndrome, 102500 (3), Autosomal d
 Alkaptonuria, 203500 (3), Autosomal recessive
 Alpha-methylacyl-CoA racemase deficiency, 614307 (3), Autosomal recessive; Bile acid synthesis defect,
 Alport syndrome 1, X-linked, 301050 (3), X-linked dominant
 Alport syndrome 2, autosomal recessive, 203780 (3), Autosomal recessive; Alport syndrome 3, autosomal
 Alport syndrome 2, autosomal recessive, 203780 (3), Autosomal recessive; Hematuria, familial benign, 14
 Alstrom syndrome, 203800 (3), Autosomal recessive
 Alternating hemiplegia of childhood 2, 614820 (3), Autosomal dominant; CAPOS syndrome, 601338 (3), A
 Amyloidosis, 3 or more types, 105200 (3), Autosomal dominant; ApoA-I and apoC-III deficiency, combined
 Amyloidosis, primary localized cutaneous, 1, 105250 (3), Autosomal dominant
 Amyloidosis, renal, 105200 (3), Autosomal dominant
 Amyotrophic lateral sclerosis 1, 105400 (3), Autosomal recessive, Autosomal dominant; Spastic tetraplegia
 Amyotrophic lateral sclerosis 10, with or without FTD, 612069 (3), Autosomal dominant; Frontotemporal lo
 Amyotrophic lateral sclerosis 15, with or without frontotemporal dementia, 300857 (3), X-linked dominant
 Amyotrophic lateral sclerosis 17, 614696 (3), Autosomal dominant; Dementia, familial, nonspecific, 600795
 Amyotrophic lateral sclerosis 2, juvenile, 205100 (3), Autosomal recessive; Primary lateral sclerosis, juven
 Amyotrophic lateral sclerosis 21, 606070 (3), Autosomal dominant
 Amyotrophic lateral sclerosis 4, juvenile, 602433 (3), Autosomal dominant; Spinocerebellar ataxia, autosom
 Amyotrophic lateral sclerosis 5, juvenile, 602099 (3), Autosomal recessive; Charcot-Marie-Tooth disease,
 Anauxetic dysplasia 1, 607095 (3), Autosomal recessive; Cartilage-hair hypoplasia, 250250 (3), Autosoma
 Anemia, sideroblastic, 3, pyridoxine-refractory, 616860 (3), Autosomal recessive; Spasticity, childhood-on
 Anemia, sideroblastic, 4, 182170 (3), Autosomal dominant; Even-plus syndrome, 616854 (3), Autosomal r
 Anemia, X-linked, with/without neutropenia and/or platelet abnormalities, 300835 (3), X-linked recessive; L
 Angioedema, hereditary, types I and II, 106100 (3), Autosomal recessive, Autosomal dominant; Compleme
 Aromatic L-amino acid decarboxylase deficiency, 608643 (3), Autosomal recessive
 Arrhythmogenic right ventricular dysplasia 8, 607450 (3), Autosomal dominant; Cardiomyopathy, dilated, v

Arterial calcification, generalized, of infancy, 1, 208000 (3), Autosomal recessive; Cole disease, 615522 (3)
 Arterial calcification, generalized, of infancy, 2, 614473 (3), Autosomal recessive; Pseudoxanthoma elasticum
 Arthrogryposis, renal dysfunction, and cholestasis 1, 208085 (3), Autosomal recessive
 Arthrogryposis, renal dysfunction, and cholestasis 2, 613404 (3), Autosomal recessive
 Arts syndrome, 301835 (3), X-linked recessive; Charcot-Marie-Tooth disease, X-linked recessive, 5, 311070
 Aspartylglucosaminuria, 208400 (3), Autosomal recessive
 Asplenia, isolated congenital, 271400 (3), Autosomal dominant
 Ataxia-pancytopenia syndrome, 159550 (3), Autosomal dominant
 Ataxia, posterior column, with retinitis pigmentosa, 609033 (3), Autosomal recessive
 Atransferrinemia, 209300 (3), Autosomal recessive
 Auriculocondylar syndrome 1, 602483 (3), Autosomal dominant
 Autoimmune disease, multisystem, infantile-onset, 1, 615952 (3), Autosomal dominant; Hyper-IgE recurrent
 Autoimmune disease, multisystem, infantile-onset, 2, 617006 (3), Autosomal recessive; Immunodeficiency
 Autoimmune disease, multisystem, with facial dysmorphism, 613385 (3), Autosomal recessive
 Autoimmune lymphoproliferative syndrome, type IB, 601859 (3), Autosomal dominant; {Lung cancer, suscep
 Autoimmune lymphoproliferative syndrome, type II, 603909 (3), Autosomal dominant; Gastric cancer, som
 Autoimmune lymphoproliferative syndrome, type III, 615559 (3), Autosomal recessive
 Autoimmune lymphoproliferative syndrome, type V, 616100 (3), Autosomal dominant; {Celiac disease, suscep
 Autoimmune polyendocrinopathy syndrome , type I, with or without reversible metaphyseal dysplasia, 240300
 Autoinflammation with arthritis and dyskeratosis, 617388 (3), Autosomal recessive, Autosomal dominant; P
 Autoinflammation, antibody deficiency, and immune dysregulation syndrome, 614878 (3), Autosomal domi
 Autoinflammation, panniculitis, and dermatosis syndrome, 617099 (3), Autosomal recessive
 B-cell expansion with NFkB and T-cell anergy, 616452 (3), Autosomal dominant; Immunodeficiency 11A, 6
 Bare lymphocyte syndrome, type I, 604571 (3), Autosomal recessive
 Bare lymphocyte syndrome, type I, 604571 (3), Autosomal recessive
 Bare lymphocyte syndrome, type I, due to TAP2 deficiency, 604571 (3), Autosomal recessive
 Bare lymphocyte syndrome, type II, complementation group C, 209920 (3), Autosomal recessive; Bare lym
 Bare lymphocyte syndrome, type II, complementation group D, 209920 (3), Autosomal recessive
 Bart-Pumphrey syndrome, 149200 (3), Autosomal dominant; Deafness, autosomal dominant 3A, 601544 (3)
 Barth syndrome, 302060 (3), X-linked recessive
 Basal ganglia calcification, idiopathic, 4, 615007 (3), Autosomal dominant; Kosaki overgrowth syndrome, 6
 Beaulieu-Boycott-Innes syndrome, 613680 (3), Autosomal recessive
 Bernard-Soulier syndrome, type B, 231200 (3), Autosomal recessive; Giant platelet disorder, isolated, 231
 Bethlehem myopathy 1, 158810 (3), Autosomal recessive, Autosomal dominant; Ullrich congenital muscular
 Bethlehem myopathy 1, 158810 (3), Autosomal recessive, Autosomal dominant; Dystonia 27, 616411 (3), Au
 Bile acid synthesis defect, congenital, 1, 607765 (3), Autosomal recessive
 Bile acid synthesis defect, congenital, 2, 235555 (3), Autosomal recessive
 Bile acid synthesis defect, congenital, 3, 613812 (3), Autosomal recessive; Spastic paraplegia 5A, autosom
 Biotinidase deficiency, 253260 (3), Autosomal recessive
 Birt-Hogg-Dube syndrome, 135150 (3), Autosomal dominant; Colorectal cancer, somatic, 114500 (3); Pne
 Bjornstad syndrome, 262000 (3), Autosomal recessive; GRACILE syndrome, 603358 (3), Autosomal rece
 Blau syndrome, 186580 (3), Autosomal dominant; {Inflammatory bowel disease 1, Crohn disease}, 266600
 Bleeding disorder, platelet-type, 16, autosomal dominant, 187800 (3), Autosomal dominant; Glanzmann th
 Bleeding disorder, platelet-type, 17, 187900 (3), Autosomal recessive, Autosomal dominant
 Bleeding disorder, platelet-type, 21, 617443 (3), Autosomal recessive, Autosomal dominant

Blepharocheilodontic syndrome 1, 119580 (3), Autosomal dominant; {Breast cancer, lobular}, 114480 (3),
 Bloom syndrome, 210900 (3), Autosomal recessive
 Bohring-Opitz syndrome, 605039 (3), Autosomal dominant; Myelodysplastic syndrome, somatic, 614286 (3)
 Bone marrow failure syndrome 2, 615715 (3), Autosomal recessive
 Bone marrow failure syndrome 3, 617052 (3), Autosomal recessive
 Brachydactyly, type B1, 113000 (3), Autosomal dominant; Robinow syndrome, autosomal recessive, 2683
 Brachyolmia 4 with mild epiphyseal and metaphyseal changes, 612847 (3), Autosomal recessive
 Branchiooculofacial syndrome, 113620 (3), Autosomal dominant
 Bronchiectasis with or without elevated sweat chloride 1, 211400 (3), Autosomal dominant; Liddle syndrome
 Bronchiectasis with or without elevated sweat chloride 3, 613071 (3), Autosomal dominant; Liddle syndrome
 Brown-Vialetto-Van Laere syndrome 2, 614707 (3), Autosomal recessive
 Brugada syndrome 9, 616399 (3), Autosomal dominant; Spinocerebellar ataxia 19, 607346 (3), Autosomal
 C syndrome, 211750 (3), Autosomal dominant
 C1q deficiency, 613652 (3), Autosomal recessive
 C1q deficiency, 613652 (3), Autosomal recessive
 C1q deficiency, 613652 (3), Autosomal recessive
 C2 deficiency, 217000 (3), Autosomal recessive; {Macular degeneration, age-related, 14, reduced risk of},
 [Blood group, Rodgers], 614374 (3); C4a deficiency, 614380 (3), Autosomal recessive
 C5 deficiency, 609536 (3); [Eculizumab, poor response to], 615749 (3), Autosomal dominant
 C6 deficiency, 612446 (3); Combined C6/C7 deficiency (3)
 C7 deficiency, 610102 (3)
 C8 deficiency, type I, 613790 (3), Autosomal recessive
 C8 deficiency, type II, 613789 (3), Autosomal recessive
 C9 deficiency, 613825 (3); {Macular degeneration, age-related, 15, susceptibility to}, 615591 (3)
 {Bone mineral density variation QTL, osteoporosis}, 166710 (3), Autosomal dominant; Caffey disease, 114
 Camptodactyly-arthropathy-coxa vara-pericarditis syndrome, 208250 (3), Autosomal recessive
 Canavan disease, 271900 (3), Autosomal recessive
 Candidiasis, familial, 2, autosomal recessive, 212050 (3), Autosomal recessive
 Candidiasis, familial, 9, 616445 (3), Autosomal recessive
 CAP myopathy 1, 609284 (3), Autosomal recessive, Autosomal dominant; Myopathy, congenital, with fiber
 Arthrogryposis, distal, type 1A, 108120 (3), Autosomal dominant; Arthrogryposis, distal, type 2B4, 108120
 Arteriovenous malformation of the brain, somatic, 108010 (3); Bladder cancer, somatic, 109800 (3); Breas
 Cardiofaciocutaneous syndrome 4, 615280 (3)
 Adenocarcinoma of lung, somatic, 211980 (3); Cardiofaciocutaneous syndrome, 115150 (3), Autosomal do
 Cardiospondylocarpofacial syndrome, 157800 (3), Autosomal dominant; Frontometaphyseal dysplasia 2, 6
 Carey-Fineman-Ziter syndrome, 254940 (3), Autosomal recessive
 Carpenter syndrome, 201000 (3), Autosomal recessive
 Catel-Manzke syndrome, 616145 (3), Autosomal recessive
 CD8 deficiency, familial, 608957 (3), Autosomal recessive
 Central hypoventilation syndrome, congenital, 209880 (3), Autosomal dominant; Haddad syndrome, 20988
 Centronuclear myopathy 6 with fiber-type disproportion, 617760 (3), Autosomal recessive; Split-foot malfor
 Cerebral creatine deficiency syndrome 1, 300352 (3), X-linked recessive
 Cerebral palsy, spastic quadriplegic, 3, 617008 (3), Autosomal recessive
 Cerebrocostomandibular syndrome, 117650 (3), Autosomal dominant
 Cerebrooculofacioskeletal syndrome 3, 616570 (3), Autosomal recessive; Xeroderma pigmentosum, group

Cerebrooculofacioskeletal syndrome 4, 610758 (3), Autosomal recessive
 Cerebroretinal microangiopathy with calcifications and cysts 2, 617341 (3), Autosomal recessive
 Cerebroretinal microangiopathy with calcifications and cysts, 612199 (3), Autosomal recessive
 Cerebrotendinous xanthomatosis, 213700 (3), Autosomal recessive
 Ceroid lipofuscinosis, neuronal, 3, 204200 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, axonal, type 2EE, 618400 (3), Autosomal recessive; Mitochondrial DNA depletion syndrome 10, 618400 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, dominant intermediate D, 607791 (3), Autosomal dominant; Charcot-Marie-Tooth disease, type 1A, 607791 (3), Autosomal dominant
 Charcot-Marie-Tooth disease, type 2B, 600882 (3), Autosomal dominant
 Cardiomyopathy, dilated, 1A, 115200 (3), Autosomal dominant; Charcot-Marie-Tooth disease, type 2B1, 600882 (3), Autosomal dominant
 CHARGE syndrome, 214800 (3), Autosomal dominant; Hypogonadotropic hypogonadism 5 with or without anosmia, 214800 (3), Autosomal dominant
 Chediak-Higashi syndrome, 214500 (3), Autosomal recessive
 CHIME syndrome, 280000 (3), Autosomal recessive
 Chitayat syndrome, 617180 (3), Autosomal dominant; Craniosynostosis 4, 600775 (3), Autosomal dominant
 Cholestasis, benign recurrent intrahepatic, 2, 605479 (3), Autosomal recessive; Cholestasis, progressive familial intrahepatic, 2, 605479 (3), Autosomal recessive
 Cholestasis, benign recurrent intrahepatic, 243300 (3), Autosomal recessive; Cholestasis, intrahepatic, of childhood, 243300 (3), Autosomal recessive
 Cholestasis, intrahepatic, of pregnancy, 3, 614972 (3), Autosomal recessive, Autosomal dominant; Cholestasis, intrahepatic, of pregnancy, 3, 614972 (3), Autosomal recessive, Autosomal dominant
 Cholesteryl ester storage disease, 278000 (3), Autosomal recessive; Wolman disease, 278000 (3), Autosomal recessive
 Chondrodysplasia punctata, X-linked dominant, 302960 (3), X-linked dominant; MEND syndrome, 300960 (3), X-linked dominant
 CHOPS syndrome, 616368 (3), Autosomal dominant
 Choreoacanthocytosis, 200150 (3), Autosomal recessive
 Chronic granulomatous disease due to deficiency of NCF-1, 233700 (3), Autosomal recessive
 Chronic granulomatous disease due to deficiency of NCF-2, 233710 (3), Autosomal recessive
 Chronic granulomatous disease, autosomal, due to deficiency of CYBA, 233690 (3), Autosomal recessive
 Chronic granulomatous disease, X-linked, 306400 (3), X-linked recessive; Immunodeficiency 34, mycobacterial susceptibility, 306400 (3), X-linked recessive
 CINCA syndrome, 607115 (3), Autosomal dominant; Deafness, autosomal dominant 34, with or without intellectual disability, 607115 (3), Autosomal dominant
 Citrullinemia, adult-onset type II, 603471 (3), Autosomal recessive; Citrullinemia, type II, neonatal-onset, 603471 (3), Autosomal recessive
 Cleft lip/palate-ectodermal dysplasia syndrome, 225060 (3), Autosomal recessive; Orofacial cleft 7, 225060 (3), Autosomal recessive
 Cleft palate, cardiac defects, and mental retardation, 600987 (3), Autosomal dominant
 Cleidocranial dysplasia, 119600 (3), Autosomal dominant; Cleidocranial dysplasia, forme fruste, dental anomalies, 119600 (3), Autosomal dominant
 COACH syndrome, 216360 (3), Autosomal recessive; Joubert syndrome 9, 612285 (3), Autosomal recessive
 COACH syndrome, 216360 (3), Autosomal recessive; Joubert syndrome 7, 611560 (3), Autosomal recessive
 Cockayne syndrome, type A, 216400 (3), Autosomal recessive; UV-sensitive syndrome 2, 614621 (3), Autosomal recessive
 Coenzyme Q10 deficiency, primary, 7, 616276 (3), Autosomal recessive
 Coffin-Siris syndrome 1, 135900 (3), Autosomal dominant
 Coffin-Siris syndrome 2, 614607 (3), Autosomal dominant
 Coffin-Siris syndrome 6, 617808 (3), Autosomal dominant
 Coffin-Siris syndrome 9, 615866 (3), Autosomal dominant
 Cohen syndrome, 216550 (3), Autosomal recessive
 Cold-induced sweating syndrome 1, 272430 (3), Autosomal recessive
 Cold-induced sweating syndrome 3, 617055 (3), Autosomal recessive; Retinitis pigmentosa 42, 612943 (3), Autosomal recessive
 Colorectal cancer, hereditary nonpolyposis, type 1, 120435 (3), Autosomal dominant; Mismatch repair cancer 1, 120435 (3), Autosomal dominant
 Colorectal cancer, somatic, 114500 (3); T-cell acute lymphoblastic leukemia, somatic, 613065 (3)
 Colorectal cancer, somatic, 114500 (3); Mosaic variegated aneuploidy syndrome 1, 257300 (3), Autosomal dominant
 Colorectal cancer, somatic, 114500 (3); Exudative vitreoretinopathy 7, 617572 (3), Autosomal dominant; Hirschsprung disease 1, 617572 (3), Autosomal dominant
 Colorectal cancer, somatic, 114500 (3)

Alpha/beta T-cell lymphopenia with gamma/delta T-cell expansion, severe cytomegalovirus infection, and
 Combined cellular and humoral immune defects with granulomas, 233650 (3), Autosomal recessive; Omer
 Combined hyperlipidemia, familial, 144250 (3), Autosomal dominant; [High density lipoprotein cholesterol l
 Combined immunodeficiency, X-linked, moderate, 312863 (3), X-linked recessive; Severe combined immu
 Combined oxidative phosphorylation deficiency 30, 616974 (3), Autosomal recessive
 NA
 Combined SAP deficiency, 611721 (3), Autosomal recessive; Gaucher disease, atypical, 610539 (3); Krab
 Complement factor D deficiency, 613912 (3), Autosomal recessive
 Congenital contractures of the limbs and face, hypotonia, and developmental delay, 616266 (3), Autosoma
 Congenital disorder of glycosylation, type Ia, 212065 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Icc, 301031 (3), X-linked recessive; Immunodeficiency, X-linked,
 Congenital disorder of glycosylation, type Ie, 608799 (3), Autosomal recessive
 Congenital disorder of glycosylation, type If, 609180 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Ig, 607143 (3), Autosomal recessive
 Congenital disorder of glycosylation, type IIb, 606056 (3), Autosomal recessive
 Congenital disorder of glycosylation, type IIc, 266265 (3), Autosomal recessive
 Congenital disorder of glycosylation, type IId, 608779 (3), Autosomal recessive
 Congenital disorder of glycosylation, type IIe, 603585 (3), Autosomal recessive
 Congenital disorder of glycosylation, type IIj, 613489 (3), Autosomal recessive; Saul-Wilson syndrome, 61
 Congenital disorder of glycosylation, type IIk, 300896 (3), X-linked dominant, Somatic mosaicism
 Congenital disorder of glycosylation, type IIm, 616828 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Iln, 608540 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Io, 608776 (3), Autosomal recessive; Gillesen-Kaesbach-Nishim
 Congenital disorder of glycosylation, type Ip, 610768 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Iq, 612379 (3), Autosomal recessive; Kahrizi syndrome, 612713
 Congenital disorder of glycosylation, type Ir, 300934 (3), X-linked recessive
 Congenital heart defects and skeletal malformations syndrome, 617602 (3), Autosomal dominant; Leukem
 Bladder cancer, somatic, 109800 (3); Congenital myopathy with excess of muscle spindles, 218040 (3), A
 Congenital short bowel syndrome, 615237 (3), Autosomal recessive
 Coproporphyrria, 121300 (3), Autosomal dominant; Harderoporphyria, 121300 (3), Autosomal dominant
 Corneal dystrophy, Fuchs endothelial, 3, 613267 (3), Autosomal dominant; Pitt-Hopkins syndrome, 61095
 Corneal dystrophy, Fuchs endothelial, 4, 613268 (3); Corneal endothelial dystrophy and perceptive deafne
 Cornelia de Lange syndrome 1, 122470 (3), Autosomal dominant
 Cornelia de Lange syndrome 2, 300590 (3), X-linked dominant
 Cornelia de Lange syndrome 3, 610759 (3), Autosomal dominant
 Cornelia de Lange syndrome 5, 300882 (3), X-linked dominant
 Cortisone reductase deficiency 1, 604931 (3), Autosomal recessive
 Cranioosteoarthropathy, 259100 (3), Autosomal recessive; Digital clubbing, isolated congenital, 119900 (3)
 [Blood group, Diego], 110500 (3); [Blood group, Froese], 601551 (3); [Blood group, Swann], 601550 (3); [E
 Cryptophthalmos, unilateral or bilateral, isolated, 123570 (3), Autosomal recessive; Fraser syndrome 2, 61
 Currarino syndrome, 176450 (3), Autosomal dominant
 Cutis laxa, autosomal dominant 3, 616603 (3), Autosomal dominant; Cutis laxa, autosomal recessive, type
 Cutis laxa, autosomal dominant, 123700 (3), Autosomal dominant; Supravalvar aortic stenosis, 185500 (3)
 Cutis laxa, autosomal recessive, type IB, 614437 (3), Autosomal recessive
 Cutis laxa, autosomal recessive, type IC, 613177 (3), Autosomal recessive

Cutis laxa, autosomal recessive, type IIA, 219200 (3), Autosomal recessive; Wrinkly skin syndrome, 278250 (3), Autosomal recessive
 Cutis laxa, autosomal recessive, type IIB, 612940 (3), Autosomal recessive; Cutis laxa, autosomal recessive, type IIC, 612941 (3), Autosomal recessive
 Cystinosis, atypical nephropathic, 219800 (3), Autosomal recessive; Cystinosis, late-onset juvenile or adult, 219801 (3), Autosomal recessive
 Cystinuria, 220100 (3), Autosomal recessive, Autosomal dominant
 Cystinuria, 220100 (3), Autosomal recessive, Autosomal dominant
 Dehydrated hereditary stomatocytosis 2, 616689 (3), Autosomal dominant
 Dehydrated hereditary stomatocytosis with or without pseudohyperkalemia and/or perinatal edema, 194380 (3), Autosomal dominant
 Dementia, frontotemporal, with or without parkinsonism, 600274 (3), Autosomal dominant; {Parkinson disease 1, 168601 (3), Autosomal dominant
 Dementia, Lewy body, 127750 (3), Autosomal dominant; Parkinson disease 1, 168601 (3), Autosomal dominant
 Dermatopathia pigmentosa reticularis, 125595 (3), Autosomal dominant; Epidermolysis bullosa simplex, Dowling-Mearns type, 226700 (3), Autosomal dominant
 Diamond-Blackfan anemia 1, 105650 (3), Autosomal dominant
 Diamond-Blackfan anemia 4, 612527 (3), Autosomal dominant
 Diamond-Blackfan anemia 5, 612528 (3), Autosomal dominant
 Diamond-Blackfan anemia 7, 612562 (3), Autosomal dominant
 Diamond-Blackfan anemia 8, 612563 (3), Autosomal dominant
 Colorectal cancer, hereditary nonpolyposis, type 8, 613244 (3); Diarrhea 5, with tufting enteropathy, congenital, 614615 (3), Autosomal dominant
 Diarrhea 6, 614616 (3), Autosomal dominant; Meconium ileus, 614665 (3), Autosomal recessive
 Dowling-Degos disease 1, 179850 (3), Autosomal dominant; Epidermolysis bullosa simplex, Dowling-Mearns type, 226700 (3), Autosomal dominant
 Duane-radial ray syndrome, 607323 (3), Autosomal dominant; IVIC syndrome, 147750 (3), Autosomal dominant
 Dursun syndrome, 612541 (3), Autosomal recessive; Neutropenia, severe congenital 4, autosomal recessive
 Dysautonomia, familial, 223900 (3), Autosomal recessive
 Dyserythropoietic anemia, congenital, type Ia, 224120 (3), Autosomal recessive
 NA
 Blood group--Lutheran inhibitor, 111150 (3); Dyserythropoietic anemia, congenital, type IV, 613673 (3), Autosomal recessive
 Dyskeratosis congenita, autosomal dominant 3, 613990 (3), Autosomal dominant; Revesz syndrome, 268300 (3), Autosomal dominant
 Dyskeratosis congenita, autosomal dominant 4, 615190 (3), Autosomal recessive, Autosomal dominant; Dyskeratosis congenita, autosomal dominant 5, 615191 (3), Autosomal dominant
 Dyskeratosis congenita, autosomal recessive 1, 224230 (3), Autosomal recessive
 Dyskeratosis congenita, autosomal recessive 2, 613987 (3), Autosomal recessive
 Dyskeratosis congenita, autosomal recessive 3, 613988 (3), Autosomal recessive
 Dyskeratosis congenita, autosomal recessive 6, 616353 (3), Autosomal recessive; Pulmonary fibrosis and dyskeratosis congenita, 226660 (3), Autosomal recessive
 Dyskeratosis congenita, X-linked, 305000 (3), X-linked recessive
 Dysplasminogenemia, 217090 (3), Autosomal recessive; Plasminogen deficiency, type I, 217090 (3), Autosomal recessive
 Dystonia 16, 612067 (3), Autosomal recessive
 Dystonia 2, torsion, autosomal recessive, 224500 (3), Autosomal recessive
 Dystonia, childhood-onset, with optic atrophy and basal ganglia abnormalities, 617282 (3), Autosomal recessive
 Dystonia, DOPA-responsive, with or without hyperphenylalaninemia, 128230 (3), Autosomal recessive, Autosomal dominant
 EBD inversa, 226600 (3), Autosomal recessive; EBD, Bart type, 132000 (3), Autosomal dominant; EBD, long, 226601 (3), Autosomal dominant
 Ectodermal dysplasia 1, hypohidrotic, X-linked, 305100 (3), X-linked recessive; Tooth agenesis, selective, 226602 (3), Autosomal dominant
 Ectodermal dysplasia 11A, hypohidrotic/hair/tooth type, autosomal dominant, 614940 (3), Autosomal dominant
 Deafness, autosomal dominant 3B, 612643 (3), Autosomal dominant; Deafness, autosomal recessive 1B, 226603 (3), Autosomal recessive
 Ectodermal dysplasia and immunodeficiency 2, 612132 (3), Autosomal dominant
 Ectodermal dysplasia/skin fragility syndrome, 604536 (3)
 Ehlers-Danlos syndrome, classic type, 1, 130000 (3), Autosomal dominant
 Ehlers-Danlos syndrome, classic type, 2, 130010 (3), Autosomal dominant
 Ehlers-Danlos syndrome, classic-like, 1, 606408 (3), Autosomal recessive; Vesicoureteral reflux 8, 615963 (3), Autosomal recessive

Ehlers-Danlos syndrome, dermatosparaxis type, 225410 (3), Autosomal recessive
 Ehlers-Danlos syndrome, kyphoscoliotic type, 1, 225400 (3), Autosomal recessive
 Ehlers-Danlos syndrome, musculocontractural type 1, 601776 (3), Autosomal recessive
 Ehlers-Danlos syndrome, periodontal type, 1, 130080 (3), Autosomal dominant
 C1s deficiency, 613783 (3); Ehlers-Danlos syndrome, periodontal type, 2, 617174 (3), Autosomal dominant
 Ehlers-Danlos syndrome, vascular type, 130050 (3), Autosomal dominant; Polymicrogyria with or without v
 Emphysema due to AAT deficiency, 613490 (3), Autosomal recessive; Emphysema-cirrhosis, due to AAT
 Encephalopathy due to defective mitochondrial and peroxisomal fission 2, 617086 (3), Autosomal recessive
 Encephalopathy, progressive, with amyotrophy and optic atrophy, 617207 (3), Autosomal recessive; Hypo
 Encephalopathy, progressive, with or without lipodystrophy, 615924 (3), Autosomal recessive; Lipodystrop
 Epidermodysplasia verruciformis 2, 618231 (3)
 Epidermodysplasia verruciformis, 226400 (3), Autosomal recessive
 Epidermolysis bullosa of hands and feet, 131800 (3), Autosomal dominant; Epidermolysis bullosa, junction
 Epidermolysis bullosa, junctional, with pyloric stenosis, 226730 (3), Autosomal recessive
 Epidermolytic hyperkeratosis, 113800 (3), Autosomal recessive, Autosomal dominant; Ichthyosis histrix, C
 Epidermolytic hyperkeratosis, 113800 (3), Autosomal recessive, Autosomal dominant; Ichthyosis with conf
 {Dravet syndrome, modifier of}, 607208 (3), Autosomal dominant; Epilepsy, generalized, with febrile seizur
 Epilepsy, progressive myoclonic 4, with or without renal failure, 254900 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 1, 308350 (3), X-linked recessive; Hydranencephaly with abnorm
 Epileptic encephalopathy, early infantile, 2, 300672 (3), X-linked dominant
 Epileptic encephalopathy, early infantile, 3, 609304 (3), Autosomal recessive
 Epileptic encephalopathy, early infantile, 30, 616341 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 4, 612164 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 42, 617106 (3), Autosomal dominant; Episodic ataxia, type 2, 108
 Epileptic encephalopathy, early infantile, 46, 617162 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 59, 617904 (3), Autosomal dominant; Neurodevelopmental disor
 Epileptic encephalopathy, early infantile, 63, 617976 (3), Autosomal recessive
 Erythrocytosis, familial, 8, 222800 (3), Autosomal recessive
 Erythroderma, congenital, with palmoplantar keratoderma, hypotrichosis, and hyper IgE, 615508 (3), Auto
 Deafness, autosomal dominant 2B, 612644 (3), Autosomal dominant; Deafness, autosomal dominant, with
 Erythrokeratoderma variabilis et progressiva 2, 617524 (3), Autosomal dominant
 Atrioventricular septal defect 3, 600309 (3), Autosomal dominant; Craniometaphyseal dysplasia, autosoma
 Erythrokeratoderma variabilis et progressiva 4, 617526 (3), Autosomal recessive
 Exocrine pancreatic insufficiency, dyserythropoietic anemia, and calvarial hyperostosis, 612714 (3), Autos
 Exostoses, multiple, type 2, 133701 (3), Autosomal dominant; Seizures, scoliosis, and macrocephaly synd
 Factor VII deficiency, 227500 (3), Autosomal recessive; {Myocardial infarction, decreased susceptibility to}
 Familial cold autoinflammatory syndrome 2, 611762 (3), Autosomal dominant
 Familial Mediterranean fever, AD, 134610 (3), Autosomal dominant; Familial Mediterranean fever, AR, 249
 Fanconi anemia, complementation group A, 227650 (3), Autosomal recessive
 Fanconi anemia, complementation group B, 300514 (3), X-linked recessive
 Fanconi anemia, complementation group C, 227645 (3), Autosomal recessive
 Fanconi anemia, complementation group D2, 227646 (3), Autosomal recessive
 Fanconi anemia, complementation group E, 600901 (3), Autosomal recessive
 Fanconi anemia, complementation group I, 609053 (3), Autosomal recessive
 Fanconi anemia, complementation group L, 614083 (3), Autosomal recessive

Fanconi anemia, complementation group P, 613951 (3), Autosomal recessive
 Fanconi anemia, complementation group Q, 615272 (3), Autosomal recessive; XFE progeroid syndrome, 615272 (3), Autosomal recessive
 Fanconi anemia, complementation group T, 616435 (3), Autosomal recessive
 Farber lipogranulomatosis, 228000 (3), Autosomal recessive; Spinal muscular atrophy with progressive myofascial degeneration, 228000 (3), Autosomal recessive
 Feingold syndrome 1, 164280 (3), Autosomal dominant
 Deafness, autosomal dominant 13, 601868 (3), Autosomal dominant; Deafness, autosomal recessive 53, 601868 (3), Autosomal recessive
 Floating-Harbor syndrome, 136140 (3), Autosomal dominant
 Focal facial dermal dysplasia 4, 614974 (3), Autosomal recessive
 Folate malabsorption, hereditary, 229050 (3), Autosomal recessive
 Fragile X syndrome, 300624 (3), X-linked dominant; Fragile X tremor/ataxia syndrome, 300623 (3), X-linked dominant
 Frank-ter Haar syndrome, 249420 (3), Autosomal recessive
 Fraser syndrome 1, 219000 (3), Autosomal recessive
 Fraser syndrome 3, 617667 (3), Autosomal recessive
 Frontotemporal dementia and/or amyotrophic lateral sclerosis 3, 616437 (3), Autosomal dominant; Myopathies, 616437 (3), Autosomal dominant
 Fructose intolerance, hereditary, 229600 (3), Autosomal recessive
 Fucosidosis, 230000 (3), Autosomal recessive
 Galactose epimerase deficiency, 230350 (3), Autosomal recessive
 Galloway-Mowat syndrome 7, 618348 (3), Autosomal recessive; Nephrotic syndrome, type 11, 616730 (3), Autosomal recessive
 Gastrointestinal defects and immunodeficiency syndrome, 243150 (3), Autosomal recessive
 Gastrointestinal stromal tumor, 606764 (3), Autosomal dominant, Isolated cases; Paraganglioma and gastrointestinal stromal tumor, 606764 (3), Autosomal dominant, Isolated cases; Paraganglioma and gastrointestinal stromal tumor, 606764 (3), Autosomal dominant, Isolated cases; Paraganglioma and gastrointestinal stromal tumor, 606764 (3), Autosomal dominant, Isolated cases; Germ cell tumors, 606764 (3), Autosomal dominant, Isolated cases
 Genitopatellar syndrome, 606170 (3), Autosomal dominant; SBBYSS syndrome, 603736 (3), Autosomal dominant
 Geroderma osteodysplasticum, 231070 (3), Autosomal recessive
 Glaucoma 3, primary congenital, E, 617272 (3), Autosomal dominant; Venous malformations, multiple cutaneous, 617272 (3), Autosomal dominant
 Glucocorticoid deficiency, due to ACTH unresponsiveness, 202200 (3), Autosomal recessive
 Glucocorticoid resistance, 615962 (3), Autosomal dominant
 Glutamate formiminotransferase deficiency, 229100 (3), Autosomal recessive
 Glutamine deficiency, congenital, 610015 (3), Autosomal recessive
 Glutathione synthetase deficiency, 266130 (3), Autosomal recessive; Hemolytic anemia due to glutathione synthetase deficiency, 266130 (3), Autosomal recessive
 Glycine encephalopathy with normal serum glycine, 617301 (3), Autosomal recessive
 Glycogen storage disease Ia, 232200 (3), Autosomal recessive
 Glycogen storage disease Ib, 232220 (3), Autosomal recessive; Glycogen storage disease Ic, 232240 (3), Autosomal recessive
 Glycogen storage disease II, 232300 (3), Autosomal recessive
 Glycogen storage disease IIIa, 232400 (3), Autosomal recessive; Glycogen storage disease IIIb, 232400 (3), Autosomal recessive
 Glycogen storage disease IV, 232500 (3), Autosomal recessive; Polyglucosan body disease, adult form, 232500 (3), Autosomal recessive
 Cirrhosis due to liver phosphorylase kinase deficiency (3); Glycogen storage disease IXc, 613027 (3), Autosomal recessive
 Glycogen storage disease XII, 611881 (3), Autosomal recessive
 Glycosylphosphatidylinositol deficiency, 610293 (3), Autosomal recessive
 GM1-gangliosidosis, type I, 230500 (3), Autosomal recessive; GM1-gangliosidosis, type II, 230600 (3), Autosomal recessive
 Gnathodiaphyseal dysplasia, 166260 (3), Autosomal dominant; Miyoshi muscular dystrophy 3, 613319 (3), Autosomal dominant
 Gracile bone dysplasia, 602361 (3), Autosomal dominant; Kenny-Caffey syndrome, type 2, 127000 (3), Autosomal dominant
 Gray platelet syndrome, 139090 (3), Autosomal recessive
 Greig cephalopolysyndactyly syndrome, 175700 (3), Autosomal dominant; {Hypothalamic hamartomas, so
 Griscelli syndrome, type 2, 607624 (3), Autosomal recessive

Haim-Munk syndrome, 245010 (3), Autosomal recessive; Papillon-Lefevre syndrome, 245000 (3), Autosomal recessive; HARP syndrome, 607236 (3), Autosomal recessive; Neurodegeneration with brain iron accumulation 1, 235270 (3), Autosomal recessive; Hartnup disorder, 234500 (3), Autosomal recessive; Hyperglycinuria, 138500 (3), Autosomal dominant; Imbricaria, 234500 (3), Autosomal dominant; Heart and brain malformation syndrome, 616920 (3), Autosomal recessive
 Helsmoortel-van der Aa syndrome, 615873 (3), Autosomal dominant
 Hemochromatosis, type 2A, 602390 (3), Autosomal recessive
 Hemochromatosis, type 2B, 613313 (3), Autosomal recessive
 Hemochromatosis, type 3, 604250 (3), Autosomal recessive
 Hemolytic anemia due to hexokinase deficiency, 235700 (3), Autosomal recessive; Neurodevelopmental disorder with autistic features, 615512 (3), Autosomal recessive
 Hemolytic anemia due to triosephosphate isomerase deficiency, 615512 (3), Autosomal recessive
 Hemolytic anemia, nonspherocytic, due to glucose phosphate isomerase deficiency, 613470 (3), Autosomal recessive
 Aplastic anemia, 609135 (3); Hemophagocytic lymphohistiocytosis, familial, 2, 603553 (3), Autosomal recessive
 Hemophagocytic lymphohistiocytosis, familial, 3, 608898 (3)
 Hemophagocytic lymphohistiocytosis, familial, 5, 613101 (3)
 Hennekam lymphangiectasia-lymphedema syndrome 1, 235510 (3), Autosomal recessive
 Hennekam lymphangiectasia-lymphedema syndrome 2, 616006 (3), Autosomal recessive; Van Maldergen syndrome, 616006 (3), Autosomal recessive
 Hennekam lymphangiectasia-lymphedema syndrome 3, 618154 (3), Autosomal recessive
 Hermansky-Pudlak syndrome 1, 203300 (3), Autosomal recessive
 Hermansky-Pudlak syndrome 2, 608233 (3), Autosomal recessive
 Histiocytosis-lymphadenopathy plus syndrome, 602782 (3), Autosomal recessive
 Holocarboxylase synthetase deficiency, 253270 (3), Autosomal recessive
 Holoprosencephaly 11, 614226 (3), Autosomal dominant
 Homocystinuria, B6-responsive and nonresponsive types, 236200 (3), Autosomal recessive; Thrombosis, congenital, 236200 (3), Autosomal recessive
 HPRT-related gout, 300323 (3), X-linked recessive; Lesch-Nyhan syndrome, 300322 (3), X-linked recessive
 Hyaline fibromatosis syndrome, 228600 (3), Autosomal recessive
 Hydrolethalus syndrome, 236680 (3), Autosomal recessive
 Hyper-IgD syndrome, 260920 (3), Autosomal recessive; Mevalonic aciduria, 610377 (3), Autosomal recessive
 Hyper-IgE recurrent infection syndrome, autosomal recessive, 243700 (3), Autosomal recessive
 Hyperekplexia 1, 149400 (3), Autosomal recessive, Autosomal dominant
 Hyperekplexia 2, 614619 (3), Autosomal recessive
 Hyperekplexia 3, 614618 (3), Autosomal recessive, Autosomal dominant
 Gastrointestinal stromal tumor/GIST-plus syndrome, somatic or familial, 175510 (3); Hypereosinophilic syndrome, 175510 (3), Autosomal dominant
 Hyperferritinemia-cataract syndrome, 600886 (3), Autosomal dominant; L-ferritin deficiency, dominant and recessive, 600886 (3), Autosomal dominant
 Diabetes mellitus, noninsulin-dependent, 125853 (3), Autosomal dominant; Diabetes mellitus, permanent neonatal, 125853 (3), Autosomal dominant
 Diabetes mellitus, transient neonatal, 3, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 1, 610582 (3), Autosomal dominant
 Diabetes mellitus, noninsulin-dependent, late onset, 125853 (3), Autosomal dominant; Diabetes mellitus, permanent neonatal, 125853 (3), Autosomal dominant
 Hyperkalemic periodic paralysis, type 2, 170500 (3), Autosomal dominant; Hypokalemic periodic paralysis, 170500 (3), Autosomal dominant
 Hyperlipoproteinemia, type 1D, 615947 (3), Autosomal recessive
 Hyperlipoproteinemia, type 1b, 207750 (3), Autosomal recessive
 Hyperornithinemia-hyperammonemia-homocitrullinemia syndrome, 238970 (3), Autosomal recessive
 Hyperoxaluria, primary, type II, 260000 (3), Autosomal recessive
 Hyperparathyroidism, familial primary, 145000 (3), Autosomal dominant; Hyperparathyroidism-jaw tumor syndrome, 145000 (3), Autosomal dominant
 Hyperphenylalaninemia, BH4-deficient, A, 261640 (3), Autosomal recessive
 Hyperphenylalaninemia, BH4-deficient, C, 261630 (3), Autosomal recessive
 Hypertrophic osteoarthropathy, primary, autosomal recessive 2, 614441 (3), Autosomal recessive

Hyperuricemia, pulmonary hypertension, renal failure, and alkalosis, 613845 (3), Autosomal recessive
Hyperuricemic nephropathy, familial juvenile, 4, 617056 (3), Autosomal dominant
Hypocalciuric hypercalcemia, type III, 600740 (3), Autosomal dominant
Hypomagnesemia 3, renal, 248250 (3), Autosomal recessive
Hypomagnesemia 5, renal, with ocular involvement, 248190 (3), Autosomal recessive
Hypomyelinating neuropathy, congenital, 3, 618186 (3), Autosomal recessive; Lethal congenital contracture
Hypophosphatasia, adult, 146300 (3), Autosomal recessive, Autosomal dominant; Hypophosphatasia, child
Hypopigmentation, organomegaly, and delayed myelination and development, 618541 (3), Autosomal dominant
Hypotonia, ataxia, and delayed development syndrome, 617330 (3), Autosomal dominant
Hypotonia, ataxia, developmental delay, and tooth enamel defect syndrome, 617915 (3), Autosomal dominant
Hypotrichosis 2, 146520 (3), Autosomal dominant; Peeling skin syndrome 1, 270300 (3), Autosomal recessive
Hypotrichosis-lymphedema-telangiectasia syndrome, 607823 (3), Autosomal recessive; Hypotrichosis-lymphedema
Ichthyosis prematurity syndrome, 608649 (3)
Ichthyosis, congenital, autosomal recessive 1, 242300 (3), Autosomal recessive
Ichthyosis, congenital, autosomal recessive 10, 615024 (3), Autosomal recessive
Ichthyosis, congenital, autosomal recessive 14, 617571 (3), Autosomal recessive
Ichthyosis, congenital, autosomal recessive 2, 242100 (3), Autosomal recessive
Ichthyosis, congenital, autosomal recessive 3, 606545 (3), Autosomal recessive
Ichthyosis, congenital, autosomal recessive 4A, 601277 (3), Autosomal recessive; Ichthyosis, congenital, autosomal recessive 4B, 601278 (3), Autosomal recessive
Ichthyosis, congenital, autosomal recessive 5, 604777 (3), Autosomal recessive
Ichthyosis, congenital, autosomal recessive 6, 612281 (3), Autosomal recessive
Ichthyosis, congenital, autosomal recessive 8, 613943 (3), Autosomal recessive
Ichthyosis, congenital, autosomal recessive 9, 615023 (3), Autosomal recessive
Ichthyosis, leukocyte vacuoles, alopecia, and sclerosing cholangitis, 607626 (3), Autosomal recessive
Immunodeficiency 10, 612783 (3), Autosomal recessive; Myopathy, tubular aggregate, 1, 160565 (3), Autosomal recessive
Immunodeficiency 12, 615468 (3), Autosomal recessive
Immunodeficiency 14, 615513 (3), Autosomal dominant
Immunodeficiency 15A, 618204 (3), Autosomal dominant; Immunodeficiency 15B, 615592 (3), Autosomal dominant
Immunodeficiency 17, CD3 gamma deficient, 615607 (3), Autosomal recessive
Immunodeficiency 18, 615615 (3), Autosomal recessive; Immunodeficiency 18, SCID variant, 615615 (3), Autosomal recessive
Immunodeficiency 19, 615617 (3), Autosomal recessive
Immunodeficiency 20, 615707 (3), Autosomal recessive
Immunodeficiency 23, 615816 (3), Autosomal recessive
Immunodeficiency 24, 615897 (3), Autosomal recessive
Immunodeficiency 26, with or without neurologic abnormalities, 615966 (3), Autosomal recessive
Immunodeficiency 28, mycobacteriosis, 614889 (3), Autosomal recessive
Immunodeficiency 29, mycobacteriosis, 614890 (3), Autosomal recessive
Immunodeficiency 30, 614891 (3), Autosomal recessive
Immunodeficiency 31A, mycobacteriosis, autosomal dominant, 614892 (3), Autosomal dominant; Immunodeficiency 31B, mycobacteriosis, autosomal dominant, 614893 (3), Autosomal dominant
Immunodeficiency 32A, mycobacteriosis, autosomal dominant, 614893 (3), Autosomal dominant; Immunodeficiency 32B, mycobacteriosis, autosomal dominant, 614894 (3), Autosomal dominant
Ectodermal dysplasia and immunodeficiency 1, 300291 (3); Ectodermal, dysplasia, anhidrotic, lymphedema, 300291 (3)
Immunodeficiency 35, 611521 (3), Autosomal recessive
Immunodeficiency 38, 616126 (3), Autosomal recessive
Immunodeficiency 40, 616433 (3), Autosomal recessive
{Diabetes, mellitus, insulin-dependent, susceptibility to, 10}, 601942 (3); Immunodeficiency 41 with lymphopenia, 601942 (3)

Immunodeficiency 42, 616622 (3), Autosomal recessive
 Immunodeficiency 46, 616740 (3), Autosomal recessive
 Immunodeficiency 47, 300972 (3), X-linked recessive
 Immunodeficiency 49, 617237 (3), Autosomal dominant; Intellectual developmental disorder with dysmorphic features
 Immunodeficiency 50, 300988 (3), X-linked recessive
 Immunodeficiency 51, 613953 (3), Autosomal recessive
 Immunodeficiency 54, 609981 (3), Autosomal recessive
 [IgE, elevated level of], 147050 (3), Autosomal dominant; Immunodeficiency 56, 615207 (3), Autosomal recessive
 Immunodeficiency 63 with lymphoproliferation and autoimmunity, 618495 (3), Autosomal recessive
 Immunodeficiency 7, TCR-alpha/beta deficient, 615387 (3), Autosomal recessive
 NULL
 NULL
 Immunodeficiency 8, 615401 (3), Autosomal recessive
 Immunodeficiency 9, 612782 (3), Autosomal recessive; Myopathy, tubular aggregate, 2, 615883 (3), Autosomal recessive
 Immunodeficiency due to defect in MAPBP-interacting protein, 610798 (3), Autosomal recessive
 Immunodeficiency due to ficolin 3 deficiency, 613860 (3), Autosomal recessive
 Immunodeficiency due to purine nucleoside phosphorylase deficiency, 613179 (3), Autosomal recessive
 Immunodeficiency with hyper IgM, type 5, 608106 (3), Autosomal recessive
 Immunodeficiency with hyper-IgM, type 2, 605258 (3), Autosomal recessive
 Immunodeficiency with hyper-IgM, type 3, 606843 (3), Autosomal recessive
 Immunodeficiency-centromeric instability-facial anomalies syndrome 1, 242860 (3), Autosomal recessive
 Immunodeficiency-centromeric instability-facial anomalies syndrome 2, 614069 (3), Autosomal recessive
 Immunodeficiency-centromeric instability-facial anomalies syndrome 3, 616910 (3), Autosomal recessive
 Immunodeficiency-centromeric instability-facial anomalies syndrome 4, 616911 (3), Autosomal recessive
 Immunodeficiency, common variable, 1, 607594 (3), Autosomal recessive
 Immunodeficiency, common variable, 10, 615577 (3), Autosomal dominant
 Immunodeficiency, common variable, 12, 616576 (3), Autosomal dominant
 Immunodeficiency, common variable, 13, 616873 (3), Autosomal dominant
 Immunodeficiency, common variable, 2, 240500 (3), Autosomal recessive, Autosomal dominant; Immunodeficiency, common variable, 3, 613493 (3), Autosomal recessive
 Immunodeficiency, common variable, 4, 613494 (3), Autosomal recessive
 Immunodeficiency, common variable, 5, 613495 (3), Autosomal recessive
 Immunodeficiency, common variable, 6, 613496 (3), Autosomal recessive
 Immunodeficiency, common variable, 7, 614699 (3), Autosomal recessive; {Systemic lupus erythematosus, susceptibility to}
 Immunodeficiency, common variable, 8, with autoimmunity, 614700 (3), Autosomal recessive
 Immunodeficiency, X-linked, with hyper-IgM, 308230 (3), X-linked recessive
 Immunodysregulation, polyendocrinopathy, and enteropathy, X-linked, 304790 (3), X-linked recessive
 Immunoskeletal dysplasia with neurodevelopmental abnormalities, 617425 (3), Autosomal recessive
 Infantile neuroaxonal dystrophy 1, 256600 (3), Autosomal recessive; Neurodegeneration with brain iron accumulation 1
 Infections, recurrent, with encephalopathy, hepatic dysfunction, and cardiovascular malformations, 613759 (3), Autosomal recessive
 {Hepatitis B virus, susceptibility to}, 610424 (3); Inflammatory bowel disease 25, early onset, autosomal recessive
 Inflammatory bowel disease 28, early onset, autosomal recessive, 613148 (3), Autosomal recessive
 Insensitivity to pain, congenital, with anhidrosis, 256800 (3), Autosomal recessive; Medullary thyroid carcinoma, familial, 613300 (3), Autosomal recessive
 NULL
 Interstitial nephritis, karyomegalic, 614817 (3), Autosomal recessive

Intrinsic factor deficiency, 261000 (3), Autosomal recessive
 Isovaleric acidemia, 243500 (3), Autosomal recessive
 Breast cancer, somatic, 114480 (3); Jansen de Vries syndrome, 617450 (3), Autosomal dominant
 Joubert syndrome 10, 300804 (3), X-linked recessive; Orofaciodigital syndrome I, 311200 (3), X-linked dominant
 Joubert syndrome 18, 614815 (3), Autosomal recessive; Orofaciodigital syndrome IV, 258860 (3), Autosomal dominant
 Joubert syndrome 26, 616784 (3), Autosomal recessive
 Bardet-Biedl syndrome 13, 615990 (3), Autosomal recessive; Joubert syndrome 28, 617121 (3), Autosomal dominant
 NULL
 Juvenile polyposis/hereditary hemorrhagic telangiectasia syndrome, 175050 (3), Autosomal dominant; Myotonic dystrophy 1, 160900 (3), Autosomal dominant
 Kabuki syndrome 1, 147920 (3), Autosomal dominant
 Kabuki syndrome 2, 300867 (3), X-linked dominant
 Kappa light chain deficiency, 614102 (3), Autosomal recessive
 Keipert syndrome, 301026 (3), X-linked recessive
 Keppen-Lubinsky syndrome, 614098 (3), Autosomal dominant
 Keutel syndrome, 245150 (3), Autosomal recessive
 Kindler syndrome, 173650 (3), Autosomal recessive
 Kleefstra syndrome 1, 610253 (3), Autosomal dominant
 Koolen-De Vries syndrome, 610443 (3), Autosomal dominant
 Krabbe disease, 245200 (3), Autosomal recessive
 Cardiomyopathy, dilated, 1S, 613426 (3), Autosomal dominant; Cardiomyopathy, hypertrophic, 1, 192600 (3), Autosomal dominant
 Cardiomyopathy, dilated, 1LL, 615373 (3), Autosomal dominant; Left ventricular noncompaction 8, 615373 (3), Autosomal dominant
 Cardiomyopathy, dilated, 1GG, 613642 (3); Leigh syndrome, 256000 (3), Autosomal recessive, Mitochondrial
 LEOPARD syndrome 1, 151100 (3), Autosomal dominant; Leukemia, juvenile myelomonocytic, somatic, 615373 (3), Autosomal dominant
 Leukocyte adhesion deficiency, 116920 (3), Autosomal recessive
 Leukocyte adhesion deficiency, type III, 612840 (3), Autosomal recessive
 Leukodystrophy, adult-onset, autosomal dominant, 169500 (3), Autosomal dominant
 NULL
 Leukodystrophy, hypomyelinating, 7, with or without oligodontia and/or hypogonadotropic hypogonadism, 615373 (3), Autosomal dominant
 Leukodystrophy, hypomyelinating, 8, with or without oligodontia and/or hypogonadotropic hypogonadism, 615373 (3), Autosomal dominant
 Lipase deficiency, combined, 246650 (3), Autosomal recessive
 Lipid storage myopathy due to flavin adenine dinucleotide synthetase deficiency, 255100 (3), Autosomal recessive
 Lipodystrophy, congenital generalized, type 1, 608594 (3), Autosomal recessive
 Lipodystrophy, congenital generalized, type 4, 613327 (3), Autosomal recessive
 Colorectal cancer, hereditary nonpolyposis, type 6, 614331 (3); Esophageal cancer, somatic, 133239 (3); Esophageal cancer, somatic, 133239 (3), Autosomal dominant
 Lung disease, immunodeficiency, and chromosome breakage syndrome, 617241 (3), Autosomal recessive
 Luscan-Lumish syndrome, 616831 (3), Autosomal dominant
 Hemangioma, capillary infantile, somatic, 602089 (3); Lymphatic malformation 1, 153100 (3), Autosomal dominant
 Lymphedema-distichiasis syndrome, 153400 (3), Autosomal dominant; Lymphedema-distichiasis syndrome, 153400 (3), Autosomal dominant
 Lymphoproliferative syndrome 1, 613011 (3), Autosomal recessive
 Lymphoproliferative syndrome 2, 615122 (3), Autosomal recessive
 Lymphoproliferative syndrome, X-linked, 1, 308240 (3), X-linked recessive
 Lymphoproliferative syndrome, X-linked, 2, 300635 (3), X-linked recessive
 Lysinuric protein intolerance, 222700 (3), Autosomal recessive
 Deafness, autosomal dominant 17, 603622 (3), Autosomal dominant; Macrothrombocytopenia and granulocytopenia, 615373 (3), Autosomal dominant
 Cone-rod dystrophy, X-linked, 1, 304020 (3), X-linked; Macular degeneration, X-linked atrophic, 300834 (3), X-linked

Majeed syndrome, 609628 (3)

Mandibuloacral dysplasia with type B lipodystrophy, 608612 (3), Autosomal recessive; Restrictive dermopathy, 608612 (3), Autosomal recessive

Mannosidosis, alpha-, types I and II, 248500 (3), Autosomal recessive

Mannosidosis, beta, 248510 (3), Autosomal recessive

Maple syrup urine disease, type Ia, 248600 (3), Autosomal recessive

Maple syrup urine disease, type Ib, 248600 (3), Autosomal recessive

Maple syrup urine disease, type II, 248600 (3), Autosomal recessive

Marshall-Smith syndrome, 602535 (3), Autosomal dominant; Sotos syndrome 2, 614753 (3), Autosomal dominant

Martsof syndrome, 212720 (3), Autosomal recessive; Warburg micro syndrome 2, 614225 (3), Autosomal dominant

Bardet-Biedl syndrome 6, 605231 (3), Autosomal recessive; McKusick-Kaufman syndrome, 236700 (3), Autosomal dominant

Meckel syndrome 7, 267010 (3), Autosomal recessive; Nephronophthisis 3, 604387 (3), Autosomal recessive

NULL

Meier-Gorlin syndrome 1, 224690 (3), Autosomal recessive

Meier-Gorlin syndrome 2, 613800 (3), Autosomal recessive

Meier-Gorlin syndrome 3, 613803 (3), Autosomal recessive

Meier-Gorlin syndrome 6, 616835 (3), Autosomal dominant

Menke-Hennekam syndrome 1, 618332 (3); Rubinstein-Taybi syndrome 1, 180849 (3), Autosomal dominant

Colorectal cancer, somatic, 114500 (3); Menke-Hennekam syndrome 2, 618333 (3); Rubinstein-Taybi syndrome 2, 180850 (3), Autosomal dominant

Menkes disease, 309400 (3), X-linked recessive; Occipital horn syndrome, 304150 (3), X-linked recessive

Mental retardation and distinctive facial features with or without cardiac defects, 616789 (3), Autosomal dominant

Mental retardation, autosomal dominant 23, 615761 (3), Autosomal dominant

Mental retardation, autosomal dominant 40, 616579 (3), Autosomal dominant

Leukemia, acute lymphoblastic, somatic, 613065 (3); Mental retardation, autosomal dominant 42, 616973 (3), Autosomal dominant

Mental retardation, autosomal dominant 43, 616977 (3), Autosomal dominant

Mental retardation, autosomal dominant 9, 614255 (3), Autosomal dominant; Neuropathy, hereditary sensory, 270300 (3), Autosomal dominant

Mental retardation, autosomal recessive 38, 615516 (3), Autosomal recessive; [Skin/hair/eye pigmentation] 38, 615516 (3), Autosomal recessive

Mental retardation, autosomal recessive 5, 611091 (3), Autosomal recessive

Mental retardation, X-linked 98, 300912 (3), X-linked dominant

Mental retardation, X-linked syndromic, Christianson type, 300243 (3), X-linked dominant

{Autism, susceptibility to, X-linked 5}, 300847 (3); Mental retardation, X-linked, syndromic, 35, 300998 (3), X-linked dominant

Metabolic encephalomyopathic crises, recurrent, with rhabdomyolysis, cardiac arrhythmias, and neurodegeneration, 270300 (3), Autosomal dominant

Methylmalonic aciduria and homocystinuria, cblC type, 277400 (3), Autosomal recessive

Methylmalonic aciduria and homocystinuria, cblF type, 277380 (3), Autosomal recessive

Methylmalonic aciduria and homocystinuria, cblJ type, 614857 (3), Autosomal recessive

Methylmalonic aciduria, mut(0) type, 251000 (3), Autosomal recessive

Methylmalonic aciduria, vitamin B12-responsive, 251100 (3), Autosomal recessive

Methylmalonic aciduria, vitamin B12-responsive, due to defect in synthesis of adenosylcobalamin, cblB complementation group 1, 251100 (3), Autosomal recessive

Methylmalonyl-CoA epimerase deficiency, 251120 (3), Autosomal recessive

MHC class II deficiency, complementation group B, 209920 (3), Autosomal recessive

Microcephalic osteodysplastic primordial dwarfism, type I, 210710 (3), Autosomal recessive; Roifman syndrome, 210710 (3), Autosomal recessive

Microcephaly, congenital cataract, and psoriasiform dermatitis, 616834 (3), Autosomal recessive

Microcephaly, epilepsy, and diabetes syndrome, 614231 (3), Autosomal recessive

Microcephaly, postnatal progressive, with seizures and brain atrophy, 613668 (3), Autosomal recessive

Microphthalmia, isolated, with coloboma 10, 616428 (3), Autosomal dominant; Retinal dystrophy, iris coloboma, 616428 (3), Autosomal dominant

Microphthalmia, isolated, with coloboma 8, 601186 (3), Autosomal recessive; Microphthalmia, syndromic 9, 601186 (3), Autosomal recessive

Microphthalmia, syndromic 2, 300166 (3), X-linked dominant
 MIRAGE syndrome, 617053 (3), Autosomal dominant; Tumoral calcinosis, familial, normophosphatemic, 617053 (3), Autosomal dominant
 Colorectal cancer, hereditary nonpolyposis, type 2, 609310 (3); Mismatch repair cancer syndrome, 276300 (3), Autosomal recessive
 Colorectal cancer, hereditary nonpolyposis, type 4, 614337 (3); Mismatch repair cancer syndrome, 276300 (3), Autosomal recessive
 Mitochondrial complex II deficiency, 252011 (3), Autosomal recessive; Paraganglioma and gastric stromal tumor, 617053 (3), Autosomal dominant
 Mitochondrial DNA depletion syndrome 1 (MNGIE type), 603041 (3), Autosomal recessive
 Mitochondrial DNA depletion syndrome 11, 615084 (3), Autosomal recessive
 Mitochondrial DNA depletion syndrome 13 (encephalomyopathic type), 615471 (3), Autosomal recessive
 Mitochondrial DNA depletion syndrome 3 (hepatocerebral type), 251880 (3), Autosomal recessive; Portal hypertension, 617053 (3), Autosomal dominant
 Mitochondrial DNA depletion syndrome 4A (Alpers type), 203700 (3), Autosomal recessive; Mitochondrial DNA depletion syndrome 4B (Alpers type), 203700 (3), Autosomal recessive
 Mitochondrial DNA depletion syndrome 7 (hepatocerebral type), 271245 (3), Autosomal recessive; Perrault syndrome, 271245 (3), Autosomal recessive
 Mitochondrial DNA depletion syndrome 8A (encephalomyopathic type with renal tubulopathy), 612075 (3), Autosomal recessive
 Mohr-Tranebjaerg syndrome, 304700 (3), X-linked recessive
 Molybdenum cofactor deficiency C, 615501 (3), Autosomal recessive
 Moyamoya 6 with achalasia, 615750 (3), Autosomal recessive
 Mucopolipidosis II alpha/beta, 252500 (3), Autosomal recessive; Mucopolipidosis III alpha/beta, 252600 (3), Autosomal recessive
 Mucopolysaccharidosis Ih, 607014 (3), Autosomal recessive; Mucopolysaccharidosis Ih/s, 607015 (3), Autosomal recessive
 Mucopolysaccharidosis II, 309900 (3), X-linked recessive
 Mucopolysaccharidosis IVA, 253000 (3), Autosomal recessive
 Mucopolysaccharidosis type IIIA (Sanfilippo A), 252900 (3), Autosomal recessive
 Mucopolysaccharidosis type IIIC (Sanfilippo C), 252930 (3), Autosomal recessive; Retinitis pigmentosa 73, 252930 (3), Autosomal recessive
 Mucopolysaccharidosis type IIID, 252940 (3), Autosomal recessive
 Mucopolysaccharidosis type VI (Maroteaux-Lamy), 253200 (3), Autosomal recessive
 Mucopolysaccharidosis VII, 253220 (3), Autosomal recessive
 Mucopolysaccharidosis-plus syndrome, 617303 (3), Autosomal recessive
 Multicentric osteolysis, nodulosis, and arthropathy, 259600 (3), Autosomal recessive
 Multiple congenital anomalies-hypotonia-seizures syndrome 1, 614080 (3), Autosomal recessive
 Adrenal adenoma, somatic (3); Angiofibroma, somatic (3); Carcinoid tumor of lung (3); Lipoma, somatic (3)
 Multiple endocrine neoplasia, type IV, 610755 (3), Autosomal dominant
 Multiple pterygium syndrome, lethal type, 253290 (3), Autosomal recessive; Myasthenic syndrome, congenital, 253290 (3), Autosomal recessive
 Multiple sulfatase deficiency, 272200 (3), Autosomal recessive
 Aortic aneurysm, familial thoracic 6, 611788 (3), Autosomal dominant; Moyamoya disease 5, 614042 (3), Autosomal dominant
 Muscular dystrophy, congenital, due to ITGA7 deficiency, 613204 (3), Autosomal recessive
 Muscular dystrophy, congenital, merosin deficient or partially deficient, 607855 (3), Autosomal recessive; Merosin-deficient congenital muscular dystrophy, 607855 (3), Autosomal recessive
 Muscular dystrophy, limb-girdle, autosomal dominant 1, 603511 (3), Autosomal dominant
 Muscular dystrophy, limb-girdle, autosomal dominant 2, 608423 (3), Autosomal dominant
 Muscular dystrophy, limb-girdle, autosomal dominant 4, 618129 (3), Autosomal dominant; Muscular dystrophy, limb-girdle, autosomal dominant 5, 618129 (3), Autosomal dominant
 Muscular dystrophy, limb-girdle, autosomal recessive 18, 615356 (3), Autosomal recessive
 Muscular dystrophy, limb-girdle, autosomal recessive 5, 253700 (3), Autosomal recessive
 Muscular dystrophy, rigid spine, 1, 602771 (3), Autosomal recessive; Myopathy, congenital, with fiber-type disproportion, 602771 (3), Autosomal recessive
 Myasthenia, congenital, 12, with tubular aggregates, 610542 (3), Autosomal recessive
 Myasthenic syndrome, congenital, 19, 616720 (3), Autosomal recessive
 Myasthenic syndrome, congenital, 20, presynaptic, 617143 (3), Autosomal recessive; Neuronopathy, distal, 617143 (3), Autosomal recessive
 Myasthenic syndrome, congenital, 25, 618323 (3), Autosomal recessive; Spastic ataxia 1, autosomal dominant, 618323 (3), Autosomal dominant
 Myasthenic syndrome, congenital, 4A, slow-channel, 605809 (3), Autosomal recessive; Autosomal dominant, 605809 (3), Autosomal dominant

Myasthenic syndrome, congenital, 5, 603034 (3), Autosomal recessive
 Myasthenic syndrome, congenital, 6, presynaptic, 254210 (3), Autosomal recessive
 Myopathy, areflexia, respiratory distress, and dysphagia, early-onset, 614399 (3), Autosomal recessive; M
 Myopathy, lactic acidosis, and sideroblastic anemia 2, 613561 (3), Autosomal recessive
 Myopathy, myofibrillar, 3, 609200 (3), Autosomal dominant; Myopathy, spheroid body, 182920 (3), Autosomal
 Myopathy, myofibrillar, 8, 617258 (3), Autosomal recessive
 Myotonia congenita, dominant, 160800 (3), Autosomal dominant; Myotonia congenita, recessive, 255700 (3), Autosomal recessive
 Myotonic dystrophy 1, 160900 (3), Autosomal dominant
 Myotonic dystrophy 2, 602668 (3), Autosomal dominant
 Nail disorder, nonsyndromic congenital, 3, (leukonychia), 151600 (3), Autosomal recessive, Autosomal dominant
 Nail-patella syndrome, 161200 (3), Autosomal dominant
 Nemaline myopathy 2, autosomal recessive, 256030 (3), Autosomal recessive
 ?Deafness, autosomal recessive 66, 610212 (3), Autosomal recessive; Nephronophthisis 19, 616217 (3), Autosomal recessive
 Nephropathy due to CFHR5 deficiency, 614809 (3), Autosomal dominant
 [Blood group, Raph], 179620 (3); Nephropathy with pretibial epidermolysis bullosa and deafness, 609057 (3), Autosomal recessive
 Nephrotic syndrome, type 1, 256300 (3), Autosomal recessive
 Nephrotic syndrome, type 10, 615861 (3), Autosomal recessive
 Netherton syndrome, 256500 (3), Autosomal recessive
 NULL
 Neurodevelopmental disorder with or without anomalies of the brain, eye, or heart, 616975 (3), Autosomal dominant
 Leukemia, juvenile myelomonocytic, 607785 (3), Autosomal dominant, Somatic mutation; Neurofibromatosis 1, 162700 (3), Autosomal dominant
 Neuropathy, hereditary sensory and autonomic, type IA, 162400 (3), Autosomal dominant
 Neuropathy, hereditary sensory and autonomic, type IC, 613640 (3), Autosomal dominant
 Neuropathy, hereditary sensory and autonomic, type II, 201300 (3), Autosomal recessive; Pseudohypoparathyroidism 1, 201300 (3), Autosomal recessive
 Neuropathy, hereditary sensory and autonomic, type IIB, 613115 (3), Autosomal recessive
 Cerebellar ataxia, deafness, and narcolepsy, autosomal dominant, 604121 (3), Autosomal dominant; Neurofibromatosis 2, 162700 (3), Autosomal dominant
 Neuropathy, hereditary sensory, type IF, 615632 (3), Autosomal dominant
 Neutropenia, cyclic, 162800 (3), Autosomal dominant; Neutropenia, severe congenital 1, autosomal dominant
 NULL
 Neutropenia, severe congenital 3, autosomal recessive, 610738 (3), Autosomal recessive
 Neutropenia, severe congenital, 5, autosomal recessive, 615285 (3), Autosomal recessive
 Neutropenia, severe congenital, 6, autosomal recessive, 616022 (3), Autosomal recessive
 Neutropenia, severe congenital, 7, autosomal recessive, 617014 (3), Autosomal recessive
 Neutropenia, severe congenital, X-linked, 300299 (3), X-linked recessive; Thrombocytopenia, X-linked, 311000 (3), X-linked recessive
 Neutrophil immunodeficiency syndrome, 608203 (3)
 Nicolaides-Baraitser syndrome, 601358 (3), Autosomal dominant
 Niemann-Pick disease, type A, 257200 (3), Autosomal recessive; Niemann-Pick disease, type B, 607616 (3), Autosomal recessive
 Niemann-Pick disease, type C1, 257220 (3), Autosomal recessive; Niemann-Pick disease, type D, 257220 (3), Autosomal recessive
 Niemann-pick disease, type C2, 607625 (3), Autosomal recessive
 Night blindness, congenital stationary (complete), 1C, autosomal recessive, 613216 (3)
 Aplastic anemia, 609135 (3); Leukemia, acute lymphoblastic, 613065 (3); Nijmegen breakage syndrome, 254210 (3), Autosomal recessive
 Nonaka myopathy, 605820 (3), Autosomal recessive; Sialuria, 269921 (3), Autosomal dominant
 Cardiomyopathy, dilated, 1NN, 615916 (3), Autosomal dominant; LEOPARD syndrome 2, 611554 (3), Autosomal dominant
 Colorectal cancer, somatic, 114500 (3); Epidermal nevus, somatic, 162900 (3); Melanocytic nevus syndrome, 162900 (3), Autosomal dominant
 Noonan syndrome 8, 615355 (3), Autosomal dominant

Noonan syndrome 9, 616559 (3), Autosomal dominant
 ?Juvenile myelomonocytic leukemia, 607785 (3), Autosomal dominant, Somatic mutation; Noonan syndrome
 Obesity, morbid, due to leptin deficiency, 614962 (3), Autosomal recessive
 Obesity, morbid, due to leptin receptor deficiency, 614963 (3), Autosomal recessive
 Oculopharyngeal muscular dystrophy, 164300 (3), Autosomal dominant
 OKT4 epitope deficiency, 613949 (3)
 Okur-Chung neurodevelopmental syndrome, 617062 (3), Autosomal dominant
 Colorectal cancer, somatic, 114500 (3); Oligodontia-colorectal cancer syndrome, 608615 (3), Autosomal dominant
 Omenn syndrome, 603554 (3), Autosomal recessive; Severe combined immunodeficiency, Athabaskan type
 Opitz GBBB syndrome, type I, 300000 (3), X-linked recessive
 Opsismodysplasia, 258480 (3), Autosomal recessive
 Ornithine transcarbamylase deficiency, 311250 (3), X-linked recessive
 Orotic aciduria, 258900 (3), Autosomal recessive
 Osteopathia striata with cranial sclerosis, 300373 (3), X-linked dominant
 Osteopetrosis, autosomal recessive 1, 259700 (3), Autosomal recessive
 Osteopetrosis, autosomal recessive 2, 259710 (3), Autosomal recessive
 Osteopetrosis, autosomal recessive 3, with renal tubular acidosis, 259730 (3), Autosomal recessive
 Osteopetrosis, autosomal recessive 5, 259720 (3), Autosomal recessive
 Osteopetrosis, autosomal recessive 8, 615085 (3), Autosomal recessive
 Anemia, hemolytic, Rh-null, regulator type, 268150 (3), Autosomal dominant; Overhydrated hereditary stomatocytosis
 Pachyonychia congenita 1, 167200 (3), Autosomal dominant; Palmoplantar keratoderma, nonepidermolytic type 1
 Pachyonychia congenita 2, 167210 (3), Autosomal dominant; Steatocystoma multiplex, 184500 (3), Autosomal dominant
 Palmoplantar keratoderma, epidermolytic, 144200 (3), Autosomal dominant
 {Diabetes mellitus, type II, susceptibility to}, 125853 (3), Autosomal dominant; MODY, type IV, 606392 (3);
 Pancreatitis, hereditary, 167800 (3), Autosomal dominant; Trypsinogen deficiency, 614044 (1), Autosomal recessive
 Adenocarcinoma of lung, somatic, 211980 (3); Ovarian cancer, somatic, 167000 (3); Parkinson disease, juvenile
 {Nicotine dependence, protection against}, 188890 (3); Parkinsonism-dystonia, infantile, 1, 613135 (3), Autosomal dominant
 Paroxysmal nonkinesigenic dyskinesia 1, 118800 (3), Autosomal dominant
 PCWH syndrome, 609136 (3), Autosomal dominant; Waardenburg syndrome, type 2E, with or without neurodegeneration
 Peeling skin syndrome 2, 609796 (3), Autosomal recessive
 Peeling skin syndrome 4, 607936 (3), Autosomal recessive
 PEHO syndrome, 260565 (3), Autosomal recessive
 Pelizaeus-Merzbacher disease, 312080 (3), X-linked recessive; Spastic paraplegia 2, X-linked, 312920 (3), X-linked recessive
 Peroxisomal acyl-CoA oxidase deficiency, 264470 (3), Autosomal recessive
 Peroxisome biogenesis disorder 2A (Zellweger), 214110 (3), Autosomal recessive; Peroxisome biogenesis disorder 2B (Zellweger)
 Peroxisome biogenesis disorder 5A (Zellweger), 614866 (3), Autosomal recessive; Peroxisome biogenesis disorder 5B (Zellweger)
 Peroxisome biogenesis disorder 8A (Zellweger), 614876 (3), Autosomal recessive; Peroxisome biogenesis disorder 8B (Zellweger)
 Peroxisome biogenesis disorder 9B, 614879 (3), Autosomal recessive; Rhizomelic chondrodysplasia punctata 1
 Melanoma, malignant, somatic (3); Pancreatic cancer, somatic, 260350 (3); Peutz-Jeghers syndrome, 175200 (3), Autosomal dominant
 [Hyperphenylalaninemia, non-PKU mild], 261600 (3), Autosomal recessive; Phenylketonuria, 261600 (3), Autosomal recessive
 Pigmentary disorder, reticulate, with systemic manifestations, X-linked, 301220 (3), X-linked recessive; Varicella
 Pitt-Hopkins-like syndrome 2, 614325 (3), Autosomal recessive; {Schizophrenia, susceptibility to, 17}, 614325 (3), Autosomal recessive
 Pityriasis rubra pilaris, 173200 (3), Autosomal dominant; Psoriasis 2, 602723 (3), Autosomal dominant
 Leukemia, acute myeloid, 601626 (3), Autosomal dominant, Somatic mutation; Platelet disorder, familial, with thrombocytopenia
 Poikiloderma with neutropenia, 604173 (3), Autosomal recessive

Polycystic kidney disease 2, 613095 (3), Autosomal dominant
 Polycystic kidney disease 4, with or without hepatic disease, 263200 (3), Autosomal recessive
 Porphyria, acute intermittent, 176000 (3), Autosomal dominant; Porphyria, acute intermittent, nonerythroid
 Porphyria, congenital erythropoietic, 263700 (3), Autosomal recessive
 Prader-Willi syndrome, 176270 (3), Autosomal dominant
 Prader-Willi syndrome, 176270 (3), Autosomal dominant
 Precocious puberty, central, 2, 615346 (3), Autosomal dominant
 Progressive external ophthalmoplegia with mitochondrial DNA deletions, autosomal recessive 2, 616479 (3)
 Prolidase deficiency, 170100 (3), Autosomal recessive
 Properdin deficiency, X-linked, 312060 (3), X-linked recessive
 Propionicacidemia, 606054 (3), Autosomal recessive
 Propionicacidemia, 606054 (3), Autosomal recessive
 Proteasome-associated autoinflammatory syndrome 1 and digenic forms, 256040 (3), Autosomal recessive
 Protoporphyrin, erythropoietic, 1, 177000 (3), Autosomal recessive
 Pseudo-TORCH syndrome 1, 251290 (3), Autosomal recessive
 Psoriasis 14, pustular, 614204 (3), Autosomal recessive
 Pulmonary fibrosis, idiopathic, 178500 (3), Autosomal dominant
 Macroglobulinemia, Waldenstrom, somatic, 153600 (3); Pyogenic bacterial infections, recurrent, due to MY
 Pyogenic sterile arthritis, pyoderma gangrenosum, and acne, 604416 (3), Autosomal dominant
 Pyruvate dehydrogenase phosphatase deficiency, 608782 (3), Autosomal recessive
 Radioulnar synostosis with amegakaryocytic thrombocytopenia 2, 616738 (3), Autosomal dominant
 NULL
 Refsum disease, 266500 (3), Autosomal recessive
 Reticular dysgenesis, 267500 (3), Autosomal recessive
 Retinitis pigmentosa and erythrocytic microcytosis, 616959 (3), Autosomal recessive; Sideroblastic anemia
 Rett syndrome, congenital variant, 613454 (3), Autosomal dominant
 RIDDLE syndrome, 611943 (3), Autosomal recessive
 Congenital heart defects, multiple types, 6, 613854 (3), Autosomal dominant; Right atrial isomerism (Ivema
 Ritscher-Schinzel syndrome 1, 220210 (3), Autosomal recessive; Spastic paraplegia 8, autosomal domina
 Ritscher-Schinzel syndrome 2, 300963 (3), X-linked recessive
 Roberts syndrome, 268300 (3), Autosomal recessive; SC phocomelia syndrome, 269000 (3), Autosomal r
 Robinow syndrome, autosomal recessive 2, 618529 (3), Autosomal recessive
 Salla disease, 604369 (3), Autosomal recessive; Sialic acid storage disorder, infantile, 269920 (3), Autosom
 Sandhoff disease, infantile, juvenile, and adult forms, 268800 (3), Autosomal recessive
 Scalp-ear-nipple syndrome, 181270 (3), Autosomal dominant
 Schaaf-Yang syndrome, 615547 (3), Autosomal dominant
 Schimke immunoosseous dysplasia, 242900 (3), Autosomal recessive
 SCID, autosomal recessive, T-negative/B-positive type, 600802 (3), Autosomal recessive
 Seborrhea-like dermatitis with psoriasiform elements, 610227 (3)
 Seckel syndrome 10, 617253 (3), Autosomal recessive
 Seckel syndrome 9, 616777 (3), Autosomal recessive
 Bardet-Biedl syndrome 16, 615993 (3), Autosomal recessive; Senior-Loken syndrome 7, 613615 (3)
 Severe combined immunodeficiency with microcephaly, growth retardation, and sensitivity to ionizing radia
 {Hepatitis C virus, susceptibility to}, 609532 (3); Severe combined immunodeficiency, T cell-negative, B-ce
 Severe combined immunodeficiency, T-cell negative, B-cell/natural killer cell-positive type, 608971 (3), Au

Short stature with microcephaly and distinctive facies, 615789 (3), Autosomal recessive
 Short stature, microcephaly, and endocrine dysfunction, 616541 (3), Autosomal recessive
 Retinitis pigmentosa 71, 616394 (3), Autosomal recessive; Short-rib thoracic dysplasia 10 with or without polydactyly, 615633 (3), Autosomal recessive
 Short-rib thoracic dysplasia 11 with or without polydactyly, 615633 (3), Autosomal recessive
 Short-rib thoracic dysplasia 15 with polydactyly, 617088 (3), Autosomal recessive
 Shprintzen-Goldberg syndrome, 182212 (3), Autosomal dominant
 Shwachman-Diamond syndrome 2, 617941 (3), Autosomal recessive
 Sialidosis, type I, 256550 (3), Autosomal recessive; Sialidosis, type II, 256550 (3), Autosomal recessive
 Simpson-Golabi-Behmel syndrome, type 1, 312870 (3), X-linked recessive; Wilms tumor, somatic, 194070 (3), Autosomal dominant
 Sitosterolemia, 210250 (3), Autosomal recessive
 {Gallbladder disease 4}, 611465 (3); Sitosterolemia, 210250 (3), Autosomal recessive
 Sjogren-Larsson syndrome, 270200 (3), Autosomal recessive
 Focal cortical dysplasia, type II, somatic, 607341 (3); Smith-Kingsmore syndrome, 616638 (3), Autosomal dominant
 Smith-Lemli-Opitz syndrome, 270400 (3), Autosomal recessive
 Smith-Magenis syndrome, 182290 (3), Autosomal dominant, Isolated cases
 Leukemia, acute myeloid, 601626 (1), Autosomal dominant, Somatic mutation; Sotos syndrome 1, 117550 (3), Autosomal dominant
 Spastic ataxia 5, autosomal recessive, 614487 (3), Autosomal recessive; Spinocerebellar ataxia 28, 610240 (3), Autosomal dominant
 Spastic paraplegia 18, autosomal recessive, 611225 (3), Autosomal recessive
 Spastic paraplegia 49, autosomal recessive, 615031 (3), Autosomal recessive
 Spastic paraplegia 54, autosomal recessive, 615033 (3), Autosomal recessive
 Spastic paraplegia 7, autosomal recessive, 607259 (3), Autosomal recessive, Autosomal dominant
 Specific granule deficiency, 245480 (3), Autosomal recessive
 ?Ciliary dyskinesia, primary, 37, 617577 (3), Autosomal recessive; Spermatogenic failure 18, 617576 (3), Autosomal recessive
 ?Premature ovarian failure 15, 618096 (3), Autosomal recessive; Spermatogenic failure 28, 618086 (3), Autosomal recessive
 Spherocytosis, type 1, 182900 (3), Autosomal recessive, Autosomal dominant
 Anemia, neonatal hemolytic, fatal or near-fatal, 617948 (3); Elliptocytosis-3, 617948 (3); Spherocytosis, type 2, 617948 (3)
 Spinal muscular atrophy-1, 253300 (3), Autosomal recessive; Spinal muscular atrophy-2, 253550 (3), Autosomal recessive
 Spinocerebellar ataxia 11, 604432 (3), Autosomal dominant
 Spinocerebellar ataxia 14, 605361 (3), Autosomal dominant
 {Parkinson disease, susceptibility to}, 168600 (3), Autosomal dominant, Multifactorial; Spinocerebellar ataxia 17, 605361 (3), Autosomal dominant
 Spinocerebellar ataxia, autosomal recessive 21, 616719 (3), Autosomal recessive
 Spondylocostal dysostosis 1, autosomal recessive, 277300 (3), Autosomal recessive
 Spondylocostal dysostosis 2, autosomal recessive, 608681 (3), Autosomal recessive
 Spondylocostal dysostosis 3, autosomal recessive, 609813 (3), Autosomal recessive
 Spondylocostal dysostosis 4, autosomal recessive, 613686 (3), Autosomal recessive
 Spondyloenchondrodysplasia with immune dysregulation, 607944 (3), Autosomal recessive
 Spondyloepimetaphyseal dysplasia, Shohat type, 602557 (3), Autosomal recessive
 Spondylometaepiphyseal dysplasia, short limb-hand type, 271665 (3), Autosomal recessive; Warburg-Cintron syndrome, 271665 (3), Autosomal recessive
 STING-associated vasculopathy, infantile-onset, 615934 (3), Autosomal dominant
 Stocco dos Santos X-linked mental retardation syndrome, 300434 (3), X-linked
 Pigmented nodular adrenocortical disease, primary, 3, 614190 (3); Striatal degeneration, autosomal dominant 1, 614190 (3), Autosomal dominant
 Striatonigral degeneration, childhood-onset, 617054 (3), Autosomal recessive
 Striatonigral degeneration, infantile, 271930 (3), Autosomal recessive
 Stuve-Wiedemann syndrome/Schwartz-Jampel type 2 syndrome, 601559 (3), Autosomal recessive
 Sudden infant death with dysgenesis of the testes syndrome, 608800 (3), Autosomal recessive

Sulfite oxidase deficiency, 272300 (3), Autosomal recessive
 Surfactant metabolism dysfunction, pulmonary, 2, 610913 (3), Autosomal dominant
 Surfactant metabolism dysfunction, pulmonary, 3, 610921 (3), Autosomal recessive
 Systemic lupus erythematosus 16, 614420 (3), Autosomal recessive
 T-cell immunodeficiency, congenital alopecia, and nail dystrophy, 601705 (3), Autosomal recessive
 NULL
 HDL deficiency, familial, 1, 604091 (3); Tangier disease, 205400 (3), Autosomal recessive
 Telangiectasia, hereditary hemorrhagic, type 1, 187300 (3), Autosomal dominant
 Telangiectasia, hereditary hemorrhagic, type 2, 600376 (3), Autosomal dominant
 Temple-Baraitser syndrome, 611816 (3), Autosomal dominant; Zimmermann-Laband syndrome 1, 135500
 Tenorio syndrome, 616260 (3), Autosomal dominant
 Thiamine metabolism dysfunction syndrome 2 (biotin- or thiamine-responsive encephalopathy type 2), 607
 Thrombocythemia 1, 187950 (3), Autosomal dominant
 Myelofibrosis with myeloid metaplasia, somatic, 254450 (3); Thrombocythemia 2, 601977 (3), Autosomal d
 {Budd-Chiari syndrome, somatic}, 600880 (3); Erythrocytosis, somatic, 133100 (3); Leukemia, acute myelo
 Thrombocytopenia-absent radius syndrome, 274000 (3), Autosomal recessive
 Thrombocytopenic purpura, autoimmune, 188030 (1), Autosomal dominant
 Brugada syndrome 3, 611875 (3); Long QT syndrome 8, 618447 (3); Timothy syndrome, 601005 (3), Auto
 Townes-Brocks branchiootorenal-like syndrome, 107480 (3), Autosomal dominant; Townes-Brocks syndro
 Transaldolase deficiency, 606003 (3), Autosomal recessive
 Transcobalamin II deficiency, 275350 (3), Autosomal recessive
 Trichohepatoenteric syndrome 1, 222470 (3), Autosomal recessive
 Trichohepatoenteric syndrome 2, 614602 (3), Autosomal recessive
 Trichorhinophalangeal syndrome, type I, 190350 (3), Autosomal dominant; Trichorhinophalangeal syndrom
 Trichothiodystrophy 2, photosensitive, 616390 (3), Autosomal recessive; Xeroderma pigmentosum, group
 Trichothiodystrophy 3, photosensitive, 616395 (3)
 Trimethylaminuria, 602079 (3), Autosomal recessive
 Carney complex variant, 608837 (3); Trismus-pseudocamptodactyly syndrome, 158300 (3), Autosomal do
 Focal cortical dysplasia, type II, somatic, 607341 (3); Lymphangioliomyomatosis, 606690 (3); Tuberous s
 ?Focal cortical dysplasia, type II, somatic, 607341 (3); Lymphangioliomyomatosis, somatic, 606690 (3); T
 Tumor predisposition syndrome, 614327 (3), Autosomal dominant
 Tylosis with esophageal cancer, 148500 (3), Autosomal dominant
 Tyrosinemia, type I, 276700 (3), Autosomal recessive
 Urbach-Wiethe disease, 247100 (3), Autosomal recessive
 Urofacial syndrome 1, 236730 (3), Autosomal recessive
 Urofacial syndrome 2, 615112 (3), Autosomal recessive
 Congenital heart defects, nonsyndromic, 1, X-linked, 306955 (3), X-linked recessive; Heterotaxy, visceral,
 Conotruncal anomaly face syndrome, 217095 (3); DiGeorge syndrome, 188400 (3), Autosomal dominant;
 Vici syndrome, 242840 (3), Autosomal recessive
 Visceral myopathy, 155310 (3), Autosomal dominant
 Vitreoretinopathy, neovascular inflammatory, 193235 (3), Autosomal dominant
 von Willebrand disease, type 1, 193400 (3), Autosomal dominant; von Willebrand disease, types 2A, 2B, 2
 Myelokathexis, isolated (3); WHIM syndrome, 193670 (3), Autosomal dominant
 White-Sutton syndrome, 616364 (3), Autosomal dominant
 Leukemia, myeloid/lymphoid or mixed-lineage, 159555 (2), Autosomal dominant; Wiedemann-Steiner synd

Wilson disease, 277900 (3), Autosomal recessive
Witteveen-Kolk syndrome, 613406 (3), Autosomal dominant
Wolcott-Rallison syndrome, 226980 (3), Autosomal recessive
?Cataract 41, 116400 (3), Autosomal dominant; Deafness, autosomal dominant 6/14/38, 600965 (3), Auto
Wolfram syndrome 2, 604928 (3), Autosomal recessive
Xanthinuria, type I, 278300 (3), Autosomal recessive
Xeroderma pigmentosum, group A, 278700 (3), Autosomal recessive
Xeroderma pigmentosum, group C, 278720 (3), Autosomal recessive
Xeroderma pigmentosum, group E, DDB-negative subtype, 278740 (3), Autosomal recessive
Xeroderma pigmentosum, variant type, 278750 (3), Autosomal recessive
Zinc deficiency, transient neonatal, 608118 (3), Autosomal dominant

rs, 607822 (3), Autosomal dominant; Cardiomyopathy, dilated, 1U, 613694 (3), Autoson

t, Somatic mutation

ninant; Foveal hypoplasia 1, 136520 (3), Autosomal dominant; Keratitis, 148190 (3), Au

608895 (3), Autosomal dominant

, Ogna type, 131950 (3), Autosomal dominant; Muscular dystrophy, limb-girdle, autosor

Intestinal pseudoobstruction, neuronal, 300048 (3), X-linked recessive; Melnick-Needle:

ial dominant, Somatic mutation; {Nonsmall cell lung cancer, susceptibility to}, 211980 (3

associated with acetylcholine receptor deficiency, 616323 (3), Autosomal recessive
recessive, Autosomal dominant; ?Myopathy, scapulohumeroperoneal, 616852 (3), Aut
mal dominant; Neuropathy, recurrent, with pressure palsies, 162500 (3), Autosomal doi
cessive

ive; ?RHYNS syndrome, 602152 (3), Autosomal recessive

inant; {Colorectal cancer}, 114500 (3), Autosomal dominant, Somatic mutation; {Glioma

ome, 312750 (3), X-linked dominant; Rett syndrome, atypical, 312750 (3), X-linked domi

rotein C resistance, 188055 (3), Autosomal dominant; {Thrombophilia, susceptibility to, c

{Melanoma, cutaneous malignant, 9}, 615134 (3); {Pulmonary fibrosis and/or bone mar

} (3), Autosomal dominant; Hypocalciuric hypercalcemia, type I, 145980 (3), Autosomal

et, 612126 (3), Autosomal dominant; Stomatin-deficient cryohydrocytosis with neurologi

omatic, 176807 (3)

rotection against}, 607948 (3); {Tuberculosis, susceptibility to}, 607948 (3)
ated, 4}, 610698 (3)

ninant; Multiple endocrine neoplasia IIA, 171400 (3), Autosomal dominant; Multiple end

00072 (3), Autosomal dominant; {Kuru, susceptibility to}, 245300 (3); Prion disease with
tosomal recessive; {Lewy body dementia, susceptibility to}, 127750 (3), Autosomal dom
Macular degeneration, age-related, susceptibility to, 5}, 613761 (3); Premature ovarian
recessive; Neuromuscular disease, congenital, with uniform type 1 fiber, 117000 (3), Al

r albinism, digenic, 103470 (3), Autosomal dominant

atelet-type, 177820 (3), Autosomal dominant

ominant; Osteogenesis imperfecta, type IV, 166220 (3), Autosomal dominant; {Osteopc

}, 167800 (3), Autosomal dominant; Sweat chloride elevation without CF (3)

, Digenic recessive

a variegata, susceptibility to}, 176200 (3), Autosomal dominant; [Transferrin serum level
fect, 188050 (3), Autosomal dominant

rophy, 192315 (3), Autosomal dominant

:22600 (3), Autosomal recessive; Epiphyseal dysplasia, multiple, 4, 226900 (3), Autosor
l dominant; Kniest dysplasia, 156550 (3), Autosomal dominant; Legg-Calve-Perthes dis

L, 610489 (3), Autosomal dominant

osomal recessive; {Obesity, susceptibility to}, 601665 (3), Autosomal recessive, Autoso

1 (3), X-linked recessive

y to}, 152700 (3), Autosomal dominant

-deafness syndrome, 148210 (3), Autosomal dominant; Keratoderma, palmoplantar, wit
aging syndrome, Penttinen type, 601812 (3), Autosomal dominant

nant; Ovarian cancer, somatic, 167000 (3); {Prostate cancer, susceptibility to}, 176807

ogenesis imperfecta, type II, 166210 (3), Autosomal dominant; Osteogenesis imperfecta

ant

utation; Lung cancer, somatic, 211980 (3); Noonan syndrome 3, 609942 (3), Autosoma

ndrome 7, 613706 (3), Autosomal dominant

Autosomal dominant; Dejerine-Sottas disease, 145900 (3), Autosomal recessive, Autosomal recessive, 616516 (3), Autosomal recessive; Heart-hand syndrome, Slovenian type, 610140 (3)

Autosomal dominant; Muckle-Wells syndrome, 191900 (3), Autosomal dominant

Autosomal dominant; Pseudohypoparathyroidism with or without brachydactyly, 156510 (3), Autosomal dominant

Autosomal dominant; Ovarian cancer, somatic, 167000 (3); Pilomatricoma, somatic, 132600 (3)

re combined immunodeficiency, B cell-negative, 601457 (3), Autosomal recessive

atic mosaic, 163200 (3); Spitz nevus or nevus spilus, somatic, 137550 (3); Thyroid carci

900 (3), Autosomal dominant; Renal tubular acidosis, distal, AD, 179800 (3), Autosomal

.l recessive

Supranuclear palsy, progressive atypical, 260540 (3), Autosomal recessive

je, 131800 (3), Autosomal dominant; Epidermolysis bullosa simplex, recessive 1, 60100

3), Autosomal dominant; Epidermolysis bullosa simplex, recessive 1, 601001 (3), Autos

tosomal dominant

osa pruriginosa, 604129 (3), Autosomal recessive, Autosomal dominant; Epidermolysis

ity to}, 606963 (1)

270685 (3), Autosomal dominant

Palmoplantar keratoderma, epidermolytic, 144200 (3), Autosomal dominant; Palmoplantar keratoderma, non-bullous, 144200 (3), Autosomal dominant; Palmoplantar keratoderma, non-bullous, 243000 (3), Autosomal recessive; Insensitivity to pain, congenital, 243000 (3), X-linked recessive; Proud syndrome, 300004 (3), X-linked

Autosomal dominant; Spinocerebellar ataxia 6, 183086 (3), Autosomal dominant

3)

(3), Autosomal recessive, Autosomal dominant

Autosomal recessive; Oculodentodigital dysplasia, 164200 (3), Autosomal dominant; Oculodentodigital dysplasia, 164200 (3), Autosomal dominant

cessive

3), Autosomal dominant; Otospondylomegaepiphyseal dysplasia, autosomal recessive, 1

isease of bone 3, 167250 (3), Autosomal dominant

m, 172800 (3), Autosomal dominant

700 (3), Autosomal dominant

), Autosomal dominant

excessive, Autosomal dominant; Hypoglycemia of infancy, leucine-sensitive, 240800 (3),
c hypoglycemia, familial, 2, 601820 (3), Autosomal recessive; Maturity-onset diabetes o
somal dominant
utosomal dominant; Paramyotonia congenita, 168300 (3), Autosomal dominant

it

t; Invasive pneumococcal disease, recurrent isolated, 2, 300640 (3)

nal dominant, 608358 (3), Autosomal dominant; Myopathy, myosin storage, autosomal

ssive

Progressive external ophthalmoplegia, autosomal dominant 1, 157640 (3), Autosomal dc

s, autosomal dominant 5, 613077 (3), Autosomal dominant

1 (3), Autosomal recessive

Watson syndrome, 193520 (3), Autosomal dominant

erative syndrome type IV, somatic, 614470 (3); Schimmelpenning-Feuerstein-Mims syn

ome, autosomal dominant, 614296 (3), Autosomal dominant

nal dominant; Dementia, frontotemporal, 600274 (3), Autosomal dominant; Pick disease

tosomal dominant; ?Morning glory disc anomaly, 120430 (3), Autosomal dominant; Opt

nal recessive 17, 613723 (3), Autosomal recessive

s syndrome, 309350 (3), X-linked dominant; Otopalatodigital syndrome, type I, 311300 |

3}, Autosomal dominant, Somatic mutation

Autosomal dominant; Nemaline myopathy 3, autosomal dominant or recessive, 161800 (3),
Autosomal dominant; Roussy-Levy syndrome, 180800 (3), Autosomal dominant

Autosomal recessive; Susceptibility 1}, 137800 (3), Autosomal dominant, Somatic mutation; Hepatocellular c

inant; Rett syndrome, preserved speech variant, 312750 (3), X-linked dominant

due to factor V Leiden}, 188055 (3), Autosomal dominant

row failure, telomere-related, 1}, 614742 (3), Autosomal dominant

dominant

c defects, 608885 (3), Autosomal dominant

ocrine neoplasia IIB, 162300 (3), Autosomal dominant; Pheochromocytoma, 171300 (3)

protracted course, 606688 (3), Autosomal dominant

inant; {Parkinson disease, late-onset, susceptibility to}, 168600 (3), Autosomal dominant
failure 11, 616946 (3), Autosomal dominant; UV-sensitive syndrome 1, 600630 (3), Auto
autosomal recessive, Autosomal dominant

rosis, postmenopausal}, 166710 (3), Autosomal dominant

QTL2], 614193 (3)

nal recessive
ease, 150600 (3), Autosomal dominant; Osteoarthritis with mild chondrodysplasia, 6048

oma, somatic, 114550 (3)

nalformation 4, 605289 (3), Autosomal dominant

ntaris striata II, 612908 (3), Autosomal dominant; Skin fragility-woolly hair syndrome, 60

mal dominant, Multifactorial

h deafness, 148350 (3), Autosomal dominant; Vohwinkel syndrome, 124500 (3), Autosomal dominant

(3), Autosomal dominant, Somatic mutation

1, type III, 259420 (3), Autosomal dominant; Osteogenesis imperfecta, type IV, 166220 (

1 dominant; Oculoectodermal syndrome, somatic, 600268 (3); Pancreatic carcinoma, sc

al dominant; Hypomyelinating neuropathy, congenital, 2, 618184 (3), Autosomal dominant
, Autosomal dominant; Hutchinson-Gilford progeria, 176670 (3), Autosomal recessive, /

cinoma, follicular, somatic, 188470 (3)

| dominant; Renal tubular acidosis, distal, AR, 611590 (3), Autosomal recessive; Spherc

01 (3), Autosomal recessive; Naegeli-Franceschetti-Jadassohn syndrome, 161000 (3), /

osomal recessive; Epidermolysis bullosa simplex-MCR, 609352 (3); Epidermolysis bullos

bullosa, pretibial, 131850 (3), Autosomal recessive, Autosomal dominant; Toenail dysti

ntar keratoderma, nonepidermolytic, 600962 (3), Autosomal dominant

3000 (3), Autosomal recessive; Paroxysmal extreme pain disorder, 167400 (3), Autosor

digital dysplasia, autosomal recessive, 257850 (3), Autosomal recessive; Palmoplantar l

215150 (3), Autosomal recessive

Autosomal dominant
if the young, type 13, 616329 (3), Autosomal dominant

recessive, 255160 (3), Autosomal recessive; Scapuloperoneal syndrome, myopathic ty|

ominant; Progressive external ophthalmoplegia, autosomal recessive 1, 258450 (3), Aut

drome, somatic mosaic, 163200 (3); Thyroid carcinoma, follicular, somatic, 188470 (3)

3, 172700 (3), Autosomal dominant

ic nerve hypoplasia, 165550 (3), Autosomal dominant

(3), X-linked dominant; Otopalatodigital syndrome, type II, 304120 (3), X-linked dominant

Autosomal recessive, Autosomal dominant

arcinoma, somatic, 114550 (3); Li-Fraumeni syndrome, 151623 (3), Autosomal dominant

), Autosomal dominant

rt, Multifactorial
osomal recessive

364 (3), Autosomal dominant; Platyspondylic skeletal dysplasia, Torrance type, 151210

17655 (3), Autosomal recessive

omal dominant

(3), Autosomal dominant

omatic, 260350 (3); RAS-associated autoimmune leukoproliferative disorder, 614470 (3)

ant; Roussy-Levy syndrome, 180800 (3), Autosomal dominant

Autosomal dominant; Lipodystrophy, familial partial, type 2, 151660 (3), Autosomal dom

cytosis, type 4, 612653 (3), Autosomal dominant

Autosomal dominant

a simplex-MP, 131960 (3), Autosomal dominant

rophy, isolated, 607523 (3), Autosomal dominant; Transient bullous of the newborn, 131

nal dominant; Small fiber neuropathy, 133020 (3), Autosomal dominant

keratoderma with congenital alopecia, 104100 (3), Autosomal dominant; Syndactyly, ty

pe, 181430 (3), Autosomal dominant

tosomal recessive

nt; Terminal osseous dysplasia, 300244 (3), X-linked dominant

nt; Nasopharyngeal carcinoma, somatic, 607107 (3); {Osteosarcoma}, 259500 (3), Som

(3), Autosomal dominant; SED congenita, 183900 (3), Autosomal dominant; SMED Stri

), Autosomal dominant; Schimmelpenning-Feuerstein-Mims syndrome, somatic mosaic,

inant; Malouf syndrome, 212112 (3), Autosomal dominant; Mandibuloacral dysplasia, 2.

L705 (3), Autosomal recessive, Autosomal dominant

je III, 186100 (3), Autosomal dominant

atic mutation; Pancreatic cancer, somatic, 260350 (3)

Judwick type, 184250 (3), Autosomal dominant; Spondyloepiphyseal dysplasia, Stanesci

, 163200 (3)

48370 (3), Autosomal recessive; Muscular dystrophy, congenital, 613205 (3), Autosomal

type, 616583 (3), Autosomal dominant; Spondyloperipheral dysplasia, 271700 (3), Au

al dominant; Restrictive dermopathy, lethal, 275210 (3), Autosomal recessive

tosomal dominant; Stickler syndrome, type I, nonsyndromic ocular, 609508 (3), Autosom

al dominant; Stickler syndrome, type I, 108300 (3), Autosomal dominant; Vitreoretinopa

thy with phalangeal epiphyseal dysplasia (3)

Table S3: Monogenic disease-cau

Approved symbol	MIM number
NADK2	615787
PSEN1	104311
GDF5	601146
BLNK	604515
LRRC8A	608360
PIK3R1	171833
KIF7	611254
AHSG	138680
B2M	109700
IL31RA	609510
STEAP3	609671
BMS1	611448
ERGIC1	617946
NEK9	609798
PCNA	176740
CASP8	601763
CEP290	610142
WDPCP	613580
ABCD3	170995
PRKACG	176893
EPHB2	600997
BHLHA9	615416
IL17F	606496
TRAF3IP2	607043
IARS2	612801
ERCC2	126340
SEMA3E	608166
SAMHD1	606754
PAX6	607108
DHDDS	608172
COG2	606974
DDOST	602202
ALG13	300776
SEC23B	610512
IFT43	614068
WDR19	608151
ATR	601215
FBLN5	604580
RPL26	603704
RPL15	604174
TSR2	300945
RPL27	607526
RPS27	603702

RPL18	604179
RPS15A	603674
ACD	609377
DEAF1	602635
ACTB	102630
KDF1	616758
CST6	601891
KRT74	608248
PLEC	601282
LMNB2	150341
ST3GAL3	606494
GUF1	617064
ZNF408	616454
SPECC1L	614140
NLRC4	606831
RAD51	179617
XRCC2	600375
MAD2L2	604094
RFWD3	614151
SLC52A3	613350
FLNA	300017
SOS1	182530
NUP133	607613
TXNRD2	606448
ITGA2	192974
NCF4	601488
IGF2	147470
HOXA13	142959
ATP11C	300516
AP3D1	607246
BLOC1S6	604310
BCO1	605748
EPHX1	132810
DSC3	600271
UNC119	604011
TNFRSF4	600315
LCK	153390
CD247	186780
BCL10	603517
IRF7	605047
IFNAR2	602376
RELB	604758
HYOU1	601746
SH3KBP1	300374
ARHGEF1	601855

IL21	605384
IRF2BP2	615332
GLS	138280
ADAM17	603639
EGFR	131550
TMEM107	616183
LRP1	107770
IGSF3	603491
PNPLA6	603197
ERBB3	190151
SCNN1A	600228
CAV1	601047
CIDEC	612120
PIEZO2	613629
B9D2	611951
TCTN2	613846
B9D1	614144
CENPE	117143
NDE1	609449
OPA1	605290
TFAM	600438
HYAL1	607071
RAD21	606462
NOTCH3	600276
COL6A2	120240
DST	113810
GFI1	600871
MBTPS2	300294
DLX4	601911
IFT57	606621
PLEKHM1	611466
VDR	601769
PAX1	167411
EYA1	601653
TRPV3	607066
CHST8	610190
ERMARD	615532
PEX3	603164
PEX11B	603867
PCK1	614168
PSAT1	610936
FIG4	609390
KISS1R	604161
FANCM	609644
TK2	188250

TOP3A	601243
PSMB4	602177
PSMB9	177045
CLPX	615611
CHRM3	118494
LBR	600024
TMEM67	609884
CENPJ	609279
WNT4	603490
ADA2	607575
APC2	612034
RIPPLY2	609891
SIK3	614776
MPIG6B	606520
TBXAS1	274180
DACT1	607861
RNF113A	300951
UROC1	613012
ARNT2	606036
LTBP2	602091
EVC	604831
MMP14	600754
WIPF1	602357
CD207	604862
MC1R	155555
TTR	176300
EPOR	133171
EDAR	604095
HEXA	606869
LPL	609708
PAH	612349
IL21R	605383
SHPK	605060
HERC2	605837
OCA2	611409
TYR	606933
SLC24A5	609802
SLC45A2	606202
KITLG	184745
TYRP1	115501
TERC	602322
COPA	601924
FAS	134637
TP53	191170
COL1A1	120150

MBL2	154545
TERT	187270
MMP1	120353
BMP2	112261
APOA2	107670
HS6ST1	604846
SEMA3A	603961
CDKN2A	600160
CDK4	123829
HFE	613609
MC4R	155541
COL1A2	120160
XYLT1	608124
XYLT2	608125
MYH6	160710
IFNG	147570
CCND1	168461
CYP17A1	609300
MCCC2	609014
SERAC1	614725
CLPB	616254
HTRA2	606441
MASP1	600521
OPLAH	614243
FGD1	300546
EDNRB	131244
TWIST2	607556
AAAS	605378
COL2A1	120140
NCSTN	605254
PSENEN	607632
SLC39A4	607059
ATP2A2	108740
BMPR1B	603248
ARHGAP31	610911
DOCK6	614194
RBPJ	147183
EOGT	614789
NOTCH1	190198
DLL4	605185
APRT	102600
PKLR	609712
SMARCAD1	612761
CYP11B1	610613
HSD3B2	613890

NR0B1	300473
TBX19	604614
ABCD1	300371
TP63	603273
FGA	134820
FGB	134830
FGG	134850
IGHM	147020
IGLL1	146770
CD79A	112205
CD79B	147245
TCF3	147141
ATIC	601731
TREX1	606609
RNASEH2B	610326
RNASEH2C	610330
RNASEH2A	606034
ADAR	146920
IFIH1	606951
CDK10	603464
DCPS	610534
GMPPA	615495
JAG1	601920
NOTCH2	600275
LARP7	612026
LRMDA	614537
ALDH2	100650
HGD	607474
SLC16A2	300095
HR	602302
SERPINF2	613168
ACAT1	607809
AMACR	604489
RAG1	179615
COL4A5	303630
COL4A3	120070
COL4A4	120131
ALMS1	606844
FOXF1	601089
LAMB3	150310
ITGB6	147558
DLX3	600525
APOA1	107680
GSN	137350
OSMR	601743

GPNMB	604368
LYZ	153450
SETX	608465
SEPTIN9	604061
RMRP	157660
KCNJ2	600681
ALAS2	301300
GLRX5	609588
HSPA9	600548
GATA1	305371
UBE3A	601623
F12	610619
SERPING1	606860
POR	124015
FGFR2	176943
FGF10	602115
NBN	602667
CYP19A1	107910
DSC2	125645
DSP	125647
ENPP1	173335
ABCC6	603234
VPS33B	608552
VIPAS39	613401
PRPS1	311850
AGA	613228
RPSA	150370
TBX21	604895
TTPA	600415
SAMD9L	611170
MRE11	600814
ATM	607585
FLVCR1	609144
FLNB	603381
SLC26A2	606718
TF	190000
HNRNPK	600712
GNAI3	139370
PLCB4	600810
EDN1	131240
STAT3	102582
ZAP70	176947
ITCH	606409
FASLG	134638
CASP10	601762

PRKCD	176977
CTLA4	123890
AIRE	607358
NLRP1	606636
PLCG2	600220
OTULIN	615712
TNFAIP3	191163
PITX2	601542
FOXC1	601090
MAF	177075
CARD11	607210
SYT1	185605
RECQL4	603780
FOXE1	602617
TAP1	170260
TAPBP	601962
TAP2	170261
CIITA	600005
RFX5	601863
RFXAP	601861
TAZ	300394
CLCNKB	602023
PTCH1	601309
PTCH2	603673
SUFU	607035
CFH	134370
MED25	610197
THOC6	615403
GP1BA	606672
GP1BB	138720
GP9	173515
COL12A1	120320
HSD3B7	607764
AKR1D1	604741
CYP7B1	603711
BTD	609019
FLCN	607273
BCS1L	603647
NOD2	605956
GP6	605546
ITGA2B	607759
ITGB3	173470
GFI1B	604383
SLFN14	614958
FLI1	193067

P2RY12	600515
CDH1	192090
CTNND1	601045
BLM	604610
ASXL1	612990
ERCC6L2	615667
DNAJC21	617048
MYSM1	612176
RLBP1	180090
NFIA	600727
TFAP2A	107580
SIX1	601205
ZNF469	612078
PRDM5	614161
SCNN1B	600760
SCNN1G	600761
CYLD	605018
SLC52A2	607882
FKBP10	607063
PLOD2	601865
MAOA	309850
TXNL4A	611595
LEMD3	607844
CD96	606037
C1QA	120550
C1QB	120570
C1QC	120575
C2	613927
C3	120700
C4A	120810
C8A	120950
C8B	120960
SOX9	608160
PRG4	604283
TGFB1	190180
CARD9	607212
CLEC7A	606264
IL17RC	610925
RASA1	139150
EPHB4	600011
CPN1	603103
MYRF	608329
TRAF7	606692
KRAS	190070
MAP2K1	176872

MAP2K2	601263
BRAF	164757
MAP3K7	602614
SLC25A20	613698
MEGF8	604267
RAB23	606144
TGDS	616146
RIC1	610354
FGFR3	134934
VANGL1	610132
KRIT1	604214
CD8A	186910
LRP4	604270
RYR1	180901
MAP3K20	609479
DNMT1	126375
EMC1	616846
MAB21L1	601280
SLC6A8	300036
SNAP29	604202
ERCC6	609413
ERCC5	133530
ERCC1	126380
STN1	613128
CTC1	613129
CYP27A1	606530
ABHD5	604780
RIPK4	605706
CHD7	608892
LYST	606897
SH3BP2	602104
NSDHL	300275
PIGL	605947
ERF	611888
ABCB11	603201
ATP8B1	602397
ABCB4	171060
TJP2	607709
NR1H4	603826
LIPA	613497
EBP	300205
ARSL	300180
PTH1R	168468
EXT1	608177
AFF4	604417

VPS13A	605978
NKX2-1	600635
PRPH2	179605
CYBC1	NA
NCF1	608512
NCF2	608515
CYBA	608508
CYBB	300481
NLRP3	606416
KRT18	148070
KRT8	148060
SLC25A13	603859
NECTIN1	600644
RUNX2	600211
CC2D2A	612013
RPGRIP1L	610937
ERCC8	609412
PDSS1	607429
RPS6KA3	300075
ARID1B	614556
SOX4	184430
SMARCD1	601735
ARID1A	603024
SMARCB1	601607
SMARCA4	603254
SMARCE1	603111
ARID2	609539
DPF2	601671
SMARCC2	601734
SOX11	600898
VPS13B	607817
EED	605984
CRLF1	604237
KLHL7	611119
RAG2	179616
SLC25A1	190315
LMAN1	601567
MTHFD1	172460
IL2RG	308380
MRPS16	609204
GTPBP3	608536
MRPS22	605810
PSAP	176801
MITF	156845
CFD	134350

CFI	217030
CD55	125240
DSTYK	612666
GLE1	603371
NALCN	611549
NGLY1	610661
FUT8	602589
PMM2	601785
MPI	154550
MAGT1	300715
DPM1	603503
MPDU1	604041
ALG12	607144
MOGS	601336
SLC35C1	605881
COG7	606978
SLC35A1	605634
COG1	606973
COG4	606976
COG6	606977
SLC39A8	608732
CCDC115	613734
DPAGT1	191350
ALG1	605907
ALG9	606941
DOLK	610746
ALG11	613666
SRD5A3	611715
PGM1	171900
DPM2	603564
PRKD1	605435
ABL1	189980
TAB2	605101
ATN1	607462
NKX2-6	611770
NKX2-5	600584
MYH3	160720
CPOX	612732
TCF4	602272
ZEB1	189909
GRHL2	608576
NIPBL	608667
SMC1A	300040
SMC3	606062
HDAC8	300269

CNTNAP2	604569
TUBB	191130
H6PD	138090
HSD11B1	600713
HRAS	190020
TBX15	604127
PTEN	601728
PIK3CA	171834
IFT122	606045
WDR35	613602
TMCO1	614123
EFNB1	300035
SEC23A	610511
HPGD	601688
SLC4A1	109270
GLI2	165230
MNX1	142994
ALDH18A1	138250
ELN	130160
EFEMP2	604633
LTBP4	604710
ATP6V0A2	611716
PYCR1	179035
ATP6V1E1	108746
ATP6V1A	607027
HBG2	142250
CTNS	606272
SLC3A1	104614
SLC7A9	604144
FGF3	164950
ATP6V1B2	606939
KCNN4	602754
PIEZO1	611184
MPZ	159440
PMP22	601097
HBB	141900
OCRL	300535
LTBP3	602090
PDGFB	190040
KRT14	148066
DHCR24	606418
UGP2	191760
DPH1	603527
PHIP	612870
KCNJ11	600937

RPS28	603685
RPS19	603474
RPS26	603701
RPS29	603633
RPS24	602412
RPS17	180472
RPL35A	180468
RPL5	603634
RPL11	604175
RPS7	603658
RPS10	603632
MTAP	156540
PLVAP	607647
SPINT2	605124
EPCAM	185535
SLC9A3	182307
TBC1D24	613577
KRT5	148040
POFUT1	607491
POGLUT1	615618
MAFB	608968
SALL4	607343
ABCC2	601107
G6PC3	611045
SASH1	607955
ABCB6	605452
CDAN1	607465
CDIN1	NA
KLF1	600599
TINF2	604319
RTEL1	608833
NOP10	606471
NHP2	606470
WRAP53	612661
PARN	604212
DKC1	300126
PLG	173350
F2	176930
HSPG2	142461
COL6A3	120250
COL7A1	120120
EDA	300451
EDARADD	606603
GJB6	604418
MSX1	142983

KRT85	602767
HOXC13	142976
IKBKG	300248
NFKBIA	164008
RHOA	165390
NECTIN4	609607
CDH3	114021
PKP1	601975
COL5A1	120215
COL5A2	120190
TNXB	600985
AEBP1	602981
ADAMTS2	604539
PLOD1	153454
FKBP14	614505
CHST14	608429
DSE	605942
C1R	613785
C1S	120580
B4GALT7	604327
B3GALT6	615291
SLC39A13	608735
COL3A1	120180
EPB41	130500
SPTA1	182860
EVC2	607261
CDH11	600023
GATA2	137295
SERPINA1	107400
FGFR1	136350
MECP2	300005
TBCD	604649
NAXD	615910
NAXE	608862
TBCE	604934
CIB1	602293
TMC6	605828
ITGB4	147557
KLHL24	611295
LAMA3	600805
LAMC2	150292
COL17A1	113811
ITGA6	147556
EXPH5	612878
KRT1	139350

KRT10	148080
SPATA5	613940
CSTB	601145
NPR2	108961
SCN10A	604427
SCN11A	604385
SCN9A	603415
VHL	608537
BPGM	613896
DSG1	125670
GJB3	603324
GJB4	605425
GJA1	121014
KDSR	136440
KRT83	602765
PERP	609301
TRPM4	606936
CHRNA1	100730
FUS	137070
ESR1	133430
ETHE1	608451
COX4I2	607976
EXT2	608210
LRP5	603506
CTNNA1	116806
GLA	300644
MCFD2	607788
NLRP12	609648
MEFV	608107
FANCA	607139
FANCB	300515
FANCC	613899
BRCA2	600185
FANCD2	613984
FANCE	613976
FANCI	611360
FANCL	608111
RAD51C	602774
SLX4	613278
ERCC4	133520
BRCA1	113705
UBE2T	610538
SLC2A2	138160
ASAH1	613468
COL11A2	120290

ACVR1	102576
REST	600571
CKAP2L	616174
POLE	174762
NHLRC2	618277
LCAT	606967
SRCAP	611421
PORCN	300651
CYP26C1	608428
SLC46A1	611672
SLC25A24	608744
SH3PXD2B	613293
FRAS1	607830
ALDOB	612724
FBP1	611570
FUCA1	612280
FH	136850
YY1	600013
GALK1	604313
GALE	606953
GALT	606999
CTSA	613111
WDR73	616144
LAGE3	300060
OSGEP	610107
TP53RK	608679
TPRKB	608680
WDR4	605924
NUP107	607617
ANTXR1	606410
APC	611731
TTC7A	609332
SDHB	185470
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TALDO1	602063
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TCOF1	606847

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GTF2E2	189964
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POLH	603968
TELO2	611140
KCNN3	602983
SLC30A2	609617
SON	182465

sing genes screened in atopic dermatitis cases in the U.I

Gene symbols

NADK2, C5orf33, DECRD
PSEN1, AD3, ACNINV3
GDF5, CDMP1, SYNS2, OS5, BDA1C, SYM1B
BLNK, SLP65, AGM4
LRRC8A, KIAA1437, AGM5
PIK3R1, GRB1, AGM7, SHORT, IMD36
KIF7, HLS2, ACLS, JBTS12, AGBK
AHSG, APMR1
B2M, IMD43
IL31RA, GLMR, GPL, PLCA2
STEAP3, TSAP6, AHMIO2
BMS1, BMS1L, KIAA0187, ACC
ERGIC1, ERGIC32, KIAA1181, AMCN
NEK9, NERCC1, LCCS10, APUG, NC
PCNA, ATLD2
CASP8, MCH5, ALPS2B
CEP290, KIAA0373, 3H11AG, JBTS5, SLSN6, LCA10, BBS
WDPCP, C2orf86, BBS15, CHDTHP
ABCD3, PXMP1, PMP70, CBAS5
PRKACG, BDPLT19
EPHB2, EPHT3, DRT, ERK, PCBC, CAPB, BDPLT22
BHLHA9, BHLHF42, MSSD, CCSPD
IL17F, ML1, CANDF6
TRAF3IP2, C6orf5, ACT1, CIKS, C6orf4, C6orf6, PSORS13
IARS2, CAGSSS
ERCC2, EM9, XPD, COFS2, TTD1
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SAMHD1, AGS5, DCIP, CHBL2
PAX6, AN2, MGDA, FVH1, ASGD5
DHDDS, HDS, RP59, DEDSM
COG2, LDLC, CDG2Q
DDOST, OST, OST48, CDG1R
ALG13, GLT28D1, CDG1S, EIEE36
SEC23B, CDAN2, HEMPAS, CWS7
IFT43, C14orf179, CED3, SRTD18, RP81
WDR19, SRTD5, ATD5, NPHP13, CED4
ATR, FRP1, SCKL1, FCTCS
FBLN5, ARMD3, ADCL2, ARCL1A, HNARMMD
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DEAF1, SPN, ZMYND5, MRD24
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FLNA, FLN1, NHBP, OPD1, OPD2, FMD, MNS, CVD1, CSB
SOS1, GINGF, GF1, HGF, NS4
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ITGA2, CD49B, BR, BDPLT9
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DSC3, DSC4
UNC119, HRG4, IMD13
TNFRSF4, TXGP1L, OX40, ACT35, IMD16
LCK, IMD22
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BCL10, IMD37
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B9D2, MKS10, JBTS34
TCTN2, TECT2, MKS8, JBTS24
B9D1, MKSR1, MKS9, JBTS27
CENPE, MCPH13
NDE1, NUDE, LIS4, MHAC
OPA1, NTG, NPG, BERHS, MTDPS14
TFAM, TCF6L2, TCF6L1, TCF6L3, MTTF1, TCF6, MTDPS1
HYAL1, MPS9
RAD21, SCC1, NXP1, KIAA0078, CDLS4, MGS
NOTCH3, CADASIL1, CASIL, IMF2, LMNS
COL6A2, BTHLM1, UCMD1
DST, BPAG1, DMH, D6S1101, HSAN6, EBSB2
GFI1, ZNF163, SCN2
MBTPS2, S2P, IFAP, KFSDX, OLMSX, OI19
DLX4, DLX7, DLX8, OFC15
IFT57, ESRRBL1, HIPPI, OFD18
PLEKHM1, AP162, KIAA0356, OPTB6, OPTA3
VDR
PAX1, OFC2
EYA1, BOR, BOS1, OFC1
TRPV3, OLMS, FNEPPK2
CHST8, GALNAC4ST1, PSS3
ERMARD, C6orf70, PVNH6
PEX3, PBD10A, PBD10B
PEX11B, PEX14B
PCK1, PCKDC
PSAT1, PSAT, EPIP, PSATD, NLS2
FIG4, KIAA0274, SAC3, ALS11, YVS, BTOP
KISS1R, GPR54, HH8, CPPB1
FANCM, KIAA1596, SPGF28, POF15
TK2, MTDPS2, PEOB3

TOP3A, MGRISCE2, PEOB5
PSMB4, PRAAS3
PSMB9, LMP2, RING12, PRAAS3
CLPX, EPP2
CHRM3, PBS, EGBRS
LBR, PHA, PHASK
TMEM67, MKS3, JBTS6, NPHP11
CENPJ, CPAP, MCPH6, SCKL4
WNT4, SERKAL
ADA2, CECR1, VAIHS, SNEDS
APC2, APCL, SOTOS3
RIPPLY2, C6orf59, SCDO6
SIK3, KIAA0999, SEMDK
G6B, C6orf25, THAMY
TBXAS1, GHOSAL, CYP5, BDPLT14
DACT1, DPR1, DAPPER1, FRODO, TBS2
RNF113A, ZNF183, TTD5
UROC1, UROCD
ARNT2, WEDAS
LTBP2, LTBP3, GLC3D, MSPKA, WMS3
EVC
MMP14, WNCHRS
WIPF1, WASPIP, WIP, WAS2
CD207, LANGERIN, CLEC4K
MC1R, SHEP2, CMM5
TTR, PALB
EPOR
EDAR, DL, ED3, EDA3, HRM1, ECTD10A, ECTD10B
HEXA, TSD
LPL, LIPD, HDLCQ11
PAH, PKU1
IL21R, IMD56
SHPK, CARKL
HERC2, SHEP1, MRT38
OCA2, P, PED, D15S12, BOCA, EYCL3, HCL3, SHEP1
TYR, SHEP3, CMM8, OCA1A, ATN
SLC24A5, NCKX5, SHEP4, OCA6
SLC45A2, MATP, AIM1, SHEP5, OCA4
KITLG, MGF, SF, SCF, SHEP7, FPHH, DCUA, DFNA69
TYRP1, CAS2, GP75, SHEP11
TERC, TRC3, TR, DKCA1, PFBMFT2
COPA, AILJK
FAS, TNFRSF6, APT1, CD95, ALPS1A
TP53, P53, LFS1, BCC7, BMFS5
COL1A1, OI1, OI2, OI3, OI4, EDSARTH1

MBL2, MBL, MBP1, MBL2D, MBPD
TERT, TCS1, EST2, DKCA2, DKCB4, PFBMFT1, CMM9
MMP1, CLG
BMP2, BMP2A, BDA2, SSFSC
APOA2
HS6ST1, HS6ST, HH15
SEMA3A, SEMAD, COLL1, HH16
CDKN2A, MTS1, P16, MLM, CMM2
CDK4, CMM3
HFE, HLA-H, HFE1, MVCD7, TFQTL2
MC4R, BMIQ20
COL1A2, EDSCV, EDSARTH2
XYLT1, XT1, DBQD2
XYLT2, XT2, SOS
MYH6, ASD3, MYHCA, CMD1EE, CMH14, SSS3
IFNG, IFG, IFI
CCND1, PRAD1, BCL1
CYP17A1, CYP17, P450C17
MCCC2, MCCB
SERAC1, MEGDEL
CLPB, SKD3, MEGCANN, MGCA7
HTRA2, OMI, PARK13, PRSS25, MGCA8
MASP1, CRARF, 3MC1
OPLAH, OPLAHD
FGD1, FGDY, AAS, MRXS16
EDNRB, HSCR2, ABCDS, WS4A
TWIST2, Dermo1, SETLSS, FFDD3, BBRsay, AMS
AAAS, AAA
COL2A1
NCSTN
PSENEN, PEN2, ACNINV2
SLC39A4, ZIP4
ATP2A2, ATP2B, DAR
BMPR1B, ALK6, AMDD, BDA2, BDA1D
ARHGAP31, CDGAP, KIAA1204, AOS1
DOCK6, KIAA1395, AOS2
RBPJ, RBPSUH, IGKJRB1, AOS3
EOGT, EOGT1, C3orf64, AOS4
NOTCH1, TAN1, AOS5, AOVD1
DLL4, AOS6
APRT, APRTD
PKLR, PK1
SMARCA1, KIAA1122, ETL1, HEL1, ADERm, BASNS, HR
CYP11B1, P450C11, FHI
HSD3B2

NR0B1, DAX1, AHC, AHX, SRXY2
TBX19
ABCD1, ALD, AMN
TP63, TP73L, KET, EEC3, SHFM4, LMS, RHS, OFC8
FGA
FGB
FGG
IGHM, MU, AGM1
IGLL1, IGO, IGL5, VPREB2, AGM2
CD79A, IGA
CD79B, IGB, B29, AGM6
TCF3, E2A, AGM8
ATIC, PURH, AICAR
TREX1, AGS1, CRV, HERN5
RNASEH2B, DLEU8, FLJ11712, AGS2
RNASEH2C, AYP1, FLJ20974, AGS3
RNASEH2A, RNH1A, AGS4
ADAR, DRADA, DSH, DSRAD, IFI4, G1P1, AGS6
IFIH1, MDA5, AGS7, SGMRT1
CDK10, PISSLRE, ALSAS
DCPS, HINT5, DCS1, ARS
GMPPA, AAMR
JAG1, AGS1, AHD, DCHE
NOTCH2, AGS2, HJCYS
LARP7, PIP7S, ALAZS
LRMDA, C10orf11, OCA7
ALDH2
HGD, AKU
SLC16A2, DXS128, XPCT
HR, AU, MUHH1, HYPT4
PLI, SERPINF2
ACAT1
AMACR, CBAS4, AMACRD
RAG1
COL4A5, ATS1
COL4A3, ATS2, ATS3
COL4A4, ATS2, BFH
ALMS1, ALSS, KIAA0328
FOXF1, FKHL5, ACDMPV
LAMB3, AI1A
ITGB6, AI1H
DLX3, TDO, AI4
APOA1, HPALP2
GSN
OSMR, OSMRB, PLCA1

GPNMB, PLCA3
LYZ
SETX, SCAN2, AOA2, ALS4
SEPT9, MSF, MSF1, NAPB
RMRP, RMRPR, CHH
KCNJ2, HHIRK1, KIR2.1, IRK1, LQT7, SQT3, ATFB9
ALAS2, ANH1, ASB, XLEPP, XLSA, SIDBA1
GLRX5, C14orf87, PRO1238, FLB4739, PRSA, SIDBA3, S
HSPA9, HSPA9B, MOT2, GRP75, EVPLS, SIDBA4
GATA1, GF1, ERYF1, NFE1, XLTDA, XLTT, XLANP
UBE3A, ANCR
F12, HAF, HAE3
C1NH, HAE1, HAE2, SERPING1
POR
FGFR2, BEK, CFD1, JWS, TK14, BBDS
FGF10
NBN, NBS1
CYP19A1, CYP19, ARO
DSC2, DSC3, ARVD11
DSP, KPPS2, PPKS2, DCWHKTA
ENPP1, PDNP1, NPPS, M6S1, PCA1, ARHR2, COLED
ABCC6, ARA, ABC34, MLP1, PXE, GACI2
VPS33B
VIPAS39, VIPAR, SPE39, C14orf133
PRPS1, CMTX5, DFNX1, DFN2
AGA
RPSA, LAMR1, LAMBR, ICAS
TBX21, TBET
TTPA, TTP1, AVED
SAMD9L, ATXPC
MRE11A, MRE11, ATLD
ATM, ATA, AT1
FLVCR1, AXPC1, PCARP
FLNB, SCT, AOI, LRS1
SLC26A2, DTD, DTDST, D5S1708, EDM4
TF, TFQTL1
HNRNPK, HNRPK, AUKS
GNAI3, ARCND1
PLCB4, ARCND2
EDN1, ARCND3, QME, HDLCQ7
STAT3, APRF, HIES, ADMIO1
ZAP70, SRK, ADMIO2, IMD48
ITCH, AIP4, NAPP1, ADMFD
FASLG, TNFSF6, APT1LG1, FASL, ALPS1B
CASP10, MCH4, ALPS2

PRKCD, CVID9, ALPS3
CTLA4, IDDM12, CELIAC3, ALPS5
AIRE, APECED, APS1
NLRP1, NALP1, KIAA0926, DEFCAP, CARD7, SLEV1, VAM
PLCG2, FCAS3, APLAID
OTULIN, FAM105B, GUM, AIPDS
TNFAIP3, A20, OTUD7C, AISBL
PITX2, IDG2, RIEG1, RGS, IGDS2, ASGD4
FOXC1, FKHL7, FREAC3, IRID1, RIEG3, ASGD3
MAF, CCA4, CTRCT21, AYGRP
CARD11, CARMA1, BIMP3, PPBL, BENTA, IMD11A
SYT1, BAGOS
RECQL4, RTS, RECQ4
FOXE1, FKHL15, TITF2, TTF2, NMTC4
TAP1, ABCB2, RING4, PSF1
TAPBP, TPSN
TAP2, ABCB3, PSF2, RING11
CIITA, MHC2TA, C2TA
RFX5
RFXAP
TAZ, EFE2, BTHS, CMD3A, LVNCX
CLCNKB
PTCH1, NBCCS, BCNS, HPE7
PTCH2
SUFU, SUFUXL, SUFUH, JBTS32
CFH, HF1, HUS, ARMD4, AHUS1
MED25, PTOV2, ARC92, CMT2B2, BVSYS
THOC6, FSAP35, BBIS
GP1BA, BSS, BDPLT1, VWDP, BDPLT3
GP1BB, BS, BDPLT1
GP9
COL12A1, UCMD2, BTHLM2, EDSMYP
HSD3B7, CBAS1
AKR1D1, SRD5B1, CBAS2
CYP7B1, CBAS3, SPG5A
BTD
FLCN, BHD
BCS1L, FLNMS, GRACILE, BJS, PTD, MC3DN1
NOD2, CARD15, IBD1, CD, YAOS, BLAUS
GP6, GPIV, BDPLT11
ITGA2B, GP2B, CD41B, GT, BDPLT2, BDPLT16
ITGB3, GP3A, GT, BDPLT2, BDPLT16
GFI1B, BDPLT17
SLFN14, BDPLT20
FLI1, BDPLT21

P2RY12, P2Y12, BDPLT8
CDH1, UVO, LCAM, ECAD, BCDS1
CTNND1, CTNND, BCDS2
RECQL3, RECQ2, BLM, BS, MGRISCE1
ASXL1, KIAA0978, BOPS, MDS
ERCC6L2, RAD26L, BMFS2
DNAJC21, DNAJA5, BMFS3
MYSM1, 2ADUB, KIAA1915, BMFS4
RLBP1
NFIA, BRMUTD
TFAP2A, AP2TF, BOFS
SIX1, BOS3, DFNA23
ZNF469, KIAA1858, BCS1
PRDM5, BCS2
SCNN1B, BESC1, LIDLS1
SCNN1G, PHA1, BESC3, LDLS2
CYLD, CDMT, EAC, MFT1, KIAA0849, BRSS
SLC52A2, GPR172A, GPCR41, PAR1, FLJ11856, BVVLS2
FKBP10, FKBP65, OI11, BRKS1
PLOD2, LH2, TLH, BRKS2
MAOA, BRNRS
TXNL4A, DIM1, BMKS
LEMD3, MAN1
CD96, TACTILE
C1QA
C1QB
C1QC, C1QG
C2, ARMD14
C3, ARMD9, AHUS5
C4A, C4S, C4AD
C8A
C8B
SOX9, CMD1, SRA1
PRG4, CACP, MSF, SZP, HAPO
TGFB1, DPD1, CED, IBDIMDE
CARD9, CANDF2
CLEC7A, CLECSF12, DECTIN1, CANDF4
IL17RC, IL17RL, CANDF9
RASA1, GAP, CMAVM1, PKWS
EPHB4, HTK, MYK1, HFASD, CMAVM2, LMPHM7
CPN1, SCPN, CPN
MYRF, C11orf9, KIAA0954, MMERV, CUGS
TRAF7, RFWD1, CAFDADD
KRAS, KRAS2, RASK2, NS, CFC2, RALD, OES
MAP2K1, PRKMK1, MKK1, MEK1, CFC3

MAP2K2, PRKMK2, MEK2, MKK2, CFC4
BRAF, NS7
MAP3K7, TAK1, CSCF, FMD2
SLC25A20, CACT, CAC
MEGF8, EGFL4, CRPT2
RAB23
TGDS, SDR2E1, CATMANS
CIP150, KIAA1432
FGFR3, ACH
VANGL1, STBM2
CCM1, CAM, KRIT1
CD8A
LRP4, MEGF7, CLSS, SOST2, CMS17
RYR1, MHS, CCO
ZAK, MLTK, MRK, SFMMP, CNM6
DNMT1, MCMT, HSN1E, ADCADN
EMC1, KIAA0090, CAVIPMR
MAB21L1, COFG
SLC6A8, CRTR, CCDS1
SNAP29, CEDNIK
ERCC6, CKN2, COFS1, CSB, ARMD5, UVSS1, POF11
ERCC5, XPG, COFS3
ERCC1, UV20, COFS4
STN1, OBFC1, AAF44
CTC1, CRMCC, C17orf68, AAF132
CYP27A1, CYP27, CTX
ABHD5, CGI58, IECN2, NCIE2
RIPK4, NKRD3, DIK, PPS2, CHANDS
CHD7, HH5
LYST, CHS1
SH3BP2, CRPM
NSDHL
PIGL, CHIME
ERF, PE2, CRS4, CHYTS
ABCB11, BSEP, SPGP, PFIC2, BRIC2
ATP8B1, FIC1, BRIC, PFIC1, ICP1
ABCB4, PGY3, MDR3, ICP3
TJP2, ZO2, PFIC4
NR1H4, FXR, RIP14, PFIC5
LIPA, CESD
EBP, CDPX2, CPXD, CPX, MEND
ARSE, CDPX1, CDPXR
PTH1R, PTHR1, PTHR, PFE, EKNS
EXT1
AFF4, AF5Q31, CHOPS

VPS13A, CHAC
NKX2-1, TITF1, NKX2A, TTF1, NMTC1
PRPH2, DS, RP7, PRPH, AVMD, AOFMD, CACD2, MDBS1
NA
NCF1
NCF2
CYBA
CYBB, CGD, AMCBX2, IMD34
NLRP3, CIAS1, FCU, FCAS1, NALP3, PYPAF1, DFNA34,
KRT18
KRT8
SLC25A13, CTLN2, NICCD
NECTIN1, PVRL1, HVEC, PVRR1, PRR1, ED4, OFC7, CLP
RUNX2, CBFA1, PEBP2A1, AML3, CCD, CLCD
CC2D2A, KIAA1345, MKS6
RPGRIP1L, KIAA1005, JBTS7, MKS5
ERCC8, CKN1, CSA, UVSS2
PDSS1, TPT, COQ1, COQ10D2
RPS6KA3, RSK2, MRX19
ARID1B, BAF250B, KIAA1235, MRD12, CSS1
SOX4, CSS10
SMARCD1, BAF60A
ARID1A, C1orf4, B120, SMARCF1, MRD14, CSS2
SMARCB1, SNF5, INI1, RDT, RTPS1, MRD15, SWNTS1, C
SMARCA4, BRG1, RTPS2, MRD16, CSS4
SMARCE1, BAF57, CSS5
ARID2, BAF200, KIAA1557, CSS6
DPF2, REQ, UBID4, CSS7
SMARCC2, BAF170, CSS8
SOX11, MRD27, CSS9
VPS13B, KIAA0532, COH1
EED, WAIT1, COGIS
CRLF1, CISS1
KLHL7, RP42, CISS3
RAG2
SLC25A1, SLC20A3, CTP, D2L2AD, CMS23
LMAN1, ERGIC53, F5F8D, MCFD1
MTHFD1, MTHFC, CIMAH
IL2RG, SCIDX1, SCIDX, IMD4
MRPS16, COXPD2
GTPBP3, MSS1, COXPD23
MRPS22, C3orf5, COXPD5, ODG7
PSAP, SAP1
MITF, WS2A, CMM8, COMMAD
CFD, ADN

CFI, FI, AHUS3, ARMD13
CD55, DAF, CROM, CHAPLE
DSTYK, KIAA0472, RIP5, DUSTYK, CAKUT1, SPG23
GLE1, GLE1L, LCCS, LCCS1, CAAHD
NALCN, IHPRF1, CLIFAHDD
NGLY1, PNG1, CDDG, CDG1V
FUT8, CDGF1
PMM2, CDG1A
MPI, PMI1, CDG1B
MAGT1, IAP, XMEN, CDG1CC
DPM1, MPDS, CDGIE
MPDU1, SL15, CDGIF
ALG12, CDG1G
MOGS, GCS1, CDG2B
SLC35C1, FUCT1, CDG2C
COG7, CDG2E
SLC35A1, CST, CDG2F
COG1, LDLB, KIAA1381, CDG2G
COG4, COD1, CDG2J, SWILS
COG6, COD2, KIAA1134, CDG2L, SHNS
SLC39A8, BIGM103, CDG2N
CCDC115, CCP1, CDG2O
DPAGT1, DPAGT2, DGPT, CDG1J, CMSTA2, CMS13
ALG1, HMAT1, HMT1, CDG1K
ALG9, DIBD1, CDG1L, GIKANIS
DOLK, TMEM15, DK1, SEC59, KIAA1094, CDG1M
ALG11, KIAA1266, CDG1P
SRD5A3, SRD5A2L, CDG1Q, KRIZI
PGM1, GSD14, CDG1T
DPM2, CDG1U
PRKD1, PRKCM, PKD, CHDED
ABL1, CHDSKM
TAB2, MAP3K7IP2, KIAA0733, CHTD2
ATN1, DRPLA, HRS, NOD, CHEDDA
NKX2-6, CSX2, CTHM
NKX2-5, NKX2E, CSX, CHNG5, VSD3, HLHS2
MYH3, DA2A, DA2B3, DA8, CPSKF1A, CPSKF1B
CPOX
TCF4, SEF2, ITF2, PTHS, FECD3
ZEB1, TCF8, NIL2A, PPCD3, FECD6
GRHL2, TFCP2L3, DFNA28, ECTDS, PPCD4
NIPBL, CDLS1
SMC1A, SMC1L1, SMC1, DXS423E, KIAA0178, CDLS2
SMC3, CSPG6, HCAP, BAM, CDLS3
HDAC8, MRXS6, CDLS5

CNTNAP2, CASPR2, NRXN4, CDFE, AUTS15, PTHSL1
TUBB, TUBB5, M40, CDCBM6, CSCSC1
H6PD, GDH, G6PDH, CORTRD1
HSD11B1, HSD11, HSD11L, CORTRD2
HRAS
TBX15
PTEN, MMAC1, GLM2, CWS1
PIK3CA, CLOVE, MCAP, MCM, MCMTC, CWS5, CLAPO
IFT122, WDR10, CED1
WDR35, NAOFEN, KIAA1336, CED2, SRTD7
TMCO1, CFSMR
EFNB1, EPLG2, CFNS, CFND
SEC23A, CLSD
HPGD, PGDH1, PHOAR1
SLC4A1, AE1, EPB3, SPH4, SAO, CHC
GLI2, HPE9, CJS
MNX1, HLXB9, HOXHB9, SCRA1
ALDH18A1, PYCS, GSAS, ARCL3A, SPG9A, SPG9B, ADCI
ELN, SVAS, ADCL1
EFEMP2, FBLN4, UPH1, ARCL1B
LTBP4, LTBP4S, LTBP4L, ARCL1C
ATP6V0A2, WSS, ARCL2A
PYCR1, PRO3, ARCL2B, ARCL3B
ATP6V1E1, ATP6E, ARCL2C
ATP6V1A, HO68, ARCL2D, IECEE3
HBG2, TNCY
CTNS
SLC3A1, ATR1, D2H, NBAT
SLC7A9, CSNU3
FGF3, INT2
ATP6V1B2, ATP6B2, VPP3, DOOD, ZLS2
KCNN4, KCA4, SK4, DHS2
PIEZO1, FAM38A, MIB, DHS, LMPHM6
MPZ, CMT1B, CMTDID, DSS, CHN2
PMP22, CMT1A, CMT1E, DSS, CIDP
HBB, ECYT6
OCRL, LOCR, OCRL1, NPHL2
LTBP3, LTBP2, DASS, GPHYSD3
PDGFB, SIS, IBGC5
KRT14
DHCR24, KIAA0018
UGP2, UGPP2
DPH1, DPH2L1, OVCA1, DEDSSH
PHIP, DIDOD
KCNJ11, BIR, PHHI, HHF2, TNDM3, MODY13

RPS28, DBA15
RPS19, DBA, DBA1
RPS26, DBA10
RPS29, DBA13
RPS24, DBA3
RPS17, RPS17L1, RPS17L2, DBA4
RPL35A, DBA5
RPL5, DBA6
RPL11, DBA7
RPS7, DBA8
RPS10, DBA9
MTAP, DMSMFH
PLVAP, PV1, DIAR10
SPINT2, HAI2, DIAR3
EPCAM, ACSTD1, TROP1, M4S1, MIC18, DIAR5, HNPCC8
SLC9A3, NHE3, DIAR8
TBC1D24, KIAA1171, FIME, EIEE16, DOORS, DFNB86, D
KRT5, DDD1
POFUT1, OFUCT1, KIAA0180, DDD2
POGLUT1, CLP46, KTELC1, RUMI, C3orf9, DDD4, LGMDR
MAFB, KRML, MCTO, DURS3
SALL4, HSAL4
ABCC2, CMOAT
G6PC3, UGRP, SCN4
SASH1, KIAA0790, CAPOK, DUH1
ABCB6, MTABC3, MCOPCB7, LAN, DUH3, PSHK2
CDAN1, CDA1, CDAN1A
NA
KLF1, EKLF, INLU, HBFQTL6, CDAN4
TINF2, TIN2, DKCA3
RTEL1, C20orf41, NHL, KIAA1088, DKCB5, DKCA4, PFBM
NOLA3, NOP10, DKCB1
NOLA2, NHP2, DKCB2
WRAP53, TCAB1, WDR79, DKCB3
PARN, DAN, DKCB6, PFBMFT4
DKC1, DKCX
PLG
F2, THPH1, RPRGL2
HSPG2, PLC, SJS, SJA, SJS1
COL6A3, DYT27, BTHLM1, UCMD1
COL7A1, NDNC8
EDA, ED1, ECTD1, HED1, STHAGX1
EDARADD, ED3, EDA3, ECTD11B, ECTD11A
GJB6, CX30, DFNA3B, DFNB1B, ECTD2, HED2
MSX1, HOX7, HYD1, OFC5, STHAG1, ECTD3

KRT85, KRTHB5, HB5, ECTD4
HOXC13, HOX3G, ECTD9
IKBKG, NEMO, FIP3, IP, IPD2, AMCBX1, IMD33, EDAID1
NFKBIA, IKBA, EDAID2
RHOA, ARHA, ARH12, RHOH12
NECTIN 4, PVRL4, PRR4, EDSS1
CDH3, CDHP, PCAD, HJMD
PKP1
COL5A1, EDSCL1
COL5A2, EDSCL2
TNXB, TNX, TNXB1, TNXBS, TNXB2, EDSCLL1, VUR8
AEBP1, ACLP
ADAMTS2, NPI, ESDERMS
PLOD1, LH1, LLH, EDSKCL1
FKBP14, EDSKSCL2
CHST14, D4ST1, ATCS, EDSMC1
DSE, SART2, EDSMC2
C1R, EDSPD1
C1S, EDSPD2
B4GALT7, XGALT1, XGPT1, EDSSPD1
B3GALT6, SEMDJL1, EDSSPD2
SLC39A13, ZIP13, EDSSPD3
COL3A1, EDSVASC, PMGEDSV
EPB41, EL1
SPTA1, EL2, SPH3, HS3, HPP
EVC2, LBN, WAD
CDH11, CAD11, ESWS
GATA2, DCML, MONOMAC, IMD21
SERPINA1, PI, AAT
FGFR1, FLT2, OGD, KAL2, HH2, HRTFDS, ECCL
MECP2, RTT, PPMX, MRX16, MRX79, AUTSX3, MRXSL,
TBCD, PEBAT
NAXD, CARKD, PEBEL2
NAXE, APOA1BP, AIBP, PEBEL
TBCE, KCS, KCS1, HRD, PEAMO
CIB1, KIP
TMC6, EVER1, EV1
ITGB4
KLHL24, KRIP6, EBSSH
LAMA3, LOCS
LAMC2, LAMNB2, LAMB2T
COL17A1, BPAG2, ERED
ITGA6
EXPH5, SLAC2B, KIAA0624
KRT1, EPPK, NEPPK, EHK

KRT10, EHK, BCIE, BIE
SPATA5, SPAF, EHLMRS
CSTB, STFB, EPM1, PME, EPM1A, ULD
NPR2, ANPRB, AMDM, ECDM, SNSK
SCN10A, FEPS2
SCN11A, HSAN7, FEPS3
SCN9A, NENA, PN1, FEB3B, GEFSP7, SFNP, HSAN2D
VHL
BPGM, ECT8
DSG1, PPKS1, SPPK1, EPKHE
GJB3, CX31, DFNA2B, EKVP1
GJB4, CX30.3, EKVP2
GJA1, CX43, ODDD, SDTY3, ODOD, HSS, AVSD3, HLHS1
KDSR, FVT1, EKVP4
KRT83, KRTHB3, HB3, MNLIX, EKVP5
PERP
TRPM4, PFHB1B, EKVP6
CHRNA, ACHRG
FUS, TLS, ALS6, ETM4
ESR1, ESR, ESTRR
ETHE1, HSCO, D83198
COX4I2
EXT2, SSMS
LRP5, BMND1, LRP7, LR3, OPPG, VBCH2, OPTA1, EVR4,
CTNNB1, NEDSDV, EVR7
GLA
MCFD2, F5F8D2
NLRP12, NALP12, PYPAF7, RNO, FCAS2
MEFV, MEF, FMF
FANCA, FACA, FA1, FA, FAA
FANCB, FAAP95, FAAP90, FLJ34064
FANCC, FACC
BRCA2, FANCD1, BROVCA2, GLM3, PNCA2
FANCD2, FANCD, FACD, FAD
FANCE, FACE
FANCI, KIAA1794
PHF9, FANCL
RAD51C, FANCO, BROVCA3
SLX4, BTBD12, MUS312, KIAA1784, KIAA1987, FANCP
ERCC4, XPF, FANCO, XFEPS
BRCA1, PSCP, BROVCA1, PNCA4, FANCS
UBE2T, HSPC150, FANCT
SLC2A2, GLUT2
ASAH1, AC, SMAPME
COL11A2, DFNA13, DFNB53, FBCG2, OSMEDA, OSMEDB

ACVR1, ACVRLK2, ALK2, FOP
REST, NRSF, WT6, GINGF5, HGF5
CKAP2L, RADMIS
POLE, CRCS12, FILS, IMAGE1
NHLRC2, FINCA
LCAT
SRCAP, SWR1, KIAA0309, FLHS
PORCN, PORC, DHOF, FODH
CYP26C1, FFDD4
SLC46A1, HCP1, PCFT
SLC25A24, SCAMC1
SH3PXD2B, TKS4, KIAA1295, FTHS
FRAS1, FRASRS1
ALDOB
FBP1
FUCA1
FH, HLRCC, MCUL1, FMRD
YY1, GADEV5
GALK1
GALE
GALT
CTSA, PPGB, GSL, NGBE, GLB2
WDR73, HSPC264, GAMOS1
LAGE3, ITBA2, GAMOS2
OSGEP, FLJ20411, GAMOS3
TP53RK, PRPK, GAMOS4
TPRKB, GAMOS5
WDR4, MIGSB, GAMOS6
NUP107, NUP84, NPHS11, ODG6; GAMOS7
ANTXR1, TEM8, ATR, GAPO
APC, GS, FPC, BTPS2
TTC7A, TTC7, KIAA1140, MINAT, GIDID
SDHB, SDH2, SDHIP, PGL4
SDHC, PGL3
KIT, PBT, MASTC
GBA
DCC, MRMV1, HGPPS2
ADAMTSL2, KIAA0605, GPHYSD1
FBN1, MFS1, WMS2, SSKS, GPHYSD2, ACMICD, ECTOL1
KAT6B, MYST4, MORF, GTPTS
GORAB, SCYL1BP1, NTKLBP1, GO
SLC12A3, NCCT, TSC
SATB2, KIAA1034, GLSS
PAX2, PAPRS, FSGS7
GLML, GVM, VMGLOM

MRAP, FALP, C21orf61, GCCD2, FGD2
NNT, GCCD4
MC2R
NR3C1, GCR, GRL, GCRST
SLC2A1, GLUT1, HTLVR, DYT18, PED, GLUT1DS, EIG12,
FTCD
GLUL, GLNS
ETFA, GA2, MADD
ETFB, MADD
ETFDH, MADD
GSS, GSHS
G6PC, G6PT
SLC37A4, G6PT1
GAA
AGL, GDE
GBE1, GSD4, APBD
PHKG2, GSD9C
PRKAG2, WPWS, CMH6
PFKM, GSD7
ALDOA, GSD12
PHKA2, PHK, XLG, PYKL, GSD9A
PIGW, HPMRS5
PIGS, GPIBD18
PIGM
GLB1, MPS4B
ANO5, TMEM16E, GDD1, LGMDR12
DICER1, HERNA, KIAA0928, MNG1, RMSE2, GLOW
PPP2R3C, G5PR, GDRM, SPGF36
FAM111A, KIAA1895, KCS2, GCLEB
NBEAL2, KIAA0540, GPS, BDPLT4
GLI3, PAPA, PAPB
MYO5A, MYH12, GS1
RAB27A, RAM, GS2
MLPH
HESX1, RPX, CPHD5
GH1, GHN, IGHD1A, IGHD1B, IGHD2
STAT5B
GHR, GHIP
FTO, GDFD, BMIQ14
ATP2C1, BCPM, HHD
CTSC, CPPI, PALS, PLS, HMS, PDON1, JPD
IRX5, HMMS
USP7, HAUSP
PANK2, NBIA1, PKAN, HARP
SLC6A19, HND

PEX1, ZWS1, PBD1A, PBD1B, HMLR1
PEX6, PXAAA1, PAF2, PBD4A, PDB4B, HMLR2
HBA2, HBH, ECYT7
HBA1, HBH, METHBA, ECYT7
CLDN10, OSPL, CPETRL3, HELIX
ADNP, ADNP1, KIAA0784, HVDAS, MRD28
HJV, HFE2A
HAMP, LEAP1, HEPC, HFE2B
TFR2, HFE3
SLC40A1, SLC11A3, FPN1, IREG1, HFE4
GCLC, GLCLC
HK1, HKD, HMSNR, RP79, NEDVIBA
TPI1, TPID
G6PD, G6PD1
GPI
PRF1, HPLH2, FLH2
UNC13D, MUNC13-4, HPLH3, HLH3, FHL3
STX11, FHL4, HPLH4, HLH4
STXBP2, UNC18B, FHL5
CCBE1, KIAA1983, HKLLS1
FAT4, VMLDS2, HKLLS2
ADAMTS3, HKLLS3
LIPC, HL, LIPH, HDLCQ12
SP110, IFI41, IFI75, VODI
HPS1
AP3B1, ADTB3A, HPS2
HPS3
HPS4
HPS5, RU2, KIAA1017
HPS6, RU
DTNBP1, HPS7
BLOC1S3, BLOS3, HPS8
ZIC3, HTX1, HTX, VACTERLX
CFC1, CRYPTIC, HTX2
NODAL, HTX5
MMP21, HTX7
SLC29A3, ENT3, PHID, HCLAP
HMGCL
HLCS, HCS
CDON, CDO, HPE11
SIX3, HPE2
SHH, HPE3, HLP3, SMMCI, MCOPCB5
TGIF1, HPE4
ZIC2, HPE5
MTRR

CBS
C2orf25, MMADHC
LMNA, LMN1, EMD2, FPLD2, CMD1A, HGPS
ANTXR2, CMG2, HFS
ARX, ISSX, PRTS, MRXS1, MRX36, MRX54, MRX43, MRX
HYLS1, FLJ32915
MVK, MVLK, POROK3
ZNF341, HIES3
IL6ST, HIES4
DOCK8
CACNA1H, EIG6, ECA6, HALD4
UGT1A1, UGT1, GNT1, BILIQTL1
BAAT
APOA5
ABCC8, SUR, PHHI, SUR1, HHF1, TNDM2
SCN4A, HYPP, NAC1A, HOKPP2, CMS16
GPIHBP1, HYPL1D
SLC30A10, ZNT10, HMNDYT1
SLC25A15, ORNT1, HHH
AGXT, SPAT
GRHPR, GLXR
CDC73, HRPT2, C1orf28
CASR, HHC1, PCAR1, FIH, EIG8, HYPOC1
PTS
PIGV, HPMRS1
PIGO, HPMRS2
PGAP2, FRAG1, HPMRS3, MRT17, MRT21
PGAP3, PERLD1, CAB2, MGC9753, HPMRS4
PIGY, HPMRS6
INS, MODY10, IDDM2
TSHR, CHNG1
ABCC9, SUR2, CMD10, ATFB12, CANTU
GPD1, HTGTI
SLCO2A1, OATP2A1, PGT, SLC21A2, PHOAR2
UMOD, HNFJ1, FJHN, MCKD2, ADMCKD2
SEC61A1, SEC61, HNFJ4
GNA11, HHC2, HYPOC2
AP2S1, CLAPS2, AP17, HHC3
AKT2, HIHGGH
CLDN16, PCLN1, HOMG3
CLDN19, HOMG5
GATA3, HDR, HDRS
ALPL, HOPS, TNSALP
DMP1, ARHR, ARHP
PHEX, HYP, HPDR1, LXHR

CLCN7, CLC7, OPTA2, OPTB4, HOD
LSS, OSC, CTRCT44, HYPT14
CDSN, HTSS1, HYPT2, PSS1
DSG4, LAH, HYPT6
LIPH, LAH2, ARWH2, HYPT7
LPAR6, P2RY5, P2Y5, LAH3, ARWH1, HYPT8
SOX18, HLTS, HLTRS
KRT2, KRT2A, KRT2E
SLC27A4, FATP4, IPS
FLG, ATOD2
TGM1, ICR2, ARCI1
PNPLA1, ARCI10
ST14, MTSP1, ARCI11
CASP14, ARCI12
SDR9C7, SDRO, ARCI13
SULT2B1, ARCI14
ALOX12B, ARCI2
ALOXE3, ARCI3
ABCA12, ARCI4A, ARCI4B, ICR2B, LI2
CYP4F22, ARCI5, LI3
NIPAL4, ICHYN, ARCI6
LIPN, LIPL4, ARCI8, LI4
CERS3, LASS3, ARCI9
CLDN1, SEMP1, ILVASC
ELOVL4, ADMD, STGD2, STGD3, ISQMR, SCA34
STS, ARSC1, ARSC, SSDD, XLI
ELOVL1, SSC1, IKSHD
CDKN1C, KIP2, BWS, IMAGE
STIM1, TAM1, IMD10, STRMK
MALT1, MLT, IMD12
PIK3CD, APDS, IMD14
IKBKB, NFKB1KB, IMD15B, IMD15A
CD3G, IMD17
CD3E, IMD18
CD3D, T3D, IMD19
FCGR3A, CD16, IGFR3, IMD20
PGM3, AGM1, IMD23
CTPS1, CTPS, IMD24
PRKDC, HYRC1, DNPK1, IMD26
IFNGR1, IMD27A, IMD27B
IFNGR2, IFNGT1, IFGR2, IMD28
IL12B, NKSF2, IMD29
IL12RB1, IMD30
STAT1, CANDF7, IMD31A, IMD31B, IMD31C
IRF8, ICSBP1, IMD32A, IMD32B

TYK2, IMD35
ISG15, G1P2, IFI15, IMD38
DOCK2, IMD40
IL2RA, CD25, IL2R, IDDM10, IMD41
RORC, RORG, RZRG, IMD42
TFRC, TFR, CD71, IMD46
ATP6AP1, ATP6IP1, ATP6S1, VATPS1
BCL11B, CTIP2, IMD49, IDDFSTA
MSN, IMD50
IL17RA, IL17R, IMD51
LAT, IMD52
MCM4, NKGCD, NKCD, IMD54
GINS1, PSF1, KIAA0186, IMD55
RIPK1, RIP1, RIP, IMD57
CARMIL2, RLTPR, IMD58
BACH2, IMD60
IL2RB, IMD63
RASGRP1, IMD64
TRAC, TRCA, TRA, IMD7
IVNS1ABP, NS1BP, ND1
TPP2
CORO1A, TACO, CLIPINA, IMD8
IKZF3, ZNFN1A3, AIOLOS
ORAI1, TMEM142A, CRACM1, IMD9, TAM2
REL
LAMTOR2, MAPBPIP, p14
FCN3, HAKA1
PNP, NP
UNG, DGU, HIGM5
AICDA, AID, HIGM2
CD40, TNFRSF5
DNMT3B, ICF1
ZBTB24, PATZ2, ZNF450, KIAA0441, ICF2
CDCA7, JPO1, ICF3
HELLS, LSH, ICF4
ICOS, AILIM, CVID1
NFKB2, LYT10, CVID10
NFKB1, CVID12
IKZF1, ZNFN1A1, IK1, LYF1, CVID13
TNFRSF13B, TACI, CVID2
CD19, CVID3
TNFRSF13C, BAFFR, CVID4
MS4A1, CD20, CVID5
CD81, TAPA1, CVID6
CR2, C3DR, SLEB9, CVID7

LRBA, LBA, CDC4L, CVID8
NFE2L2, NRF2, IMDDHH
TNFSF5, CD40LG, HIGM1, IGM
FOXP3, IPEX, AIID, XPID, PIDX
EXTL3, EXTR1, ISDNA
ACO2, ICRD, OPA9
NBAS, NAG, SOPH, ILFS2
FADD
CRFB4, IBD25
IL10RA, IL10R, IBD28
NTRK1, TRKA, MTC
PPARG, PPARG1, PPARG2, CIMT1, GLM1
IL1RN, MVCD4, DIRA
ITGA3, CD49C, GAPB3, ILNEB
FAN1, MTMR15, KIAA1018, KMIN
GIF, IF
IRAK4, REN64, IPD1
TMPRSS6, IRIDA
IVD
RBBP8, RIM, SCKL2, JWDS
KCNQ1, KCNA9, LQT1, KVLQT1, ATFB3, SQT2
UBR1, JBS
INPP5E, MORMS, JBTS1, CORS1
OFD1, CXorf5, SGBS2, JBTS10, RP23
CPLANE1, C5orf42, JBTS17, OFD6
TCTN3, TECT3, C10orf61, OFD4, JBTS18
TMEM216, JBTS2, CORS2, MKS2
TMEM231, JBTS20, MKS11
CSPP1, CSPP, JBTS21
KIAA0586, TALPID3, JBTS23, SRTD14
KATNIP, KIAA0556
MKS1, MKS, BBS13, JBTS28
AHI1
ARL3, ARFL3, JBTS35, RP83
LACC1, C13orf31
SMAD4, MADH4, DPC4, JIP, MYHRS
KMT2D, MLL2, ALR, KABUK1
KDM6A, UTX, KABUK2
NAGA
IGKC, IGKCD
UBE3B, BPIDS, KOS
ANKRD11, ANCO1, KBGS
GPC4, KPTS
KCNJ6, GIRK2, KCNJ7, KPLBS
GJB2, CX26, DFNB1A, PPK, DFNA3A, KID, HID

AP1B1, ADTB1, BAM22, CLAPB2
AAGAB, p34, PPKP1A, PPKP1, KPPP1
CTSB, CPSB, RECEUP
POMP, UMP1, PRAAS2
MGP
NCAPG2, CAPG2, MTB, 3KS
FERMT1, KIND1, URP1, C20orf42
EHMT1, EUHMTASE1, KMT1D, DEL9q34, KLEFS1
COL18A1, KNO1
KANSL1, KIAA1267, MSL1V1, KDVS
PDGFRB, PDGFR, IBGC4, IMF1, PENTT, KOGS
GALC
L2HGDH, C14orf160, L2HGA
SC5DL, ERG3
SPRED1, NFLS, LGSS
SDHA, SDH1, SDHF, CMD1GG, PGL5
PTDSS1, PSS1, KIAA0024, LMHD
PTPN11, PTP2C, SHP2, NS1, JMML, METCDS
RAF1, CRAF, NS5, CMD1NN
INSR, HHF5
ITGB2, CD18, LCAMB, LAD
FERMT3, KIND3, URP2, MIG2B
POLR3A, RPC1, RPC155, ADDH, HLD7, WDRTS
LIG4, LIG4S
HCCS, MCOPS7, LSDMCA1
COX7B, LSDMCA2
NDUFB11, LSDMCA3, MC1DN30
AGPAT2, LPAAB, BSCL, BSCL1
BSCL2, SPG17, HMN5, PELD
CAVIN1, PTRF
PLIN1, PLIN, FPLD4
LIPE, LHS, FPLD6
STAR
TRMU, MTO2
TGFB1, ALK5, AAT5, LDS1, MSSE
TGFB2, HNPCC6, AAT3, MFS2, LDS2
SMAD3, MADH3, LDS3
TGFB3, ARVD1, RNHF, LDS4
TGFB4, ARVD1, RNHF, LDS5
MED12, TNRC11, TRAP230, HOPA, KIAA0192, OKS, FGS
NSMCE3, NDNL2, MAGEG1, LICS
SETD2, SET2, HYPB, HBP231, KIAA1732, LLS
LHCGR, LHR, LCGR
FLT4, VEGFR3, PCL, LMPHM1
GJC2, GJA12, CX47, PMLDAR, HLD2, SPG44, LMPHM3

VEGFC, VRP, LMPHM4
FOXC2, FKHL14, MFH1
ITK, EMT, LPFS1
CD27, TNFRSF7, S152, LPFS2
TNFSF7, CD70, CD27L, LPFS3
SH2D1A, LYP, IMD5, XLP, XLPD1
XIAP, BIRC4, API3, XLP2
SLC7A7, LPI
PLOD3, LH3
RIN2, MACS
MYH9, MHA, FTNS, DFNA17, BDPLT6, MATINS
LPIN2
POLD1, CRCS10, MDPL
ZMPSTE24, FACE1, STE24, MADB
EDNRA, MFDA
EFTUD2, KIAA0031, MFDGA
MAN2B1, MANB
MANBA, MANB1
BCKDHA, MSUD1
BCKDHB, E1B
DBT, BCATE2
NFIX, NF1A, SOTOS2, MRSHSS
RAB3GAP2, RAB3GAP150, p150, KIAA0839, WARBM2
MASP2
XK, MCLDS
NPHP3, NPH3, RHPD1, MKS7
AP1S1, CLAPS1, AP19, MEDNIK
AKT3, PKBG, MPPH2
ORC1, ORC1L
ORC6, ORC6L
GMNN, MGORS6
NRAS, ALPS4, NS6, CMNS, NCMS
STK11, PJS, LKB1
SLURP1, MDM
ATP7A, MNK, MK, OHS, SMAX3
KDM5C, JARID1C, SMCX, DXS1272E, XE169, MRXSCJ
SOX3, MRGH
CYB5A, MCB5, METAG
MMACHC
PRDX1, PRXI, PAGA, NKEFA
LMBRD1, LMBD1, NESI, MAHCF
ABCD4, PXMP1L, P79R, PMP69, MAHCJ
MUT, MCM
MMAA
MMAB

RNU4ATAC, U4ATAC, MOPD1, TALS, RFMN
PCNT, PCNT2, KEN, SCKL4, MOPD2
KIF11, KNSL1, MCLMR
MSMO1, SC4MOL, ERG25, MCCPD
IER3IP1, MEDS
BEST1, VMD2, ARB, RP50
MYO5B, KIAA1119
DHODH, URA1, POADS
SAMD9, NFTC, MIRAGE
MLH1, COCA2, HNPCC2
MSH2, COCA1, FCC1, HNPCC1
MSH6, GTBP, HNPCC5
PMS2, PMSL2, HNPCC4
NDUFS2, MC1DN6
NDUFS3, MC1DN8
SDHD, PGL1
TMEM70, MC5DN2
MGME1, C20orf72, MTDPS11
FBXL4, FBL4, MTDPS13
POLG2, POLGB, PEOA4, MTDPS16
DGUOK, DGK, MTDPS3, PEOB4, NCPH
POLG, POLG1, POLGA, PEO, SANDO, SCAE, MTDPS4A,
MPV17, MTDPS6, CMT2EE
FDX2, FDX1L, MEOAL
DCHS1, PCDH16, FIB1, CDH19, VMLDS1, MVP2
TIMM8A, DFN1, DDP, MTS, DDP1
GPHN, GPH, KIAA1385, GEPH, MOCODC
KRT81, KRTHB1, HB1
KRT86, KRTHB6, HB6
ZEB2, ZFH1B, SMADIP1, SIP1
GUCY1A3, GUC1A3, GUCA3, MYMY6
ACTA2, ACTSA, AAT6, MYMY5
GNPTAB, GNPTA
MCOLN1, ML4
IDUA, IDA
IDS, MPS2, SIDS
GALNS, MPS4A
SGSH, MPS3A, SFMD
NAGLU, MPS3B, CMT2V
HGSNAT, TMEM76, MPS3C, RP73
GNS, G6S
ARSB, MPS6
GUSB, MPS7
VPS33A, MPSPS
TRIM37, MUL, KIAA0898

MMP2, CLG4A, MONA
PIGN, MCAHS1
PIGA, PNH1, MCAHS2
PIGT, NDAP, PNH2, MCAHS3
MEN1
RET, MEN2A, HSCR1
CDKN1B, KIP1, CDKN4, MEN4
B3GAT3, GLCATI, JDSCD
CHRNA1, ACHRD, CMS1B, CMS1A
CHRND, ACHRD, SCCMS, CMS3A, CMS3B, CMS3C
SUMF1, FGE
NOG, SYM1, SYNS1A
FGF9, SYNS3
AGRN, CMS8
CXCR4, D2S201E, NPY3R, WHIMS
MPO
KIF5A, NKHC, SPG10, NEIMY, ALS25
KCNQ2, EBN1, EIEE7, BFNS1
BAG3, MFM6
PLCD1, NDNC3
LMX1B, NPS1
MFRP, MCOP5, NNO2
JUP, DP3, PDGB, ARVD12
CD151, PETA3, SFA1, MER2
BANF1, BAF, NGPS
SPINK5, LEKTI
PHGDH, NLS1, PHGDHD
NF1, VRNF, WSS, NFNS
NF2
PNPLA2, TTS2, ATGL
ELANE, ELA2, SCN1
HAX1, SCN3
VPS45, VPS45A, SCN5
JAGN1, SCN6
CSF3R, GCSFR, SCN7
SRP54
WAS, IMD2, THC1, SCNX
RAC2
SMARCA2, SNF2L2, NCBRS
SMPD1, NPD
NPC1, NPC
NPC2, HE1
RAD50, NBSLD
LZTR1, SWNTS2, NS10, NS2
MRAS, RRAS3, NS11

MAPK1, PRKM1, ERK2
RIT1, RIT, ROC1, NS8
SOS2, NS9
PPP1CB, NSLH2
CBL, CBL2, NSLL
SHOC2, SIAA0862, SOC2, SUR8
NDP, ND, EVR2
KMT2E, MLL5, ODLURO
POMC, OBAIRH
PIK3C2A, CPK, OCSKD
WNT10A, SSPS, STHAG4, OODD
NAA10, ARD1A, ARD1, TE2, NATD, OGDNS, MCOPS1
DCLRE1C, ARTEMIS, SCIDA
GPC6, OMIMD1
FZD2, OMOD2
INPPL1, OPSMD
TMEM126A, OPA7
SOX2, MCOPS3
OTC
UMPS, OPRT
GNAS, GNAS1, GPSA, POH, PHP1B, PHP1A, AHO, PHP1C
TRIP11, TRIP230, CEV14, ACG1A, ODCD
SPARC, ON, OI17
TNFRSF11A, RANK, ODFR, FEO, OPTB7, PDB2
KRT16, FNEPPK, PC1
KRT17, PC2, PCHC1
KRT6A, PC3
KRT6B, PC4
TNFRSF11B, OPG, OCIF, PDB5
RSPO1, FLJ40906
KANK2, ANKRD25, KIAA1518, PPKWH, NPHS16
AQP5, PPKB
KRT9, EPPK
SERPINB7, MEGSIN, PPKN
KRT6C, PPKNEFD
PRSS1, TRY1
SPINK1, PSTI, PCTT, TATI, TCP
SDHAF2, SDH5, PGL2
SLC25A11, SLC20A4, OGC, PGL6
DLST, PGL7
MSX2, CRS2, HOX8
SOX10, WS4, WS4C, PCWH
TGM5, TGX, PSS2
CSTA, STFA, STF1, AREI, PSS4
SERPINB8, PI8, CAP2, PSS5

FLG2, IFPS, PSS6
CAST, PLACK
ZNHIT3, TRIP3, PEHO
PLP1, PMD, HLD1, SPG2
SLC26A4, PDS, DFNB4, EVA, TDH2B
TNFRSF1A, TNFR1, TNFAR, FPF, MS5
WDR1
NEDD4L, KIAA0439, RSP5, PVNH7
DIS3L2, PRLMNS
PEX13, ZWS, NALD, PBD11A, PBD11B
PEX19, PXF, HK33, D1S2223E, PBD12A
PEX14, PBD13A
PEX5, PXR1, PTS1R, PBD2A, PBD2B, RCDP5
PEX12, PBD3A
PEX2, PAF1, PMP35, PBD5A, PBD5B, PXMP3
PEX10, NALD, PBD6A, PBD6B
PEX26, PBD7A, PBD7B
PEX16, PBD8A, PBD8B
PEX7, RCDP1, PBD9B
ATOH7, PHPVAR, NCRNA
SHANK3, PSAP2, PROSAP2, KIAA1650, DEL22q13.3, SCZ
PSPH, PSP, PSPHD
SNAI2, SLUG, WS2D
TBL1XR1, TBLR1, IRA1, C21, MRD41
LAMB2, LAMS, NPHS5
POLA1, VEODS
PRKAR1A, TSE1, CNC1, CAR, PPNAD1, ACRDYS1
PDE11A, PDE11A1, PDE11A2, PDE11A3, PPNAD2
PDE8B, PPNAD3, ADSD
CHD1, PILBOS
NRXN1, PTHSL2, SCZD17
POU1F1, PIT1, CPHD1
PROP1, CPHD2
LHX3, CPHD3
LHX4, CPHD4
OTX2, MCOPS5, CPHD6
CARD14, CARMA2, BIMP2, PSORS2, PSS1, PRP
ARPC1B, ARC41, PLTEID
RUNX1, CBFA2, AML1
PLA2G7, PAFAH, PAFAD
USB1, C16orf57, PN
FAM111B, POIKTMP
TYROBP, DAP12, PLOSL1
TREM2, PLOSL2
RBCK1, HOIL1, PGBM1, PBMEI

IRF6, VWS, LPS, PIT, PPS1, OFC6
PMVK, PMK, POROK1
MVD, MPD, POROK7
SLC17A9, C20orf59, POROK8
FDPS, FPS, POROK9
UROD
PPOX
UROS
ALS2, ALSJ, PLSJ, IAHSP
PEPD
PFC, PFD
PCCA
PCCB
PSMB8, LMP7, RING10, JMP, NKJO, ALDD, PRAAS1
FECH, FCE, EPP1
OCLN, BLCPMG, PTORCH1
USP18, UBP43, ISG43, PTORCH2
WNK1, PRKWINK1, KDP, PHA2C, HSN2, HSN2
STX16, SYN16
GGCX, VKCFD1
IL36RN, IL1F5, FIL1D, IL1HY1, IL1RP3, PSORP, PSORS14
SFTPA2, SPA2, COLEC5
CTSK
MYD88, MYD88D
PSTPIP1, PSTPIP, CD2BP1, PAPAS
HIST1H1E, H1F4, RMNS
PHYH, PAHX
AK2
ADAM10, MADM, RAK, AD18
RBP4, RDCCAS, MCOPCB10
CWC27, SDCCAG10, RPSKA
RNF168, RIDL
GDF1, DTGA3, DORV, RAI, CHTD6
WSHC5, KIAA0196, SPG8, RTSC1
CCDC22, RTSC2
ESCO2
WNT5A
DVL1, DRS2
DVL3, DRS3
NXN, RRS2
ROR2, BDB1, BDB, NTRKR2
TWIST1, ACS3, SCS, CRS1, SWCOS
ANAP1, APC1
CREBBP, CBP, RSTS1, MKHK1
EP300, RSTS2, MKHK2

TBXT, T, TFT, SAVA
NUP188, KIAA1069
HEXB
KCTD1, SENS
MAGEL2, NDNL1, SHFYNG
SMARCAL1, HARP, SIOD
SETBP1, KIAA0437, SEB, MRD29
PACS1, SHMS, MRD17
JAK3, JAKL
DCDC2, RU2, KIAA1154, NPHP19, DFNB66, NSC
ZNF750, FLJ13841
NSMCE2, NSE2, MMS21
CEP152, KIAA0912, MCPH9, SCKL5
TRAIP, TRIP, RNF206, SCKL9
SDCCAG8, CCCAP, SLSN7, BBS16
ADA
NHEJ1, XLF
PTPRC, CD45, LCA
IL7R, IL7RA, CD127
ASXL2, KIAA1685, SHAPNS
SKI, SGS
EFL1, RIA1, EFTUD1, FAM42A, SDS2
SBDS, SDS
SLC17A5, SIASD, SLD
NEU1, NEU, SIAL1
GNE, GLCNE, IBM2, DMRV, NM
SCN5A, LQT3, VF1, HB1, SSS1, CMD1E, CDCD2
TRNT1, SIFD, RPEM
H19, D11S813E, ASM1, BWS, WT2
GPC3, SDYS, SGBS1
DDX58, RIGI, SGMRT2
ABCG5
ABCG8, GBD4
ALDH3A2, ALDH10, SLS, FALDH
ZBTB16, ZNF145, PLZF
WDR26, SKDEAS
MTOR, FRAP1, SKS
DHCR7, SLOS
RAI1, SMCR, SMS
NSD1, ARA267, STO, SOTOS1
SMARCD2, BAF60B, SGD2
CEBPE, CRP1
ANK1, SPH1
SPTB, SPH2, EL3, HS2
WNT10B, SHFM6, STHAG8

ACP5, SPENCDI
PCYT1A, CTPCT, PCYT1, SMDCRD
TNFRSF10B, DR5, TRAILR2
ING1
PSMD12, P55, STISS
TMEM173, STING, MPYS, SAVI
VAC14, TAX1BP2, TRX, SNDC
CENPF, CILD31, STROMS
GNAQ, SWS, CMC1
LIFR, STWS, SWS, SJS2
PAFAH1B1, LIS1
SUOX
MAPRE2, EB2, RP1, CSCSC2
DNASE1L3, SLEB16
FOXN1, WHN
STK4, MST1, KRS2, TIIAC
HAVCR2, TIM3, SPTCL
CDC42, TKS
ABCA1, ABC1, HPALP1, TGD, HDLCQTL13
RBM10, DXS8237E, KIAA0122, TARPS
DNMT3A, TBR5
ENG, END, HHT1, ORW
ACVRL1, ACVRLK1, ALK1, HHT2
GDF2, BMP9, HHT5
KCNH1, EAG, TMBTS, ZLS1
RNF125, TRAC1, TNORS
FIBP, TROFAS
SLC19A2, THTR1, TRMA, THMD1
THPO, MGDF, MPLLG, TPO, THCYT1
ANKRD26, KIAA1074, THC2
ETV6, TEL, THC5
RBM8A, RBM8B, TAR, C1DELq21.1, DEL1q21.1
MPL, TPOR, MPLV, THCYT2
FCGR2C, CD32C
F5, THPH2, RPRGL1
PROC, PC, THPH3, THPH4
PROS1, THPH5, THPH6
ADAMTS13, VWFCP, TTP
TRH
CACNA1C, CACNL1A1, CCHL1A1, TS. LQT8
SALL1, HSAL1, TBS
TALDO1
TCN2, TC2
MED13L, THRAP2, PROSIT240, TRAP240L, KIAA1025, M
TCOF1, MFD1, TCS1

POLR1D, RPA16, RPAC2, TCS2
POLR1C, RPA39, RPA40, RPAC1, RPA5, TCS3, HLD11
TTC37, KIAA0372
SKIV2L, SKI2, SKI2W, THES2
CCDC47, THNS
TRPS1
ERCC3, XPB, TTD2
GTF2H5, TTD3, TFB5, C6orf175, TTDA
MPLKIP, C7orf11, ABHS, TTDN1, TTD4
GTF2E2, TTD6
TARS1, TARS, TTD7
FMO3, TMAU
DAK
TSC1, LAM
TSC2, LAM
BAP1, TPDS
GALNT3, HHS, HFTC1
RNF110, ZNF144, MEL18, TPFS
FAH
TAT
ECM1, URBWD
UVSSA, KIAA1530, UVSS3
GRHL3, SOM, TFCP2L4, VWS2
ELMO2, CED12, VMPI
TBX1, DGS, CTHM, CAFS, TGA, DORV, VCFS, DGCR
TEK, TIE2, VMCM, GLC3E
PUF60, FIR, SIAHBP1, VRJS
TBX2, VETD
ADGRE2, EMR2, VBU
EPG5, KIAA1632, HEEW1, VICIS
ACTG2, ACTA3, VSCM
ACADVL, VLCAD
LOR
NA
VWF, F8VWF
PAX3, WS1, HUP2, CDHS, WS3
EDN3, WS4B, HSCR4
RAB3GAP1, WARBM1, P130
DDR2, NTRKR3, TKT, WRCN
DDX11, CHLR1, KRG2
EZH2, EZH1, WVS
ADAMTS10, WMS1
RECQL2, RECQ3, WRN
KRT13, WSN2
POGZ, KIAA0461, MRD37, WHSUS

ZC4H2, KIAA1166, WRWF, MRXS4
KMT2A, MLL, HRX, HTRX1, WDSTS
ATP7B, WND
SIN3A, WITKOS
EIF2AK3, PEK, PERK, WRS
WFS1, WFRS, WFS, DFNA6, DFNA14, DFNA38, WFSL, C
CISD2, WFS2, ZCD2, ERIS
DCAF17, C20orf37
XDH, XAN1
XPA, XPAC
XPC, XPCC
DDB2
POLH, XPV
TELO2, TEL2, CLK2, KIAA0683, HCLK2, YHFS
KCNN3, SK3, SKCA3
SLC30A2, ZNT2, TNZD
SON, TOKIMS

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Gene name

NAD kinase 2, mitochondrial
Presenilin 1
Growth/differentiation factor-5 (cartilage-derived morphogenetic protein-1)
B-cell linker protein (SH2 domain-containing leukocyte protein, 65kD)
Leucine-rich repeat-containing 8A
Phosphatidylinositol 3-kinase, regulatory, 1
Kinesin family member 7
Alpha-2HS-glycoprotein
Beta-2-microglobulin
Interleukin 31 receptor A
STEAP3 metalloreductase
BMS1 ribosome biogenesis factor
Endoplasmic reticulum-golgi intermediate compartment protein 1
Never in mitosis gene A-related kinase 9
Proliferating cell nuclear antigen
Caspase 8, apoptosis-related cysteine protease
Centrosomal protein, 290kD
WD repeat-containing planar cell polarity effector
ATP-binding cassette, subfamily D, member 3 (peroxisomal membrane protein 1, 70kD)
Protein kinase, cAMP-dependent, catalytic, gamma
ephr tyrosine kinase 3 (ephrin receptor EphB2)
Basic helix-loop-helix family, member A9
Interleukin 17F
TRAF3-interacting protein 2
Isoleucyl-tRNA synthetase 2
Excision repair cross complementing rodent repair deficiency, complementation group-2
Semaphorin 3E
SAM domain- and HD domain-containing protein 1
Paired box homeotic gene-6
Dehydrodolichyl diphosphate synthase
Component of oligomeric golgi complex 2
Dolichyl-diphosphooligosaccharide-protein glycosyltransferase
Alg13, *S. cerevisiae*, homolog of
Sec23, *S. cerevisiae*, homolog of, B
Intraflagellar transport 43
WD repeat-containing protein 19
Ataxia-telangiectasia and Rad3-related (FRAP-related protein-1)
Fibulin 5
Ribosomal protein L26
Ribosomal protein L15
TSR2, 20S rRNA accumulation, *S. cerevisiae*, homolog of
Ribosomal protein L27
Ribosomal protein S27

Ribosomal protein L18
Ribosomal protein S15a
ACD shelterin complex subunit and telomerase recruitment factor
Deaf1, Drosophila, homolog of
Actin, beta
Keratinocyte differentiation factor 1
Cystatin-M
Keratin 74
Plectin 1
Lamin B2
ST3 beta-galactoside alpha-2,3-sialyltransferase 3
GUF1 homolog, GTPase
Zinc finger protein 408
Sperm antigen with calponin homology and coiled-coil domains 1-like
NLR family, caspase recruitment domain-containing 4
RAD51 recombinase
X-ray repair, complementing defective, repair in Chinese hamster cells-2
Mitotic arrest-deficient 2 like 2
RING finger and WD repeat domains-containing protein 3
Solute carrier family 52, riboflavin transporter, member 3
Filamin A, alpha (actin-binding protein-280)
SOS Ras/Rac guanine nucleotide exchange factor 1
Nucleoporin, 133kD
Thioredoxin reductase 2
Integrin, alpha-2 (CD49B; alpha-2 subunit of VLA-2 receptor; platelet antigen Br)
Neutrophil cytosolic factor-4
Insulin-like growth factor-2, or somatomedin A
Homeo box-A13
ATPase, class VI, type 11C
Adaptor-related protein complex 3, delta-1 subunit
Biogenesis of lysosome-related organelles complex 1, subunit 6
Beta-carotene oxygenase 1
Epoxide hydroxylase 1, microsomal xenobiotic
Desmocollin-3
unc-119 lipid binding chaperone
Tumor necrosis factor receptor superfamily, member 4
Lymphocyte-specific protein tyrosine kinase
CD247 antigen
B-cell leukemia/lymphoma 10
Interferon regulatory factor 7
Interferon, alpha, beta, and omega, receptor 2
v-rel avian reticuloendotheliosis viral oncogene homolog B
Hypoxia-upregulated 1
SH3-domain kinase-binding protein 1
Rho guanine nucleotide exchange factor, 115-kD

Interleukin 21
Interferon regulatory factor 2-binding protein 2
Glutaminase
ADAM metallopeptidase domain 17
Epidermal growth factor receptor
Transmembrane protein 107
Low density lipoprotein-related protein-1 (alpha-2-macroglobulin receptor)
Immunoglobulin superfamily, member 3
Patatin-like phospholipase domain-containing protein 6
Transformation gene ERBB-3
Sodium channel, nonvoltage-gated 1, alpha
Caveolin-1
Cell death-inducing DFFA-like effector C
PIEZO-type mechanosensitive ion channel component 2
B9 domain-containing protein 2
Tectonic family, member 2
B9 domain-containing protein 1
Centromere autoantigen E, 312kD
nudE neurodevelopment protein 1
Optic atrophy 1 gene
Transcription factor A, mitochondrial
Hyaluronoglucosaminidase 1
RAD21 cohesin complex component
Notch, Drosophila, homolog of, 3
Collagen VI, alpha-2 polypeptide
Dystonin (bullous pemphigoid antigen 1)
Growth factor independent 1
Membrane-bound transcription factor protease, site 2
Distal-less homeo box-4
Intraflagellar transport 57 (HIP1 protein interactor)
Pleckstrin homology domain-containing protein, family M, member 1
Vitamin D (1,25-dihydroxyvitamin D3) receptor
Paired box homeotic gene-1
Eyes absent, Drosophila, homolog of, 1
Transient receptor potential cation channel, subfamily V, member 3
Carbohydrate sulfotransferase 8
Endoplasmic reticulum membrane-associated RNA degradation protein
Peroxisomal biogenesis factor-3
Peroxisome biogenesis 11B
Phosphoenolpyruvate carboxykinase-1 (soluble)
Phosphoserine aminotransferase 1
FIG4 phosphoinositide 5-phosphatase
KISS1 receptor
FANCM gene
Thymidine kinase, mitochondrial

Topoisomerase (DNA) III, alpha
Proteasome subunit, beta type, 4
Proteasome subunit, beta type, 9
Caseinolytic mitochondrial matrix peptidase chaperone subunit
Cholinergic receptor, muscarinic, 3
Lamin B receptor
Transmembrane protein 67 (meckelin)
Centromeric protein J
Wingless-type MMTV integration site family, member 4
Adenosine deaminase 2
APC2 gene
Ripply2, zebrafish, homolog of
Salt-inducible kinase 3
G6B protein
Thromboxane A synthase 1, platelet
Dapper, antagonist of beta-catenin, 1
RING finger protein 113A
Urocanase domain-containing protein 1
Aryl hydrocarbon receptor nuclear translocator 2
Latent transforming growth factor beta binding protein-2
EVC gene
Matrix metalloproteinase 14 (membrane-inserted)
WAS/WASL-interacting protein family, member 1
CD207 antigen
Melanocortin-1 receptor (alpha melanocyte-stimulating hormone receptor)
Transthyretin (prealbumin)
Erythropoietin receptor
Ectodysplasin 1, anhidrotic receptor (downless, mouse, homolog of)
Hexosaminidase A, alpha polypeptide
Lipoprotein lipase
Phenylalanine hydroxylase
Interleukin 21 receptor
Sedoheptulokinase
HECT domain and RCC1-like domain 2
Pink-eye dilution, murine, homolog of (oculocutaneous albinism II)
Tyrosinase
Solute carrier family 24 (sodium/potassium/calcium exchanger), member 5
Solute carrier family 45, member 2
KIT ligand (mast cell growth factor; steel, mouse, homolog of)
Tyrosinase-related protein 1
Telomerase RNA component
Coatmer protein complex, subunit alpha
Fas cell surface death receptor
Tumor protein p53
Collagen I, alpha-1 polypeptide

Mannose-binding lectin 2, soluble (opsonic defect)
Telomerase reverse transcriptase
Matrix metalloproteinase 1 (interstitial collagenase)
Bone morphogenetic protein-2
Apolipoprotein A-II
Heparan sulfate 6-O-sulfotransferase 1
Semaphorin 3A
Cyclin-dependent kinase inhibitor 2A (p16, inhibits CDK4)
Cyclin-dependent kinase 4
Hemochromatosis gene
Melanocortin-4 receptor
Collagen I, alpha-2 polypeptide
Xylosyltransferase 1
Xylosyltransferase 2
Myosin, heavy polypeptide-6, cardiac muscle, alpha
Interferon, gamma
Cyclin D1
Cytochrome P450, family 17, subfamily A, polypeptide 1 (steroid 17-alpha-hydroxylase)
3-Methylcrotonyl-CoA carboxylase 2
Serine active site-containing protein 1
Caseinolytic peptidase B
HTRA serine peptidase 2
Mannan-binding lectin serine protease-1 (C4/C2 activating component of Ra-reactive factor)
5-oxoprolinase (ATP-hydrolyzing)
FYVE, RhoGEF, and PH domain-containing protein 1
Endothelin receptor type B
Twist, Drosophila, homolog of, 2 (dermis-expressed protein 1, mouse, homolog of)
Aladin
Collagen II, alpha-1 polypeptide
Nicastrin
Presenilin enhancer, gamma-secretase subunit
Solute carrier family 36 (zinc transporter), member 4
ATPase, Ca⁺⁺ transporting, slow-twitch, cardiac muscle-2
Bone morphogenetic protein receptor, type IB
Rho GTPase-activating protein 31
Dedicator of cytokinesis 6
Recombination signal-binding protein 1 for kappa J region
EGF domain-specific O-linked N-acetylglucosamine transferase
Notch receptor 1
Delta-like 4
Adenine phosphoribosyltransferase
Pyruvate kinase, liver and RBC type
SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subfamily A, DEAD/H box-co
Cytochrome P450, subfamily XIB, polypeptide 1 (11-beta-hydroxylase; corticosteroid methyl-oxidase II (CM
Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase, type 2 (adrenal, gonadal)

Nuclear receptor subfamily 0, group B, member 1
T-box 19
ATP-binding cassette, subfamily D, member 1
Tumor protein p63 (tumor protein p73-like)
Fibrinogen, alpha polypeptide
Fibrinogen, beta polypeptide
Fibrinogen, gamma polypeptide
Constant region of heavy chain of IgM
Immunoglobulin lambda-like polypeptide 1 (immunoglobulin omega peptide)
CD79A antigen (immunoglobulin-associated alpha)
CD79B antigen
Transcription factor-3 (E2A immunoglobulin enhancer-binding factors E12/E47)
5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase
3' repair exonuclease 1
Ribonuclease H2, subunit B
Ribonuclease H2, subunit C
Ribonuclease H2, large subunit
Adenosine deaminase, RNA-specific
Interferon induced with helicase C domain 1
Cyclin-dependent kinase 10
Decapping enzyme, scavenger
GDP-mannose pyrophosphorylase A
Jagged 1
Notch receptor 2
La ribonucleoprotein domain family, member 7
Leucine-rich melanocyte differentiation-associated protein
Aldehyde dehydrogenase 2 family, mitochondrial
Homogentisate 1,2-dioxygenase (homogentisate oxidase)
Solute carrier family 16 (monocarboxylic acid transporters), member 2
HR lysine demethylase and nuclear receptor corepressor
Alpha-2-plasmin inhibitor
Acetyl-Coenzyme A acetyltransferase-1 (acetoacetyl Coenzyme A thiolase)
Alpha-methylacyl-CoA racemase
Recombination activating gene-1
Collagen IV, alpha-5 polypeptide
Collagen IV, alpha-3 polypeptide (Goodpasture antigen)
Collagen IV, alpha-4 polypeptide
Alstrom syndrome gene
Forkhead box F1
Laminin, beta-3 (nicein, 125kD; kalinin, 140kD; BM600, 125kD)
Integrin, beta-6
Distal-less homeo box-3
Apolipoprotein A-I
Gelsolin
Oncostatin M receptor

Glycoprotein NMB
Lysozyme
Senataxin
Septin 9
Mitochondrial RNA-processing endoribonuclease
Potassium channel, inwardly rectifying, subfamily J, member 2
Aminolevulinate, delta-, synthase-2
Glutaredoxin 5
Heat-shock 70kD protein-9 (mortalin)
GATA-binding protein-1 (globin transcription factor-1)
Ubiquitin protein ligase E3A
Coagulation factor XII (Hageman factor)
Complement component-1 inhibitor
Cytochrome P450 oxidoreductase
Fibroblast growth factor receptor-2 (bacteria-expressed kinase)
Fibroblast growth factor-10
Nibrin
Cytochrome P450, family 19, subfamily A, polypeptide 1 (aromatization of androgens)
Desmocollin-2
Desmoplakin
Ectonucleotide pyrophosphatase/phosphodiesterase 1 (Ly-41 antigen, mouse, homolog of)
ATP-binding cassette, subfamily C, member 6
Vacuolar protein sorting 33, yeast, homolog of, B
VPS33B-interacting protein, apical-basolateral polarity regulator, spe-39 homolog
Phosphoribosyl pyrophosphate synthetase-1
Aspartylglucosaminidase
Ribosomal protein SA
T-box 21
Tocopherol, alpha, transfer protein
Sterile alpha motif domain-containing 9-like
Meiotic recombination 11, *S. cerevisiae*, homolog A of
Ataxia-telangiectasia mutated (includes complementation groups A, C, D, and E)
Feline leukemia virus subgroup C receptor 1
Filamin B
Solute carrier family 26 (sulfate transporter), member 2 (diastrophic dysplasia sulfate transporter)
Transferrin
Heterogeneous nuclear ribonucleoprotein K
Guanine nucleotide-binding protein (G-protein), alpha-inhibiting activity polypeptide-3
Phospholipase C, beta 4
Endothelin-1
Signal transducer and activator of transcription-3 (acute-phase response factor)
Zeta-chain associated protein kinase, 70kD (syk-related tyrosine kinase)
Itchy, mouse, homolog of
Fas ligand (TNF superfamily, member 6)
Caspase 10, apoptosis-related cysteine protease

Protein kinase C, delta
Cytotoxic T-lymphocyte-associated serine esterase-4
Autoimmune regulator
NLR family, pyrin domain containing 1
Phospholipase C, gamma 2
OTU deubiquitinase with linear linkage specificity
Tumor necrosis factor-alpha-induced protein 3
Paired-like homeodomain transcription factor-2
Forkhead, Drosophila, homolog-like 7
v-Maf avian musculoaponeurotic fibrosarcoma oncogene homolog
Caspase recruitment domain-containing protein 11
Synaptotagmin-1
DNA helicase, RecQ-like 4
Forkhead box E1 (thyroid transcription factor-2)
Transporter 1, ATP-binding cassette, subfamily B
TAP-binding protein (tapasin)
Transporter 2, ATP-binding cassette, subfamily B
Class II major histocompatibility complex transactivator
Regulatory factor X, 5 (influences HLA class II expression)
Regulatory factor X-associated protein
Tafazzin
Chloride channel, kidney, B
Patched 1
Patched 2
Suppressor of fused
Complement factor H
Mediator of RNA polymerase II transcription, subunit 25, *S. cerevisiae*, homolog of
THO complex subunit 6
Glycoprotein Ib, platelet, alpha polypeptide
Glycoprotein Ib, platelet, beta polypeptide
Glycoprotein IX, platelet
Collagen, type XII, alpha-1
3-beta-hydroxy-delta-5-C27-steroid oxidoreductase
Bile acid synthesis defect, congenital, 2
Cytochrome P450, subfamily VIIB (oxysterol 7-alpha-hydroxylase), polypeptide 1
Biotinidase
Folliculin
BCS1 homolog, ubiquinol-cytochrome c reductase complex chaperone
Nucleotide-binding oligomerization domain protein 2
Glycoprotein VI, platelet
Integrin, alpha-2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41B)
Integrin, beta-3 (platelet glycoprotein IIIa; antigen CD61)
Growth factor-independent 1B
Schlafen family, member 14
Friend leukemia virus integration 1

Purinergic receptor P2Y, G protein-coupled, 12
Cadherin-1 (E-cadherin; uvomorulin)
Catenin (cadherin-associated protein), delta 1
DNA helicase, RecQ-like 3
Additional sex combs-like 1
ERCC6-like 2
DNAJ/HSP40 homolog, subfamily C, member 21
MYB-like, SWIRM, and MPN domains-containing protein 1
Retinaldehyde-binding protein-1, cellular
Nuclear factor I/A
Transcription factor AP-2 alpha (activating enhancer-binding protein 2 alpha)
SIX homeobox 1
Zinc finger protein 469
PR domain-containing protein 5
Sodium channel, nonvoltage-gated 1, beta
Sodium channel, nonvoltage-gated 1, gamma
CYLD gene
Solute carrier family 52, riboflavin transporter, member 2
FK506-binding protein 10
Procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase) 2
Monoamine oxidase A
Thioredoxin-like 4A
LEM domain-containing 3
CD96 antigen
Complement component 1, q subcomponent, A chain
Complement component 1, q subcomponent, B chain
Complement component 1, q subcomponent, C chain
Complement component-2
Complement component-3
Complement component-4A
Complement component-8, alpha polypeptide
Complement component-8, beta polypeptide
SRY (sex-determining region Y)-box 9
Proteoglycan 4 (megakaryocyte stimulating factor; hemangiopoietin)
Transforming growth factor, beta-1
Caspase recruitment domain-containing protein 9
C-type lectin domain family 7, member A
Interleukin 17 receptor C
RAS p21 protein activator 1 (GTPase activating protein)
Ephrin receptor EphB4 (hepatoma transmembrane kinase)
Carboxypeptidase N, polypeptide 1, 50-kD
Myelin regulatory factor
TNF receptor-associated factor 7
Kirsten rat sarcoma-2 viral (v-Ki-ras2) oncogene homolog
Mitogen-activated protein kinase kinase 1

Mitogen-activated protein kinase kinase 2
Murine sarcoma viral (v-raf) oncogene homolog B1
Mitogen-activated protein kinase kinase kinase 7
Solute carrier family 25 (carnitine/acylcarnitine translocase), member 20 (carnitine-acylcarnitine translocase)
Multiple epidermal growth factor-like domains 8
Ras-associated protein RAB23
TDP-glucose 4,6-dehydratase
Connexin 43-interacting protein, 150kD
Fibroblast growth factor receptor-3
Vang-like 1
KREV interaction trapped 1
CD8 antigen, alpha polypeptide (p32)
Low density lipoprotein receptor-related protein 4
Ryanodine receptor-1, skeletal
Leucine zipper- and sterile alpha motif-containing kinase
DNA methyltransferase 1
Endoplasmic reticulum membrane protein complex, subunit 1
mab-21 like 1
Solute carrier family 6 (neurotransmitter transporter, creatine), member 8
Synaptosomal-associated protein, 29kD
Excision repair cross complementing rodent repair deficiency, complementation group 6
Excision-repair, complementing defective, in Chinese hamster, number 5
Excision repair cross complementing rodent repair deficiency, complementation group-1
STN1, CST complex subunit
Conserved telomere maintenance component 1
Cytochrome P450, subfamily XXVIIA, polypeptide 1 (sterol 27-hydroxylase)
Abhydrolase domain containing 5
Receptor-interacting serine-threonine kinase 4
Chromodomain helicase DNA binding protein 7
Lysosomal trafficking regulator
SH3-domain binding protein 2
NAD(P)H steroid dehydrogenase-like protein
Phosphatidylinositol glycan, class L
ETS2 repressor factor
ATP-binding cassette, subfamily B, member 11 (bile salt export pump)
ATPase, class I, type 8B, member 1
ATP-binding cassette, subfamily B, member 4 (P-glycoprotein-3/multiple drug resistance-3)
Tight junction protein 2
Nuclear receptor subfamily 1 group H member 4
Lipase A, lysosomal acid, cholesterol esterase
Emopamil-binding protein
Arylsulfatase E
Parathyroid hormone 1 receptor
Exostosin 1
AF4/FMR2 family, member 4

Vacuolar protein sorting 13A (chorein)
NK2 homeobox 1
Peripherin 2
cytochrome b-245 chaperone 1
Neutrophil cytosolic factor-1, 47kD
Neutrophil cytosolic factor-2, 65kD
Cytochrome b-245, alpha polypeptide
Cytochrome b-245, beta polypeptide
NLR family, pyrin domain containing 3
Keratin 18
Keratin 8
Solute carrier family 25 (mitochondrial carrier, citrin), member 13
Nectin 1
Runt-related transcription factor 2
Coiled-coil and C2 domains-containing protein 2A
RPGRIP1-like
Excision repair cross-complementing rodent repair deficiency, complementation group 8
Prenyl diphosphate synthase, subunit 1
Ribosomal protein S6 kinase, 90kD, polypeptide 3
AT-rich interaction domain-containing protein 1B
SRY (sex determining region Y)-box 4
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1
AT rich interactive domain 1A, SWI-like
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1
SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin, subfamily A, member 4
SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin, subfamily E, member 1
AT-rich interaction domain-containing protein 2
D4, zinc, and double PHD fingers family, member 2
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 2
SRY (sex-determining region Y)-box 11
Vacuolar protein sorting 13, yeast, homolog of, B
Embryonic ectoderm development protein
Cytokine-like factor 1
Kelch-like 7
Recombination activating gene-2
Solute carrier family 25 (mitochondrial citrate transporter), member 1
Lectin, mannose-binding, 1
Methylenetetrahydrofolate dehydrogenase 1
Interleukin-2 receptor, gamma
Mitochondrial ribosomal protein S16
GTP-binding protein 3
Mitochondrial ribosomal protein S22
Prosaposin (sphingolipid activator protein-1)
Microphthalmia-associated transcription factor
Complement factor D

Complement factor I
CD55 antigen (blood group Cromer)
Dual serine/threonine and tyrosine protein kinase
Gle1, RNA export mediator, *S. cerevisiae*, homolog of
Sodium leak channel, nonselective
N-glycanase 1
Fucosyltransferase 8
Phosphomannomutase 2
Mannosephosphate isomerase (phosphomannose isomerase 1)
Magnesium transporter 1
Dolichyl-phosphate mannosyltransferase 1, catalytic subunit
Mannose-P-dolichol utilization defect 1
Dolichyl-P-mannose:Man-7-GlcNAc-2-PP-dolichyl-alpha-6- mannosyltransferase
Mannosyl-oligosaccharide glucosidase
Solute carrier family 35, member C1 (GDP-Fucose transporter 1)
Component of oligomeric golgi complex 7
Solute carrier family 35 (CMP-sialic acid transporter), member 1
Component of oligomeric golgi complex 1
Component of oligomeric golgi complex 4
Component of oligomeric golgi complex 6
Solute carrier family 39 (zinc transporter), member 8
Coiled-coil domain-containing protein 115
Dolichyl-phosphate N-acetylglucosamine phosphotransferase
Alg1, yeast, homolog of (beta-1,4 mannosyltransferase)
Alg9, yeast, homolog of
Dolichol kinase
Alg11, *S. cerevisiae*, homolog of
Steroid 5-alpha-reductase 3
Phosphoglucomutase-1
Dolichyl-phosphate mannosyltransferase 2, regulatory subunit
Protein kinase D1
Abelson murine leukemia viral (v-abl) oncogene homolog 1
Tak1 (MAP3K7) binding protein 2
Atrophin 1
NK2, *Drosophila*, homolog of, 6
NK2 homeobox-5 gene
Myosin, heavy polypeptide-3, skeletal muscle, embryonic
Coproporphyrinogen oxidase
Transcription factor-4 (immunoglobulin transcription factor-2)
Zinc finger E box-binding homeobox 1
Grainyhead-like 2
Nipped-B-like (delangin)
Segregation of mitotic chromosomes 1 (SMC1, yeast, homolog of; DXS423E; SB1.8)
Structural maintenance of chromosomes 3
Histone deacetylase 8

Contactin-associated protein-like 2
Tubulin, beta polypeptide
Hexose-6-phosphate dehydrogenase
Hydroxysteroid, 11-beta, dehydrogenase 1
Harvey rat sarcoma viral (v-Ha-ras) oncogene homolog
T-box 15
Phosphatase and tensin homolog (mutated in multiple advanced cancers 1)
Phosphatidylinositol 3-kinase, catalytic, alpha polypeptide
Intraflagellar transport 122
WD repeat-containing protein 35
Transmembrane and coiled-coil domains protein 1
eph-related receptor tyrosine kinase ligand 2 (ephrin B1)
Sec23, *S. cerevisiae*, homolog of, A
Hydroxyprostaglandin dehydrogenase 15-(NAD)
Solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group)
GLI-Kruppel family member GLI2 (oncogene GLI2)
Motor neuron and pancreas homeobox 1
Aldehyde dehydrogenase 18 family, member A1 (1-pyrroline-5-carboxylate synthetase)
Elastin
EGF-containing fibulin-like extracellular matrix protein 2 (fibulin 4)
Latent transforming growth factor-beta-binding protein 4
ATPase, H⁺ transporting, V0 subunit A2
Pyrroline-5-carboxylate reductase-1
ATPase, H⁺ transporting, V1 subunit E1
ATPase, H⁺ transporting, V1 subunit A
Hemoglobin, gamma G
Cystinosin
Solute carrier family 3 (cystine, dibasic and neutral amino acid transporters), member 1
Solute carrier family 7 (cationic amino acid transporter, y⁺ system), member 9
Fibroblast growth factor-3 (oncogene INT2)
ATPase, H⁺ transporting, V1 subunit B2
Potassium intermediate/small conductance calcium-activated channel, subfamily N, member 4
PIEZO1 ion channel
Myelin protein zero
Peripheral myelin protein-22
Hemoglobin beta
Phosphatidylinositol polyphosphate 5-phosphatase (OCRL gene)
Latent transforming growth factor beta binding protein-3
Platelet-derived growth factor, beta polypeptide (oncogene SIS)
Keratin 14
24-dehydrocholesterol reductase
Uridyl diphosphate glucose pyrophosphorylase-2
Diphthamide biosynthesis protein 1
Pleckstrin homology domain-interacting protein
Potassium inwardly-rectifying channel, subfamily J, member 11

Ribosomal protein S28
Ribosomal protein S19
Ribosomal protein S26
Ribosomal protein S29
Ribosomal protein S24
Ribosomal protein S17
Ribosomal protein L35A
Ribosomal protein L5
Ribosomal protein L11
Ribosomal protein S7
Ribosomal protein S10
Methylthioadenosine phosphorylase
Plasmalemma vesicle-associated protein
Serine protease inhibitor, Kunitz-type, 2 (hepatocyte growth factor activator inhibitor 2; bikunin, placental)
Epithelial cellular adhesion molecule
Solute carrier family 9 (sodium/hydrogen exchanger), member 3
TBC1 domain family, member 24
Keratin 5
Protein O-fucosyltransferase 1
Protein O-glucosyltransferase 1
v-MAF musculoaponeurotic fibrosarcoma oncogene family, protein B
sal-like 4
ATP-binding cassette, subfamily C, member 2 (canalicular multispecific organic anion transporter)
Glucose-6-phosphatase, catalytic, 3
Sterile alpha motifs- and SH3 domain-containing protein 1
ATP-binding cassette, subfamily B, member 6
Codanin 1
CDAN1 interacting nuclease 1
Kruppel-like factor 1, erythroid
TRF1-interacting nuclear factor 2
Regulator of telomere elongation helicase 1
Nucleolar protein family A, member 3
Nucleolar protein family A, member 2
WD repeat-containing protein antisense to TP53
Polyadenylate-specific ribonuclease
Dyskerin
Plasminogen
Coagulation factor II (thrombin)
Heparan sulfate proteoglycan of basement membrane (perlecan)
Collagen VI, alpha-3 polypeptide
Collagen VII, alpha-1 polypeptide
Ectodysplasin A
EDAR-associated death domain
Gap junction protein, beta-6 (connexin-30)
MSH homeobox 1

Keratin 85
Homeo box-C13
Inhibitor of kappa light polypeptide gene enhancer in B cells, kinase of, gamma (NF-kappa-B essential mo
Nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha
Ras homolog gene family, member A (oncogene RHO H12)
Nectin 4
Cadherin-3 (P-cadherin)
Plakophilin-1
Collagen V, alpha-1 polypeptide
Collagen V, alpha-2 polypeptide
Tenascin XB
AE-binding protein 1
ADAM metallopeptidase with thrombospondin type 1 motif, 2 (procollagen I N-proteinase)
Procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase)
FK506-binding protein 14
Carbohydrate (N-acetylgalactosamine 4-O) sulfotransferase 14
Dermatan sulfate epimerase
Complement component-1, r subcomponent
Complement component-1, s subcomponent
Beta-1,4-galactosyltransferase 7
UDP-Gal:beta-Gal beta-1,3-galactosyltransferase polypeptide 6
Solute carrier family 39 (zinc transporter), member 13
Collagen III, alpha-1 polypeptide
Erythrocyte surface protein band 4.1
Spectrin, alpha, erythrocytic-1
EVC2 (limbin) gene
Cadherin-11 (OB-cadherin, osteoblast)
GATA-binding protein-2
Alpha-1-antitrypsin (serpin peptidase inhibitor, clade A, member 1)
Fibroblast growth factor receptor-1 (fms-related tyrosine kinase-2)
Methyl-CpG-binding protein-2
Tubulin-specific chaperone D
NAD(P)HX dehydratase
NAD(P)HX epimerase
Tubulin-specific chaperone E
Calcium- and integrin-binding protein 1
Transmembrane channel-like 6
Integrin, beta-4
Kelch-like 24
Laminin, alpha-3 (nicein, 150kD; kalinin, 165kD; BM600, 150kD; epiligrin)
Laminin, gamma-2 (nicein, 100kD; kalinin, 105kD; BM600, 100kD)
Collagen XVII, alpha-1 polypeptide
Integrin, alpha-6
Exophilin 5
Keratin 1

Keratin 10
Spermatogenesis-associated protein 5
Cystatin B (stefin B)
Natriuretic peptide receptor 2
Sodium channel, voltage-gated, type X, alpha subunit
Sodium channel, voltage-gated, type XI, alpha subunit
Sodium channel, voltage-gated, type IX, alpha subunit
VHL gene
2,3-bisphosphoglycerate mutase
Desmoglein-1
Gap junction protein, beta-3
Gap junction protein, beta-4
Gap junction protein, alpha-1, 43kD (connexin 43)
3-ketodihydrosphingosine reductase
Keratin 83
p53 effector related to PMP22
Transient receptor potential cation channel, subfamily M, member 4
Cholinergic receptor, nicotinic, gamma polypeptide
Fusion, derived from 12-16 translocation, malignant liposarcoma
Estrogen receptor 1
ETHE1 gene
Cytochrome c oxidase, subunit IV, isoform 2
Exostosin glycosyltransferase 2
Low density lipoprotein receptor-related protein-5
Catenin (cadherin-associated protein), beta 1, 88kD
Galactosidase, alpha
Multiple coagulation factor deficiency protein 2
NLR family, pyrin domain containing 12
Pyrin (marenostrin)
Fanconi anemia, complementation group A
Fanconi anemia, complementation group B gene
Fanconi anemia, complementation group C
BRCA2 gene
Fanconi anemia, complementation group D2
Fanconi anemia, complementation group E gene
FANCI gene
PHD finger protein 9
RAD52 paralog C
Slx4, *S. cerevisiae*, homolog of
Excision-repair, complementing defective, in Chinese hamster, number 4
Breast cancer-1 gene
Ubiquitin-conjugating enzyme E2T
Solute carrier family 2 (facilitated glucose transporter), member 2
N-acylsphingosine amidohydrolase (acid ceramidase) 1
Collagen XI, alpha-2 polypeptide

Activin A receptor, type I
RE1-silencing transcription factor
Cytoskeleton-associated protein 2-like
Polymerase, DNA, epsilon
NHL repeat-containing protein 2
Lecithin-cholesterol acyltransferase
SNF2-related CBP activator protein
Porcupine O-acyltransferase
Cytochrome P450, subfamily XXVIC, polypeptide 1
Solute carrier family 46 (folate transporter), member 1
Solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 24
SH3 and PX domains-containing protein 2B
FRAS1 gene
Aldolase B, fructose-bisphosphatase
Fructose-bisphosphatase 1
Fucosidase, alpha-L- 1, tissue
Fumarate hydratase
YY1 transcription factor
Galactokinase-1
UDP galactose-4-epimerase
Galactose-1-phosphate uridylyltransferase
Cathepsin A (protective protein for beta-galactosidase)
WD repeat-containing protein 73
L antigen family member 3
O-sialoglycoprotein endopeptidase
TP53-regulating kinase
TP53RK-binding protein
WD repeat-containing protein 4
Nucleoporin, 107kD
Anthrax toxin receptor 1
Adenomatous polyposis coli
Tetratricopeptide repeat domain 7A
Succinate dehydrogenase complex, subunit B, iron sulfur (Ip)
Succinate dehydrogenase complex, subunit C, integral membrane protein, 15kD
Hardy-Zuckerman 4 feline sarcoma (v-kit) oncogene
Glucosidase, acid beta
Deleted in colorectal carcinoma
ADAMTS-like protein 2
Fibrillin-1
Lysine acetyltransferase 6B
Golgin, RAB6-interacting
Solute carrier family 12 (sodium/potassium/chloride transporters), member 3
Special AT-rich sequence-binding protein 2
Paired box homeotic gene-2
Glomulin

Melanocortin 2 receptor accessory protein
Nicotinamide nucleotide transhydrogenase
Melanocortin-2 receptor (ACTH receptor)
Nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)
Solute carrier family 2 (facilitated glucose transporter), member 1
Formiminotransferase cyclodeminase
Glutamate-ammonia ligase (glutamine synthase)
Electron transfer flavoprotein, alpha polypeptide
Electron transfer flavoprotein, beta polypeptide
Electron transfer flavoprotein:ubiquinone oxidoreductase
Glutathione synthetase
Glucose-6-phosphatase, catalytic
Solute carrier family 37 (glucose-6-phosphate transporter), member 4
Glucosidase, acid alpha-
Amylo-1,6-glucosidase, 4-alpha-glucanotransferase (glycogen debranching enzyme)
Glycogen branching enzyme
Phosphorylase kinase, gamma 2 (testis/liver)
Protein kinase, AMP-activated, noncatalytic, gamma-2
Phosphofructokinase, muscle type
Aldolase A, fructose-bisphosphatase
Phosphorylase kinase, liver, alpha-2 subunit
Phosphatidylinositol glycan, class W
Phosphatidylinositol glycan, class S
Phosphatidylinositol glycan, class M
Galactosidase, beta-1
Anoctamin 5
dicer 1, ribonuclease III
Protein phosphatase 2, regulatory subunit B-double prime, gamma
Family with sequence similarity 111, member A
Neurobeachin-like 2
GLI-Kruppel family member GLI3 (oncogene GLI3)
Myosin Va
Ras-associated protein RAB27A
Melanophilin
Homeo box gene expressed in ES cells
Growth hormone-1
Signal transducer and activator of transcription 5B
Growth hormone receptor
Fat mass- and obesity-associated gene
ATPase, Ca(2+)-sequestering
Cathepsin C
Iroquois homeo box protein 5
Ubiquitin-specific protease-7, herpes virus-associated
Pantothenate kinase 2
Solute carrier family 6 (neurotransmitter transporter), member 19

Peroxisome biogenesis factor-1
Peroxisomal biogenesis factor 6 (peroxisomal AAA-type ATPase 1)
Hemoglobin alpha-2
Hemoglobin alpha-1
Claudin 10
Activity-dependent neuroprotector homeobox
Hemojuvelin
Hepcidin antimicrobial peptide
Transferrin receptor 2
Solute carrier family 40 (iron-regulated transporter), member 1
Glutamate-cysteine ligase, catalytic subunit
Hexokinase-1
Triosephosphate isomerase-1
Glucose-6-phosphate dehydrogenase
Glucose phosphate isomerase; neuroleukin
Perforin
unc-13 homolog D
Syntaxin-11
Syntaxin binding protein 2
Collagen and calcium-binding EGF domain-containing protein 1
FAT atypical cadherin 4
ADAM metallopeptidase with thrombospondin type 1 motif, 3
Lipase C, hepatic
SP110 nuclear body protein (interferon-induced protein 41, 30kD; interferon-induced protein 75, 52kD)
HPS gene 1
Adaptor-related protein complex 3, beta 1 subunit (adaptin, beta-3a)
HPS gene 3
HPS gene 4
HPS gene 5 (ruby-eye 2, mouse, homolog of)
HPS gene 6
Dystrobrevin-binding protein 1 (dysbindin)
Biogenesis of lysosome-related organelles complex 1, subunit 3
Zic family, member 3
Cryptic protein
Nodal, mouse, homolog of
Matrix metalloproteinase 21
Solute carrier family 29 (nucleoside transporter), member 3
3-hydroxy-3-methylglutaryl-Coenzyme A lyase
Holocarboxylase synthetase
Cell adhesion molecule-related/downregulated by oncogenes
SIX homeobox 3
Sonic hedgehog signaling molecule
TG-interacting factor 1
ZIC family, member 2
Methionine synthase reductase

Cystathionine beta-synthase
Chromosome 2 open reading frame 25
Lamin A/C
Anthrax toxin receptor 2
Aristaless-related homeobox, X-linked
HYLS1 gene
Mevalonate kinase
Zinc finger protein 341
Interleukin-6 signal transducer (gp130, oncostatin M receptor)
Dedicator of cytokinesis 8
Calcium channel, voltage-dependent, T type, alpha-1H subunit
UDP glycosyltransferase 1 family, polypeptide A1
Bile acid coenzyme A:amino acid N-acyltransferase (glycine N-choloyltransferase)
Apolipoprotein A-V
ATP-binding cassette, subfamily C, member 8 (sulfonylurea receptor)
Sodium channel, voltage-gated, type IV, alpha polypeptide
Glycosylphosphatidylinositol-anchored high density lipoprotein-binding protein 1
Solute carrier family 30 (zinc transporter), member 10
Solute carrier family 25 (mitochondrial carrier), member 15 (ornithine transporter 1)
Alanine-glyoxylate aminotransferase, liver-specific peroxisomal
Glyoxylate reductase/hydroxypyruvate reductase
Cell division cycle 73
Calcium-sensing receptor
6-pyruvoyltetrahydropterin synthase
Phosphatidylinositol glycan, class V
Phosphatidylinositol glycan, class O
Post-GPI attachment to proteins 2
Post-GPI attachment to proteins 3
Phosphatidylinositol glycan, class Y
Insulin
Thyroid-stimulating hormone receptor
ATP-binding cassette, subfamily C, member 9 (sulfonylurea receptor 2)
Glycerol-3-phosphate dehydrogenase, soluble
Solute carrier organic anion transporter family, member 2A1
Uromodulin (uromucoid, Tamm-Horsfall glycoprotein)
Sec61 translocon, alpha-1 subunit
Guanine nucleotide-binding protein, Gq class, GNA11
Adaptor-related protein complex 2, sigma 1 subunit
Murine thymoma viral (v-akt) homolog-2
Claudin 16 (paracellin 1)
Claudin 19
GATA-binding protein-3
Alkaline phosphatase, liver/bone/kidney
Dentin matrix acidic phosphoprotein
Phosphate regulating endopeptidase homolog, X-linked

Chloride channel-7
Lanosterol synthase
Corneodesmosin
Desmoglein 4
Lipase H
Lysophosphatidic acid receptor 6
SOX18, mouse, homolog of
Keratin 2
Solute carrier family 27 (fatty acid transporter), member 4
Filaggrin
Transglutaminase-1 (K polypeptide epidermal type I, protein-glutamine gamma-glutamyltransferase)
Patatin-like phospholipase domain-containing protein 1
Suppression of tumorigenicity 14
Caspase 14, apoptosis-related cysteine protease
Short chain dehydrogenase/reductase family 9C member 7
Sulfotransferase family 2B, member 1
Archidonate 12-lipoxygenase, R type
Arachidonate lipoxygenase 3
ATP-binding cassette, subfamily A, member 12
Cytochrome P450, family 4, subfamily F, polypeptide 22
NIPA-like domain-containing 4
Lipase family, member N
Ceramide synthase 3
Claudin 1
Elongation of very long chain fatty acids 4
Steroid sulfatase, microsomal (arylsulfatase C, isozyme S)
Elongation of very long chain fatty acids-like 1
Cyclin-dependent kinase inhibitor 1C (p57, Kip2)
Stromal interaction molecule 1
Mucosa-associated lymphoid tissue lymphoma translocation gene 1
Phosphatidylinositol 3-kinase, catalytic, 110kD, delta
Inhibitor of kappa light polypeptide gene enhancer in B cells, kinase of, beta
CD3G antigen, gamma polypeptide (TiT3 complex)
CD3E antigen, epsilon polypeptide (TiT3 complex)
CD3D antigen, delta polypeptide (TiT3 complex)
Fc fragment of IgG, low affinity III, receptor for (CD16)
Phosphoglucomutase-3 (N-acetylglucosamine-phosphate mutase 1)
Cytidine 5'-triphosphate synthetase 1
Protein kinase, DNA-activated, catalytic polypeptide (hyperradiosensitivity of murine SCID mutation, comp
Immune interferon, receptor for
Interferon gamma receptor-2 (interferon gamma transducer 1)
Interleukin-12B (natural killer cell stimulatory factor-2, cytotoxic lymphocyte maturation factor-2, p40)
Interleukin-12 receptor, beta-1
Signal transducer and activator of transcription-1
Interferon regulatory factor 8

Tyrosine kinase 2
ISG15 ubiquitin-like modifier
Dedicator of cytokinesis 2
Interleukin-2 receptor, alpha
RAR-related orphan receptor C
Transferrin receptor
ATPase, H⁺ transporting, lysosomal, accessory protein 1
BAF chromatin remodeling complex subunit BCL11B
Moesin
Interleukin 17 receptor A
Linker for activation of T cells
Minichromosome maintenance deficient, *S. cerevisiae*, homolog of, 4
GINS complex subunit 1
Receptor-interacting serine/threonine kinase 1
Capping protein regulator and myosin 1 linker 2
BTB and CNC homology 2
Interleukin-2 receptor, beta polypeptide
Ras guanyl nucleotide releasing protein-1
T-cell receptor alpha
Influenza virus NS1A protein-binding protein
Tripeptidyl peptidase II
Coronin 1A
Ikaros family zinc finger 3
ORAI calcium release-activated calcium modulator 1
Oncogene REL, avian reticuloendotheliosis
Late endosomal/lysosomal adaptor, MAPK and MTOR activator 2
Ficolin 3
Purine nucleoside phosphorylase
Uracil-DNA glycosylase
Activation-induced cytidine deaminase
CD40 antigen
DNA methyltransferase 3B
Zinc finger- and BTB domain-containing protein 24
Cell division cycle-associated 7
Helicase, lymphoid-specific
Inducible costimulator
Nuclear factor of kappa light chain gene enhancer in B-cells 2 (p49/p100); oncogene Lyt-10
Nuclear factor of kappa light chain gene enhancer in B-cells 1 (p105)
Ikaros family zinc finger 1
Tumor necrosis factor receptor superfamily, member 13B
CD19 antigen
Tumor necrosis factor receptor superfamily, member 13C
Membrane-spanning 4-domains, subfamily A, member 1
CD81 antigen (target of antiproliferative antibody-1)
Complement component (3d/Epstein-Barr virus) receptor-2

Lipopolysaccharide-responsive, beige-like anchor protein
Nuclear factor, erythroid-derived 2-like 2
Tumor necrosis factor ligand superfamily, member 5
Forkhead box P3 (scurfin)
Exostosin-like 3
Aconitase, mitochondrial
Neuroblastoma-amplified sequence
FAS-associating protein with death domain
Cytokine receptor, family II, member 4
Interleukin-10 receptor, alpha
Neurotrophic tyrosine kinase, receptor, type 1
Peroxisome proliferator activated receptor, gamma
Interleukin-1 receptor antagonist
Integrin, alpha-3
FANCD2/FANCI-associated nuclease 1
Gastric intrinsic factor
Interleukin 1 receptor-associated kinase 4
Transmembrane protease, serine 6 (matrilysin 2)
Isovaleryl Coenzyme A dehydrogenase
Retinoblastoma-binding protein 8
Potassium voltage-gated channel, KQT-like subfamily, member 1
Ubiquitin-protein ligase E3-alpha
Inositol polyphosphate-5-phosphatase, 72kD
OFD1 protein
Ciliogenesis and planar polarity effector 1
Tectonic family, member 3
Transmembrane protein 216
Transmembrane protein 231
Centrosome spindle pole-associated protein 1
KIAA0586 gene
Katanin-interacting protein
MKS1 gene
Abelson helper integration site 1
ADP-ribosylation factor-like 3
Laccase (multicopper reductase) domain-containing protein 1
Mothers against decapentaplegic, Drosophila, homolog of, 4
Lysine (K)-specific methyltransferase 2D
Lysine (K)-specific demethylase 6A
Acetylgalactosaminidase, alpha-N- (alpha-galactosidase B)
Immunoglobulin kappa constant region
Ubiquitin-protein ligase E3B
Ankyrin repeat domain-containing protein 11
Glypican 4
Potassium inwardly-rectifying channel, subfamily J, member 6
Gap junction protein, beta-2, 26kD (connexin 26)

Adaptor-related protein complex 1, beta 1 subunit (adaptin, beta)
Alpha- and gamma-adaptin-binding protein
Cathepsin B (regulatory element, cis-acting, enhancer upstream of CTSB, included)
Proteasome maturation protein
Matrix Gla protein
Non-SMC condensin II complex subunit G2
Fermitin family, member 1
Euchromatic histone methyltransferase 1
Collagen XVIII, alpha-1 polypeptide
KAT8 regulatory NSL complex subunit 1
Platelet-derived growth factor receptor, beta polypeptide
Galactosylceramidase
L-2-hydroxyglutarate dehydrogenase
Sterol C5-desaturase-like
Sprouty-related EVH1 domain-containing protein 1
Succinate dehydrogenase complex, subunit A, flavoprotein
Phosphatidylserine synthase 1
Protein tyrosine phosphatase, nonreceptor-type, 11
Oncogene RAF1
Insulin receptor
Integrin, beta-2 (antigen CD18 (p95), lymphocyte function-associated antigen-1; macrophage antigen, beta)
Fermitin family, member 3
Polymerase III, RNA, subunit A
Ligase IV, DNA, ATP-dependent
Holocytochrome c synthase (cytochrome c heme-lyase)
Cytochrome c oxidase, subunit VIIb
NADH-ubiquinone oxidoreductase subunit B11
1-acylglycerol-3-phosphate O-acyltransferase 2 (lysophosphatidic acid acyltransferase-beta)
Seipin
Caveolae-associated protein 1
Perilipin 1
Lipase E, hormone-sensitive
Steroidogenic acute regulatory protein
tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase
Transforming growth factor, beta receptor I (activin A receptor type II-like kinase, 53kD)
Transforming growth factor, beta receptor II, 70-80kD
Mothers against decapentaplegic, Drosophila, homolog of, 3
Transforming growth factor, beta-2
Transforming growth factor, beta-3
Mediator of RNA polymerase II transcription, subunit 12, S. cerevisiae, homolog of
NSE3 homolog, SMC5-SMC6 complex component
SET domain-containing protein 2
Luteinizing hormone/choriogonadotropin receptor
fms-related tyrosine kinase-4 (vascular endothelial growth factor receptor 3)
Gap junction protein, gamma-2 (47kD)

Vascular endothelial growth factor C
Forkhead box C2
T-cell-specific tyrosine kinase; homolog of mouse T-cell itk/tsk tyrosine kinase
CD27 antigen
Tumor necrosis factor ligand superfamily, member 7 (CD70 antigen)
SH2 domain protein 1A
Inhibitor of apoptosis, X-linked
Solute carrier family 7 (cationic amino acid transporter, y⁺ system), member 7
Procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3 (lysyl hydroxylase 3)
RAS and RAB interactor 2
Myosin, heavy polypeptide-9, nonmuscle
Lipin 2
Polymerase (DNA directed), delta 1, catalytic subunit
Zinc metalloproteinase STE24
Endothelin receptor type A
Elongation factor Tu GTP-binding domain-containing 2
Mannosidase, alpha, class 2B, member 1
Mannosidase, beta A, lysosomal
Branched chain keto acid dehydrogenase E1, alpha polypeptide
Branched chain keto acid dehydrogenase E1, beta polypeptide
Dihydrolipoamide branched chain transacylase (E2 component of branched chain keto acid dehydrogenase)
Nuclear factor I/X (CCAAT-binding transcription factor)
RAB3 GTPase-activating protein (noncatalytic) subunit 2
Mannan-binding lectin serine protease 2
Kell blood group precursor
Nephrocystin 3
Adaptor-related protein complex 1, sigma 1 subunit
v-Akt murine thymoma viral oncogene homolog 3
Origin recognition complex, subunit 1
Origin recognition complex, subunit 6, *S. cerevisiae*, homolog of Geminin
Neuroblastoma RAS viral (v-ras) oncogene homolog
Serine/threonine protein kinase-11
Secreted LY6/uPAR-related protein 1
ATPase, Cu⁺⁺ transporting, alpha polypeptide
Lysine-specific demethylase 5C (Jumonji, AT-rich interactive domain 1C)
SRY (sex determining region Y)-box 3
Cytochrome b5
MMACHC gene
Peroxisredoxin 1
LMBR1 domain-containing protein 1
ATP-binding cassette, subfamily D, member 4 (peroxisomal membrane protein 1-like)
Methylmalonyl Coenzyme A mutase
MMAA gene
MMAB gene

RNA, U4, small nuclear, AT-AC form
Pericentrin
Kinesin family member 11
Methylsterol monooxygenase 1
Immediate-early response 3-interacting protein 1
Bestrophin 1
Myosin VB
Dihydroorotate dehydrogenase
Sterile alpha motif domain-containing protein 9
DNA mismatch repair protein MLH1
mutS homolog 2
mutS homolog 6
PMS1 homolog 2, mismatch repair system component
NADH-ubiquinone oxidoreductase core subunit S2
NADH-ubiquinone oxidoreductase core subunit S3
Succinate dehydrogenase complex, subunit D, integral membrane protein
Transmembrane protein 70
Mitochondrial genome maintenance exonuclease 1
F-box and leucine-rich repeat protein 4
Polymerase, DNA, gamma-2
Deoxyguanosine kinase, mitochondrial
Polymerase (DNA directed), gamma
Mitochondrial inner membrane protein MPV17
Ferredoxin 2
Dachsous, Drosophila, homolog of, 1
Translocase of inner mitochondrial membrane 8, yeast, homolog of, A
Gephyrin
Keratin 81
Keratin 86
Zinc finger E box-binding homeobox 2
Guanylate cyclase 1, soluble, alpha 3
Actin, alpha-2, smooth muscle, aorta
N-acetylglucosamine-1-phosphate transferase, alpha/beta subunits
Mucolipin 1
Iduronidase, alpha-L-
Iduronate 2-sulfatase (Hunter syndrome)
Galactosamine (N-acetyl)-6-sulfate sulfatase
N-sulfoglucosamine sulfohydrolase (sulfamidase)
N-acetylglucosaminidase, alpha-
Heparan-alpha-glucosaminide N-acetyltransferase
N-acetylglucosamine-6-sulfatase
Arylsulfatase B
Glucuronidase, beta-
Vacuolar protein sorting 33, yeast, homolog of, A
Tripartite motif-containing 37

Matrix metalloproteinase 2 (gelatinase A, 72kD type IV collagenase)
Phosphatidylinositol glycan, class N
Phosphatidylinositol glycan, class A
Phosphatidylinositol glycan, class T
Menin
RET transforming sequence; oncogene RET
Cyclin-dependent kinase inhibitor 1B (p27, Kip1)
Beta-1,3-glucuronyltransferase 3
Cholinergic receptor, nicotinic, alpha polypeptide-1, muscle
Cholinergic receptor, nicotinic, delta polypeptide
Sulfatase-modifying factor-1
Noggin, mouse, homolog of
Fibroblast growth factor-9 (glia-activating factor)
Agrin
Chemokine (C-X-C motif) receptor 4 (neuropeptide Y receptor Y3)
Myeloperoxidase
Kinesin family member 5A
Potassium voltage-gated channel, KQT-like subfamily, member 2
BCL2-associated athanogene 3
Phospholipase C, delta-1
LIM homeo box transcription factor 1, beta
Membrane-type frizzled-related protein
Junction plakoglobin
CD151 antigen
Barrier to autointegration factor 1
Serine protease inhibitor, Kazal type, 5
Phosphoglycerate dehydrogenase
Neurofibromin (neurofibromatosis, type I)
Merlin
Patatin-like phospholipase domain-containing protein 2
Elastase, neutrophil-expressed
HCLS1-associated protein X1
Vacuolar protein sorting 45 homolog
Jagunal homolog 1
Colony-stimulating factor-3 receptor (granulocyte)
Signal recognition particle, 54kD
Wiskott-Aldrich syndrome gene
Rac family small GTPase 2
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2
Sphingomyelin phosphodiesterase-1, acid lysosomal
NPC1 gene
Epididymal secretory protein HE1
RAD50 double strand break repair protein
Leucine-zipper-like regulator-1
Muscle Ras viral oncogene homolog

Mitogen-activated protein kinase 1
Ric-like protein without CAAX motif 1
SOS Ras/Rac guanine nucleotide exchange factor 2
Protein phosphatase-1, catalytic subunit, beta isoform
Cas-Br-M ecotropic retroviral transforming sequence (Oncogene CBL2)
Suppressor of clear, *C. elegans*, homolog of
Norrin
Lysine (K)-specific methyltransferase 2E
Proopiomelanocortin (adrenocorticotropin/beta-lipotropin)
Phosphatidylinositol 3-kinase, class 2, alpha
Wingless-type MMTV integration site family, member 10A
N-alpha-acetyltransferase 10, NatA catalytic subunit
DNA cross-link repair protein 1C
Glypican 6
Frizzled class receptor 2
Inositol polyphosphate phosphatase-like 1
Transmembrane protein 126A
SRY (sex determining region Y)-box 2
Ornithine transcarbamylase
Uridine monophosphate synthetase (orotate phosphoribosyl transferase and orotidine-5'-decarboxylase)
GNAS complex locus (guanine nucleotide binding protein (G protein), alpha stimulating activity polypeptide)
Thyroid hormone receptor interactor 11
Osteonectin (secreted protein, acidic, cysteine-rich)
Tumor necrosis factor receptor superfamily, member 11A
Keratin 16
Keratin 17
Keratin 6A
Keratin 6B
Tumor necrosis factor receptor superfamily, member 11B (osteoprotegerin)
R-spondin 1
KN motif- and ankyrin repeat domain-containing protein 2
Aquaporin-5
Keratin 9
Serpine peptidase inhibitor, clade B (ovalbumin), member 7
Keratin 6C
Protease, serine, 1 (trypsin 1)
Serine protease inhibitor, Kazal type I (pancreatic secretory trypsin inhibitor)
Succinate dehydrogenase complex assembly factor 2
Solute carrier family 25 (mitochondrial carrier; oxoglutarate carrier), member 11
Dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex)
msh homeobox 2
SRY (sex-determining region Y)-box-10
Transglutaminase 5
Cystatin A (stefin A)
Serpine family B, member 8

Filaggrin family, member 2
Calpastatin
Zinc finger HIT domain-containing protein 3
Proteolipid protein 1
Solute carrier family 26 (sulfate transporter), member 4
Tumor necrosis factor receptor superfamily, member 1A
WD repeat-containing protein 1
Ubiquitin protein ligase NEDD4-like
DIS3 like exosome 3'-5' exoribonuclease 2
Peroxisome biogenesis factor 13 (peroxin 13)
Peroxisome biogenesis factor 19 (peroxisomal farnesylated protein)
Peroxisome biogenesis factor 14
Peroxisome biogenesis factor 5
Peroxisome biogenesis factor 12
Peroxisome biogenesis factor 2
Peroxisome biogenesis factor 10
Peroxisome biogenesis factor 26
Peroxisome biogenesis factor 16
Peroxisomal biogenesis factor-7
Atonal, Drosophila, homolog of, 7
SH3 and multiple ankyrin repeat domains 3
Phosphoserine phosphatase
snail, Drosophila, homolog of, 2 (Neural crest transcription factor SLUG)
Transducin-beta-like 1 receptor 1
Laminin, beta-2 (laminin S)
Polymerase, DNA, alpha-1
Protein kinase, cAMP-dependent, regulatory, type I, alpha
Phosphodiesterase 11A
Phosphodiesterase 8B
Chromodomain helicase DNA binding protein-1
Neurexin 1
POU domain, class 1, transcription factor 1 (Pit1, growth hormone factor 1)
Prophet of Pit1, paired-like homeodomain transcription factor
LIM/homeodomain protein LHX3
LIM homeo box gene 4
Orthodenticle, Drosophila, homolog of, 2
Caspase recruitment domain-containing protein 14
Actin-related protein 2/3 complex, subunit 1B
Runt-related transcription factor 1 (aml1 oncogene)
Phospholipase A2, group VII (platelet-activating factor acetylhydrolase)
U6 small nuclear RNA biogenesis phosphodiesterase 1
Family with sequence similarity 111, member B
TYRO protein tyrosine kinase-binding protein
Triggering receptor expressed on myeloid cells 2
RANBP-type and C3HC4-type zinc finger-containing 1

Interferon regulatory factor 6
Phosphomevalonate kinase
Mevalonate pyrophosphate decarboxylase
Solute carrier family 17, member 9
Farnesyl diphosphate synthase
Uroporphyrinogen decarboxylase
Protoporphyrinogen oxidase
Uroporphyrinogen III synthase
Alsin
Peptidase D (prolidase)
Properdin P factor, complement
Propionyl Coenzyme A carboxylase, alpha polypeptide
Propionyl Coenzyme A carboxylase, beta polypeptide
Proteasome subunit, beta type, 8 (large multifunctional protease-7)
Ferrochelataase
Occludin
Ubiquitin-specific protease 18
WNK lysine deficient protein kinase 1
Syntaxin 16
Gamma-glutamyl carboxylase
Interleukin 36 receptor antagonist
Surfactant, pulmonary-associated protein A2
Cathepsin K
Myeloid differentiation primary response gene 88
Proline-serine-threonine phosphatase-interacting protein 1
Histone 1, H1e
Phytanoyl-CoA hydroxylase
Adenylate kinase-2, mitochondrial
ADAM metallopeptidase domain 10
Retinol-binding protein-4, interstitial
CWC27 spliceosome-associated cyclophilin
RING finger protein 168
Growth/differentiation factor 1
WASH complex, subunit 5
Coiled-coil domain-containing protein 22
Establishment of cohesion 1, *S. cerevisiae*, homolog of, 2
Wingless-type MMTV integration site family, member 5A
Dishevelled segment polarity protein 1
Dishevelled 3 (homologous to *Drosophila* dsh)
Nucleoredoxin
Receptor tyrosine kinase-like orphan receptor 2
TWIST, *Drosophila*, homolog of, 1
Anaphase-promoting complex, subunit 1
CREB binding protein
E1A-binding protein, 300kD

T-box transcription factor T
Nucleoporin, 188kD
Hexosaminidase B, beta polypeptide
Potassium channel tetramerization domain-containing 1
MAGE-like 2
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily A-like
SET-binding protein 1
Phosphofurin acidic cluster sorting protein 1
Janus kinase 3 (Janus kinase, leukocyte)
Doublecortin domain-containing protein 2
Zinc finger protein 750
Non-SMC element 2, *S. cerevisiae*, homolog of
Centrosomal protein, 152kD
TRAF-interacting protein
Serologically defined colon cancer antigen 8
Adenosine deaminase
Nonhomologous end-joining factor 1
Protein tyrosine phosphatase, receptor type, c polypeptide
Interleukin-7 receptor
Additional sex combs-like 2
SKI proto-oncogene
Elongation factor-like GTPase 1
SBDS gene
Solute carrier family 17 (sodium phosphate), member 5
Neuraminidase 1 (lysosomal sialidase; sialidase 1)
UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase
Sodium channel, voltage-gated, type V, alpha polypeptide
tRNA nucleotidyltransferase, CCA-adding, 1
H19 gene
Glypican 3
DEAD box polypeptide 58
ATP-binding cassette, subfamily G, member 5
ATP-binding cassette, subfamily G, member 8
Aldehyde dehydrogenase 3 family, member A2 (fatty aldehyde dehydrogenase)
Zinc finger- and BTB domain-containing protein 16 (promyelocytic leukemia zinc finger)
WD repeat-containing protein 26
Mechanistic target of rapamycin
Delta-7-dehydrocholesterol reductase
Retinoic acid-induced gene 1
Nuclear receptor binding SET domain protein 1
SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin, subfamily d, member 2
CCAAT/enhancer-binding protein (C/EBP), epsilon
Ankyrin-1, erythrocytic
Spectrin, beta, erythrocytic
Wingless-type MMTV integration site family, member 10B

Acid phosphatase 5, tartrate resistant
Phosphate cytidylyltransferase 1, choline, alpha isoform
Tumor necrosis factor receptor superfamily, member 10B
Inhibitor of growth 1
Proteasome 26S subunit, non-ATPase, 12
Transmembrane protein 173
Vac14, *S. cerevisiae*, homolog of
Centromere autoantigen F, 400kD
Guanine nucleotide-binding protein (G protein), q
Leukemia inhibitory factor receptor
Platelet-activating factor acetylhydrolase, isoform 1B, alpha subunit
Sulfite oxidase
Microtubule-associated protein, RP/EB family, member 2
Deoxyribonuclease I-like 3
Forkhead box N1 (winged helix nude)
Serine/threonine protein kinase 4
Hepatitis A virus cellular receptor 2
Cell division cycle 42 (GTP-binding protein, 25kD)
ATP-binding cassette 1
RNA-binding motif protein 10
DNA methyltransferase 3A
Endoglin
Activin A receptor, type II-like kinase 1
Growth differentiation factor 2 (bone morphogenetic protein 9)
Potassium voltage-gated channel, subfamily H, member 1 (ether-a-go-go, drosophila, homolog of)
RING finger protein 125
Fibroblast growth factor, acidic, intracellular binding protein
Solute carrier family 19 (thiamine transporter), member 2
Thrombopoietin (megakaryocyte growth and development factor)
Ankyrin repeat domain-containing protein 26
ETS variant gene-6 (TEL oncogene)
RNA-binding motif protein 8A
MPL proto-oncogene (thrombopoietin receptor)
Fc fragment of IgG, low affinity IIc, receptor for
Coagulation factor V (proaccelerin, labile factor)
Protein C (inactivator of coagulation factors Va and VIIIa)
Protein S, alpha
ADAM metallopeptidase domain with thrombospondin type 1 motif, 13
Thyrotropin-releasing hormone
Calcium channel, voltage-dependent, L type, alpha 1C subunit
Sal-like 1
Transaldolase-1
Transcobalamin II
Mediator complex subunit 13-like
Treacle

Polymerase I, RNA, subunit D
Polymerase I, RNA, subunit C
Tetratricopeptide repeat domain 37
Superkiller viralicidic activity 2, *S. cerevisiae*, homolog, like
Coiled-coil domain-containing protein 47
Zinc finger transcription factor TRPS1
Excision-repair cross-complementing rodent repair deficiency, complementation group 3
General transcription factor IIH, polypeptide 5
M-phase specific PLK1 interacting protein
General transcription factor IIE, polypeptide 2, beta subunit, 34kD
Threonyl-tRNA synthetase 1
Flavin-containing monooxygenase 3
Dihydroxyacetone kinase 2, *S. cerevisiae*, homolog of
Hamartin (tuberous sclerosis 1 gene)
Tuberin (tuberous sclerosis 2 gene)
BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)
UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 3
Ring finger protein 110 (zinc finger protein-144)
Fumarylacetoacetase
Tyrosine aminotransferase, soluble
Extracellular matrix protein-1
UV-stimulated scaffold protein A
Grainyhead-like 3
Engulfment and cell motility gene 2
T-box 1
TEK tyrosine kinase, endothelial
Poly-U-binding splicing factor, 60kD
T-box 2
Adhesion G protein-coupled receptor E2
Ectopic P-granules autophagy protein 5 homolog
Actin, gamma-2, smooth muscle, enteric
Acyl-Coenzyme A dehydrogenase, very long chain
Loricrin
loricrin cornified envelope precursor protein
Coagulation factor VIII VWF (von Willebrand factor)
Paired box homeotic gene-3
Endothelin-3
RAB3 GTPase-activating protein, catalytic subunit
Discoidin domain receptor family, member 2
DEAD/H box-11 (CHL1-related helicase gene-1)
Enhancer of zeste, *Drosophila*, homolog of, 2
ADAM metallopeptidase domain with thrombospondin type 1 motif, 10
DNA helicase, RecQ-like 2
Keratin 13
POGO transposable element with ZNF domain

Zinc finger C4H2 domain-containing protein
Lysine (K)-specific methyltransferase 2E
ATPase, Cu⁺⁺ transporting, beta polypeptide
Sin3, yeast, homolog of, A
Eukaryotic translation initiation factor 2-alpha kinase 3
Wolframin
CDGSH iron sulfur domain protein 2
DDB1- and CUL4-associated factor 17
Xanthine dehydrogenase (xanthine oxidase)
XPA complementing gene
XPC gene
Damage-specific DNA binding protein 2, 48kD
Polymerase, DNA, eta
Telomere maintenance 2, *S. cerevisiae*, homolog of
Potassium channel, calcium-activated, intermediate/small conductance, subfamily N, member 3
Solute carrier family 30 (zinc transporter), member 2
SON DNA-binding protein

Entrez gene ID	Ensembl gene ID
133686	ENSG00000152620
5663	ENSG00000080815
8200	ENSG00000125965
29760	ENSG00000095585
56262	ENSG00000136802
5295	ENSG00000145675
374654	ENSG00000166813
197	ENSG00000145192
567	ENSG00000166710
133396	ENSG00000164509
55240	ENSG00000115107
9790	ENSG00000165733
57222	ENSG00000113719
91754	ENSG00000119638
5111	ENSG00000132646
841	ENSG00000064012
80184	ENSG00000198707
51057	ENSG00000143951
5825	ENSG00000117528
5568	ENSG00000165059
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727857	ENSG00000205899
112744	ENSG00000112116
10758	ENSG00000056972
55699	ENSG00000067704
2068	ENSG00000104884
9723	ENSG00000170381
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79947	ENSG00000117682
22796	ENSG00000135775
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112752	ENSG00000119650
57728	ENSG00000157796
545	ENSG00000175054
10516	ENSG00000140092
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6141	ENSG00000063177
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126695	ENSG00000175707
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23384	ENSG00000100014
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9915	ENSG000000172379
4053	ENSG000000119681
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7456	ENSG000000115935
50489	ENSG000000116031
4157	ENSG000000258839
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10913	ENSG000000135960
3073	ENSG000000213614
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23729	ENSG000000197417
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7299	ENSG000000077498
283652	ENSG000000188467
51151	ENSG000000164175
4254	ENSG000000049130
7306	ENSG000000107165
7012	ENSG000000277925
1314	ENSG000000122218
355	ENSG000000026103
7157	ENSG000000141510
1277	ENSG000000108821

4153	ENSG00000165471
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4312	ENSG00000196611
650	ENSG00000125845
336	ENSG00000158874
9394	ENSG00000136720
10371	ENSG00000075213
1029	ENSG00000147889
1019	ENSG00000135446
3077	ENSG00000010704
4160	ENSG00000166603
1278	ENSG00000164692
64131	ENSG00000103489
64132	ENSG00000015532
4624	ENSG00000197616
3458	ENSG00000111537
595	ENSG00000110092
1586	ENSG00000148795
64087	ENSG00000131844
84947	ENSG00000122335
81570	ENSG00000162129
27429	ENSG00000115317
5648	ENSG00000127241
26873	ENSG00000178814
2245	ENSG00000102302
1910	ENSG00000136160
117581	ENSG00000233608
8086	ENSG00000094914
1280	ENSG00000139219
23385	ENSG00000162736
55851	ENSG00000205155
55630	ENSG00000147804
488	ENSG00000174437
658	ENSG00000138696
57514	ENSG00000031081
57572	ENSG00000130158
3516	ENSG00000168214
285203	ENSG00000163378
4851	ENSG00000148400
54567	ENSG00000128917
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5313	ENSG00000143627
56916	ENSG00000163104
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3284	ENSG00000203859

190	ENSG000000169297
9095	ENSG000000143178
215	ENSG000000101986
8626	ENSG000000073282
2243	ENSG000000171560
2244	ENSG000000171564
2266	ENSG000000171557
3507	NULL
3543	ENSG000000128322
973	ENSG000000105369
974	ENSG000000007312
6929	ENSG000000071564
471	ENSG000000138363
11277	ENSG000000213689
79621	ENSG000000136104
84153	ENSG000000172922
10535	ENSG000000104889
103	ENSG000000160710
64135	ENSG000000115267
8558	ENSG000000185324
28960	ENSG000000110063
29926	ENSG000000144591
182	ENSG000000101384
4853	ENSG000000134250
51574	ENSG000000174720
83938	ENSG000000148655
217	ENSG000000111275
3081	ENSG000000113924
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55806	ENSG000000168453
5345	ENSG000000167711
38	ENSG000000075239
23600	ENSG000000242110
5896	ENSG000000166349
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1285	ENSG000000169031
1286	ENSG000000081052
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2294	ENSG000000103241
3914	ENSG000000196878
3694	ENSG000000115221
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335	ENSG000000118137
2934	ENSG000000148180
9180	ENSG000000145623

10457	ENSG000000136235
4069	ENSG000000090382
23064	ENSG000000107290
10801	ENSG000000184640
6023	ENSG000000269900
3759	ENSG000000123700
212	ENSG000000158578
51218	ENSG000000182512
3313	ENSG000000113013
2623	ENSG000000102145
7337	ENSG000000114062
2161	ENSG000000131187
710	ENSG000000149131
5447	ENSG000000127948
2263	ENSG000000066468
2255	ENSG000000070193
4683	ENSG000000104320
1588	ENSG000000137869
1824	ENSG000000134755
1832	ENSG000000096696
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Phenotypes

?2,4-dienoyl-CoA reductase deficiency, 616034 (3), Autosomal recessive
?Acne inversa, familial, 3, 613737 (3), Autosomal dominant; Alzheimer disease, type 3, 607822 (3), Autosomal dominant
?Acromesomelic dysplasia, Hunter-Thompson type, 201250 (3), Autosomal recessive; Brachydactyly, type 1, 601200 (3), Autosomal recessive
?Agammaglobulinemia 4, 613502 (3), Autosomal recessive
?Agammaglobulinemia 5, 613506 (3), Autosomal dominant
?Agammaglobulinemia 7, autosomal recessive, 615214 (3), Autosomal recessive; Immunodeficiency 36, 601200 (3), Autosomal recessive
Acrocallosal syndrome, 200990 (3), Autosomal recessive; ?Al-Gazali-Bakalinova syndrome, 607131 (3), Autosomal recessive
?Alopecia-mental retardation syndrome 1, 203650 (3), Autosomal recessive
?Amyloidosis, familial visceral, 105200 (3), Autosomal dominant; Immunodeficiency 43, 241600 (3), Autosomal dominant
?Amyloidosis, primary localized cutaneous, 2, 613955 (3), Autosomal dominant
?Anemia, hypochromic microcytic, with iron overload 2, 615234 (3), Autosomal dominant
?Aplasia cutis congenita, nonsyndromic, 107600 (3), Autosomal dominant
?Arthrogryposis multiplex congenita, neurogenic type, 208100 (3), Autosomal recessive
?Arthrogryposis, Perthes disease, and upward gaze palsy, 614262 (3), Autosomal recessive; Lethal congenital contracture syndrome 1, 601200 (3), Autosomal recessive
?Ataxia-telangiectasia-like disorder 2, 615919 (3), Autosomal recessive
?Autoimmune lymphoproliferative syndrome, type IIB, 607271 (3), Autosomal recessive; {Breast cancer, p16, 601200 (3), Autosomal recessive
?Bardet-Biedl syndrome 14, 615991 (3), Autosomal recessive; Joubert syndrome 5, 610188 (3), Autosomal recessive
?Bardet-Biedl syndrome 15, 615992 (3), Autosomal recessive; ?Congenital heart defects, hamartomas of the heart, 601200 (3), Autosomal recessive
?Bile acid synthesis defect, congenital, 5, 616278 (3), Autosomal recessive
?Bleeding disorder, platelet-type, 19, 616176 (3), Autosomal recessive
?Bleeding disorder, platelet-type, 22, 618462 (3), Autosomal recessive; {Prostate cancer/brain cancer susceptibility 1, 601200 (3), Autosomal recessive
?Camptosynpolydactyly, complex, 607539 (3), Autosomal recessive; Syndactyly, mesoaxial synostotic, with polydactyly, 601200 (3), Autosomal recessive
?Candidiasis, familial, 6, autosomal dominant, 613956 (3)
?Candidiasis, familial, 8, 615527 (3), Autosomal recessive; {Psoriasis susceptibility 13, 614070 (3)
?Cataracts, growth hormone deficiency, sensory neuropathy, sensorineural hearing loss, and skeletal dysplasia, 601200 (3), Autosomal recessive
?Cerebrooculofacioskeletal syndrome 2, 610756 (3), Autosomal recessive; Trichothiodystrophy 1, photosevere, 601200 (3), Autosomal recessive
?CHARGE syndrome, 214800 (3), Autosomal dominant
Aicardi-Goutieres syndrome 5, 612952 (3), Autosomal recessive; ?Chilblain lupus 2, 614415 (3), Autosomal dominant
Aniridia, 106210 (3), Autosomal dominant; Anterior segment dysgenesis 5, multiple subtypes, 604229 (3); Autosomal dominant
?Congenital disorder of glycosylation, type 1bb, 613861 (3), Autosomal recessive; Developmental delay and growth retardation, 601200 (3), Autosomal recessive
?Congenital disorder of glycosylation, type IIq, 617395 (3), Autosomal recessive
?Congenital disorder of glycosylation, type Ir, 614507 (3), Autosomal recessive
?Congenital disorder of glycosylation, type Is, 300884 (3), X-linked dominant; Epileptic encephalopathy, early onset, 601200 (3), Autosomal recessive
?Cowden syndrome 7, 616858 (3), Autosomal dominant; Dyserythropoietic anemia, congenital, type II, 22, 601200 (3), Autosomal recessive
?Cranioectodermal dysplasia 3, 614099 (3), Autosomal recessive; ?Retinitis pigmentosa 81, 617871 (3), Autosomal recessive
?Cranioectodermal dysplasia 4, 614378 (3), Autosomal recessive; Nephronophthisis 13, 614377 (3), Autosomal recessive
?Cutaneous telangiectasia and cancer syndrome, familial, 614564 (3), Autosomal dominant; Seckel syndrome 1, 601200 (3), Autosomal recessive
?Cutis laxa, autosomal dominant 2, 614434 (3), Autosomal dominant; Cutis laxa, autosomal recessive, type 1, 601200 (3), Autosomal recessive
?Diamond-Blackfan anemia 11, 614900 (3), Autosomal dominant
?Diamond-Blackfan anemia 12, 615550 (3), Autosomal dominant
?Diamond-Blackfan anemia 14 with mandibulofacial dysostosis, 300946 (3), X-linked recessive
?Diamond-Blackfan anemia 16, 617408 (3), Autosomal dominant
?Diamond-Blackfan anemia 17, 617409 (3), Autosomal dominant

?Diamond-Blackfan anemia 18, 618310 (3), Autosomal dominant
 ?Diamond-Blackfan anemia 20, 618313 (3), Autosomal dominant
 ?Dyskeratosis congenita, autosomal dominant 6, 616553 (3), Autosomal recessive, Autosomal dominant;
 ?Dyskinesia, seizures, and intellectual developmental disorder, 617171 (3), Autosomal recessive; Mental r
 Baraitser-Winter syndrome 1, 243310 (3), Autosomal dominant; ?Dystonia, juvenile-onset, 607371 (3), Au
 ?Ectodermal dysplasia 12, hypohidrotic/hair/tooth/nail type, 617337 (3), Autosomal dominant
 ?Ectodermal dysplasia 15, hypohidrotic/hair type, 618535 (3), Autosomal recessive
 ?Ectodermal dysplasia 7, hair/nail type, 614929 (3), Autosomal recessive; ?Hypotrichosis 3, 613981 (3), A
 Epidermolysis bullosa simplex with muscular dystrophy, 226670 (3), Autosomal recessive; ?Epidermolysis
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 ?Epileptic encephalopathy, early infantile, 15, 615006 (3), Autosomal recessive; Mental retardation, autoso
 ?Epileptic encephalopathy, early infantile, 40, 617065 (3), Autosomal recessive
 ?Exudative vitreoretinopathy 6, 616468 (3), Autosomal dominant; Retinitis pigmentosa 72, 616469 (3), Aut
 ?Facial clefting, oblique, 1, 600251 (3), Autosomal dominant; Hypertelorism, Teebi type, 145420 (3), Autos
 Autoinflammation with infantile enterocolitis, 616050 (3), Autosomal dominant; ?Familial cold autoinflamma
 {Breast cancer, susceptibility to}, 114480 (3), Autosomal dominant, Somatic mutation; ?Fanconi anemia, c
 ?Fanconi anemia, complementation group U, 617247 (3), Autosomal recessive
 ?Fanconi anemia, complementation group V, 617243 (3), Autosomal recessive
 ?Fanconi anemia, complementation group W, 617784 (3), Autosomal recessive
 Brown-Vialetto-Van Laere syndrome 1, 211530 (3), Autosomal recessive; ?Fazio-Londe disease, 211500
 Cardiac valvular dysplasia, X-linked, 314400 (3), X-linked; Congenital short bowel syndrome, 300048 (3),
 ?Fibromatosis, gingival, 1, 135300 (3), Autosomal dominant; Noonan syndrome 4, 610733 (3), Autosomal
 ?Galloway-Mowat syndrome 8, 618349 (3), Autosomal recessive; Nephrotic syndrome, type 18, 618177 (3)
 ?Glucocorticoid deficiency 5, 617825 (3), Autosomal recessive
 ?Glycoprotein Ia deficiency, 614200 (1), Autosomal dominant
 ?Granulomatous disease, chronic, autosomal recessive, cytochrome b-positive, type III, 613960 (3), Autos
 ?Growth restriction, severe, with distinctive facies, 616489 (3), Autosomal dominant
 ?Guttmacher syndrome, 176305 (3), Autosomal dominant; Hand-foot-uterus syndrome, 140000 (3), Autos
 ?Hemolytic anemia, congenital, X-linked, 301015 (3), X-linked recessive
 ?Hermansky-Pudlak syndrome 10, 617050 (3), Autosomal recessive
 ?Hermansky-pudlak syndrome 9, 614171 (3), Autosomal recessive
 ?Hypercarotenemia and vitamin A deficiency, autosomal dominant, 115300 (3), Autosomal dominant
 ?Hypercholanemia, familial, 607748 (3), Autosomal recessive
 ?Hypotrichosis and recurrent skin vesicles, 613102 (3), Autosomal recessive
 ?Cone-rod dystrophy (3); ?Immunodeficiency 13, 615518 (3), Autosomal dominant
 ?Immunodeficiency 16, 615593 (3), Autosomal recessive
 ?Immunodeficiency 22, 615758 (3), Autosomal recessive
 ?Immunodeficiency 25, 610163 (3), Autosomal recessive
 ?Immunodeficiency 37, 616098 (3), Autosomal recessive; Lymphoma, MALT, somatic, 137245 (3); {Lymph
 ?Immunodeficiency 39, 616345 (3), Autosomal recessive
 {Hepatitis B virus, susceptibility to}, 610424 (3); ?Immunodeficiency 45, 616669 (3), Autosomal recessive
 ?Immunodeficiency 53, 617585 (3), Autosomal recessive
 ?Immunodeficiency 59 and hypoglycemia, 233600 (3), Autosomal recessive
 ?Immunodeficiency 61, 300310 (3), X-linked recessive
 ?Immunodeficiency 62, 618459 (3), Autosomal recessive

?Immunodeficiency, common variable, 11, 615767 (3), Autosomal recessive
 ?Immunodeficiency, common variable, 14, 617765 (3), Autosomal dominant
 Epileptic encephalopathy, early infantile, 71, 618328 (3), Autosomal recessive; Global developmental delay
 ?Inflammatory skin and bowel disease, neonatal, 1, 614328 (3), Autosomal recessive
 Adenocarcinoma of lung, response to tyrosine kinase inhibitor in, 211980 (3), Autosomal dominant, Somat
 ?Joubert syndrome 29, 617562 (3), Autosomal recessive; Meckel syndrome 13, 617562 (3), Autosomal re
 ?Keratosis pilaris atrophicans, 604093 (3), Autosomal recessive
 ?Lacrimal duct defect, 149700 (3), Autosomal recessive
 Boucher-Neuhauser syndrome, 215470 (3), Autosomal recessive; ?Laurence-Moon syndrome, 245800 (3)
 {?Erythroleukemia, familial, susceptibility to}, 133180 (3), Autosomal dominant; ?Lethal congenital contrac
 Bronchiectasis with or without elevated sweat chloride 2, 613021 (3), Autosomal dominant; ?Liddle syndro
 ?Lipodystrophy, congenital generalized, type 3, 612526 (3), Autosomal recessive; Lipodystrophy, familial p
 ?Lipodystrophy, familial partial, type 5, 615238 (3), Autosomal recessive
 Arthrogryposis, distal, type 3, 114300 (3), Autosomal dominant; Arthrogryposis, distal, type 5, 108145 (3),
 Joubert syndrome 34, 614175 (3), Autosomal recessive; ?Meckel syndrome 10, 614175 (3), Autosomal re
 Joubert syndrome 24, 616654 (3), Autosomal recessive; ?Meckel syndrome 8, 613885 (3), Autosomal rec
 Joubert syndrome 27, 617120 (3), Autosomal recessive; ?Meckel syndrome 9, 614209 (3), Autosomal rec
 ?Microcephaly 13, primary, autosomal recessive, 616051 (3), Autosomal recessive
 Lissencephaly 4 (with microcephaly), 614019 (3), Autosomal recessive; ?Microhydranencephaly, 605013 (3)
 Behr syndrome, 210000 (3), Autosomal recessive; {Glaucoma, normal tension, susceptibility to}, 606657 (3)
 ?Mitochondrial DNA depletion syndrome 15 (hepatocerebral type), 617156 (3), Autosomal recessive
 ?Mucopolysaccharidosis type IX, 601492 (3), Autosomal recessive
 Cornelia de Lange syndrome 4, 614701 (3), Autosomal dominant; ?Mungan syndrome, 611376 (3), Autos
 Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy 1, 125310 (3), Autosomal domina
 Bethlem myopathy 1, 158810 (3), Autosomal recessive, Autosomal dominant; ?Myosclerosis, congenital, 2
 Epidermolysis bullosa simplex, autosomal recessive 2, 615425 (3), Autosomal recessive; ?Neuropathy, he
 ?Neutropenia, nonimmune chronic idiopathic, of adults, 607847 (3), Autosomal dominant; ?Neutropenia, s
 IFAP syndrome with or without BRESHECK syndrome, 308205 (3), X-linked recessive; Keratosis follicular
 ?Orofacial cleft 15, 616788 (3), Autosomal dominant
 ?Orofaciodigital syndrome XVIII, 617927 (3), Autosomal recessive
 Osteopetrosis, autosomal dominant 3, 618107 (3), Autosomal dominant; ?Osteopetrosis, autosomal reces
 ?Osteoporosis, involutional, 166710 (1), Autosomal dominant; Rickets, vitamin D-resistant, type IIA, 27744
 ?Otofaciocervical syndrome 2, 615560 (3), Autosomal recessive
 Anterior segment anomalies with or without cataract, 602588 (3), Autosomal dominant; Branchiootic syndr
 Olmsted syndrome, 614594 (3), Autosomal dominant; ?Palmoplantar keratoderma, nonepidermolytic, foca
 ?Peeling skin syndrome 3, 616265 (3), Autosomal recessive
 ?Periventricular nodular heterotopia 6, 615544 (3), Autosomal dominant
 Peroxisome biogenesis disorder 10A (Zellweger), 614882 (3), Autosomal recessive; ?Peroxisome biogene
 ?Peroxisome biogenesis disorder 14B, 614920 (3), Autosomal recessive
 ?Phosphoenolpyruvate carboxykinase deficiency, cytosolic, 261680 (3), Autosomal recessive
 Neu-Laxova syndrome 2, 616038 (3), Autosomal recessive; ?Phosphoserine aminotransferase deficiency,
 Amyotrophic lateral sclerosis 11, 612577 (3), Autosomal dominant; Charcot-Marie-Tooth disease, type 4J,
 Hypogonadotropic hypogonadism 8 with or without anosmia, 614837 (3), Autosomal recessive; ?Precocior
 ?Premature ovarian failure 15, 618096 (3), Autosomal recessive; Spermatogenic failure 28, 618086 (3), A
 Mitochondrial DNA depletion syndrome 2 (myopathic type), 609560 (3), Autosomal recessive; ?Progressiv

Microcephaly, growth restriction, and increased sister chromatid exchange 2, 618097 (3), Autosomal recessive
 ?Proteasome-associated autoinflammatory syndrome 3 and digenic forms, 617591 (3), Autosomal recessive
 ?Proteasome-associated autoinflammatory syndrome 3, digenic, 617591 (3), Autosomal recessive
 ?Protoporphyrria, erythropoietic, 2, 618015 (3), Autosomal dominant
 ?Prune belly syndrome, 100100 (3), Autosomal recessive
 Greenberg skeletal dysplasia, 215140 (3), Autosomal recessive; Pelger-Huet anomaly, 169400 (3), Autosomal recessive
 {Bardet-Biedl syndrome 14, modifier of}, 615991 (3), Autosomal recessive; COACH syndrome, 216360 (3), Autosomal recessive
 Microcephaly 6, primary, autosomal recessive, 608393 (3), Autosomal recessive; ?Seckel syndrome 4, 611812 (3), Autosomal recessive
 Mullerian aplasia and hyperandrogenism, 158330 (3), Autosomal dominant; ?SERKAL syndrome, 611812 (3), Autosomal recessive
 ?Sneddon syndrome, 182410 (3), Autosomal recessive; Vasculitis, autoinflammation, immunodeficiency, and growth retardation, 611812 (3), Autosomal recessive
 ?Sotos syndrome 3, 617169 (3), Autosomal recessive
 ?Spondylocostal dysostosis 6, 616566 (3), Autosomal recessive
 ?Spondyloepimetaphyseal dysplasia, Krakow type, 618162 (3), Autosomal recessive
 ?Thrombocytopenia, anemia, and myelofibrosis, 617441 (3), Autosomal recessive
 Ghosal hematodiaphyseal syndrome, 231095 (3), Autosomal recessive; ?Thromboxane synthase deficiency, 617441 (3), Autosomal recessive
 ?Townes-Brocks syndrome 2, 617466 (3), Autosomal dominant
 ?Trichothiodystrophy 5, nonphotosensitive, 300953 (3), X-linked dominant
 ?Urocanase deficiency, 276880 (3), Autosomal recessive
 ?Webb-Dattani syndrome, 615926 (3), Autosomal recessive
 Glaucoma 3, primary congenital, D, 613086 (3); Microspherophakia and/or megalocornea, with ectopia lentis, 613086 (3), Autosomal recessive
 Ellis-van Creveld syndrome, 225500 (3), Autosomal recessive; ?Weyers acrofacial dysostosis, 193530 (3), Autosomal recessive
 ?Winchester syndrome, 277950 (3), Autosomal recessive
 ?Wiskott-Aldrich syndrome 2, 614493 (3), Autosomal recessive
 [?Birbeck granule deficiency], 613393 (3), Autosomal recessive
 {Albinism, oculocutaneous, type II, modifier of}, 203200 (3), Autosomal recessive; [Analgesia from kappa-opioid receptor], 613393 (3), Autosomal recessive
 Amyloidosis, hereditary, transthyretin-related, 105210 (3), Autosomal dominant; Carpal tunnel syndrome, familial, 133100 (3), Autosomal dominant
 [Erythrocytosis, familial, 1], 133100 (3), Autosomal dominant
 Ectodermal dysplasia 10A, hypohidrotic/hair/nail type, autosomal dominant, 129490 (3), Autosomal dominant
 GM2-gangliosidosis, several forms, 272800 (3), Autosomal recessive; [Hex A pseudodeficiency], 272800 (3), Autosomal recessive
 Combined hyperlipidemia, familial, 144250 (3), Autosomal dominant; [High density lipoprotein cholesterol 1], 144250 (3), Autosomal dominant
 [Hyperphenylalaninemia, non-PKU mild], 261600 (3), Autosomal recessive; Phenylketonuria, 261600 (3), Autosomal recessive
 [IgE, elevated level of], 147050 (3), Autosomal dominant; Immunodeficiency 56, 615207 (3), Autosomal recessive
 [Sedoheptulokinase deficiency], 617213 (3), Autosomal recessive
 Mental retardation, autosomal recessive 38, 615516 (3), Autosomal recessive; [Skin/hair/eye pigmentation 1], 615516 (3), Autosomal recessive
 Albinism, brown oculocutaneous, 203200 (3), Autosomal recessive; Albinism, oculocutaneous, type II, 203200 (3), Autosomal recessive
 Albinism, oculocutaneous, type IA, 203100 (3), Autosomal recessive; Albinism, oculocutaneous, type IB, 613086 (3), Autosomal recessive
 Albinism, oculocutaneous, type VI, 113750 (3), Autosomal recessive; [Skin/hair/eye pigmentation 4, fair/dark hair], 113750 (3), Autosomal recessive
 Albinism, oculocutaneous, type IV, 606574 (3); [Skin/hair/eye pigmentation 5, black/nonblack hair], 227240 (3), Autosomal recessive
 Deafness, autosomal dominant 69, unilateral or asymmetric, 616697 (3), Autosomal dominant; Hyperpigmentation, 616697 (3), Autosomal dominant
 Albinism, oculocutaneous, type III, 203290 (3), Autosomal recessive; [Skin/hair/eye pigmentation, variation 1], 203290 (3), Autosomal recessive
 {Aplastic anemia}, 614743 (3), Autosomal dominant; Dyskeratosis congenita, autosomal dominant 1, 127500 (3), Autosomal dominant
 {Autoimmune interstitial lung, joint, and kidney disease}, 616414 (3), Autosomal dominant
 Autoimmune lymphoproliferative syndrome, type IA, 601859 (3), Autosomal dominant; {Autoimmune lymphoproliferative syndrome 1}, 601859 (3), Autosomal dominant
 {Adrenocortical carcinoma, pediatric}, 202300 (3), Autosomal dominant; {Basal cell carcinoma 7}, 614740 (3), Autosomal dominant
 {Bone mineral density variation QTL, osteoporosis}, 166710 (3), Autosomal dominant; Caffey disease, 114000 (3), Autosomal dominant

{Chronic infections, due to MBL deficiency}, 614372 (3), Autosomal dominant
 {Dyskeratosis congenita, autosomal dominant 2}, 613989 (3), Autosomal recessive, Autosomal dominant;
 COPD, rate of decline of lung function in, 606963 (3); {Epidermolysis bullosa dystrophica, autosomal recessive}, 613989 (3), Autosomal recessive;
 Brachydactyly, type A2, 112600 (3), Autosomal dominant; {HFE hemochromatosis, modifier of}, 235200 (3), Autosomal recessive;
 Apolipoprotein A-II deficiency (3); {Hypercholesterolemia, familial, modifier of}, 143890 (3), Autosomal dominant;
 {Hypogonadotropic hypogonadism 15 with or without anosmia}, 614880 (3), Autosomal dominant;
 {Hypogonadotropic hypogonadism 16 with or without anosmia}, 614897 (3), Autosomal dominant;
 Melanoma and neural system tumor syndrome, 155755 (3), Autosomal dominant; {Melanoma, cutaneous malignant, 3}, 609048 (3), Autosomal dominant;
 {Alzheimer disease, susceptibility to}, 104300 (3), Autosomal dominant; Hemochromatosis, 235200 (3), Autosomal recessive;
 Obesity (BMIQ20), 618406 (3); {Obesity, resistance to (BMIQ20)}, 618306 (3)
 Ehlers-Danlos syndrome, arthrochalasia type, 2, 617821 (3), Autosomal dominant; Ehlers-Danlos syndrome, classical type, 617821 (3), Autosomal dominant;
 Desbuquois dysplasia 2, 615777 (3), Autosomal recessive; {Pseudoxanthoma elasticum, modifier of severity of}, 264800 (3), Autosomal recessive;
 {Pseudoxanthoma elasticum, modifier of severity of}, 264800 (3), Autosomal recessive; Spondyloocular syndrome, 615777 (3), Autosomal recessive;
 Atrial septal defect 3, 614089 (3); Cardiomyopathy, dilated, 1EE, 613252 (3); Cardiomyopathy, hypertrophic, 613252 (3), Autosomal dominant;
 {AIDS, rapid progression to}, 609423 (3); {Aplastic anemia}, 609135 (3); {Hepatitis C virus, response to therapy}, 609423 (3), Autosomal dominant;
 {Colorectal cancer, susceptibility to}, 114500 (3), Autosomal dominant, Somatic mutation; {Multiple myeloma, susceptibility to}, 114500 (3), Autosomal dominant, Somatic mutation;
 17-alpha-hydroxylase/17,20-lyase deficiency, 202110 (3), Autosomal recessive; 17,20-lyase deficiency, isovaleryl-CoA lyase deficiency, 202110 (3), Autosomal recessive;
 3-Methylcrotonyl-CoA carboxylase 2 deficiency, 210210 (3), Autosomal recessive
 3-methylglutaconic aciduria with deafness, encephalopathy, and Leigh-like syndrome, 614739 (3), Autosomal recessive
 3-methylglutaconic aciduria, type VII, with cataracts, neurologic involvement and neutropenia, 616271 (3), Autosomal recessive
 3-methylglutaconic aciduria, type VIII, 617248 (3), Autosomal recessive; {Parkinson disease 13}, 610297 (3), Autosomal recessive
 3MC syndrome 1, 257920 (3), Autosomal recessive
 5-oxoprolinase deficiency, 260005 (3), Autosomal recessive, Autosomal dominant
 Aarskog-Scott syndrome, 305400 (3), X-linked recessive; Mental retardation, X-linked syndromic 16, 305400 (3), X-linked recessive
 ABCD syndrome, 600501 (3), Autosomal recessive; {Hirschsprung disease, susceptibility to, 2}, 600155 (3), Autosomal recessive
 Ablepharon-macrostomia syndrome, 200110 (3), Autosomal dominant; Barber-Say syndrome, 209885 (3), Autosomal recessive
 Achalasia-addisonianism-alacrimia syndrome, 231550 (3), Autosomal recessive
 Achondrogenesis, type II or hypochondrogenesis, 200610 (3), Autosomal dominant; Avascular necrosis of femoral head, 200610 (3), Autosomal dominant
 Acne inversa, familial, 1, 142690 (3), Autosomal dominant
 Acne inversa, familial, 2, with or without Dowling-Degos disease, 613736 (3), Autosomal dominant
 Acrodermatitis enteropathica, 201100 (3), Autosomal recessive
 Acrokeratosis verruciformis, 101900 (3), Autosomal dominant; Darier disease, 124200 (3), Autosomal dominant
 Acromesomelic dysplasia, Demirhan type, 609441 (3), Autosomal recessive; Brachydactyly, type A1, D, 609441 (3), Autosomal recessive
 Adams-Oliver syndrome 1, 100300 (3), Autosomal dominant
 Adams-Oliver syndrome 2, 614219 (3), Autosomal recessive
 Adams-Oliver syndrome 3, 614814 (3), Autosomal dominant
 Adams-Oliver syndrome 4, 615297 (3), Autosomal recessive
 Adams-Oliver syndrome 5, 616028 (3), Autosomal dominant; Aortic valve disease 1, 109730 (3), Autosomal dominant
 Adams-Oliver syndrome 6, 616589 (3), Autosomal dominant
 Adenine phosphoribosyltransferase deficiency, 614723 (3), Autosomal recessive
 Adenosine triphosphate, elevated, of erythrocytes, 102900 (3), Autosomal dominant; Pyruvate kinase deficiency, 102900 (3), Autosomal dominant
 Adermatoglyphia, 136000 (3), Autosomal dominant; Basan syndrome, 129200 (3), Autosomal dominant; Histiocytosis, 129200 (3), Autosomal dominant
 Adrenal hyperplasia, congenital, due to 11-beta-hydroxylase deficiency, 202010 (3), Autosomal recessive; Adrenal hyperplasia, congenital, due to 3-beta-hydroxysteroid dehydrogenase 2 deficiency, 201810 (3), Autosomal recessive

Adrenal hypoplasia, congenital, 300200 (3), X-linked recessive; 46XY sex reversal 2, dosage-sensitive, 300200 (3), X-linked recessive
 Adrenocorticotrophic hormone deficiency, 201400 (3), Autosomal recessive
 Adrenoleukodystrophy, 300100 (3), X-linked recessive; Adrenomyeloneuropathy, adult, 300100 (3), X-linked recessive
 ADULT syndrome, 103285 (3), Autosomal dominant; Ectrodactyly, ectodermal dysplasia, and cleft lip/palate syndrome, 103285 (3), Autosomal dominant
 Afibrinogenemia, congenital, 202400 (3), Autosomal recessive; Amyloidosis, familial visceral, 105200 (3), Autosomal dominant
 Afibrinogenemia, congenital, 202400 (3), Autosomal recessive; Dysfibrinogenemia, congenital, 616004 (3), Autosomal recessive
 Afibrinogenemia, congenital, 202400 (3), Autosomal recessive; Dysfibrinogenemia, congenital, 616004 (3), Autosomal recessive
 Agammaglobulinemia 1, 601495 (3), Autosomal recessive
 Agammaglobulinemia 2, 613500 (3), Autosomal recessive
 Agammaglobulinemia 3, 613501 (3), Autosomal recessive
 Agammaglobulinemia 6, 612692 (3), Autosomal recessive
 Agammaglobulinemia 8, autosomal dominant, 616941 (3), Autosomal dominant
 AICA-ribosiduria due to ATIC deficiency, 608688 (3), Autosomal recessive
 Aicardi-Goutieres syndrome 1, dominant and recessive, 225750 (3), Autosomal recessive, Autosomal dominant
 Aicardi-Goutieres syndrome 2, 610181 (3), Autosomal recessive
 Aicardi-Goutieres syndrome 3, 610329 (3), Autosomal recessive
 Aicardi-Goutieres syndrome 4, 610333 (3), Autosomal recessive
 Aicardi-Goutieres syndrome 6, 615010 (3), Autosomal recessive; Dyschromatosis symmetrica hereditaria, 615010 (3), Autosomal recessive
 Aicardi-Goutieres syndrome 7, 615846 (3), Autosomal dominant; Singleton-Merten syndrome 1, 182250 (3), Autosomal recessive
 Al Kaissi syndrome, 617694 (3), Autosomal recessive
 Al-Raqad syndrome, 616459 (3), Autosomal recessive
 Alacrima, achalasia, and mental retardation syndrome, 615510 (3), Autosomal recessive
 Alagille syndrome 1, 118450 (3), Autosomal dominant; ?Deafness, congenital heart defects, and posterior embryotoxon, 118450 (3), Autosomal dominant
 Alagille syndrome 2, 610205 (3), Autosomal dominant; Hajdu-Cheney syndrome, 102500 (3), Autosomal dominant
 Alazami syndrome, 615071 (3), Autosomal recessive
 Albinism, oculocutaneous, type VII, 615179 (3), Autosomal recessive
 Alcohol sensitivity, acute, 610251 (3), Autosomal dominant; {Esophageal cancer, alcohol-related, susceptibility, 610251 (3), Autosomal dominant
 Alkaptonuria, 203500 (3), Autosomal recessive
 Allan-Herndon-Dudley syndrome, 300523 (3), X-linked
 Alopecia universalis, 203655 (3), Autosomal recessive; Atrichia with papular lesions, 209500 (3), Autosomal recessive
 Alpha-2-plasmin inhibitor deficiency, 262850 (3), Autosomal recessive
 Alpha-methylacetoacetic aciduria, 203750 (3), Autosomal recessive
 Alpha-methylacyl-CoA racemase deficiency, 614307 (3), Autosomal recessive; Bile acid synthesis defect, 614307 (3), Autosomal recessive
 Alpha/beta T-cell lymphopenia with gamma/delta T-cell expansion, severe cytomegalovirus infection, and immunodeficiency, 614307 (3), Autosomal recessive
 Alport syndrome 1, X-linked, 301050 (3), X-linked dominant
 Alport syndrome 2, autosomal recessive, 203780 (3), Autosomal recessive; Alport syndrome 3, autosomal recessive, 203780 (3), Autosomal recessive
 Alport syndrome 2, autosomal recessive, 203780 (3), Autosomal recessive; Hematuria, familial benign, 146800 (3), Autosomal dominant
 Alstrom syndrome, 203800 (3), Autosomal recessive
 Alveolar capillary dysplasia with misalignment of pulmonary veins, 265380 (3), Autosomal dominant
 Amelogenesis imperfecta, type IA, 104530 (3), Autosomal dominant; Epidermolysis bullosa, junctional, Heiligenthal type, 104530 (3), Autosomal dominant
 Amelogenesis imperfecta, type IH, 616221 (3), Autosomal recessive
 Amelogenesis imperfecta, type IV, 104510 (3), Autosomal dominant; Trichodontoosseous syndrome, 190300 (3), Autosomal dominant
 Amyloidosis, 3 or more types, 105200 (3), Autosomal dominant; ApoA-I and apoC-III deficiency, combined, 105200 (3), Autosomal dominant
 Amyloidosis, Finnish type, 105120 (3), Autosomal dominant
 Amyloidosis, primary localized cutaneous, 1, 105250 (3), Autosomal dominant

Amyloidosis, primary localized cutaneous, 3, 617920 (3), Autosomal recessive
 Amyloidosis, renal, 105200 (3), Autosomal dominant
 Amyotrophic lateral sclerosis 4, juvenile, 602433 (3), Autosomal dominant; Spinocerebellar ataxia, autosomal recessive 1, 602433 (3), Autosomal recessive
 Amyotrophy, hereditary neuralgic, 162100 (3), Autosomal dominant; Leukemia, acute myeloid, therapy-related, 162100 (3), Autosomal dominant
 Anauxetic dysplasia 1, 607095 (3), Autosomal recessive; Cartilage-hair hypoplasia, 250250 (3), Autosomal recessive
 Andersen syndrome, 170390 (3), Autosomal dominant; Atrial fibrillation, familial, 9, 613980 (3), Autosomal dominant
 Anemia, sideroblastic, 1, 300751 (3), X-linked recessive; Protoporphyrria, erythropoietic, X-linked, 300752 (3), X-linked recessive
 Anemia, sideroblastic, 3, pyridoxine-refractory, 616860 (3), Autosomal recessive; Spasticity, childhood-onset, 616860 (3), Autosomal recessive
 Anemia, sideroblastic, 4, 182170 (3), Autosomal dominant; Even-plus syndrome, 616854 (3), Autosomal recessive
 Anemia, X-linked, with/without neutropenia and/or platelet abnormalities, 300835 (3), X-linked recessive; Leukemia, acute myeloid, therapy-related, 300835 (3), X-linked recessive
 Angelman syndrome, 105830 (3), Autosomal dominant
 Angioedema, hereditary, type III, 610618 (3), Autosomal dominant; Factor XII deficiency, 234000 (3), Autosomal recessive
 Angioedema, hereditary, types I and II, 106100 (3), Autosomal recessive, Autosomal dominant; Complement deficiency, type 1, 106100 (3), Autosomal recessive
 Antley-Bixler syndrome with genital anomalies and disordered steroidogenesis, 201750 (3), Autosomal recessive
 Antley-Bixler syndrome without genital anomalies or disordered steroidogenesis, 207410 (3), Autosomal dominant
 Aplasia of lacrimal and salivary glands, 180920 (3), Autosomal dominant; LADD syndrome, 149730 (3), Autosomal recessive
 Aplastic anemia, 609135 (3); Leukemia, acute lymphoblastic, 613065 (3); Nijmegen breakage syndrome, 209980 (3)
 Aromatase deficiency, 613546 (3); Aromatase excess syndrome, 139300 (3), Autosomal dominant
 Arrhythmogenic right ventricular dysplasia 11, 610476 (3), Autosomal recessive, Autosomal dominant; Arrhythmogenic right ventricular dysplasia 12, 610476 (3), Autosomal recessive
 Arrhythmogenic right ventricular dysplasia 8, 607450 (3), Autosomal dominant; Cardiomyopathy, dilated, with conduction system disease, 607450 (3), Autosomal dominant
 Arterial calcification, generalized, of infancy, 1, 208000 (3), Autosomal recessive; Cole disease, 615522 (3), Autosomal recessive
 Arterial calcification, generalized, of infancy, 2, 614473 (3), Autosomal recessive; Pseudoxanthoma elasticum, 614473 (3), Autosomal recessive
 Arthrogryposis, renal dysfunction, and cholestasis 1, 208085 (3), Autosomal recessive
 Arthrogryposis, renal dysfunction, and cholestasis 2, 613404 (3), Autosomal recessive
 Arts syndrome, 301835 (3), X-linked recessive; Charcot-Marie-Tooth disease, X-linked recessive, 5, 311070 (3), X-linked recessive
 Aspartylglucosaminuria, 208400 (3), Autosomal recessive
 Asplenia, isolated congenital, 271400 (3), Autosomal dominant
 Asthma and nasal polyps, 208550 (3), Autosomal recessive; {Asthma, aspirin-induced, susceptibility to}, 208550 (3), Autosomal recessive
 Ataxia with isolated vitamin E deficiency, 277460 (3), Autosomal recessive
 Ataxia-pancytopenia syndrome, 159550 (3), Autosomal dominant
 Ataxia-telangiectasia-like disorder 1, 604391 (3), Autosomal recessive
 Ataxia-telangiectasia, 208900 (3), Autosomal recessive; {Breast cancer, susceptibility to}, 114480 (3), Autosomal recessive
 Ataxia, posterior column, with retinitis pigmentosa, 609033 (3), Autosomal recessive
 Atelosteogenesis, type I, 108720 (3), Autosomal dominant; Atelosteogenesis, type III, 108721 (3), Autosomal dominant
 Achondrogenesis Ib, 600972 (3), Autosomal recessive; Atelosteogenesis, type II, 256050 (3), Autosomal recessive
 Atransferrinemia, 209300 (3), Autosomal recessive
 Au-Kline syndrome, 616580 (3), Autosomal dominant
 Auriculocondylar syndrome 1, 602483 (3), Autosomal dominant
 Auriculocondylar syndrome 2, 614669 (3), Autosomal recessive, Autosomal dominant
 Auriculocondylar syndrome 3, 615706 (3), Autosomal recessive; {High density lipoprotein cholesterol level, decreased}, 615706 (3), Autosomal recessive
 Autoimmune disease, multisystem, infantile-onset, 1, 615952 (3), Autosomal dominant; Hyper-IgE recurrent infection syndrome, 615952 (3), Autosomal dominant
 Autoimmune disease, multisystem, infantile-onset, 2, 617006 (3), Autosomal recessive; Immunodeficiency, common variable, 617006 (3), Autosomal recessive
 Autoimmune disease, multisystem, with facial dysmorphism, 613385 (3), Autosomal recessive
 Autoimmune lymphoproliferative syndrome, type IB, 601859 (3), Autosomal dominant; {Lung cancer, susceptibility to}, 601859 (3), Autosomal dominant
 Autoimmune lymphoproliferative syndrome, type II, 603909 (3), Autosomal dominant; Gastric cancer, somatostatin receptor-negative, 603909 (3), Autosomal dominant

Autoimmune lymphoproliferative syndrome, type III, 615559 (3), Autosomal recessive
 Autoimmune lymphoproliferative syndrome, type V, 616100 (3), Autosomal dominant; {Celiac disease, sus
 Autoimmune polyendocrinopathy syndrome , type I, with or without reversible metaphyseal dysplasia, 240
 Autoinflammation with arthritis and dyskeratosis, 617388 (3), Autosomal recessive, Autosomal dominant; F
 Autoinflammation, antibody deficiency, and immune dysregulation syndrome, 614878 (3), Autosomal domi
 Autoinflammation, panniculitis, and dermatosis syndrome, 617099 (3), Autosomal recessive
 Autoinflammatory syndrome, familial, Behcet-like, 616744 (3), Autosomal dominant
 Anterior segment dysgenesis 4, 137600 (3), Autosomal dominant; Axenfeld-Rieger syndrome, type 1, 180
 Anterior segment dysgenesis 3, multiple subtypes, 601631 (3), Autosomal dominant; Axenfeld-Rieger syn
 Ayme-Gripp syndrome, 601088 (3), Autosomal dominant; Cataract 21, multiple types, 610202 (3), Autosom
 B-cell expansion with NFkB and T-cell anergy, 616452 (3), Autosomal dominant; Immunodeficiency 11A, (C
 Baker-Gordon syndrome, 618218 (3), Autosomal dominant
 Baller-Gerold syndrome, 218600 (3), Autosomal recessive; RAPADILINO syndrome, 266280 (3), Autosom
 Bamforth-Lazarus syndrome, 241850 (3), Autosomal recessive; {Thyroid cancer, nonmedullary, 4}, 61653
 Bare lymphocyte syndrome, type I, 604571 (3), Autosomal recessive
 Bare lymphocyte syndrome, type I, 604571 (3), Autosomal recessive
 Bare lymphocyte syndrome, type I, due to TAP2 deficiency, 604571 (3), Autosomal recessive
 Bare lymphocyte syndrome, type II, complementation group A, 209920 (3), Autosomal recessive; {Rheuma
 Bare lymphocyte syndrome, type II, complementation group C, 209920 (3), Autosomal recessive; Bare lym
 Bare lymphocyte syndrome, type II, complementation group D, 209920 (3), Autosomal recessive
 Barth syndrome, 302060 (3), X-linked recessive
 Bartter syndrome, type 3, 607364 (3), Autosomal recessive; Bartter syndrome, type 4b, digenic, 613090 (3
 Basal cell carcinoma, somatic, 605462 (3); Basal cell nevus syndrome, 109400 (3), Autosomal dominant; I
 Basal cell carcinoma, somatic, 605462 (3); Basal cell nevus syndrome, 109400 (3), Autosomal dominant; I
 Basal cell nevus syndrome, 109400 (3), Autosomal dominant; Joubert syndrome 32, 617757 (3), Autosom
 Basal laminar drusen, 126700 (3), Autosomal dominant; Complement factor H deficiency, 609814 (3), Auto
 Basel-Vanagait-Smirin-Yosef syndrome, 616449 (3), Autosomal recessive; ?Charcot-Marie-Tooth disease
 Beaulieu-Boycott-Innes syndrome, 613680 (3), Autosomal recessive
 Bernard-Soulier syndrome, type A1 (recessive), 231200 (3), Autosomal recessive; Bernard-Soulier syndro
 Bernard-Soulier syndrome, type B, 231200 (3), Autosomal recessive; Giant platelet disorder, isolated, 231
 Bernard-Soulier syndrome, type C, 231200 (3), Autosomal recessive
 Bethlem myopathy 2, 616471 (3), Autosomal dominant; ?Ullrich congenital muscular dystrophy 2, 616470
 Bile acid synthesis defect, congenital, 1, 607765 (3), Autosomal recessive
 Bile acid synthesis defect, congenital, 2, 235555 (3), Autosomal recessive
 Bile acid synthesis defect, congenital, 3, 613812 (3), Autosomal recessive; Spastic paraplegia 5A, autosom
 Biotinidase deficiency, 253260 (3), Autosomal recessive
 Birt-Hogg-Dube syndrome, 135150 (3), Autosomal dominant; Colorectal cancer, somatic, 114500 (3); Pne
 Bjornstad syndrome, 262000 (3), Autosomal recessive; GRACILE syndrome, 603358 (3), Autosomal reces
 Blau syndrome, 186580 (3), Autosomal dominant; {Inflammatory bowel disease 1, Crohn disease}, 266600
 Bleeding disorder, platelet-type, 11, 614201 (3), Autosomal recessive
 Bleeding disorder, platelet-type, 16, autosomal dominant, 187800 (3), Autosomal dominant; Glanzmann th
 Bleeding disorder, platelet-type, 16, autosomal dominant, 187800 (3), Autosomal dominant; Glanzmann th
 Bleeding disorder, platelet-type, 17, 187900 (3), Autosomal recessive, Autosomal dominant
 Bleeding disorder, platelet-type, 20, 616913 (3), Autosomal dominant
 Bleeding disorder, platelet-type, 21, 617443 (3), Autosomal recessive, Autosomal dominant

Bleeding disorder, platelet-type, 8, 609821 (3), Autosomal recessive
 Blepharocheilodontic syndrome 1, 119580 (3), Autosomal dominant; {Breast cancer, lobular}, 114480 (3),
 Blepharocheilodontic syndrome 2, 617681 (3), Autosomal dominant
 Bloom syndrome, 210900 (3), Autosomal recessive
 Bohring-Opitz syndrome, 605039 (3), Autosomal dominant; Myelodysplastic syndrome, somatic, 614286 (3),
 Bone marrow failure syndrome 2, 615715 (3), Autosomal recessive
 Bone marrow failure syndrome 3, 617052 (3), Autosomal recessive
 Bone marrow failure syndrome 4, 618116 (3), Autosomal recessive
 Bothnia retinal dystrophy, 607475 (3), Autosomal recessive; Fundus albipunctatus, 136880 (3), Autosomal
 Brain malformations with or without urinary tract defects, 613735 (3), Autosomal dominant
 Branchiooculofacial syndrome, 113620 (3), Autosomal dominant
 Branchiootic syndrome 3, 608389 (3), Autosomal dominant; Deafness, autosomal dominant 23, 605192 (3),
 Brittle cornea syndrome 1, 229200 (3), Autosomal recessive
 Brittle cornea syndrome 2, 614170 (3), Autosomal recessive
 Bronchiectasis with or without elevated sweat chloride 1, 211400 (3), Autosomal dominant; Liddle syndrome
 Bronchiectasis with or without elevated sweat chloride 3, 613071 (3), Autosomal dominant; Liddle syndrome
 Brooke-Spiegler syndrome, 605041 (3), Autosomal dominant; Cylindromatosis, familial, 132700 (3), Autosomal
 Brown-Vialetto-Van Laere syndrome 2, 614707 (3), Autosomal recessive
 Bruck syndrome 1, 259450 (3), Autosomal recessive; Osteogenesis imperfecta, type XI, 610968 (3), Autosomal
 Bruck syndrome 2, 609220 (3), Autosomal recessive
 {Antisocial behavior}, 300615 (3), X-linked recessive; Brunner syndrome, 300615 (3), X-linked recessive
 Burn-McKeown syndrome, 608572 (3), Autosomal recessive
 Buschke-Ollendorff syndrome, 166700 (3), Autosomal dominant; Osteopoikilosis with or without melorheostosis
 C syndrome, 211750 (3), Autosomal dominant
 C1q deficiency, 613652 (3), Autosomal recessive
 C1q deficiency, 613652 (3), Autosomal recessive
 C1q deficiency, 613652 (3), Autosomal recessive
 C2 deficiency, 217000 (3), Autosomal recessive; {Macular degeneration, age-related, 14, reduced risk of},
 C3 deficiency, 613779 (3), Autosomal recessive; {Hemolytic uremic syndrome, atypical, susceptibility to, 5},
 [Blood group, Rodgers], 614374 (3); C4a deficiency, 614380 (3), Autosomal recessive
 C8 deficiency, type I, 613790 (3), Autosomal recessive
 C8 deficiency, type II, 613789 (3), Autosomal recessive
 Acampomelic campomelic dysplasia, 114290 (3), Autosomal dominant; Campomelic dysplasia, 114290 (3),
 Camptodactyly-arthropathy-coxa vara-pericarditis syndrome, 208250 (3), Autosomal recessive
 Camurati-Engelmann disease, 131300 (3), Autosomal dominant; {Cystic fibrosis lung disease, modifier of},
 Candidiasis, familial, 2, autosomal recessive, 212050 (3), Autosomal recessive
 {Aspergillosis, susceptibility to}, 614079 (3); Candidiasis, familial, 4, autosomal recessive, 613108 (3), Autosomal
 Candidiasis, familial, 9, 616445 (3), Autosomal recessive
 Basal cell carcinoma, somatic, 605462 (3); Capillary malformation-arteriovenous malformation 1, 608354 (3),
 Capillary malformation-arteriovenous malformation 2, 618196 (3), Autosomal dominant; Lymphatic malformation
 Carboxypeptidase N deficiency, 212070 (3), Autosomal recessive
 Cardiac-urogenital syndrome, 618280 (3), Autosomal dominant; Encephalitis/encephalopathy, mild, with regression
 Cardiac, facial, and digital anomalies with developmental delay, 618164 (3), Autosomal dominant
 Arteriovenous malformation of the brain, somatic, 108010 (3); Bladder cancer, somatic, 109800 (3); Breast cancer
 Cardiofaciocutaneous syndrome 3, 615279 (3)

Cardiofaciocutaneous syndrome 4, 615280 (3)

Adenocarcinoma of lung, somatic, 211980 (3); Cardiofaciocutaneous syndrome, 115150 (3), Autosomal dominant

Cardiospondylocarpofacial syndrome, 157800 (3), Autosomal dominant; Frontometaphyseal dysplasia 2, 615280 (3)

Carnitine-acylcarnitine translocase deficiency, 212138 (3), Autosomal recessive

Carpenter syndrome 2, 614976 (3), Autosomal recessive

Carpenter syndrome, 201000 (3), Autosomal recessive

Catell-Manzke syndrome, 616145 (3), Autosomal recessive

NULL

Achondroplasia, 100800 (3), Autosomal dominant; Bladder cancer, somatic, 109800 (3); CATSHL syndrome, 615280 (3)

Caudal regression syndrome, 600145 (3), Autosomal dominant; {Neural tube defects, susceptibility to}, 180200 (3)

Cavernous malformations of CNS and retina, 116860 (3), Autosomal dominant; Cerebral cavernous malformation 1, 615280 (3)

CD8 deficiency, familial, 608957 (3), Autosomal recessive

Cenani-Lenz syndactyly syndrome, 212780 (3), Autosomal recessive; ?Myasthenic syndrome, congenital, 615280 (3)

Central core disease, 117000 (3), Autosomal recessive, Autosomal dominant; King-Denborough syndrome, 615280 (3)

Centronuclear myopathy 6 with fiber-type disproportion, 617760 (3), Autosomal recessive; Split-foot malformation 1, 615280 (3)

Cerebellar ataxia, deafness, and narcolepsy, autosomal dominant, 604121 (3), Autosomal dominant; Neuronal ceroid lipofuscinosis 1, 615280 (3)

Cerebellar atrophy, visual impairment, and psychomotor retardation, 616875 (3), Autosomal recessive

Cerebellar, ocular, craniofacial, and genital syndrome, 618479 (3), Autosomal recessive

Cerebral creatine deficiency syndrome 1, 300352 (3), X-linked recessive

Cerebral dysgenesis, neuropathy, ichthyosis, and palmoplantar keratoderma syndrome, 609528 (3), Autosomal recessive

Cerebrooculofacioskeletal syndrome 1, 214150 (3), Autosomal recessive; Cockayne syndrome, type B, 135000 (3)

Cerebrooculofacioskeletal syndrome 3, 616570 (3), Autosomal recessive; Xeroderma pigmentosum, group C, 270000 (3)

Cerebrooculofacioskeletal syndrome 4, 610758 (3), Autosomal recessive

Cerebroretinal microangiopathy with calcifications and cysts 2, 617341 (3), Autosomal recessive

Cerebroretinal microangiopathy with calcifications and cysts, 612199 (3), Autosomal recessive

Cerebrotendinous xanthomatosis, 213700 (3), Autosomal recessive

Chanarin-Dorfman syndrome, 275630 (3), Autosomal recessive

CHAND syndrome, 214350 (3), Autosomal recessive; Popliteal pterygium syndrome, Bartsocas-Papas type 1, 615280 (3)

CHARGE syndrome, 214800 (3), Autosomal dominant; Hypogonadotropic hypogonadism 5 with or without anosmia, 615280 (3)

Chediak-Higashi syndrome, 214500 (3), Autosomal recessive

Cherubism, 118400 (3), Autosomal dominant

CHILD syndrome, 308050 (3), X-linked dominant; CK syndrome, 300831 (3), X-linked recessive

CHIME syndrome, 280000 (3), Autosomal recessive

Chitayat syndrome, 617180 (3), Autosomal dominant; Craniosynostosis 4, 600775 (3), Autosomal dominant

Cholestasis, benign recurrent intrahepatic, 2, 605479 (3), Autosomal recessive; Cholestasis, progressive familial intrahepatic 1, 615280 (3)

Cholestasis, benign recurrent intrahepatic, 243300 (3), Autosomal recessive; Cholestasis, intrahepatic, of pregnancy, 615280 (3)

Cholestasis, intrahepatic, of pregnancy, 3, 614972 (3), Autosomal recessive, Autosomal dominant; Cholestasis, progressive familial intrahepatic 4, 615878 (3), Autosomal recessive; Hypercholanemia, familial, 615280 (3)

Cholestasis, progressive familial intrahepatic 4, 615878 (3), Autosomal recessive; Hypercholanemia, familial, 615280 (3)

Cholestasis, progressive familial intrahepatic, 5, 617049 (3), Autosomal recessive

Cholesteryl ester storage disease, 278000 (3), Autosomal recessive; Wolman disease, 278000 (3), Autosomal recessive

Chondrodysplasia punctata, X-linked dominant, 302960 (3), X-linked dominant; MEND syndrome, 300960 (3)

Chondrodysplasia punctata, X-linked recessive, 302950 (3), X-linked recessive

Chondrodysplasia, Blomstrand type, 215045 (3), Autosomal recessive; Eiken syndrome, 600002 (3), Autosomal recessive

Chondrosarcoma, 215300 (3), Autosomal recessive; Exostoses, multiple, type 1, 133700 (3), Autosomal dominant

CHOPS syndrome, 616368 (3), Autosomal dominant

Choreoacanthocytosis, 200150 (3), Autosomal recessive
 Chorea, hereditary benign, 118700 (3), Autosomal dominant; Choreoathetosis, hypothyroidism, and neonatal
 Choroidal dystrophy, central areolar 2, 613105 (3), Autosomal dominant; Leber congenital amaurosis 18, 613105 (3), Autosomal dominant
 NA
 Chronic granulomatous disease due to deficiency of NCF-1, 233700 (3), Autosomal recessive
 Chronic granulomatous disease due to deficiency of NCF-2, 233710 (3), Autosomal recessive
 Chronic granulomatous disease, autosomal, due to deficiency of CYBA, 233690 (3), Autosomal recessive
 Chronic granulomatous disease, X-linked, 306400 (3), X-linked recessive; Immunodeficiency 34, mycobacterial
 CINCA syndrome, 607115 (3), Autosomal dominant; Deafness, autosomal dominant 34, with or without intellectual disability
 Cirrhosis, cryptogenic, 215600 (3), Autosomal recessive; {Cirrhosis, noncryptogenic, susceptibility to}, 215600 (3), Autosomal recessive
 Cirrhosis, cryptogenic, 215600 (3), Autosomal recessive; {Cirrhosis, noncryptogenic, susceptibility to}, 215600 (3), Autosomal recessive
 Citrullinemia, adult-onset type II, 603471 (3), Autosomal recessive; Citrullinemia, type II, neonatal-onset, 603471 (3), Autosomal recessive
 Cleft lip/palate-ectodermal dysplasia syndrome, 225060 (3), Autosomal recessive; Orofacial cleft 7, 225060 (3), Autosomal recessive
 Cleidocranial dysplasia, 119600 (3), Autosomal dominant; Cleidocranial dysplasia, forme fruste, dental anomalies
 COACH syndrome, 216360 (3), Autosomal recessive; Joubert syndrome 9, 612285 (3), Autosomal recessive
 COACH syndrome, 216360 (3), Autosomal recessive; Joubert syndrome 7, 611560 (3), Autosomal recessive
 Cockayne syndrome, type A, 216400 (3), Autosomal recessive; UV-sensitive syndrome 2, 614621 (3), Autosomal recessive
 Coenzyme Q10 deficiency, primary, 2, 614651 (3), Autosomal recessive
 Coffin-Lowry syndrome, 303600 (3), X-linked dominant; Mental retardation, X-linked 19, 300844 (3), X-linked dominant
 Coffin-Siris syndrome 1, 135900 (3), Autosomal dominant
 Coffin-Siris syndrome 10, 618506 (3), Autosomal dominant
 NULL
 Coffin-Siris syndrome 2, 614607 (3), Autosomal dominant
 Coffin-Siris syndrome 3, 614608 (3), Autosomal dominant; {Rhabdoid tumor predisposition syndrome 1}, 614608 (3), Autosomal dominant
 Coffin-Siris syndrome 4, 614609 (3), Autosomal dominant; {Rhabdoid tumor predisposition syndrome 2}, 614609 (3), Autosomal dominant
 Coffin-Siris syndrome 5, 616938 (3), Autosomal dominant; {Meningioma, familial, susceptibility to}, 607174 (3), Autosomal dominant
 Coffin-Siris syndrome 6, 617808 (3), Autosomal dominant
 Coffin-Siris syndrome 7, 618027 (3), Autosomal dominant
 Coffin-Siris syndrome 8, 618362 (3), Autosomal dominant
 Coffin-Siris syndrome 9, 615866 (3), Autosomal dominant
 Cohen syndrome, 216550 (3), Autosomal recessive
 Cohen-Gibson syndrome, 617561 (3), Autosomal dominant
 Cold-induced sweating syndrome 1, 272430 (3), Autosomal recessive
 Cold-induced sweating syndrome 3, 617055 (3), Autosomal recessive; Retinitis pigmentosa 42, 612943 (3), Autosomal recessive
 Combined cellular and humoral immune defects with granulomas, 233650 (3), Autosomal recessive; Omer
 Combined D-2- and L-2-hydroxyglutaric aciduria, 615182 (3), Autosomal recessive; ?Myasthenic syndrome
 Combined factor V and VIII deficiency, 227300 (3), Autosomal recessive
 Combined immunodeficiency and megaloblastic anemia with or without hyperhomocysteinemia, 617780 (3), Autosomal recessive
 Combined immunodeficiency, X-linked, moderate, 312863 (3), X-linked recessive; Severe combined immunodeficiency
 Combined oxidative phosphorylation deficiency 2, 610498 (3), Autosomal recessive
 Combined oxidative phosphorylation deficiency 23, 616198 (3), Autosomal recessive
 Combined oxidative phosphorylation deficiency 5, 611719 (3), Autosomal recessive; Ovarian dysgenesis 7
 Combined SAP deficiency, 611721 (3), Autosomal recessive; Gaucher disease, atypical, 610539 (3); Krabbe
 COMMAD syndrome, 617306 (3), Autosomal recessive; {Melanoma, cutaneous malignant, susceptibility to}, 617306 (3), Autosomal recessive
 Complement factor D deficiency, 613912 (3), Autosomal recessive

Complement factor I deficiency, 610984 (3), Autosomal recessive; {Hemolytic uremic syndrome, atypical, s
 [Blood group Cromer], 613793 (3), Autosomal recessive; Complement hyperactivation, angiopathic thromb
 Congenital anomalies of kidney and urinary tract 1, 610805 (3), Autosomal dominant; Spastic paraplegia 2
 Congenital arthrogryposis with anterior horn cell disease, 611890 (3), Autosomal recessive; Lethal congen
 Congenital contractures of the limbs and face, hypotonia, and developmental delay, 616266 (3), Autosoma
 Congenital disorder of deglycosylation, 615273 (3), Autosomal recessive
 Congenital disorder of glycosylation with defective fucosylation 1, 618005 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Ia, 212065 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Ib, 602579 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Icc, 301031 (3), X-linked recessive; Immunodeficiency, X-linked,
 Congenital disorder of glycosylation, type Ie, 608799 (3), Autosomal recessive
 Congenital disorder of glycosylation, type If, 609180 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Ig, 607143 (3), Autosomal recessive
 Congenital disorder of glycosylation, type IIb, 606056 (3), Autosomal recessive
 Congenital disorder of glycosylation, type IIc, 266265 (3), Autosomal recessive
 Congenital disorder of glycosylation, type IIe, 608779 (3), Autosomal recessive
 Congenital disorder of glycosylation, type IIf, 603585 (3), Autosomal recessive
 Congenital disorder of glycosylation, type IIg, 611209 (3), Autosomal recessive
 Congenital disorder of glycosylation, type IIj, 613489 (3), Autosomal recessive; Saul-Wilson syndrome, 61
 Congenital disorder of glycosylation, type III, 614576 (3), Autosomal recessive; Shaheen syndrome, 61532
 Congenital disorder of glycosylation, type IIIn, 616721 (3), Autosomal recessive
 Congenital disorder of glycosylation, type IIo, 616828 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Ij, 608093 (3), Autosomal recessive; Myasthenic syndrome, cong
 Congenital disorder of glycosylation, type Ik, 608540 (3), Autosomal recessive
 Congenital disorder of glycosylation, type II, 608776 (3), Autosomal recessive; Gillesen-Kaesbach-Nishim
 Congenital disorder of glycosylation, type Im, 610768 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Ip, 613661 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Iq, 612379 (3), Autosomal recessive; Kahrizi syndrome, 612713
 Congenital disorder of glycosylation, type It, 614921 (3), Autosomal recessive
 Congenital disorder of glycosylation, type Iu, 615042 (3), Autosomal recessive
 Congenital heart defects and ectodermal dysplasia, 617364 (3), Autosomal dominant
 Congenital heart defects and skeletal malformations syndrome, 617602 (3), Autosomal dominant; Leukem
 Congenital heart defects, nonsyndromic, 2, 614980 (3), Autosomal dominant
 Congenital hypotonia, epilepsy, developmental delay, and digital anomalies, 618494 (3), Autosomal domin
 Conotruncal heart malformations, 217095 (3); Persistent truncus arteriosus, 217095 (3)
 Atrial septal defect 7, with or without AV conduction defects, 108900 (3), Autosomal dominant; Conotrunca
 Arthrogryposis, distal, type 2A (Freeman-Sheldon), 193700 (3), Autosomal dominant; Arthrogryposis, dista
 Coproporphyrria, 121300 (3), Autosomal dominant; Harderoporphyria, 121300 (3), Autosomal dominant
 Corneal dystrophy, Fuchs endothelial, 3, 613267 (3), Autosomal dominant; Pitt-Hopkins syndrome, 61095
 Corneal dystrophy, Fuchs endothelial, 6, 613270 (3); Corneal dystrophy, posterior polymorphous, 3, 60914
 Corneal dystrophy, posterior polymorphous, 4, 618031 (3), Autosomal dominant; Deafness, autosomal do
 Cornelia de Lange syndrome 1, 122470 (3), Autosomal dominant
 Cornelia de Lange syndrome 2, 300590 (3), X-linked dominant
 Cornelia de Lange syndrome 3, 610759 (3), Autosomal dominant
 Cornelia de Lange syndrome 5, 300882 (3), X-linked dominant

{Autism susceptibility 15}, 612100 (3); Cortical dysplasia-focal epilepsy syndrome, 610042 (3), Autosomal dominant; Cortical dysplasia, complex, with other brain malformations 6, 615771 (3), Autosomal dominant; Symmetrical cortical dysplasia, 615771 (3), Autosomal dominant; Cortisone reductase deficiency 1, 604931 (3), Autosomal recessive; Cortisone reductase deficiency 2, 614662 (3), Autosomal dominant; Bladder cancer, somatic, 109800 (3); Congenital myopathy with excess of muscle spindles, 218040 (3), Autosomal dominant; Cousin syndrome, 260660 (3), Autosomal recessive; Cowden syndrome 1, 158350 (3), Autosomal dominant; {Glioma susceptibility 2}, 613028 (3); Lhermitte-Duclos disease, 613028 (3), Autosomal dominant; Breast cancer, somatic, 114480 (3); CLAPO syndrome, somatic, 613089 (3); CLOVE syndrome, somatic, 613089 (3), Autosomal dominant; Cranioectodermal dysplasia 1, 218330 (3), Autosomal recessive; Cranioectodermal dysplasia 2, 613610 (3), Autosomal recessive; Short-rib thoracic dysplasia 7 with or without polydactyly, 613610 (3), Autosomal recessive; Craniofacial dysmorphism, skeletal anomalies, and mental retardation syndrome, 213980 (3), Autosomal dominant; Craniofrontonasal dysplasia, 304110 (3), X-linked dominant; Craniolenticulosutural dysplasia, 607812 (3), Autosomal recessive; Cranioosteoarthropathy, 259100 (3), Autosomal recessive; Digital clubbing, isolated congenital, 119900 (3), Autosomal dominant; [Blood group, Diego], 110500 (3); [Blood group, Froese], 601551 (3); [Blood group, Swann], 601550 (3); [Erythrocyte, Diego], 110500 (3); Culler-Jones syndrome, 615849 (3), Autosomal dominant; Holoprosencephaly 9, 610829 (3), Autosomal dominant; Currarino syndrome, 176450 (3), Autosomal dominant; Cutis laxa, autosomal dominant 3, 616603 (3), Autosomal dominant; Cutis laxa, autosomal recessive, type I, 616603 (3), Autosomal recessive; Cutis laxa, autosomal dominant, 123700 (3), Autosomal dominant; Supravalvular aortic stenosis, 185500 (3), Autosomal dominant; Cutis laxa, autosomal recessive, type IB, 614437 (3), Autosomal recessive; Cutis laxa, autosomal recessive, type IC, 613177 (3), Autosomal recessive; Cutis laxa, autosomal recessive, type IIA, 219200 (3), Autosomal recessive; Wrinkly skin syndrome, 278250 (3), Autosomal recessive; Cutis laxa, autosomal recessive, type IIB, 612940 (3), Autosomal recessive; Cutis laxa, autosomal recessive, type IIC, 617402 (3), Autosomal recessive; Cutis laxa, autosomal recessive, type IID, 617403 (3), Autosomal recessive; Epileptic encephalopathy, infantile, 617403 (3), Autosomal recessive; Cyanosis, transient neonatal, 613977 (3), Autosomal dominant; Fetal hemoglobin quantitative trait locus 1, 613977 (3), Autosomal dominant; Cystinosis, atypical nephropathic, 219800 (3), Autosomal recessive; Cystinosis, late-onset juvenile or adult, 219800 (3), Autosomal recessive; Cystinuria, 220100 (3), Autosomal recessive, Autosomal dominant; Cystinuria, 220100 (3), Autosomal recessive, Autosomal dominant; Deafness, congenital with inner ear agenesis, microtia, and microdontia, 610706 (3), Autosomal recessive; Deafness, congenital, with onychodystrophy, autosomal dominant, 124480 (3), Autosomal dominant; Zimmet syndrome, 610706 (3), Autosomal dominant; Dehydrated hereditary stomatocytosis 2, 616689 (3), Autosomal dominant; Dehydrated hereditary stomatocytosis with or without pseudohyperkalemia and/or perinatal edema, 194380 (3), Autosomal dominant; Charcot-Marie-Tooth disease, dominant intermediate D, 607791 (3), Autosomal dominant; Charcot-Marie-Tooth disease, type 1, 607791 (3), Autosomal dominant; Charcot-Marie-Tooth disease, type 1A, 118220 (3), Autosomal dominant; Charcot-Marie-Tooth disease, type 1B, 118220 (3), Autosomal dominant; Delta-beta thalassemia, 141749 (3), Autosomal dominant; Erythrocytosis 6, 617980 (3); Heinz body anemia, 617980 (3), Autosomal dominant; Dent disease 2, 300555 (3), X-linked recessive; Lowe syndrome, 309000 (3), X-linked recessive; Dental anomalies and short stature, 601216 (3), Autosomal recessive; Geleophysic dysplasia 3, 617809 (3), Autosomal recessive; Basal ganglia calcification, idiopathic, 5, 615483 (3), Autosomal dominant; Dermatofibrosarcoma protuberans, 615483 (3), Autosomal dominant; Dermatopathia pigmentosa reticularis, 125595 (3), Autosomal dominant; Epidermolysis bullosa simplex, Dystrophic, 615483 (3), Autosomal dominant; Desmosterolosis, 602398 (3), Autosomal recessive; NULL; Developmental delay with short stature, dysmorphic facial features, and sparse hair, 616901 (3), Autosomal dominant; Developmental delay, intellectual disability, obesity, and dysmorphism, 617991 (3), Autosomal dominant; Diabetes mellitus, transient neonatal, 3, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 1}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 2}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 3}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 4}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 5}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 6}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 7}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 8}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 9}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 10}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 11}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 12}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 13}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 14}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 15}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 16}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 17}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 18}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 19}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 20}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 21}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 22}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 23}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 24}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 25}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 26}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 27}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 28}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 29}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 30}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 31}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 32}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 33}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 34}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 35}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 36}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 37}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 38}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 39}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 40}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 41}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 42}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 43}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 44}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 45}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 46}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 47}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 48}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 49}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 50}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 51}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 52}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 53}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 54}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 55}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 56}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 57}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 58}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 59}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 60}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 61}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 62}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 63}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 64}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 65}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 66}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 67}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 68}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 69}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 70}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 71}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 72}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 73}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 74}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 75}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 76}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 77}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 78}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 79}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 80}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 81}, 610582 (3), Autosomal dominant; {Diabetes mellitus, type 2, susceptibility 82},

Diamond Blackfan anemia 15 with mandibulofacial dysostosis, 606164 (3), Autosomal dominant
 Diamond-Blackfan anemia 1, 105650 (3), Autosomal dominant
 Diamond-Blackfan anemia 10, 613309 (3), Autosomal dominant
 Diamond-Blackfan anemia 13, 615909 (3), Autosomal dominant
 Diamond-blackfan anemia 3, 610629 (3), Autosomal dominant
 Diamond-Blackfan anemia 4, 612527 (3), Autosomal dominant
 Diamond-Blackfan anemia 5, 612528 (3), Autosomal dominant
 Diamond-Blackfan anemia 6, 612561 (3), Autosomal dominant
 Diamond-Blackfan anemia 7, 612562 (3), Autosomal dominant
 Diamond-Blackfan anemia 8, 612563 (3), Autosomal dominant
 Diamond-Blackfan anemia 9, 613308 (3), Autosomal dominant
 Diaphyseal medullary stenosis with malignant fibrous histiocytoma, 112250 (3), Autosomal dominant
 Diarrhea 10, protein-losing enteropathy type, 618183 (3), Autosomal recessive
 Diarrhea 3, secretory sodium, congenital, syndromic, 270420 (3), Autosomal recessive
 Colorectal cancer, hereditary nonpolyposis, type 8, 613244 (3); Diarrhea 5, with tufting enteropathy, congenital
 Diarrhea 8, secretory sodium, congenital, 616868 (3), Autosomal recessive
 DOORS syndrome, 220500 (3), Autosomal recessive; Deafness, autosomal recessive 86, 614617 (3), Autosomal recessive
 Dowling-Degos disease 1, 179850 (3), Autosomal dominant; Epidermolysis bullosa simplex, Dowling-Mearns type
 Dowling-Degos disease 2, 615327 (3), Autosomal dominant
 Dowling-Degos disease 4, 615696 (3), Autosomal dominant; ?Muscular dystrophy, limb-girdle, autosomal recessive
 Duane retraction syndrome 3, 617041 (3), Autosomal dominant; Multicentric carpotarsal osteolysis syndrome
 Duane-radial ray syndrome, 607323 (3), Autosomal dominant; IVIC syndrome, 147750 (3), Autosomal dominant
 Dubin-Johnson syndrome, 237500 (3), Autosomal recessive
 Dursun syndrome, 612541 (3), Autosomal recessive; Neutropenia, severe congenital 4, autosomal recessive
 ?Cancer, alopecia, pigment dyscrasia, onychodystrophy, and keratoderma, 618373 (3), Autosomal recessive
 [Blood group, Langereis system], 111600 (3); Dyschromatosis universalis hereditaria 3, 615402 (3), Autosomal recessive
 Dyserythropoietic anemia, congenital, type Ia, 224120 (3), Autosomal recessive
 NA
 Blood group--Lutheran inhibitor, 111150 (3); Dyserythropoietic anemia, congenital, type IV, 613673 (3), Autosomal recessive
 Dyskeratosis congenita, autosomal dominant 3, 613990 (3), Autosomal dominant; Revesz syndrome, 268300 (3), Autosomal recessive
 Dyskeratosis congenita, autosomal dominant 4, 615190 (3), Autosomal recessive, Autosomal dominant; Dyskeratosis congenita, autosomal recessive 1, 224230 (3), Autosomal recessive
 Dyskeratosis congenita, autosomal recessive 2, 613987 (3), Autosomal recessive
 Dyskeratosis congenita, autosomal recessive 3, 613988 (3), Autosomal recessive
 Dyskeratosis congenita, autosomal recessive 6, 616353 (3), Autosomal recessive; Pulmonary fibrosis and emphysema
 Dyskeratosis congenita, X-linked, 305000 (3), X-linked recessive
 Dysplasminogenemia, 217090 (3), Autosomal recessive; Plasminogen deficiency, type I, 217090 (3), Autosomal recessive
 Dysprothrombinemia, 613679 (3), Autosomal recessive; Hypoprothrombinemia, 613679 (3), Autosomal recessive
 Dyssegmental dysplasia, Silverman-Handmaker type, 224410 (3), Autosomal recessive; Schwartz-Jampel syndrome
 Bethlem myopathy 1, 158810 (3), Autosomal recessive, Autosomal dominant; Dystonia 27, 616411 (3), Autosomal dominant
 EBD inversa, 226600 (3), Autosomal recessive; EBD, Bart type, 132000 (3), Autosomal dominant; EBD, long form
 Ectodermal dysplasia 1, hypohidrotic, X-linked, 305100 (3), X-linked recessive; Tooth agenesis, selective, autosomal dominant
 Ectodermal dysplasia 11A, hypohidrotic/hair/tooth type, autosomal dominant, 614940 (3), Autosomal dominant
 Deafness, autosomal dominant 3B, 612643 (3), Autosomal dominant; Deafness, autosomal recessive 1B, 612643 (3), Autosomal recessive
 Ectodermal dysplasia 3, Witkop type, 189500 (3), Autosomal dominant; Orofacial cleft 5, 608874 (3); Tooth agenesis, autosomal dominant

Ectodermal dysplasia 4, hair/nail type, 602032 (3), Autosomal recessive
 Ectodermal dysplasia 9, hair/nail type, 614931 (3), Autosomal recessive
 Ectodermal dysplasia and immunodeficiency 1, 300291 (3); Ectodermal, dysplasia, anhidrotic, lymphedema
 Ectodermal dysplasia and immunodeficiency 2, 612132 (3), Autosomal dominant
 NULL
 Ectodermal dysplasia-syndactyly syndrome 1, 613573 (3), Autosomal recessive
 Ectodermal dysplasia, ectrodactyly, and macular dystrophy, 225280 (3), Autosomal recessive; Hypotrichosis
 Ectodermal dysplasia/skin fragility syndrome, 604536 (3)
 Ehlers-Danlos syndrome, classic type, 1, 130000 (3), Autosomal dominant
 Ehlers-Danlos syndrome, classic type, 2, 130010 (3), Autosomal dominant
 Ehlers-Danlos syndrome, classic-like, 1, 606408 (3), Autosomal recessive; Vesicoureteral reflux 8, 615963
 Ehlers-Danlos syndrome, classic-like, 2, 618000 (3), Autosomal recessive
 Ehlers-Danlos syndrome, dermatosparaxis type, 225410 (3), Autosomal recessive
 Ehlers-Danlos syndrome, kyphoscoliotic type, 1, 225400 (3), Autosomal recessive
 Ehlers-Danlos syndrome, kyphoscoliotic type, 2, 614557 (3), Autosomal recessive
 Ehlers-Danlos syndrome, musculocontractural type 1, 601776 (3), Autosomal recessive
 Ehlers-Danlos syndrome, musculocontractural type 2, 615539 (3), Autosomal recessive
 Ehlers-Danlos syndrome, periodontal type, 1, 130080 (3), Autosomal dominant
 C1s deficiency, 613783 (3); Ehlers-Danlos syndrome, periodontal type, 2, 617174 (3), Autosomal dominant
 Ehlers-Danlos syndrome, spondylodysplastic type, 1, 130070 (3), Autosomal recessive
 Ehlers-Danlos syndrome, spondylodysplastic type, 2, 615349 (3), Autosomal recessive; Spondyloepimetaphyseal
 Ehlers-Danlos syndrome, spondylodysplastic type, 3, 612350 (3), Autosomal recessive
 Ehlers-Danlos syndrome, vascular type, 130050 (3), Autosomal dominant; Polymicrogyria with or without v
 Elliptocytosis-1, 611804 (3), Autosomal recessive, Autosomal dominant
 Elliptocytosis-2, 130600 (3), Autosomal dominant; Pyropoikilocytosis, 266140 (3), Autosomal recessive; Sp
 Ellis-van Creveld syndrome, 225500 (3), Autosomal recessive; Weyers acrofacial dysostosis, 193530 (3),
 Elsahy-Waters syndrome, 211380 (3), Autosomal recessive
 Emberger syndrome, 614038 (3), Autosomal dominant; Immunodeficiency 21, 614172 (3), Autosomal dom
 Emphysema due to AAT deficiency, 613490 (3), Autosomal recessive; Emphysema-cirrhosis, due to AAT
 Encephalocraniocutaneous lipomatosis, somatic mosaic, 613001 (3); Hartsfield syndrome, 615465 (3), Au
 {Autism susceptibility, X-linked 3}, 300496 (3), X-linked; Encephalopathy, neonatal severe, 300673 (3), X-l
 Encephalopathy, progressive, early-onset, with brain atrophy and thin corpus callosum, 617193 (3), Autos
 Encephalopathy, progressive, early-onset, with brain edema and/or leukoencephalopathy, 2, 618321 (3), A
 Encephalopathy, progressive, early-onset, with brain edema and/or leukoencephalopathy, 617186 (3), Aut
 Encephalopathy, progressive, with amyotrophy and optic atrophy, 617207 (3), Autosomal recessive; Hypo
 Epidermodysplasia verruciformis 3, 618267 (3), Autosomal recessive
 Epidermodysplasia verruciformis, 226400 (3), Autosomal recessive
 Epidermolysis bullosa of hands and feet, 131800 (3), Autosomal dominant; Epidermolysis bullosa, junction
 Epidermolysis bullosa simplex, generalized, with scarring and hair loss, 617294 (3), Autosomal dominant
 Epidermolysis bullosa, generalized atrophic benign, 226650 (3), Autosomal recessive; Epidermolysis bullo
 Epidermolysis bullosa, junctional, Herlitz type, 226700 (3), Autosomal recessive; Epidermolysis bullosa, ju
 Epidermolysis bullosa, junctional, localisata variant, 226650 (3), Autosomal recessive; Epidermolysis bullo
 Epidermolysis bullosa, junctional, with pyloric stenosis, 226730 (3), Autosomal recessive
 Epidermolysis bullosa, nonspecific, autosomal recessive, 615028 (3), Autosomal recessive
 Epidermolytic hyperkeratosis, 113800 (3), Autosomal recessive, Autosomal dominant; Ichthyosis histrix, C

Epidermolytic hyperkeratosis, 113800 (3), Autosomal recessive, Autosomal dominant; Ichthyosis with conf
 Epilepsy, hearing loss, and mental retardation syndrome, 616577 (3), Autosomal recessive
 Epilepsy, progressive myoclonic 1A (Unverricht and Lundborg), 254800 (3), Autosomal recessive
 Acromesomelic dysplasia, Maroteaux type, 602875 (3), Autosomal recessive; Epiphyseal chondrodysplasi
 Episodic pain syndrome, familial, 2, 615551 (3), Autosomal dominant
 Episodic pain syndrome, familial, 3, 615552 (3), Autosomal dominant; Neuropathy, hereditary sensory and
 {Dravet syndrome, modifier of}, 607208 (3), Autosomal dominant; Epilepsy, generalized, with febrile seizur
 Erythrocytosis, familial, 2, 263400 (3), Autosomal recessive; Hemangioblastoma, cerebellar, somatic (3); F
 Erythrocytosis, familial, 8, 222800 (3), Autosomal recessive
 Erythroderma, congenital, with palmoplantar keratoderma, hypotrichosis, and hyper IgE, 615508 (3), Autos
 Deafness, autosomal dominant 2B, 612644 (3), Autosomal dominant; Deafness, autosomal dominant, with
 Erythrokeratoderma variabilis et progressiva 2, 617524 (3), Autosomal dominant
 Atrioventricular septal defect 3, 600309 (3), Autosomal dominant; Craniometaphyseal dysplasia, autosoma
 Erythrokeratoderma variabilis et progressiva 4, 617526 (3), Autosomal recessive
 Erythrokeratoderma variabilis et progressiva 5, 617756 (3), Autosomal recessive; Monilethrix, 158000 (3),
 NULL
 Erythrokeratoderma variabilis et progressiva 6, 618531 (3), Autosomal dominant; Progressive familial hea
 Escobar syndrome, 265000 (3), Autosomal recessive; Multiple pterygium syndrome, lethal type, 253290 (3)
 Amyotrophic lateral sclerosis 6, with or without frontotemporal dementia, 608030 (3); Essential tremor, her
 Breast cancer, somatic, 114480 (3); Estrogen resistance, 615363 (3), Autosomal recessive; {Migraine, sus
 Ethylmalonic encephalopathy, 602473 (3), Autosomal recessive
 Exocrine pancreatic insufficiency, dyserythropoietic anemia, and calvarial hyperostosis, 612714 (3), Autos
 Exostoses, multiple, type 2, 133701 (3), Autosomal dominant; Seizures, scoliosis, and macrocephaly synd
 [Bone mineral density variability 1], 601884 (3), Autosomal dominant; Exudative vitreoretinopathy 4, 60181
 Colorectal cancer, somatic, 114500 (3); Exudative vitreoretinopathy 7, 617572 (3), Autosomal dominant; H
 Fabry disease, 301500 (3), X-linked; Fabry disease, cardiac variant, 301500 (3), X-linked
 Factor V and factor VIII, combined deficiency of, 613625 (3)
 Familial cold autoinflammatory syndrome 2, 611762 (3), Autosomal dominant
 Familial Mediterranean fever, AD, 134610 (3), Autosomal dominant; Familial Mediterranean fever, AR, 249
 Fanconi anemia, complementation group A, 227650 (3), Autosomal recessive
 Fanconi anemia, complementation group B, 300514 (3), X-linked recessive
 Fanconi anemia, complementation group C, 227645 (3), Autosomal recessive
 {Breast cancer, male, susceptibility to}, 114480 (3), Autosomal dominant, Somatic mutation; {Breast-ovaria
 Fanconi anemia, complementation group D2, 227646 (3), Autosomal recessive
 Fanconi anemia, complementation group E, 600901 (3), Autosomal recessive
 Fanconi anemia, complementation group I, 609053 (3), Autosomal recessive
 Fanconi anemia, complementation group L, 614083 (3), Autosomal recessive
 {Breast-ovarian cancer, familial, susceptibility to, 3}, 613399 (3); Fanconi anemia, complementation group
 Fanconi anemia, complementation group P, 613951 (3), Autosomal recessive
 Fanconi anemia, complementation group Q, 615272 (3), Autosomal recessive; XFE progeroid syndrome, 6
 {Breast-ovarian cancer, familial, 1}, 604370 (3), Autosomal dominant, Multifactorial; Fanconi anemia, comp
 Fanconi anemia, complementation group T, 616435 (3), Autosomal recessive
 {Diabetes mellitus, noninsulin-dependent}, 125853 (3), Autosomal dominant; Fanconi-Bickel syndrome, 22
 Farber lipogranulomatosis, 228000 (3), Autosomal recessive; Spinal muscular atrophy with progressive my
 Deafness, autosomal dominant 13, 601868 (3), Autosomal dominant; Deafness, autosomal recessive 53, 6

Fibrodysplasia ossificans progressiva, 135100 (3), Autosomal dominant
 Fibromatosis, gingival, 5, 617626 (3), Autosomal dominant; {Wilms tumor 6, susceptibility to}, 616806 (3)
 Filippi syndrome, 272440 (3), Autosomal recessive
 {Colorectal cancer, susceptibility to, 12}, 615083 (3), Autosomal dominant; FILS syndrome, 615139 (3), Autosomal dominant
 FINCA syndrome, 618278 (3), Autosomal recessive
 Fish-eye disease, 136120 (3), Autosomal recessive; Norum disease, 245900 (3), Autosomal recessive
 Floating-Harbor syndrome, 136140 (3), Autosomal dominant
 Focal dermal hypoplasia, 305600 (3), X-linked dominant
 Focal facial dermal dysplasia 4, 614974 (3), Autosomal recessive
 Folate malabsorption, hereditary, 229050 (3), Autosomal recessive
 Fontaine progeroid syndrome, 612289 (3), Autosomal dominant
 Frank-ter Haar syndrome, 249420 (3), Autosomal recessive
 Fraser syndrome 1, 219000 (3), Autosomal recessive
 Fructose intolerance, hereditary, 229600 (3), Autosomal recessive
 Fructose-1,6-bisphosphatase deficiency, 229700 (3), Autosomal recessive
 Fucosidosis, 230000 (3), Autosomal recessive
 Fumarase deficiency, 606812 (3), Autosomal recessive; Leiomyomatosis and renal cell cancer, 150800 (3), Autosomal dominant
 Gabriele-de Vries syndrome, 617557 (3), Autosomal dominant
 Galactokinase deficiency with cataracts, 230200 (3), Autosomal recessive
 Galactose epimerase deficiency, 230350 (3), Autosomal recessive
 Galactosemia, 230400 (3), Autosomal recessive
 Galactosialidosis, 256540 (3), Autosomal recessive
 Galloway-Mowat syndrome 1, 251300 (3), Autosomal recessive
 Galloway-Mowat syndrome 2, X-linked, 301006 (3), X-linked recessive
 Galloway-Mowat syndrome 3, 617729 (3), Autosomal recessive
 Galloway-Mowat syndrome 4, 617730 (3), Autosomal recessive
 Galloway-Mowat syndrome 5, 617731 (3), Autosomal recessive
 Galloway-Mowat syndrome 6, 618347 (3), Autosomal recessive; Microcephaly, growth deficiency, seizures
 Galloway-Mowat syndrome 7, 618348 (3), Autosomal recessive; Nephrotic syndrome, type 11, 616730 (3), Autosomal recessive
 GAPO syndrome, 230740 (3), Autosomal recessive; {?Hemangioma, capillary infantile, susceptibility to}, 616730 (3), Autosomal recessive
 Adenoma, periampullary, somatic (3); Adenomatous polyposis coli, 175100 (3), Autosomal dominant; Brain tumor, embryonal, 109200 (3), Autosomal dominant
 Gastrointestinal defects and immunodeficiency syndrome, 243150 (3), Autosomal recessive
 Gastrointestinal stromal tumor, 606764 (3), Autosomal dominant, Isolated cases; Paraganglioma and gastrointestinal stromal tumor, 606764 (3), Autosomal dominant, Isolated cases; Paraganglioma and gastrointestinal stromal tumor, 606764 (3), Autosomal dominant, Isolated cases; Germ cell tumor, 606764 (3), Autosomal dominant, Isolated cases
 Gaucher disease, perinatal lethal, 608013 (3), Autosomal recessive; Gaucher disease, type I, 230800 (3), Autosomal recessive
 Colorectal cancer, somatic, 114500 (3); Esophageal carcinoma, somatic, 133239 (3); Gaze palsy, familial, 616730 (3), Autosomal recessive
 Geleophysic dysplasia 1, 231050 (3), Autosomal recessive
 Acromicric dysplasia, 102370 (3), Autosomal dominant; Ectopia lentis, familial, 129600 (3), Autosomal dominant
 Genitopatellar syndrome, 606170 (3), Autosomal dominant; SBBYSS syndrome, 603736 (3), Autosomal dominant
 Geroderma osteodysplasticum, 231070 (3), Autosomal recessive
 Gitelman syndrome, 263800 (3), Autosomal recessive
 Glass syndrome, 612313 (3), Autosomal dominant
 Glomerulosclerosis, focal segmental, 7, 616002 (3), Autosomal dominant; Papillorenal syndrome, 120330 (3), Autosomal dominant
 Glomuvenous malformations, 138000 (3), Autosomal dominant

Glucocorticoid deficiency 2, 607398 (3), Autosomal recessive
 Glucocorticoid deficiency 4, with or without mineralocorticoid deficiency, 614736 (3), Autosomal recessive
 Glucocorticoid deficiency, due to ACTH unresponsiveness, 202200 (3), Autosomal recessive
 Glucocorticoid resistance, 615962 (3), Autosomal dominant
 Dystonia 9, 601042 (3), Autosomal dominant; {Epilepsy, idiopathic generalized, susceptibility to, 12}, 6148
 Glutamate formiminotransferase deficiency, 229100 (3), Autosomal recessive
 Glutamine deficiency, congenital, 610015 (3), Autosomal recessive
 Glutaric acidemia IIA, 231680 (3), Autosomal recessive
 Glutaric acidemia IIB, 231680 (3), Autosomal recessive
 Glutaric acidemia IIC, 231680 (3), Autosomal recessive
 Glutathione synthetase deficiency, 266130 (3), Autosomal recessive; Hemolytic anemia due to glutathione
 Glycogen storage disease Ia, 232200 (3), Autosomal recessive
 Glycogen storage disease Ib, 232220 (3), Autosomal recessive; Glycogen storage disease Ic, 232240 (3),
 Glycogen storage disease II, 232300 (3), Autosomal recessive
 Glycogen storage disease IIIa, 232400 (3), Autosomal recessive; Glycogen storage disease IIIb, 232400 (3),
 Glycogen storage disease IV, 232500 (3), Autosomal recessive; Polyglucosan body disease, adult form, 2
 Cirrhosis due to liver phosphorylase kinase deficiency (3); Glycogen storage disease IXc, 613027 (3), Auto
 Cardiomyopathy, hypertrophic 6, 600858 (3), Autosomal dominant; Glycogen storage disease of heart, left
 Glycogen storage disease VII, 232800 (3), Autosomal recessive
 Glycogen storage disease XII, 611881 (3), Autosomal recessive
 Glycogen storage disease, type IXa1, 306000 (3), X-linked recessive; Glycogen storage disease, type IXa
 Glycosylphosphatidylinositol biosynthesis defect 11, 616025 (3), Autosomal recessive
 Glycosylphosphatidylinositol biosynthesis defect 18, 618143 (3), Autosomal recessive
 Glycosylphosphatidylinositol deficiency, 610293 (3), Autosomal recessive
 GM1-gangliosidosis, type I, 230500 (3), Autosomal recessive; GM1-gangliosidosis, type II, 230600 (3), Au
 Gnathodiaphyseal dysplasia, 166260 (3), Autosomal dominant; Miyoshi muscular dystrophy 3, 613319 (3)
 GLOW syndrome, somatic mosaic, 618272 (3); Goiter, multinodular 1, with or without Sertoli-Leydig cell tu
 Gonadal dysgenesis, dysmorphic facies, retinal dystrophy, and myopathy, 618419 (3), Autosomal recessive
 Gracile bone dysplasia, 602361 (3), Autosomal dominant; Kenny-Caffey syndrome, type 2, 127000 (3), Au
 Gray platelet syndrome, 139090 (3), Autosomal recessive
 Greig cephalopolysyndactyly syndrome, 175700 (3), Autosomal dominant; {Hypothalamic hamartomas, so
 Griscelli syndrome, type 1, 214450 (3), Autosomal recessive
 Griscelli syndrome, type 2, 607624 (3), Autosomal recessive
 Griscelli syndrome, type 3, 609227 (3), Autosomal recessive
 Growth hormone deficiency with pituitary anomalies, 182230 (3), Autosomal recessive, Autosomal domina
 Growth hormone deficiency, isolated, type IA, 262400 (3), Autosomal recessive; Growth hormone deficien
 Growth hormone insensitivity with immunodeficiency, 245590 (3); Leukemia, acute promyelocytic, somatic
 Growth hormone insensitivity, partial, 604271 (3), Autosomal dominant; {Hypercholesterolemia, familial, m
 Growth retardation, developmental delay, facial dysmorphism, 612938 (3), Autosomal recessive; {Obesity,
 Hailey-Hailey disease, 169600 (3), Autosomal dominant
 Haim-Munk syndrome, 245010 (3), Autosomal recessive; Papillon-Lefevre syndrome, 245000 (3), Autosom
 Hamamy syndrome, 611174 (3), Autosomal recessive
 NULL
 HARP syndrome, 607236 (3), Autosomal recessive; Neurodegeneration with brain iron accumulation 1, 23
 Hartnup disorder, 234500 (3), Autosomal recessive; Hyperglycinuria, 138500 (3), Autosomal dominant; Im

Heimler syndrome 1, 234580 (3), Autosomal recessive; Peroxisome biogenesis disorder 1A (Zellweger), 2
 Heimler syndrome 2, 616617 (3), Autosomal recessive; Peroxisome biogenesis disorder 4A (Zellweger), 6
 Erythrocytosis 7, 617981 (3); Heinz body anemia, 140700 (3), Autosomal dominant; Hemoglobin H disease
 Erythrocytosis, 7, 617981 (3); Heinz body anemias, alpha-, 140700 (3), Autosomal dominant; Hemoglobin
 HELIX syndrome, 617671 (3), Autosomal recessive
 Helsmoortel-van der Aa syndrome, 615873 (3), Autosomal dominant
 Hemochromatosis, type 2A, 602390 (3), Autosomal recessive
 Hemochromatosis, type 2B, 613313 (3), Autosomal recessive
 Hemochromatosis, type 3, 604250 (3), Autosomal recessive
 Hemochromatosis, type 4, 606069 (3), Autosomal dominant
 Hemolytic anemia due to gamma-glutamylcysteine synthetase deficiency, 230450 (3), Autosomal recessive
 Hemolytic anemia due to hexokinase deficiency, 235700 (3), Autosomal recessive; Neurodevelopmental d
 Hemolytic anemia due to triosephosphate isomerase deficiency, 615512 (3), Autosomal recessive
 Hemolytic anemia, G6PD deficient (favism), 300908 (3), X-linked dominant; {Resistance to malaria due to
 Hemolytic anemia, nonspherocytic, due to glucose phosphate isomerase deficiency, 613470 (3), Autosom
 Aplastic anemia, 609135 (3); Hemophagocytic lymphohistiocytosis, familial, 2, 603553 (3), Autosomal rece
 Hemophagocytic lymphohistiocytosis, familial, 3, 608898 (3)
 Hemophagocytic lymphohistiocytosis, familial, 4, 603552 (3), Autosomal recessive
 Hemophagocytic lymphohistiocytosis, familial, 5, 613101 (3)
 Hennekam lymphangiectasia-lymphedema syndrome 1, 235510 (3), Autosomal recessive
 Hennekam lymphangiectasia-lymphedema syndrome 2, 616006 (3), Autosomal recessive; Van Maldergen
 Hennekam lymphangiectasia-lymphedema syndrome 3, 618154 (3), Autosomal recessive
 {Diabetes mellitus, noninsulin-dependent}, 125853 (3), Autosomal dominant; Hepatic lipase deficiency, 61.
 Hepatic venoocclusive disease with immunodeficiency, 235550 (3), Autosomal recessive; {Mycobacterium
 Hermansky-Pudlak syndrome 1, 203300 (3), Autosomal recessive
 Hermansky-Pudlak syndrome 2, 608233 (3), Autosomal recessive
 Hermansky-Pudlak syndrome 3, 614072 (3), Autosomal recessive
 Hermansky-Pudlak syndrome 4, 614073 (3), Autosomal recessive
 Hermansky-Pudlak syndrome 5, 614074 (3), Autosomal recessive
 Hermansky-Pudlak syndrome 6, 614075 (3), Autosomal recessive
 Hermansky-Pudlak syndrome 7, 614076 (3), Autosomal recessive
 Hermansky-Pudlak syndrome 8, 614077 (3), Autosomal recessive
 Congenital heart defects, nonsyndromic, 1, X-linked, 306955 (3), X-linked recessive; Heterotaxy, visceral,
 Heterotaxy, visceral, 2, autosomal, 605376 (3), Autosomal dominant
 Heterotaxy, visceral, 5, 270100 (3), Autosomal dominant
 Heterotaxy, visceral, 7, autosomal, 616749 (3), Autosomal recessive
 Histiocytosis-lymphadenopathy plus syndrome, 602782 (3), Autosomal recessive
 HMG-CoA lyase deficiency, 246450 (3), Autosomal recessive
 Holocarboxylase synthetase deficiency, 253270 (3), Autosomal recessive
 Holoprosencephaly 11, 614226 (3), Autosomal dominant
 Holoprosencephaly 2, 157170 (3), Autosomal dominant; Schizencephaly, 269160 (3)
 Holoprosencephaly 3, 142945 (3), Autosomal dominant; Microphthalmia with coloboma 5, 611638 (3), Aut
 Holoprosencephaly 4, 142946 (3), Autosomal dominant
 Holoprosencephaly 5, 609637 (3), Autosomal dominant
 Homocystinuria-megaloblastic anemia, cbl E type, 236270 (3), Autosomal recessive; {Neural tube defects,

Homocystinuria, B6-responsive and nonresponsive types, 236200 (3), Autosomal recessive; Thrombosis, Homocystinuria, cblD type, variant 1, 277410 (3), Autosomal recessive; Methylmalonic aciduria and homocystinuria, 277410 (3), Autosomal recessive; Cardiomyopathy, dilated, 1A, 115200 (3), Autosomal dominant; Charcot-Marie-Tooth disease, type 2B1, 607748 (3), Autosomal recessive; Hyaline fibromatosis syndrome, 228600 (3), Autosomal recessive; Epileptic encephalopathy, early infantile, 1, 308350 (3), X-linked recessive; Hydranencephaly with abnormal facial features, 236680 (3), Autosomal recessive; Hyper-IgD syndrome, 260920 (3), Autosomal recessive; Mevalonic aciduria, 610377 (3), Autosomal recessive; Hyper-IgE recurrent infection syndrome 3, autosomal recessive, 618282 (3), Autosomal recessive; Hyper-IgE recurrent infection syndrome 4, autosomal recessive, 618523 (3), Autosomal recessive; Hyper-IgE recurrent infection syndrome, autosomal recessive, 243700 (3), Autosomal recessive; {Epilepsy, childhood absence, susceptibility to, 6}, 611942 (3); {Epilepsy, idiopathic generalized, susceptibility to, 8}, 612899 (3); [Bilirubin, serum level of, QTL1], 601816 (3); Crigler-Najjar syndrome, type I, 218800 (3), Autosomal recessive; Hypercholanemia, familial, 607748 (3), Autosomal recessive; Hyperchylomicronemia, late-onset, 144650 (3), Autosomal dominant; {Hypertriglyceridemia, susceptibility to, 8}, 612899 (3); Diabetes mellitus, noninsulin-dependent, 125853 (3), Autosomal dominant; Diabetes mellitus, permanent neonatal, 239200 (3), Autosomal recessive; Hyperkalemic periodic paralysis, type 2, 170500 (3), Autosomal dominant; Hypokalemic periodic paralysis, type 1, 170500 (3), Autosomal dominant; Hyperlipoproteinemia, type 1D, 615947 (3), Autosomal recessive; Hypermanganesemia with dystonia 1, 613280 (3), Autosomal recessive; Hyperornithinemia-hyperammonemia-homocitrullinemia syndrome, 238970 (3), Autosomal recessive; Hyperoxaluria, primary, type 1, 259900 (3), Autosomal recessive; Hyperoxaluria, primary, type II, 260000 (3), Autosomal recessive; Hyperparathyroidism, familial primary, 145000 (3), Autosomal dominant; Hyperparathyroidism-jaw tumor syndrome, 239200 (3), Autosomal recessive; {Epilepsy idiopathic generalized, susceptibility to, 8}, 612899 (3); Hyperparathyroidism, neonatal, 239200 (3), Autosomal recessive; Hyperphenylalaninemia, BH4-deficient, A, 261640 (3), Autosomal recessive; Hyperphosphatasia with mental retardation syndrome 1, 239300 (3), Autosomal recessive; Hyperphosphatasia with mental retardation syndrome 2, 614749 (3), Autosomal recessive; Hyperphosphatasia with mental retardation syndrome 3, 614207 (3), Autosomal recessive; Hyperphosphatasia with mental retardation syndrome 4, 615716 (3), Autosomal recessive; Hyperphosphatasia with mental retardation syndrome 6, 616809 (3), Autosomal recessive; Diabetes mellitus, insulin-dependent, 2, 125852 (3), Autosomal dominant; Diabetes mellitus, permanent neonatal, 239200 (3), Autosomal recessive; Hyperthyroidism, familial gestational, 603373 (3); Hyperthyroidism, nonautoimmune, 609152 (3), Autosomal dominant; Atrial fibrillation, familial, 12, 614050 (3), Autosomal dominant; Cardiomyopathy, dilated, 1O, 608569 (3); Hypertriglyceridemia, transient infantile, 614480 (3), Autosomal recessive; Hypertrophic osteoarthropathy, primary, autosomal recessive 2, 614441 (3), Autosomal recessive; Glomerulocystic kidney disease with hyperuricemia and isosthenuria, 609886 (3); Hyperuricemic nephropathy, familial juvenile, 4, 617056 (3), Autosomal dominant; Hypocalcemia, autosomal dominant 2, 615361 (3), Autosomal dominant; Hypocalciuric hypercalcemia, type I, 600740 (3), Autosomal dominant; Hypocalciuric hypercalcemia, type III, 600740 (3), Autosomal dominant; Diabetes mellitus, type II, 125853 (3), Autosomal dominant; Hypoinsulinemic hypoglycemia with hemihypertrophy, 248250 (3), Autosomal recessive; Hypomagnesemia 3, renal, 248250 (3), Autosomal recessive; Hypomagnesemia 5, renal, with ocular involvement, 248190 (3), Autosomal recessive; Hypoparathyroidism, sensorineural deafness, and renal dysplasia, 146255 (3), Autosomal dominant; Hypophosphatasia, adult, 146300 (3), Autosomal recessive, Autosomal dominant; Hypophosphatasia, childhood, 146300 (3), Autosomal recessive; Hypophosphatemic rickets, AR, 241520 (3), Autosomal recessive; Hypophosphatemic rickets, X-linked dominant, 307800 (3), X-linked dominant

Hypopigmentation, organomegaly, and delayed myelination and development, 618541 (3), Autosomal dominant
 Cataract 44, 616509 (3), Autosomal recessive; Hypotrichosis 14, 618275 (3), Autosomal recessive
 Hypotrichosis 2, 146520 (3), Autosomal dominant; Peeling skin syndrome 1, 270300 (3), Autosomal recessive
 Hypotrichosis 6, 607903 (3), Autosomal recessive
 Hypotrichosis 7, 604379 (3), Autosomal recessive; Woolly hair, autosomal recessive 2 with or without hypotrichosis
 Hypotrichosis 8, 278150 (3), Autosomal recessive; Woolly hair, autosomal recessive 1, with or without hypotrichosis
 Hypotrichosis-lymphedema-telangiectasia syndrome, 607823 (3), Autosomal recessive; Hypotrichosis-lymphedema
 Ichthyosis bullosa of Siemens, 146800 (3), Autosomal dominant
 Ichthyosis prematurity syndrome, 608649 (3)
 {Dermatitis, atopic, susceptibility to, 2}, 605803 (3); Ichthyosis vulgaris, 146700 (3), Autosomal dominant
 Ichthyosis, congenital, autosomal recessive 1, 242300 (3), Autosomal recessive
 Ichthyosis, congenital, autosomal recessive 10, 615024 (3), Autosomal recessive
 Ichthyosis, congenital, autosomal recessive 11, 602400 (3), Autosomal recessive
 Ichthyosis, congenital, autosomal recessive 12, 617320 (3), Autosomal recessive
 Ichthyosis, congenital, autosomal recessive 13, 617574 (3), Autosomal recessive
 Ichthyosis, congenital, autosomal recessive 14, 617571 (3), Autosomal recessive
 Ichthyosis, congenital, autosomal recessive 2, 242100 (3), Autosomal recessive
 Ichthyosis, congenital, autosomal recessive 3, 606545 (3), Autosomal recessive
 Ichthyosis, congenital, autosomal recessive 4A, 601277 (3), Autosomal recessive; Ichthyosis, congenital, autosomal recessive 4B, 601278 (3), Autosomal recessive
 Ichthyosis, congenital, autosomal recessive 5, 604777 (3), Autosomal recessive
 Ichthyosis, congenital, autosomal recessive 6, 612281 (3), Autosomal recessive
 Ichthyosis, congenital, autosomal recessive 8, 613943 (3), Autosomal recessive
 Ichthyosis, congenital, autosomal recessive 9, 615023 (3), Autosomal recessive
 Ichthyosis, leukocyte vacuoles, alopecia, and sclerosing cholangitis, 607626 (3), Autosomal recessive
 Ichthyosis, spastic quadriplegia, and mental retardation, 614457 (3), Autosomal recessive; Spinocerebellar ataxia 1, 270300 (3), Autosomal recessive
 Ichthyosis, X-linked, 308100 (3), X-linked recessive
 Ichthyotic keratoderma, spasticity, hypomyelination, and dysmorphic facies, 618527 (3), Autosomal dominant
 Beckwith-Wiedemann syndrome, 130650 (3), Autosomal dominant; IMAGE syndrome, 614732 (3), Autosomal dominant
 Immunodeficiency 10, 612783 (3), Autosomal recessive; Myopathy, tubular aggregate, 1, 160565 (3), Autosomal recessive
 Immunodeficiency 12, 615468 (3), Autosomal recessive
 Immunodeficiency 14, 615513 (3), Autosomal dominant
 Immunodeficiency 15A, 618204 (3), Autosomal dominant; Immunodeficiency 15B, 615592 (3), Autosomal dominant
 Immunodeficiency 17, CD3 gamma deficient, 615607 (3), Autosomal recessive
 Immunodeficiency 18, 615615 (3), Autosomal recessive; Immunodeficiency 18, SCID variant, 615615 (3), Autosomal recessive
 Immunodeficiency 19, 615617 (3), Autosomal recessive
 Immunodeficiency 20, 615707 (3), Autosomal recessive
 Immunodeficiency 23, 615816 (3), Autosomal recessive
 Immunodeficiency 24, 615897 (3), Autosomal recessive
 Immunodeficiency 26, with or without neurologic abnormalities, 615966 (3), Autosomal recessive
 {H. pylori infection, susceptibility to}, 600263 (3); {Hepatitis B virus infection, susceptibility to}, 610424 (3);
 Immunodeficiency 28, mycobacteriosis, 614889 (3), Autosomal recessive
 Immunodeficiency 29, mycobacteriosis, 614890 (3), Autosomal recessive
 Immunodeficiency 30, 614891 (3), Autosomal recessive
 Immunodeficiency 31A, mycobacteriosis, autosomal dominant, 614892 (3), Autosomal dominant; Immunodeficiency 31B, mycobacteriosis, autosomal dominant, 614893 (3), Autosomal dominant
 Immunodeficiency 32A, mycobacteriosis, autosomal dominant, 614893 (3), Autosomal dominant; Immunodeficiency 32B, mycobacteriosis, autosomal dominant, 614894 (3), Autosomal dominant

Immunodeficiency 35, 611521 (3), Autosomal recessive
Immunodeficiency 38, 616126 (3), Autosomal recessive
Immunodeficiency 40, 616433 (3), Autosomal recessive
{Diabetes, mellitus, insulin-dependent, susceptibility to, 10}, 601942 (3); Immunodeficiency 41 with lympho
Immunodeficiency 42, 616622 (3), Autosomal recessive
Immunodeficiency 46, 616740 (3), Autosomal recessive
Immunodeficiency 47, 300972 (3), X-linked recessive
Immunodeficiency 49, 617237 (3), Autosomal dominant; Intellectual developmental disorder with dysmorph
Immunodeficiency 50, 300988 (3), X-linked recessive
Immunodeficiency 51, 613953 (3), Autosomal recessive
Immunodeficiency 52, 617514 (3), Autosomal recessive
Immunodeficiency 54, 609981 (3), Autosomal recessive
Immunodeficiency 55, 617827 (3), Autosomal recessive
Immunodeficiency 57, 618108 (3), Autosomal recessive
Immunodeficiency 58, 618131 (3), Autosomal recessive
Immunodeficiency 60, 618394 (3), Autosomal dominant
Immunodeficiency 63 with lymphoproliferation and autoimmunity, 618495 (3), Autosomal recessive
Immunodeficiency 64, 618534 (3)
Immunodeficiency 7, TCR-alpha/beta deficient, 615387 (3), Autosomal recessive
NULL
NULL
Immunodeficiency 8, 615401 (3), Autosomal recessive
NULL
Immunodeficiency 9, 612782 (3), Autosomal recessive; Myopathy, tubular aggregate, 2, 615883 (3), Autos
NULL
Immunodeficiency due to defect in MAPBP-interacting protein, 610798 (3), Autosomal recessive
Immunodeficiency due to ficolin 3 deficiency, 613860 (3), Autosomal recessive
Immunodeficiency due to purine nucleoside phosphorylase deficiency, 613179 (3), Autosomal recessive
Immunodeficiency with hyper IgM, type 5, 608106 (3), Autosomal recessive
Immunodeficiency with hyper-IgM, type 2, 605258 (3), Autosomal recessive
Immunodeficiency with hyper-IgM, type 3, 606843 (3), Autosomal recessive
Immunodeficiency-centromeric instability-facial anomalies syndrome 1, 242860 (3), Autosomal recessive
Immunodeficiency-centromeric instability-facial anomalies syndrome 2, 614069 (3), Autosomal recessive
Immunodeficiency-centromeric instability-facial anomalies syndrome 3, 616910 (3), Autosomal recessive
Immunodeficiency-centromeric instability-facial anomalies syndrome 4, 616911 (3), Autosomal recessive
Immunodeficiency, common variable, 1, 607594 (3), Autosomal recessive
Immunodeficiency, common variable, 10, 615577 (3), Autosomal dominant
Immunodeficiency, common variable, 12, 616576 (3), Autosomal dominant
Immunodeficiency, common variable, 13, 616873 (3), Autosomal dominant
Immunodeficiency, common variable, 2, 240500 (3), Autosomal recessive, Autosomal dominant; Immunog
Immunodeficiency, common variable, 3, 613493 (3), Autosomal recessive
Immunodeficiency, common variable, 4, 613494 (3), Autosomal recessive
Immunodeficiency, common variable, 5, 613495 (3), Autosomal recessive
Immunodeficiency, common variable, 6, 613496 (3), Autosomal recessive
Immunodeficiency, common variable, 7, 614699 (3), Autosomal recessive; {Systemic lupus erythematosus

Immunodeficiency, common variable, 8, with autoimmunity, 614700 (3), Autosomal recessive
 Immunodeficiency, developmental delay, and hypohomocysteinemia, 617744 (3), Autosomal dominant
 Immunodeficiency, X-linked, with hyper-IgM, 308230 (3), X-linked recessive
 Immunodysregulation, polyendocrinopathy, and enteropathy, X-linked, 304790 (3), X-linked recessive
 Immunoskeletal dysplasia with neurodevelopmental abnormalities, 617425 (3), Autosomal recessive
 Infantile cerebellar-retinal degeneration, 614559 (3), Autosomal recessive; ?Optic atrophy 9, 616289 (3), A
 Infantile liver failure syndrome 2, 616483 (3), Autosomal recessive; Short stature, optic nerve atrophy, and
 Infections, recurrent, with encephalopathy, hepatic dysfunction, and cardiovascular malformations, 613759
 {Hepatitis B virus, susceptibility to}, 610424 (3); Inflammatory bowel disease 25, early onset, autosomal re
 Inflammatory bowel disease 28, early onset, autosomal recessive, 613148 (3), Autosomal recessive
 Insensitivity to pain, congenital, with anhidrosis, 256800 (3), Autosomal recessive; Medullary thyroid carcin
 Carotid intimal medial thickness 1, 609338 (3); {Diabetes, type 2}, 125853 (3), Autosomal dominant; Insulin
 {Gastric cancer risk after H. pylori infection}, 137215 (3), Autosomal dominant; Interleukin 1 receptor antag
 Interstitial lung disease, nephrotic syndrome, and epidermolysis bullosa, congenital, 614748 (3), Autosoma
 Interstitial nephritis, karyomegalic, 614817 (3), Autosomal recessive
 Intrinsic factor deficiency, 261000 (3), Autosomal recessive
 IRAK4 deficiency, 607676 (3); Invasive pneumococcal disease, recurrent isolated, 1, 610799 (3)
 Iron-refractory iron deficiency anemia, 206200 (3), Autosomal recessive
 Isovaleric acidemia, 243500 (3), Autosomal recessive
 Jawad syndrome, 251255 (3), Autosomal recessive; Pancreatic carcinoma, somatic (3); Seckel syndrome
 Atrial fibrillation, familial, 3, 607554 (3), Autosomal dominant; Jervell and Lange-Nielsen syndrome, 22040
 Johanson-Blizzard syndrome, 243800 (3), Autosomal recessive
 Joubert syndrome 1, 213300 (3), Autosomal recessive; Mental retardation, truncal obesity, retinal dystroph
 Joubert syndrome 10, 300804 (3), X-linked recessive; Orofaciodigital syndrome I, 311200 (3), X-linked dom
 Joubert syndrome 17, 614615 (3), Autosomal recessive; Orofaciodigital syndrome VI, 277170 (3), Autosom
 Joubert syndrome 18, 614815 (3), Autosomal recessive; Orofaciodigital syndrome IV, 258860 (3), Autosom
 Joubert syndrome 2, 608091 (3), Autosomal recessive; Meckel syndrome 2, 603194 (3), Autosomal recess
 Joubert syndrome 20, 614970 (3), Autosomal recessive; Meckel syndrome 11, 615397 (3), Autosomal rec
 Joubert syndrome 21, 615636 (3), Autosomal recessive
 Joubert syndrome 23, 616490 (3), Autosomal recessive; Short-rib thoracic dysplasia 14 with polydactyly, 6
 Joubert syndrome 26, 616784 (3), Autosomal recessive
 Bardet-Biedl syndrome 13, 615990 (3), Autosomal recessive; Joubert syndrome 28, 617121 (3), Autosoma
 Joubert syndrome 3, 608629 (3), Autosomal recessive
 Joubert syndrome 35, 618161 (3), Autosomal recessive; Retinitis pigmentosa 83, 618173 (3), Autosomal c
 NULL
 Juvenile polyposis/hereditary hemorrhagic telangiectasia syndrome, 175050 (3), Autosomal dominant; My
 Kabuki syndrome 1, 147920 (3), Autosomal dominant
 Kabuki syndrome 2, 300867 (3), X-linked dominant
 Kanzaki disease, 609242 (3), Autosomal recessive; Schindler disease, type I, 609241 (3), Autosomal rece
 Kappa light chain deficiency, 614102 (3), Autosomal recessive
 Kaufman oculocerebrofacial syndrome, 244450 (3), Autosomal recessive
 KBG syndrome, 148050 (3), Autosomal dominant
 Keipert syndrome, 301026 (3), X-linked recessive
 Keppen-Lubinsky syndrome, 614098 (3), Autosomal dominant
 Bart-Pumphrey syndrome, 149200 (3), Autosomal dominant; Deafness, autosomal dominant 3A, 601544 (

NULL

Keratoderma, palmoplantar, punctate type IA, 148600 (3), Autosomal dominant

Keratolytic winter erythema, 148370 (4), Autosomal dominant

Keratosis linearis with ichthyosis congenita and sclerosing keratoderma, 601952 (3), Autosomal recessive

Keutel syndrome, 245150 (3), Autosomal recessive

Khan-Khan-Katsanis syndrome, 618460 (3), Autosomal recessive

Kindler syndrome, 173650 (3), Autosomal recessive

Kleefstra syndrome 1, 610253 (3), Autosomal dominant

Knobloch syndrome, type 1, 267750 (3), Autosomal recessive

Koolen-De Vries syndrome, 610443 (3), Autosomal dominant

Basal ganglia calcification, idiopathic, 4, 615007 (3), Autosomal dominant; Kosaki overgrowth syndrome, 6

Krabbe disease, 245200 (3), Autosomal recessive

L-2-hydroxyglutaric aciduria, 236792 (3), Autosomal recessive

Lathosterolosis, 607330 (3), Autosomal recessive

Legius syndrome, 611431 (3), Autosomal dominant

Cardiomyopathy, dilated, 1GG, 613642 (3); Leigh syndrome, 256000 (3), Autosomal recessive, Mitochond

Lenz-Majewski hyperostotic dwarfism, 151050 (3), Autosomal dominant

LEOPARD syndrome 1, 151100 (3), Autosomal dominant; Leukemia, juvenile myelomonocytic, somatic, 6

Cardiomyopathy, dilated, 1NN, 615916 (3), Autosomal dominant; LEOPARD syndrome 2, 611554 (3); Noc

Diabetes mellitus, insulin-resistant, with acanthosis nigricans, 610549 (3); Hyperinsulinemic hypoglycemia

Leukocyte adhesion deficiency, 116920 (3), Autosomal recessive

Leukocyte adhesion deficiency, type III, 612840 (3), Autosomal recessive

Leukodystrophy, hypomyelinating, 7, with or without oligodontia and/or hypogonadotropic hypogonadism, 1

LIG4 syndrome, 606593 (3), Autosomal recessive; {Multiple myeloma, resistance to}, 254500 (3), Somatic

Linear skin defects with multiple congenital anomalies 1, 309801 (3), X-linked dominant

Linear skin defects with multiple congenital anomalies 2, 300887 (3), X-linked dominant

Linear skin defects with multiple congenital anomalies 3, 300952 (3), X-linked dominant; ?Mitochondrial co

Lipodystrophy, congenital generalized, type 1, 608594 (3), Autosomal recessive

Encephalopathy, progressive, with or without lipodystrophy, 615924 (3), Autosomal recessive; Lipodystrop

Lipodystrophy, congenital generalized, type 4, 613327 (3), Autosomal recessive

Lipodystrophy, familial partial, type 4, 613877 (3), Autosomal dominant

Lipodystrophy, familial partial, type 6, 615980 (3), Autosomal recessive

Lipoid adrenal hyperplasia, 201710 (3), Autosomal recessive

{Deafness, mitochondrial, modifier of}, 580000 (3), Mitochondrial; Liver failure, transient infantile, 613070 (

Loeys-Dietz syndrome 1, 609192 (3), Autosomal dominant; {Multiple self-healing squamous epithelioma, s

Colorectal cancer, hereditary nonpolyposis, type 6, 614331 (3); Esophageal cancer, somatic, 133239 (3); L

Loeys-Dietz syndrome 3, 613795 (3), Autosomal dominant

Loeys-Dietz syndrome 4, 614816 (3), Autosomal dominant

Arrhythmogenic right ventricular dysplasia 1, 107970 (3), Autosomal dominant; Loeys-Dietz syndrome 5, 6

Lujan-Fryns syndrome, 309520 (3), X-linked recessive; Ohdo syndrome, X-linked, 300895 (3), X-linked rec

Lung disease, immunodeficiency, and chromosome breakage syndrome, 617241 (3), Autosomal recessive

Luscan-Lumish syndrome, 616831 (3), Autosomal dominant

Leydig cell adenoma, somatic, with precocious puberty, 176410 (3); Leydig cell hypoplasia with hypergona

Hemangioma, capillary infantile, somatic, 602089 (3); Lymphatic malformation 1, 153100 (3), Autosomal d

Leukodystrophy, hypomyelinating, 2, 608804 (3), Autosomal recessive; Lymphatic malformation 3, 613480

Lymphatic malformation 4, 615907 (3), Autosomal dominant
 Lymphedema-distichiasis syndrome, 153400 (3), Autosomal dominant; Lymphedema-distichiasis syndrome
 Lymphoproliferative syndrome 1, 613011 (3), Autosomal recessive
 Lymphoproliferative syndrome 2, 615122 (3), Autosomal recessive
 Lymphoproliferative syndrome 3, 618261 (3), Autosomal recessive
 Lymphoproliferative syndrome, X-linked, 1, 308240 (3), X-linked recessive
 Lymphoproliferative syndrome, X-linked, 2, 300635 (3), X-linked recessive
 Lysinuric protein intolerance, 222700 (3), Autosomal recessive
 Lysyl hydroxylase 3 deficiency, 612394 (3), Autosomal recessive
 Macrocephaly, alopecia, cutis laxa, and scoliosis, 613075 (3), Autosomal recessive
 Deafness, autosomal dominant 17, 603622 (3), Autosomal dominant; Macrothrombocytopenia and granulocytopenia
 Majeed syndrome, 609628 (3)
 {Colorectal cancer, susceptibility to, 10}, 612591 (3), Autosomal dominant; Mandibular hypoplasia, deafness, and progeria
 Mandibuloacral dysplasia with type B lipodystrophy, 608612 (3), Autosomal recessive; Restrictive dermopathy
 Mandibulofacial dysostosis with alopecia, 616367 (3), Autosomal dominant; {Migraine, resistance to}, 157300 (3)
 Mandibulofacial dysostosis, Guion-Almeida type, 610536 (3), Autosomal dominant
 Mannosidosis, alpha-, types I and II, 248500 (3), Autosomal recessive
 Mannosidosis, beta, 248510 (3), Autosomal recessive
 Maple syrup urine disease, type Ia, 248600 (3), Autosomal recessive
 Maple syrup urine disease, type Ib, 248600 (3), Autosomal recessive
 Maple syrup urine disease, type II, 248600 (3), Autosomal recessive
 Marshall-Smith syndrome, 602535 (3), Autosomal dominant; Sotos syndrome 2, 614753 (3), Autosomal dominant
 Martsolf syndrome, 212720 (3), Autosomal recessive; Warburg micro syndrome 2, 614225 (3), Autosomal dominant
 MASP2 deficiency, 613791 (3), Autosomal recessive
 McLeod syndrome with or without chronic granulomatous disease, 300842 (3), X-linked
 Meckel syndrome 7, 267010 (3), Autosomal recessive; Nephronophthisis 3, 604387 (3), Autosomal recessive
 MEDNIK syndrome, 609313 (3), Autosomal recessive
 Megalencephaly-polymicrogyria-polydactyly-hydrocephalus syndrome 2, 615937 (3), Autosomal dominant
 Meier-Gorlin syndrome 1, 224690 (3), Autosomal recessive
 Meier-Gorlin syndrome 3, 613803 (3), Autosomal recessive
 Meier-Gorlin syndrome 6, 616835 (3), Autosomal dominant
 Colorectal cancer, somatic, 114500 (3); Epidermal nevus, somatic, 162900 (3); Melanocytic nevus syndrome
 Melanoma, malignant, somatic (3); Pancreatic cancer, somatic, 260350 (3); Peutz-Jeghers syndrome, 175200 (3)
 Meleda disease, 248300 (3), Autosomal recessive
 Menkes disease, 309400 (3), X-linked recessive; Occipital horn syndrome, 304150 (3), X-linked recessive
 Mental retardation, X-linked, syndromic, Claes-Jensen type, 300534 (3), X-linked recessive
 Mental retardation, X-linked, with isolated growth hormone deficiency, 300123 (3); Panhypopituitarism, X-linked
 Methemoglobinemia and ambiguous genitalia, 250790 (3), Autosomal recessive
 Methylmalonic aciduria and homocystinuria, cblC type, 277400 (3), Autosomal recessive
 Methylmalonic aciduria and homocystinuria, cblC type, digenic, 277400 (3), Autosomal recessive
 Methylmalonic aciduria and homocystinuria, cblF type, 277380 (3), Autosomal recessive
 Methylmalonic aciduria and homocystinuria, cblJ type, 614857 (3), Autosomal recessive
 Methylmalonic aciduria, mut(0) type, 251000 (3), Autosomal recessive
 Methylmalonic aciduria, vitamin B12-responsive, 251100 (3), Autosomal recessive
 Methylmalonic aciduria, vitamin B12-responsive, due to defect in synthesis of adenosylcobalamin, cblB co

Microcephalic osteodysplastic primordial dwarfism, type I, 210710 (3), Autosomal recessive; Roifman syndrome, 210710 (3), Autosomal recessive
 Microcephalic osteodysplastic primordial dwarfism, type II, 210720 (3), Autosomal recessive
 Microcephaly with or without chorioretinopathy, lymphedema, or mental retardation, 152950 (3), Autosomal recessive
 Microcephaly, congenital cataract, and psoriasiform dermatitis, 616834 (3), Autosomal recessive
 Microcephaly, epilepsy, and diabetes syndrome, 614231 (3), Autosomal recessive
 Bestrophinopathy, autosomal recessive, 611809 (3); Macular dystrophy, vitelliform, 2, 153700 (3), Autosomal recessive
 Microvillus inclusion disease, 251850 (3), Autosomal recessive
 Miller syndrome, 263750 (3), Autosomal recessive
 MIRAGE syndrome, 617053 (3), Autosomal dominant; Tumoral calcinosis, familial, normophosphatemic, 617053 (3), Autosomal dominant
 Colorectal cancer, hereditary nonpolyposis, type 2, 609310 (3); Mismatch repair cancer syndrome, 276300 (3), Autosomal dominant
 Colorectal cancer, hereditary nonpolyposis, type 1, 120435 (3), Autosomal dominant; Mismatch repair cancer syndrome, 276300 (3), Autosomal dominant
 Colorectal cancer, hereditary nonpolyposis, type 5, 614350 (3), Autosomal dominant; {Endometrial cancer, hereditary nonpolyposis, type 5, 614350 (3), Autosomal dominant
 Colorectal cancer, hereditary nonpolyposis, type 4, 614337 (3); Mismatch repair cancer syndrome, 276300 (3), Autosomal dominant
 Mitochondrial complex I deficiency, nuclear type 6, 618228 (3), Autosomal recessive
 Mitochondrial complex I deficiency, nuclear type 8, 618230 (3), Autosomal recessive
 Mitochondrial complex II deficiency, 252011 (3), Autosomal recessive; Paraganglioma and gastric stromal tumor, 252011 (3), Autosomal recessive
 Mitochondrial complex V (ATP synthase) deficiency, nuclear type 2, 614052 (3), Autosomal recessive
 Mitochondrial DNA depletion syndrome 11, 615084 (3), Autosomal recessive
 Mitochondrial DNA depletion syndrome 13 (encephalomyopathic type), 615471 (3), Autosomal recessive
 Mitochondrial DNA depletion syndrome 16 (hepatic type), 618528 (3), Autosomal recessive; Progressive external ophthalmoplegia, 618528 (3), Autosomal recessive
 Mitochondrial DNA depletion syndrome 3 (hepatocerebral type), 251880 (3), Autosomal recessive; Portal hypertension, 251880 (3), Autosomal recessive
 Mitochondrial DNA depletion syndrome 4A (Alpers type), 203700 (3), Autosomal recessive; Mitochondrial DNA depletion syndrome 4A (Alpers type), 203700 (3), Autosomal recessive
 Charcot-Marie-Tooth disease, axonal, type 2EE, 618400 (3), Autosomal recessive; Mitochondrial DNA depletion syndrome 4A (Alpers type), 203700 (3), Autosomal recessive
 Mitochondrial myopathy, episodic, with optic atrophy and reversible leukoencephalopathy, 251900 (3), Autosomal recessive
 Mitral valve prolapse 2, 607829 (3), Autosomal dominant; Van Maldergem syndrome 1, 601390 (3), Autosomal dominant
 Mohr-Tranebjaerg syndrome, 304700 (3), X-linked recessive
 Molybdenum cofactor deficiency C, 615501 (3), Autosomal recessive
 Monilethrix, 158000 (3), Autosomal dominant
 Monilethrix, 158000 (3), Autosomal dominant
 Mowat-Wilson syndrome, 235730 (3), Autosomal dominant
 Moyamoya 6 with achalasia, 615750 (3), Autosomal recessive
 Aortic aneurysm, familial thoracic 6, 611788 (3), Autosomal dominant; Moyamoya disease 5, 614042 (3), Autosomal dominant
 Mucopolipidosis II alpha/beta, 252500 (3), Autosomal recessive; Mucopolipidosis III alpha/beta, 252600 (3), Autosomal recessive
 Mucopolipidosis IV, 252650 (3), Autosomal recessive
 Mucopolysaccharidosis Ih, 607014 (3), Autosomal recessive; Mucopolysaccharidosis Ih/s, 607015 (3), Autosomal recessive
 Mucopolysaccharidosis II, 309900 (3), X-linked recessive
 Mucopolysaccharidosis IVA, 253000 (3), Autosomal recessive
 Mucopolysaccharidosis type IIIA (Sanfilippo A), 252900 (3), Autosomal recessive
 ?Charcot-Marie-Tooth disease, axonal, type 2V, 616491 (3), Autosomal dominant; Mucopolysaccharidosis type IIIA (Sanfilippo A), 252900 (3), Autosomal recessive
 Mucopolysaccharidosis type IIIC (Sanfilippo C), 252930 (3), Autosomal recessive; Retinitis pigmentosa 73, 252930 (3), Autosomal recessive
 Mucopolysaccharidosis type IIID, 252940 (3), Autosomal recessive
 Mucopolysaccharidosis type VI (Maroteaux-Lamy), 253200 (3), Autosomal recessive
 Mucopolysaccharidosis VII, 253220 (3), Autosomal recessive
 Mucopolysaccharidosis-plus syndrome, 617303 (3), Autosomal recessive
 Mulibrey nanism, 253250 (3), Autosomal recessive

Multicentric osteolysis, nodulosis, and arthropathy, 259600 (3), Autosomal recessive
 Multiple congenital anomalies-hypotonia-seizures syndrome 1, 614080 (3), Autosomal recessive
 Multiple congenital anomalies-hypotonia-seizures syndrome 2, 300868 (3), X-linked recessive; Paroxysmal
 Multiple congenital anomalies-hypotonia-seizures syndrome 3, 615398 (3), Autosomal recessive; ?Paroxysmal
 Adrenal adenoma, somatic (3); Angiofibroma, somatic (3); Carcinoid tumor of lung (3); Lipoma, somatic (3)
 Central hypoventilation syndrome, congenital, 209880 (3), Autosomal dominant; {Hirschsprung disease, pr
 Multiple endocrine neoplasia, type IV, 610755 (3), Autosomal dominant
 Multiple joint dislocations, short stature, craniofacial dysmorphism, with or without congenital heart defects
 Multiple pterygium syndrome, lethal type, 253290 (3), Autosomal recessive; Myasthenic syndrome, conge
 Multiple pterygium syndrome, lethal type, 253290 (3), Autosomal recessive; ?Myasthenic syndrome, conge
 Multiple sulfatase deficiency, 272200 (3), Autosomal recessive
 Brachydactyly, type B2, 611377 (3), Autosomal dominant; Multiple synostoses syndrome 1, 186500 (3), A
 Multiple synostoses syndrome 3, 612961 (3), Autosomal dominant
 Myasthenic syndrome, congenital, 8, with pre- and postsynaptic defects, 615120 (3), Autosomal recessive
 Myelokathexis, isolated (3); WHIM syndrome, 193670 (3), Autosomal dominant
 {Alzheimer disease, susceptibility to}, 104300 (3), Autosomal dominant; {Lung cancer, protection against, i
 {Amyotrophic lateral sclerosis, susceptibility to, 25}, 617921 (3), Autosomal dominant; Myoclonus, intracta
 Epileptic encephalopathy, early infantile, 7, 613720 (3), Autosomal dominant; Myokymia, 121200 (3), Auto
 Cardiomyopathy, dilated, 1HH, 613881 (3), Autosomal dominant; Myopathy, myofibrillar, 6, 612954 (3), Au
 Nail disorder, nonsyndromic congenital, 3, (leukonychia), 151600 (3), Autosomal recessive, Autosomal do
 Nail-patella syndrome, 161200 (3), Autosomal dominant
 Microphthalmia, isolated 5, 611040 (3), Autosomal recessive; Nanophthalmos 2, 609549 (3)
 Arrhythmogenic right ventricular dysplasia 12, 611528 (3), Autosomal dominant; Naxos disease, 601214 (3)
 [Blood group, Raph], 179620 (3); Nephropathy with pretibial epidermolysis bullosa and deafness, 609057 (3)
 Nestor-Guillermo progeria syndrome, 614008 (3), Autosomal recessive
 Netherton syndrome, 256500 (3), Autosomal recessive
 Neu-Laxova syndrome 1, 256520 (3), Autosomal recessive; Phosphoglycerate dehydrogenase deficiency,
 Leukemia, juvenile myelomonocytic, 607785 (3), Autosomal dominant, Somatic mutation; Neurofibromatosis
 Meningioma, NF2-related, somatic, 607174 (3); Neurofibromatosis, type 2, 101000 (3), Autosomal domina
 Neutral lipid storage disease with myopathy, 610717 (3), Autosomal recessive
 Neutropenia, cyclic, 162800 (3), Autosomal dominant; Neutropenia, severe congenital 1, autosomal domin
 Neutropenia, severe congenital 3, autosomal recessive, 610738 (3), Autosomal recessive
 Neutropenia, severe congenital, 5, autosomal recessive, 615285 (3), Autosomal recessive
 Neutropenia, severe congenital, 6, autosomal recessive, 616022 (3), Autosomal recessive
 Neutropenia, severe congenital, 7, autosomal recessive, 617014 (3), Autosomal recessive
 NULL
 Neutropenia, severe congenital, X-linked, 300299 (3), X-linked recessive; Thrombocytopenia, X-linked, 31
 Neutrophil immunodeficiency syndrome, 608203 (3)
 Nicolaides-Baraitser syndrome, 601358 (3), Autosomal dominant
 Niemann-Pick disease, type A, 257200 (3), Autosomal recessive; Niemann-Pick disease, type B, 607616 (3)
 Niemann-Pick disease, type C1, 257220 (3), Autosomal recessive; Niemann-Pick disease, type D, 257220 (3)
 Niemann-pick disease, type C2, 607625 (3), Autosomal recessive
 Nijmegen breakage syndrome-like disorder, 613078 (3)
 Noonan syndrome 10, 616564 (3), Autosomal dominant; Noonan syndrome 2, 605275 (3), Autosomal rece
 Noonan syndrome 11, 618499 (3), Autosomal dominant

NULL

Noonan syndrome 8, 615355 (3), Autosomal dominant

Noonan syndrome 9, 616559 (3), Autosomal dominant

Noonan syndrome-like disorder with loose anagen hair 2, 617506 (3), Autosomal dominant

?Juvenile myelomonocytic leukemia, 607785 (3), Autosomal dominant, Somatic mutation; Noonan syndrome

Noonan-like syndrome with loose anagen hair, 607721 (3), Autosomal dominant

Exudative vitreoretinopathy 2, X-linked, 305390 (3); Norrie disease, 310600 (3), X-linked recessive

O'Donnell-Luria-Rodan syndrome, 618512 (3), Autosomal recessive

Obesity, adrenal insufficiency, and red hair due to POMC deficiency, 609734 (3), Autosomal recessive; {O

Oculoskeletodental syndrome, 618440 (3), Autosomal recessive

Odontoonychodermal dysplasia, 257980 (3), Autosomal recessive; Schopf-Schulz-Passarge syndrome, 22

?Microphthalmia, syndromic 1, 309800 (3), X-linked; Ogden syndrome, 300855 (3), X-linked recessive, X-

Omenn syndrome, 603554 (3), Autosomal recessive; Severe combined immunodeficiency, Athabaskan type

Omodysplasia 1, 258315 (3), Autosomal recessive

Omodysplasia 2, 164745 (3), Autosomal dominant

Opsismodysplasia, 258480 (3), Autosomal recessive

Optic atrophy 7, 612989 (3), Autosomal recessive

Microphthalmia, syndromic 3, 206900 (3), Autosomal dominant; Optic nerve hypoplasia and abnormalities

Ornithine transcarbamylase deficiency, 311250 (3), X-linked recessive

Orotic aciduria, 258900 (3), Autosomal recessive

ACTH-independent macronodular adrenal hyperplasia, 219080 (3), Somatic mutation; McCune-Albright sy

Achondrogenesis, type IA, 200600 (3), Autosomal recessive; Osteochondrodysplasia, 184260 (3), Autosom

Osteogenesis imperfecta, type XVII, 616507 (3), Autosomal recessive

Osteolysis, familial expansile, 174810 (3), Autosomal dominant; Osteopetrosis, autosomal recessive 7, 61

Pachyonychia congenita 1, 167200 (3), Autosomal dominant; Palmoplantar keratoderma, nonepidermolytic

Pachyonychia congenita 2, 167210 (3), Autosomal dominant; Steatocystoma multiplex, 184500 (3), Autosom

Pachyonychia congenita 3, 615726 (3)

Pachyonychia congenita 4, 615728 (3)

Paget disease of bone 5, juvenile-onset, 239000 (3), Autosomal recessive

Palmoplantar hyperkeratosis and true hermaphroditism, 610644 (3), Autosomal recessive; Palmoplantar h

Nephrotic syndrome, type 16, 617783 (3), Autosomal recessive; Palmoplantar keratoderma and woolly ha

Palmoplantar keratoderma, Bothnian type, 600231 (3), Autosomal dominant

Palmoplantar keratoderma, epidermolytic, 144200 (3), Autosomal dominant

Palmoplantar keratoderma, Nagashima type, 615598 (3), Autosomal recessive

Palmoplantar keratoderma, nonepidermolytic, focal or diffuse, 615735 (3), Autosomal dominant

Pancreatitis, hereditary, 167800 (3), Autosomal dominant; Trypsinogen deficiency, 614044 (1), Autosomal

{Fibrocalculous pancreatic diabetes, susceptibility to}, 608189 (3), Autosomal recessive, Autosomal domin

Paragangliomas 2, 601650 (3), Autosomal dominant

Paragangliomas 6, 618464 (3), Autosomal dominant

Paragangliomas 7, 618475 (3), Autosomal dominant

Craniosynostosis 2, 604757 (3), Autosomal dominant; Parietal foramina 1, 168500 (3), Autosomal dominan

PCWH syndrome, 609136 (3), Autosomal dominant; Waardenburg syndrome, type 2E, with or without neu

Peeling skin syndrome 2, 609796 (3), Autosomal recessive

Peeling skin syndrome 4, 607936 (3), Autosomal recessive

Peeling skin syndrome 5, 617115 (3), Autosomal recessive

Peeling skin syndrome 6, 618084 (3), Autosomal recessive
 Peeling skin with leukonychia, acral punctate keratoses, cheilitis, and knuckle pads, 616295 (3), Autosomal recessive
 PEHO syndrome, 260565 (3), Autosomal recessive
 Pelizaeus-Merzbacher disease, 312080 (3), X-linked recessive; Spastic paraplegia 2, X-linked, 312920 (3), Autosomal recessive
 Deafness, autosomal recessive 4, with enlarged vestibular aqueduct, 600791 (3), Autosomal recessive; {Multiple sclerosis, susceptibility to, 5}, 614810 (3); Periodic fever, familial, 142680 (3), Autosomal dominant
 NULL
 Periventricular nodular heterotopia 7, 617201 (3), Autosomal dominant
 Perlman syndrome, 267000 (3), Autosomal recessive
 Peroxisome biogenesis disorder 11A (Zellweger), 614883 (3), Autosomal recessive; Peroxisome biogenesis disorder 12A (Zellweger), 614886 (3), Autosomal recessive
 Peroxisome biogenesis disorder 13A (Zellweger), 614887 (3), Autosomal recessive
 Peroxisome biogenesis disorder 2A (Zellweger), 214110 (3), Autosomal recessive; Peroxisome biogenesis disorder 3A (Zellweger), 614859 (3), Autosomal recessive; Peroxisome biogenesis disorder 5A (Zellweger), 614866 (3), Autosomal recessive; Peroxisome biogenesis disorder 6A (Zellweger), 614870 (3), Autosomal recessive; Peroxisome biogenesis disorder 7A (Zellweger), 614872 (3), Autosomal recessive; Peroxisome biogenesis disorder 8A (Zellweger), 614876 (3), Autosomal recessive; Peroxisome biogenesis disorder 9B, 614879 (3), Autosomal recessive; Rhizomelic chondrodysplasia punctata 1, 614880 (3), Autosomal recessive
 Persistent hyperplastic primary vitreous, autosomal recessive, 221900 (3), Autosomal recessive
 Phelan-McDermid syndrome, 606232 (3), Autosomal dominant; {Schizophrenia 15}, 613950 (3), Autosomal dominant
 Phosphoserine phosphatase deficiency, 614023 (3), Autosomal recessive
 Piebaldism, 172800 (3), Autosomal dominant; Waardenburg syndrome, type 2D, 608890 (3), Autosomal recessive
 Mental retardation, autosomal dominant 41, 616944 (3), Autosomal dominant; Pierpont syndrome, 602342 (3), Autosomal dominant
 Nephrotic syndrome, type 5, with or without ocular abnormalities, 614199 (3); Pierson syndrome, 609049 (3), Autosomal recessive
 Pigmentary disorder, reticulate, with systemic manifestations, X-linked, 301220 (3), X-linked recessive; Van der Woude disease, 614199 (3), Autosomal recessive
 Acrodysostosis 1, with or without hormone resistance, 101800 (3), Autosomal dominant; Adrenocortical tumor, 614199 (3), Autosomal dominant
 Pigmented nodular adrenocortical disease, primary, 2, 610475 (3), Autosomal dominant
 Pigmented nodular adrenocortical disease, primary, 3, 614190 (3); Striatal degeneration, autosomal dominant 1, 614190 (3), Autosomal dominant
 Pilarowski-Bjornsson syndrome, 617682 (3), Autosomal dominant
 Pitt-Hopkins-like syndrome 2, 614325 (3), Autosomal recessive; {Schizophrenia, susceptibility to, 17}, 614325 (3), Autosomal recessive
 Pituitary hormone deficiency, combined, 1, 613038 (3), Autosomal recessive, Autosomal dominant
 Pituitary hormone deficiency, combined, 2, 262600 (3), Autosomal recessive
 Pituitary hormone deficiency, combined, 3, 221750 (3), Autosomal recessive
 Pituitary hormone deficiency, combined, 4, 262700 (3), Autosomal dominant
 Microphthalmia, syndromic 5, 610125 (3), Autosomal dominant; Pituitary hormone deficiency, combined, 6, 610125 (3), Autosomal dominant
 Pityriasis rubra pilaris, 173200 (3), Autosomal dominant; Psoriasis 2, 602723 (3), Autosomal dominant
 Platelet abnormalities with eosinophilia and immune-mediated inflammatory disease, 617718 (3), Autosomal dominant
 Leukemia, acute myeloid, 601626 (3), Autosomal dominant, Somatic mutation; Platelet disorder, familial, with thrombocytopenia, 601626 (3), Autosomal dominant
 {Asthma, susceptibility to}, 600807 (3), Autosomal dominant; {Atopy, susceptibility to}, 147050 (3), Autosomal dominant
 Poikiloderma with neutropenia, 604173 (3), Autosomal recessive
 Poikiloderma, hereditary fibrosing, with tendon contractures, myopathy, and pulmonary fibrosis, 615704 (3), Autosomal recessive
 Polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy 1, 221770 (3), Autosomal recessive
 Polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy 2, 618193 (3), Autosomal recessive
 Polyglucosan body myopathy 1 with or without immunodeficiency, 615895 (3), Autosomal recessive

{Orofacial cleft 6}, 608864 (3), Autosomal dominant; Popliteal pterygium syndrome 1, 119500 (3), Autosomal dominant
 Porokeratosis 1, multiple types, 175800 (3), Autosomal dominant
 Porokeratosis 7, multiple types, 614714 (3), Autosomal dominant
 Porokeratosis 8, disseminated superficial actinic type, 616063 (3), Autosomal dominant
 Porokeratosis 9, multiple types, 616631 (3), Autosomal dominant
 Porphyria cutanea tarda, 176100 (3), Autosomal recessive, Autosomal dominant; Porphyria, hepatoerythropoietic, 104200 (3), Autosomal recessive
 Porphyria variegata, 176200 (3), Autosomal dominant
 Porphyria, congenital erythropoietic, 263700 (3), Autosomal recessive
 Amyotrophic lateral sclerosis 2, juvenile, 205100 (3), Autosomal recessive; Primary lateral sclerosis, juvenile, 205100 (3), Autosomal recessive
 Prolidase deficiency, 170100 (3), Autosomal recessive
 Properdin deficiency, X-linked, 312060 (3), X-linked recessive
 Propionicacidemia, 606054 (3), Autosomal recessive
 Propionicacidemia, 606054 (3), Autosomal recessive
 Proteasome-associated autoinflammatory syndrome 1 and digenic forms, 256040 (3), Autosomal recessive
 Protoporphyrria, erythropoietic, 1, 177000 (3), Autosomal recessive
 Pseudo-TORCH syndrome 1, 251290 (3), Autosomal recessive
 Pseudo-TORCH syndrome 2, 617397 (3), Autosomal recessive
 Neuropathy, hereditary sensory and autonomic, type II, 201300 (3), Autosomal recessive; Pseudohypoaldosteronism, type I, 201300 (3), Autosomal recessive
 Pseudohypoparathyroidism, type IB, 603233 (3), Autosomal dominant
 Pseudoxanthoma elasticum-like disorder with multiple coagulation factor deficiency, 610842 (3); Vitamin K-dependent factor deficiency, 610842 (3), Autosomal recessive
 Psoriasis 14, pustular, 614204 (3), Autosomal recessive
 Pulmonary fibrosis, idiopathic, 178500 (3), Autosomal dominant
 Pycnodysostosis, 265800 (3), Autosomal recessive
 Macroglobulinemia, Waldenstrom, somatic, 153600 (3); Pyogenic bacterial infections, recurrent, due to Mycobacterium, 604416 (3), Autosomal dominant
 Pyogenic sterile arthritis, pyoderma gangrenosum, and acne, 604416 (3), Autosomal dominant
 Rahman syndrome, 617537 (3), Autosomal dominant
 Refsum disease, 266500 (3), Autosomal recessive
 Reticular dysgenesis, 267500 (3), Autosomal recessive
 {Alzheimer disease 18, susceptibility to}, 615590 (3); Reticulate acropigmentation of Kitamura, 615537 (3), Autosomal recessive
 Microphthalmia, isolated, with coloboma 10, 616428 (3), Autosomal dominant; Retinal dystrophy, iris coloboma, 616428 (3), Autosomal dominant
 Retinitis pigmentosa with or without skeletal anomalies, 250410 (3), Autosomal recessive
 RIDDLE syndrome, 611943 (3), Autosomal recessive
 Congenital heart defects, multiple types, 6, 613854 (3), Autosomal dominant; Right atrial isomerism (Ivemark syndrome), 613854 (3), Autosomal dominant
 Ritscher-Schinzel syndrome 1, 220210 (3), Autosomal recessive; Spastic paraplegia 8, autosomal dominant, 220210 (3), Autosomal recessive
 Ritscher-Schinzel syndrome 2, 300963 (3), X-linked recessive
 Roberts syndrome, 268300 (3), Autosomal recessive; SC phocomelia syndrome, 269000 (3), Autosomal recessive
 Robinow syndrome, autosomal dominant 1, 180700 (3), Autosomal dominant
 Robinow syndrome, autosomal dominant 2, 616331 (3), Autosomal dominant
 Robinow syndrome, autosomal dominant 3, 616894 (3), Autosomal dominant
 Robinow syndrome, autosomal recessive 2, 618529 (3), Autosomal recessive
 Brachydactyly, type B1, 113000 (3), Autosomal dominant; Robinow syndrome, autosomal recessive, 268300 (3), Autosomal recessive
 Craniosynostosis 1, 123100 (3), Autosomal dominant; Robinow-Sorauf syndrome, 180750 (3), Autosomal dominant
 NULL
 Menke-Hennekam syndrome 1, 618332 (3); Rubinstein-Taybi syndrome 1, 180849 (3), Autosomal dominant
 Colorectal cancer, somatic, 114500 (3); Menke-Hennekam syndrome 2, 618333 (3); Rubinstein-Taybi syndrome 2, 180850 (3), Autosomal dominant

{Neural tube defects, susceptibility to}, 182940 (3), Autosomal dominant; Sacral agenesis with vertebral anomalies, 182940 (3), Autosomal dominant; NULL
 Sandhoff disease, infantile, juvenile, and adult forms, 268800 (3), Autosomal recessive
 Scalp-ear-nipple syndrome, 181270 (3), Autosomal dominant
 Schaaf-Yang syndrome, 615547 (3), Autosomal dominant
 Schimke immunoosseous dysplasia, 242900 (3), Autosomal recessive
 Mental retardation, autosomal dominant 29, 616078 (3), Autosomal dominant; Schinzel-Giedion midface retraction syndrome, 616078 (3), Autosomal dominant
 Schuurs-Hoeijmakers syndrome, 615009 (3), Autosomal dominant
 SCID, autosomal recessive, T-negative/B-positive type, 600802 (3), Autosomal recessive
 ?Deafness, autosomal recessive 66, 610212 (3), Autosomal recessive; Nephronophthisis 19, 616217 (3), Autosomal recessive
 Seborrhea-like dermatitis with psoriasiform elements, 610227 (3), Autosomal recessive
 Seckel syndrome 10, 617253 (3), Autosomal recessive
 Microcephaly 9, primary, autosomal recessive, 614852 (3), Autosomal recessive; Seckel syndrome 5, 613300 (3), Autosomal recessive
 Seckel syndrome 9, 616777 (3), Autosomal recessive
 Bardet-Biedl syndrome 16, 615993 (3), Autosomal recessive; Senior-Loken syndrome 7, 613615 (3), Autosomal recessive
 Adenosine deaminase deficiency, partial, 102700 (3), Autosomal recessive, Somatic mosaicism; Severe combined immunodeficiency with microcephaly, growth retardation, and sensitivity to ionizing radiation, 102700 (3), Autosomal recessive
 Severe combined immunodeficiency with microcephaly, growth retardation, and sensitivity to ionizing radiation, 102700 (3), Autosomal recessive
 {Hepatitis C virus, susceptibility to}, 609532 (3); Severe combined immunodeficiency, T cell-negative, B-cell positive type, 609532 (3), Autosomal recessive
 Severe combined immunodeficiency, T-cell negative, B-cell/natural killer cell-positive type, 608971 (3), Autosomal recessive
 Shashi-Pena syndrome, 617190 (3), Autosomal dominant
 Shprintzen-Goldberg syndrome, 182212 (3), Autosomal dominant
 Shwachman-Diamond syndrome 2, 617941 (3), Autosomal recessive
 {Aplastic anemia, susceptibility to}, 609135 (3); Shwachman-Diamond syndrome, 260400 (3), Autosomal recessive
 Salla disease, 604369 (3), Autosomal recessive; Sialic acid storage disorder, infantile, 269920 (3), Autosomal recessive
 Sialidosis, type I, 256550 (3), Autosomal recessive; Sialidosis, type II, 256550 (3), Autosomal recessive
 Nonaka myopathy, 605820 (3), Autosomal recessive; Sialuria, 269921 (3), Autosomal dominant
 Atrial fibrillation, familial, 10, 614022 (3), Autosomal dominant; Brugada syndrome 1, 601144 (3), Autosomal dominant
 Retinitis pigmentosa and erythrocytic microcytosis, 616959 (3), Autosomal recessive; Sideroblastic anemia, 616959 (3), Autosomal recessive
 Beckwith-Wiedemann syndrome, 130650 (3), Autosomal dominant; Silver-Russell syndrome, 180860 (3), Autosomal dominant
 Simpson-Golabi-Behmel syndrome, type 1, 312870 (3), X-linked recessive; Wilms tumor, somatic, 194070 (3), Autosomal dominant
 Singleton-Merten syndrome 2, 616298 (3), Autosomal dominant
 Sitosterolemia, 210250 (3), Autosomal recessive
 {Gallbladder disease 4}, 611465 (3); Sitosterolemia, 210250 (3), Autosomal recessive
 Sjogren-Larsson syndrome, 270200 (3), Autosomal recessive
 Leukemia, acute promyelocytic, PL2F/RARA type (3); Skeletal defects, genital hypoplasia, and mental retardation, 270200 (3), Autosomal recessive
 Skraban-Deardorff syndrome, 617616 (3), Autosomal dominant
 Focal cortical dysplasia, type II, somatic, 607341 (3); Smith-Kingsmore syndrome, 616638 (3), Autosomal dominant
 Smith-Lemli-Opitz syndrome, 270400 (3), Autosomal recessive
 Smith-Magenis syndrome, 182290 (3), Autosomal dominant, Isolated cases
 Leukemia, acute myeloid, 601626 (1), Autosomal dominant, Somatic mutation; Sotos syndrome 1, 117550 (3), Autosomal dominant
 Specific granule deficiency 2, 617475 (3), Autosomal recessive
 Specific granule deficiency, 245480 (3), Autosomal recessive
 Spherocytosis, type 1, 182900 (3), Autosomal recessive, Autosomal dominant
 Anemia, neonatal hemolytic, fatal or near-fatal, 617948 (3); Elliptocytosis-3, 617948 (3); Spherocytosis, type 1, 617948 (3), Autosomal dominant
 Split-hand/foot malformation 6, 225300 (3), Autosomal recessive; Tooth agenesis, selective, 8, 617073 (3), Autosomal dominant

Spondyloenchondrodysplasia with immune dysregulation, 607944 (3), Autosomal recessive
 Spondylometaphyseal dysplasia with cone-rod dystrophy, 608940 (3), Autosomal recessive
 Squamous cell carcinoma, head and neck, 275355 (3), Autosomal recessive
 Squamous cell carcinoma, head and neck, somatic, 275355 (3)
 Stankiewicz-Isidor syndrome, 617516 (3), Autosomal dominant
 STING-associated vasculopathy, infantile-onset, 615934 (3), Autosomal dominant
 Striatonigral degeneration, childhood-onset, 617054 (3), Autosomal recessive
 Stromme syndrome, 243605 (3), Autosomal recessive
 Capillary malformations, congenital, 1, somatic, mosaic, 163000 (3); Sturge-Weber syndrome, somatic, mo
 Stuve-Wiedemann syndrome/Schwartz-Jampel type 2 syndrome, 601559 (3), Autosomal recessive
 Lissencephaly 1, 607432 (3), Autosomal dominant; Subcortical laminar heterotopia, 607432 (3), Autosoma
 Sulfite oxidase deficiency, 272300 (3), Autosomal recessive
 Symmetric circumferential skin creases, congenital, 2, 616734 (3), Autosomal dominant
 Systemic lupus erythematosus 16, 614420 (3), Autosomal recessive
 T-cell immunodeficiency, congenital alopecia, and nail dystrophy, 601705 (3), Autosomal recessive
 T-cell immunodeficiency, recurrent infections, autoimmunity, and cardiac malformations, 614868 (3)
 T-cell lymphoma, subcutaneous panniculitis-like, 618398 (3), Autosomal recessive
 Takenouchi-Kosaki syndrome, 616737 (3), Autosomal dominant
 HDL deficiency, familial, 1, 604091 (3); Tangier disease, 205400 (3), Autosomal recessive
 TARP syndrome, 311900 (3), X-linked recessive
 Acute myeloid leukemia, somatic, 601626 (3); Tatton-Brown-Rahman syndrome, 615879 (3), Autosomal d
 Telangiectasia, hereditary hemorrhagic, type 1, 187300 (3), Autosomal dominant
 Telangiectasia, hereditary hemorrhagic, type 2, 600376 (3), Autosomal dominant
 Telangiectasia, hereditary hemorrhagic, type 5, 615506 (3), Autosomal dominant
 Temple-Baraitser syndrome, 611816 (3), Autosomal dominant; Zimmermann-Laband syndrome 1, 135500
 Tenorio syndrome, 616260 (3), Autosomal dominant
 Thauvin-Robinet-Faivre syndrome, 617107 (3), Autosomal recessive
 Thiamine-responsive megaloblastic anemia syndrome, 249270 (3), Autosomal recessive
 Thrombocythemia 1, 187950 (3), Autosomal dominant
 Thrombocytopenia 2, 188000 (3), Autosomal dominant
 Leukemia, acute myeloid, somatic, 601626 (3); Thrombocytopenia 5, 616216 (3), Autosomal dominant
 Thrombocytopenia-absent radius syndrome, 274000 (3), Autosomal recessive
 Myelofibrosis with myeloid metaplasia, somatic, 254450 (3); Thrombocythemia 2, 601977 (3), Autosomal c
 Thrombocytopenic purpura, autoimmune, 188030 (1), Autosomal dominant
 {Budd-Chiari syndrome}, 600880 (3), Autosomal recessive; Factor V deficiency, 227400 (3), Autosomal re
 Thrombophilia due to protein C deficiency, autosomal dominant, 176860 (3), Autosomal dominant; Thromb
 Thrombophilia due to protein S deficiency, autosomal dominant, 612336 (3), Autosomal dominant; Thromb
 Thrombotic thrombocytopenic purpura, familial, 274150 (3), Autosomal recessive
 Thyrotropin-releasing hormone deficiency, 275120 (1), Autosomal recessive
 Brugada syndrome 3, 611875 (3); Long QT syndrome 8, 618447 (3); Timothy syndrome, 601005 (3), Auto
 Townes-Brocks branchiootorenal-like syndrome, 107480 (3), Autosomal dominant; Townes-Brocks syndro
 Transaldolase deficiency, 606003 (3), Autosomal recessive
 Transcobalamin II deficiency, 275350 (3), Autosomal recessive
 Mental retardation and distinctive facial features with or without cardiac defects, 616789 (3), Autosomal do
 Treacher Collins syndrome 1, 154500 (3), Autosomal dominant

Treacher Collins syndrome 2, 613717 (3), Autosomal recessive, Autosomal dominant
 Leukodystrophy, hypomyelinating, 11, 616494 (3), Autosomal recessive; Treacher Collins syndrome 3, 24
 Trichohepatoenteric syndrome 1, 222470 (3), Autosomal recessive
 Trichohepatoenteric syndrome 2, 614602 (3), Autosomal recessive
 Trichohepatoneurodevelopmental syndrome, 618268 (3), Autosomal recessive
 Trichorhinophalangeal syndrome, type I, 190350 (3), Autosomal dominant; Trichorhinophalangeal syndrom
 Trichothiodystrophy 2, photosensitive, 616390 (3), Autosomal recessive; Xeroderma pigmentosum, group
 Trichothiodystrophy 3, photosensitive, 616395 (3)
 Trichothiodystrophy 4, nonphotosensitive, 234050 (3), Autosomal recessive
 Trichothiodystrophy 6, nonphotosensitive, 616943 (3), Autosomal recessive
 Trichothiodystrophy 7, nonphotosensitive, 618546 (3), Autosomal recessive
 Trimethylaminuria, 602079 (3), Autosomal recessive
 NULL
 Focal cortical dysplasia, type II, somatic, 607341 (3); Lymphangioleiomyomatosis, 606690 (3); Tuberous s
 ?Focal cortical dysplasia, type II, somatic, 607341 (3); Lymphangioleiomyomatosis, somatic, 606690 (3); T
 Tumor predisposition syndrome, 614327 (3), Autosomal dominant
 Tumoral calcinosis, hyperphosphatemic, familial, 1, 211900 (3), Autosomal recessive
 Turnpenny-Fry syndrome, 618371 (3), Autosomal dominant
 Tyrosinemia, type I, 276700 (3), Autosomal recessive
 Tyrosinemia, type II, 276600 (3), Autosomal recessive
 Urbach-Wiethe disease, 247100 (3), Autosomal recessive
 UV-sensitive syndrome 3, 614640 (3), Autosomal recessive
 Van der Woude syndrome 2, 606713 (3), Autosomal dominant
 Vascular malformation, primary intraosseous, 606893 (3), Autosomal recessive
 Conotruncal anomaly face syndrome, 217095 (3); DiGeorge syndrome, 188400 (3), Autosomal dominant;
 Glaucoma 3, primary congenital, E, 617272 (3), Autosomal dominant; Venous malformations, multiple cuta
 Verheij syndrome, 615583 (3), Autosomal dominant
 Vertebral anomalies and variable endocrine and T-cell dysfunction, 618223 (3), Autosomal dominant
 Vibratory urticaria, 125630 (3), Autosomal dominant
 Vici syndrome, 242840 (3), Autosomal recessive
 Visceral myopathy, 155310 (3), Autosomal dominant
 VLCAD deficiency, 201475 (3), Autosomal recessive
 Vohwinkel syndrome with ichthyosis, 604117 (3), Autosomal dominant
 NA
 von Willebrand disease, type 1, 193400 (3), Autosomal dominant; von Willebrand disease, types 2A, 2B, 2
 Craniofacial-deafness-hand syndrome, 122880 (3), Autosomal dominant; Rhabdomyosarcoma 2, alveolar,
 Central hypoventilation syndrome, congenital, 209880 (3), Autosomal dominant; {Hirschsprung disease, su
 Warburg micro syndrome 1, 600118 (3), Autosomal recessive
 Spondylometaepiphyseal dysplasia, short limb-hand type, 271665 (3), Autosomal recessive; Warburg-Cin
 Warsaw breakage syndrome, 613398 (3), Autosomal recessive
 Weaver syndrome, 277590 (3), Autosomal dominant
 Weill-Marchesani syndrome 1, recessive, 277600 (3), Autosomal recessive
 Werner syndrome, 277700 (3), Autosomal recessive
 White sponge nevus 2, 615785 (3), Autosomal dominant
 White-Sutton syndrome, 616364 (3), Autosomal dominant

Wieacker-Wolff syndrome, 314580 (3), X-linked recessive
Leukemia, myeloid/lymphoid or mixed-lineage, 159555 (2), Autosomal dominant; Wiedemann-Steiner syndrome, 608987 (3), Autosomal dominant
Wilson disease, 277900 (3), Autosomal recessive
Witteveen-Kolk syndrome, 613406 (3), Autosomal dominant
Wolcott-Rallison syndrome, 226980 (3), Autosomal recessive
?Cataract 41, 116400 (3), Autosomal dominant; Deafness, autosomal dominant 6/14/38, 600965 (3), Autosomal dominant
Wolfram syndrome 2, 604928 (3), Autosomal recessive
Woodhouse-Sakati syndrome, 241080 (3), Autosomal recessive
Xanthinuria, type I, 278300 (3), Autosomal recessive
Xeroderma pigmentosum, group A, 278700 (3), Autosomal recessive
Xeroderma pigmentosum, group C, 278720 (3), Autosomal recessive
Xeroderma pigmentosum, group E, DDB-negative subtype, 278740 (3), Autosomal recessive
Xeroderma pigmentosum, variant type, 278750 (3), Autosomal recessive
You-Hoover-Fong syndrome, 616954 (3), Autosomal recessive
NULL
Zinc deficiency, transient neonatal, 608118 (3), Autosomal dominant
ZTTK syndrome, 617140 (3), Autosomal dominant

es, 607822 (3), Autosomal dominant; Cardiomyopathy, dilated, 1U, 613694 (3), Autoson
lrodysplasia, Grebe type, 200700 (3), Autosomal recessive; Du Pan syndrome, 228900

t, Somatic mutation

ninant; Foveal hypoplasia 1, 136520 (3), Autosomal dominant; Keratitis, 148190 (3), Au

608895 (3), Autosomal dominant

, Ogna type, 131950 (3), Autosomal dominant; Muscular dystrophy, limb-girdle, autosor

Intestinal pseudoobstruction, neuronal, 300048 (3), X-linked recessive; Melnick-Needle:

(3), Autosomal dominant

ial dominant, Somatic mutation; {Nonsmall cell lung cancer, susceptibility to}, 211980 (3

Autosomal dominant

cessive

ominant

ive; ?RHYNS syndrome, 602152 (3), Autosomal recessive

; [Skin/hair/eye pigmentation 2, red hair/fair skin], 266300 (3), Autosomal recessive; {U

al recessive

n/hair/eye pigmentation 3, light/dark/freckling skin], 601800 (3), Autosomal dominant; W

ə

inant; {Colorectal cancer}, 114500 (3), Autosomal dominant, Somatic mutation; {Glioma
ogenesis imperfecta, type II, 166210 (3), Autosomal dominant; Osteogenesis imperfecta

{Melanoma, cutaneous malignant, 9}, 615134 (3); {Pulmonary fibrosis and/or bone mar

a variegata, susceptibility to}, 176200 (3), Autosomal dominant; [Transferrin serum level

ominant; Osteogenesis imperfecta, type IV, 166220 (3), Autosomal dominant; {Osteopc

I dominant; Kniest dysplasia, 156550 (3), Autosomal dominant; Legg-Calve-Perthes dis

18149 (3); Rapp-Hodgkin syndrome, 129400 (3), Autosomal dominant; Split-hand/foot n

rophy, 192315 (3), Autosomal dominant

re combined immunodeficiency, B cell-negative, 601457 (3), Autosomal recessive

X-linked, with or without dyserythropoietic anemia, 300367 (3), X-linked recessive

omal dominant; Craniofacial-skeletal-dermatologic dysplasia, 101600 (3), Autosomal dc

olysis bullosa, lethal acantholytic, 609638 (3), Autosomal recessive; Keratosis palmoplai
osomal recessive; {Obesity, susceptibility to}, 601665 (3), Autosomal recessive, Autoso

1 (3), X-linked recessive

omal recessive

:22600 (3), Autosomal recessive; Epiphyseal dysplasia, multiple, 4, 226900 (3), Autosor

y to}, 152700 (3), Autosomal dominant

ated, 4}, 610698 (3)

atelet-type, 177820 (3), Autosomal dominant

nant; Ovarian cancer, somatic, 167000 (3); {Prostate cancer, susceptibility to}, 176807

utation; Lung cancer, somatic, 211980 (3); Noonan syndrome 3, 609942 (3), Autosoma

drome 7, 613706 (3), Autosomal dominant

.2247 (3), Autosomal dominant; Hypochondroplasia, 146000 (3), Autosomal dominant; I

recessive; Neuromuscular disease, congenital, with uniform type 1 fiber, 117000 (3), At

Macular degeneration, age-related, susceptibility to, 5}, 613761 (3); Premature ovarian

ant; Retinitis pigmentosa 7 and digenic form, 608133 (3), Autosomal recessive, Autoson

ant; Muckle-Wells syndrome, 191900 (3), Autosomal dominant

ia with or without brachydactyly, 156510 (3), Autosomal dominant

r albinism, digenic, 103470 (3), Autosomal dominant

ant; Tetralogy of Fallot, 187500 (3), Autosomal dominant; Ventricular septal defect 3, 6:
and variable skeletal fusions syndrome 1B, 618469 (3), Autosomal recessive

atic mosaic, 163200 (3); Spitz nevus or nevus spilus, somatic, 137550 (3); Thyroid carcinoma, 176807 (3)
rrheic, somatic, 182000 (3); Macrodactyly, somatic, 155500 (3); Megalencephaly-capillary

900 (3), Autosomal dominant; Renal tubular acidosis, distal, AD, 179800 (3), Autosomal
l recessive

osomal dominant; Dejerine-Sottas disease, 145900 (3), Autosomal recessive, Autosomal
mal dominant; Neuropathy, recurrent, with pressure palsies, 162500 (3), Autosomal do
971 (3); Sickle cell anemia, 603903 (3), Autosomal recessive; Thalassemia, beta, 61398

ie, 131800 (3), Autosomal dominant; Epidermolysis bullosa simplex, recessive 1, 60100

c hypoglycemia, familial, 2, 601820 (3), Autosomal recessive; Maturity-onset diabetes o

somal recessive; Epileptic encephalopathy, early infantile, 16, 615338 (3), Autosomal re
3), Autosomal dominant; Epidermolysis bullosa simplex, recessive 1, 601001 (3), Autos

tosomal dominant

fect, 188050 (3), Autosomal dominant

osa pruriginosa, 604129 (3), Autosomal recessive, Autosomal dominant; Epidermolysis

t; Invasive pneumococcal disease, recurrent isolated, 2, 300640 (3)

lity to}, 606963 (1)

ronic dysplasia, 166250 (3), Autosomal dominant; Pfeiffer syndrome, 101600 (3), Autosomal dominant; Pfeiffer syndrome, 312750 (3), X-linked dominant; Rett syndrome, atypical, 312750 (3), X-linked dominant

Palmoplantar keratoderma, epidermolytic, 144200 (3), Autosomal dominant; Palmoplantar keratoderma, non-epidermolytic, 144200 (3), Autosomal dominant

Autosomal recessive, 243000 (3), Autosomal recessive; Insensitivity to pain, congenital, 243000 (3), Autosomal recessive

(3), Autosomal recessive, Autosomal dominant

Autosomal recessive; Oculodentodigital dysplasia, 164200 (3), Autosomal dominant; Oculodentodigital dysplasia, 164200 (3), Autosomal dominant

Osteoporosis-pseudoglioma syndrome, 259770 (3), Autosomal recessive; {Osteoporosis}, 259770 (3), Autosomal recessive; Ovarian cancer, somatic, 167000 (3); Pilomatricoma, somatic, 132600 (3)

{Medulloblastoma}, 155255 (3), Autosomal recessive, Autosomal dominant; {Pancreatic cancer}, 155255 (3), Autosomal dominant

Autosomal recessive

Otospondylomegalaphysal dysplasia, autosomal recessive, 104200 (3), Autosomal dominant; Otospondylomegalaphysal dysplasia, autosomal recessive, 104200 (3), Autosomal dominant

ne, 175100 (3), Autosomal dominant; Gastric cancer, somatic, 613659 (3); Hepatoblasti

m, 172800 (3), Autosomal dominant
tosomal recessive; {Lewy body dementia, susceptibility to}, 127750 (3), Autosomal dom

1700 (3), Autosomal dominant; Stiff skin syndrome, 184900 (3), Autosomal dominant; V

et, 612126 (3), Autosomal dominant; Stomatin-deficient cryohydrocytosis with neurologi

700 (3), Autosomal dominant

), Autosomal dominant

e, 616516 (3), Autosomal recessive; Heart-hand syndrome, Slovenian type, 610140 (3)

0 (3), X-linked recessive; Proud syndrome, 300004 (3), X-linked

Autosomal recessive

cessive, Autosomal dominant; Hypoglycemia of infancy, leucine-sensitive, 240800 (3),
autosomal dominant; Paramyotonia congenita, 168300 (3), Autosomal dominant

3 (3), Autosomal dominant; Hypocalciuric hypercalcemia, type I, 145980 (3), Autosomal

mal dominant

it

rotection against}, 607948 (3); {Tuberculosis, susceptibility to}, 607948 (3)

5 (3), Autosomal recessive, Autosomal dominant, Multifactorial

ne 2, 609621 (3), Autosomal dominant

-deafness syndrome, 148210 (3), Autosomal dominant; Keratoderma, palmoplantar, wit

aging syndrome, Penttinen type, 601812 (3), Autosomal dominant

270685 (3), Autosomal dominant

, 238320 (3), Autosomal recessive; Precocious puberty, male, 176410 (3), Autosomal d

erative syndrome type IV, somatic, 614470 (3); Schimmelpenning-Feuerstein-Mims syn

0, 613194 (3); Vitreoretinoblastoma, 193220 (3), Autosomal dominant

ssive

Progressive external ophthalmoplegia, autosomal dominant 1, 157640 (3), Autosomal dc

inant; Multiple endocrine neoplasia IIA, 171400 (3), Autosomal dominant; Multiple end

associated with acetylcholine receptor deficiency, 616323 (3), Autosomal recessive

on syndrome, 186570 (3), Autosomal dominant

Watson syndrome, 193520 (3), Autosomal dominant

roidism Ia, 103580 (3), Autosomal dominant; Pseudohypoparathyroidism Ib, 603233 (3

L, 610489 (3), Autosomal dominant

Autosomal dominant; Long QT syndrome-3, 603830 (3), Autosomal dominant; Sick sin

rotein C resistance, 188055 (3), Autosomal dominant; {Thrombophilia, susceptibility to, c

t

ome, autosomal dominant, 614296 (3), Autosomal dominant

nal dominant; Dementia, frontotemporal, 600274 (3), Autosomal dominant; Pick disease (3), Autosomal recessive; Multiple synostoses syndrome 2, 610017 (3), Autosomal don

tosomal dominant; ?Morning glory disc anomaly, 120430 (3), Autosomal dominant; Opt

nal recessive 17, 613723 (3), Autosomal recessive

s syndrome, 309350 (3), X-linked dominant; Otopalatodigital syndrome, type I, 311300 |

3), Autosomal dominant, Somatic mutation

V-induced skin damage}, 266300 (3), Autosomal recessive

/aardenburg syndrome/albinism, digenic, 103470 (3), Autosomal dominant

susceptibility 1}, 137800 (3), Autosomal dominant, Somatic mutation; Hepatocellular c
a, type III, 259420 (3), Autosomal dominant; Osteogenesis imperfecta, type IV, 166220 (

row failure, telomere-related, 1}, 614742 (3), Autosomal dominant

QTL2], 614193 (3)

rosis, postmenopausal}, 166710 (3), Autosomal dominant

ease, 150600 (3), Autosomal dominant; Osteoarthritis with mild chondrodysplasia, 6046

malformation 4, 605289 (3), Autosomal dominant

dominant; Craniosynostosis, nonspecific (3); Crouzon syndrome, 123500 (3), Autosomal

ntaris striata II, 612908 (3), Autosomal dominant; Skin fragility-woolly hair syndrome, 60
mal dominant, Multifactorial

nal recessive

(3), Autosomal dominant, Somatic mutation

Autosomal dominant; Oculoectodermal syndrome, somatic, 600268 (3); Pancreatic carcinoma, sc

LADD syndrome, 149730 (3), Autosomal dominant; Muenke syndrome, 602849 (3), Aut

utosomal recessive, Autosomal dominant

failure 11, 616946 (3), Autosomal dominant; UV-sensitive syndrome 1, 600630 (3), Aut

nal dominant; Retinitis punctata albescens, 136880 (3), Autosomal recessive, Autosomal

14432 (3), Autosomal dominant

cinoma, follicular, somatic, 188470 (3)

lary malformation-polymicrogyria syndrome, somatic, 602501 (3); Nevus, epidermal, so

l dominant; Renal tubular acidosis, distal, AR, 611590 (3), Autosomal recessive; Spherc

al dominant; Hypomyelinating neuropathy, congenital, 2, 618184 (3), Autosomal domina
ninant; Roussy-Levy syndrome, 180800 (3), Autosomal dominant
35 (3); Thalassemia-beta, dominant inclusion-body, 603902 (3)

01 (3), Autosomal recessive; Naegeli-Franceschetti-Jadassohn syndrome, 161000 (3), /

of the young, type 13, 616329 (3), Autosomal dominant

cessive; Myoclonic epilepsy, infantile, familial, 605021 (3), Autosomal recessive
somal recessive; Epidermolysis bullosa simplex-MCR, 609352 (3); Epidermolysis bullos

bullosa, pretibial, 131850 (3), Autosomal recessive, Autosomal dominant; Toenail dysti

osomal dominant; Trionocephaly 1, 190440 (3), Autosomal dominant
inant; Rett syndrome, preserved speech variant, 312750 (3), X-linked dominant

ntar keratoderma, nonepidermolytic, 600962 (3), Autosomal dominant

3000 (3), Autosomal recessive; Paroxysmal extreme pain disorder, 167400 (3), Autosor

igital dysplasia, autosomal recessive, 257850 (3), Autosomal recessive; Palmopantar |

166710 (3), Autosomal dominant; Osteosclerosis, 144750 (3), Autosomal dominant; Po

atic cancer 2}, 613347 (3); {Prostate cancer}, 176807 (3), Autosomal dominant, Somatic

215150 (3), Autosomal recessive

oma, somatic, 114550 (3)

inant; {Parkinson disease, late-onset, susceptibility to}, 168600 (3), Autosomal dominant

/eill-Marchesani syndrome 2, dominant, 608328 (3), Autosomal dominant

c defects, 608885 (3), Autosomal dominant

, Autosomal dominant; Hutchinson-Gilford progeria, 176670 (3), Autosomal recessive, /

Autosomal dominant

dominant

h deafness, 148350 (3), Autosomal dominant; Vohwinkel syndrome, 124500 (3), Autosomal dominant

ominant

drome, somatic mosaic, 163200 (3); Thyroid carcinoma, follicular, somatic, 188470 (3)

ominant; Progressive external ophthalmoplegia, autosomal recessive 1, 258450 (3), Aut

ocrine neoplasia IIB, 162300 (3), Autosomal dominant; Pheochromocytoma, 171300 (3)

); Autosomal dominant; Pseudohypoparathyroidism Ic, 612462 (3), Autosomal dominar

us syndrome 1, 608567 (3), Autosomal recessive; {Sudden infant death syndrome, susi

due to factor V Leiden}, 188055 (3), Autosomal dominant

3, 172700 (3), Autosomal dominant
dominant; {Osteoarthritis-5}, 612400 (3); Symphalangism, proximal, 1B, 615298 (3)

ic nerve hypoplasia, 165550 (3), Autosomal dominant

(3), X-linked dominant; Otopalatodigital syndrome, type II, 304120 (3), X-linked dominant

arcinoma, somatic, 114550 (3); Li-Fraumeni syndrome, 151623 (3), Autosomal dominant (3), Autosomal dominant

364 (3), Autosomal dominant; Platyspondylic skeletal dysplasia, Torrance type, 151210

dominant; Gastric cancer, somatic, 613659 (3); Jackson-Weiss syndrome, 123150 (3),

17655 (3), Autosomal recessive

omatic, 260350 (3); RAS-associated autoimmune leukoproliferative disorder, 614470 (3)

Autosomal dominant; Nevus, epidermal, somatic, 162900 (3); SADDAN, 616482 (3), Autosomal

Autosomal recessive

al dominant

matic, 162900 (3); Nonsmall cell lung cancer, somatic, 211980 (3); Ovarian cancer, son

ocytosis, type 4, 612653 (3), Autosomal dominant

unt; Roussy-Levy syndrome, 180800 (3), Autosomal dominant

Autosomal dominant

a simplex-MP, 131960 (3), Autosomal dominant

rophy, isolated, 607523 (3), Autosomal dominant; Transient bullous of the newborn, 131

nal dominant; Small fiber neuropathy, 133020 (3), Autosomal dominant

keratoderma with congenital alopecia, 104100 (3), Autosomal dominant; Syndactyly, ty

lycystic liver disease 4 with or without kidney cysts, 617875 (3), Autosomal dominant; v

: mutation; Wilms tumor, 194070 (3), Autosomal dominant, Somatic mutation

at, Multifactorial

Autosomal dominant; Lipodystrophy, familial partial, type 2, 151660 (3), Autosomal dom

omal dominant

tosomal recessive

), Autosomal dominant

it; Pseudopseudohypoparathyroidism, 612463 (3), Autosomal dominant

ceptibility to}, 272120 (3), Autosomal recessive; Ventricular fibrillation, familial, 1, 60382

nt; Terminal osseous dysplasia, 300244 (3), X-linked dominant

nt; Nasopharyngeal carcinoma, somatic, 607107 (3); {Osteosarcoma}, 259500 (3), Som

(3), Autosomal dominant; SED congenita, 183900 (3), Autosomal dominant; SMED Stri

Autosomal dominant; LADD syndrome, 149730 (3), Autosomal dominant; Pfeiffer syndr

), Autosomal dominant; Schimmelpenning-Feuerstein-Mims syndrome, somatic mosaic,

somal dominant; Spermatocytic seminoma, somatic, 273300 (3); Thanatophoric dysplas

natic, 167000 (3)

L705 (3), Autosomal recessive, Autosomal dominant

je III, 186100 (3), Autosomal dominant

an Buchem disease, type 2, 607636 (3), Autosomal dominant

inant; Malouf syndrome, 212112 (3), Autosomal dominant; Mandibuloacral dysplasia, 2.

9 (3)

atic mutation; Pancreatic cancer, somatic, 260350 (3)

Judwick type, 184250 (3), Autosomal dominant; Spondyloepiphyseal dysplasia, Stanesci

ome, 101600 (3), Autosomal dominant; Saethre-Chotzen syndrome, 101400 (3), Autos

sia, type I, 187600 (3), Autosomal dominant; Thanatophoric dysplasia, type II, 187601 (3)

48370 (3), Autosomal recessive; Muscular dystrophy, congenital, 613205 (3), Autosomal

J type, 616583 (3), Autosomal dominant; Spondyloperipheral dysplasia, 271700 (3), Au

omal dominant; Scaphocephaly and Axenfeld-Rieger anomaly (3); Scaphocephaly, ma

3), Autosomal dominant

al dominant; Restrictive dermopathy, lethal, 275210 (3), Autosomal recessive

tosomal dominant; Stickler syndrome, type I, nonsyndromic ocular, 609508 (3), Autosom

killary retrusion, and mental retardation, 609579 (3)

al dominant; Stickler syndrome, type I, 108300 (3), Autosomal dominant; Vitreoretinopa

thy with phalangeal epiphyseal dysplasia (3)

Table S4: Demographic characteristics of cohorts screened for rare pathogenic variants

Characteristics	Subjects with		
	UK Biobank (N = 9,529)		
	MS	IBD	AtD
Sex — no. (%)			
Male	520 (28.1)	3,309 (49.5)	424 (42.5)
Female	1,330 (71.9)	3,372 (50.5)	574 (57.5)
Median age* (IQR) — yr.	56 (49-61)	59 (51-64)	55 (48-62)
Race — no. (%)			
African or African American	2 (0.10)	16 (0.24)	12 (1.2)
American Indian or Alaska Native	-	-	-
East Asian	2 (0.10)	9 (0.13)	6 (0.60)
European	1,816 (98.16)	6,407 (95.9)	959 (96.1)
Multiple	16 (0.86)	60 (0.9)	10 (1)
Native Hawaiian and Pacific Islander	-	-	-
Prefer not to answer	8 (0.43)	34 (0.51)	3 (0.3)
Unknown	4 (0.22)	25 (0.37)	4 (0.4)
South Asian	2 (0.11)	130 (1.95)	4 (0.4)

*In the UK Biobank age is recorded at the time of recruitment. In the Genuity Science

c variants	
1 sequencing data (N = 18,484)	
Genuity Science (N = 7,475)	Clinical trials (N = 1,480)
MS	IBD
2,131 (28.50)	770 (52.02)
5,344 (71.50)	710 (47.98)
54 (39–56)	38 (29–50)
-	49 (3.31)
-	3 (0.20)
-	59 (3.98)
7,412 (99.60)	1,362 (92.03)
-	4 (0.27)
-	2 (0.13)
63 (0.84)	1 (0.06)
-	-

and clinical trials age is as recorded at baseline.

Table S5: Representativeness of patient sample
Category
Disease or condition under investigation
Special considerations related to: Sex and gender
Age
Race or ethnic group
Geography
Other considerations
Overall representativeness of the study

les with multiple sclerosis, inflammatory bowel disease, and atopic dermatitis compared to the b

Description

Multiple Sclerosis (MS), Inflammatory Bowel Disease (IBD), Atopic Dermatitis (AtD)

MS: MS is 2-3 times more common in females than in males.

IBD: Crohn's disease (CD) affects men and women at similar rates. Some studies suggest a slight female predominance in some regions, but the differences are not substantial. Ulcerative colitis (UC) also affects both sexes, but there is a slight predominance in males. However, this pattern can vary geographically.

MS: MS is frequently diagnosed between the ages of 20 and 40, with an average age of onset around 30 years. It is rare in children.

IBD: IBD often begins in the late teens to early 30s, with a peak incidence between the ages of 15 and 30. There is a secondary, smaller peak in incidence around the ages of 50 to 60. In males, particularly in the younger age group. Females often experience onset at a slightly younger age. There are no significant differences between sexes.

UKB: UKB participants were 40-69 years of age when they were recruited to the study, therefore the M does not represent pediatric patients affected by any of these diseases.

Clinical Trials: The IBD clinical trials include only adult patients above 18 years of age. This cohort also does not include children.

MS: MS is most common in individuals of Northern European descent. Therefore, both the UKB and Genuity Science cohorts are broader affected Northern European populations.

IBD: IBD is most prevalent in individuals of European descent. This group tends to have the highest rates of IBD, and lifestyle factors common in Western countries. Ashkenazi Jews are known to have a significantly higher risk of IBD than other groups. This increased risk is largely attributed to genetic factors specific to this population. IBD was the most common in this group. However, recent studies indicate increasing rates of both CD and UC, suggesting that the prevalence may be increasing. Prevalence among Hispanic/Latino individuals is generally lower than in Europeans. However, variation in prevalence is increasing, likely due to changes in environment and diet. IBD was once rare in Asian countries, but its prevalence is increasing with lifestyle shifts toward Western diets. This trend is especially noted in East Asian countries. There is also an increase in IBD in American populations, and it is generally thought to be lower compared to other groups. However, more research is needed.

AtD: Atopic dermatitis is quite common in European populations. However, African Americans tend to have higher rates of AtD compared to Europeans. Additionally, AtD can be more severe and persistent in African American individuals. Features, such as papular lesions and lichenification. The prevalence of AtD in Asian and Pacific Islander populations is lower. Differences in the skin manifestation and disease course compared to European populations. Prevalence of AtD varies among some studies suggesting higher rates in Caribbean and South American subgroups. The presentation of AtD is influenced by genetic and environmental factors. Data among Indigenous and Native populations are limited, but the prevalence is thought to be higher.

MS: MS prevalence is generally higher in countries located farther from the equator. This includes regions in North America, the United States, and parts of Australia and New Zealand. The prevalence in these areas is often attributed to higher levels of vitamin D. Countries closer to the equator, such as many in Africa, Asia, and South America, have lower prevalence. The reasons are not entirely understood but may be linked to genetic factors, sunlight exposure, and infection. MS prevalence even within their borders. For example, the northern parts of the United States and Canada have higher prevalence than southern regions.

IBD: IBD is more common in North America, Northern and Western Europe, and Australia. These regions have higher prevalence rates, likely due to a combination of genetic susceptibility and environmental factors such as diet, lifestyle, and urbanization. There has been an increasing prevalence of IBD in developing regions, including parts of Asia, South America, and Africa. Factors such as urbanization, changes in diet (e.g., Westernization of diets), and improved healthcare systems that help in early diagnosis and treatment may be regional differences within countries, especially between urban and rural areas, with urban areas often having higher prevalence. Differences in lifestyle, environmental exposures, and healthcare access.

UKB: The UKB cohort is not completely representative of the general population, since there is evidence of selection bias. Nonetheless, while it is not suitable for estimating general disease prevalence or incidence rates, its large size and generalizable inferences about exposure-disease relationships (Fry et al. American Journal of Epidemiology 2019).
GS: The Genuity Science MS cohort consists of White European patients recruited at many sites across the United States. Therefore, this cohort does not represent non-European populations.

Clinical Trials: Clinical trials recruited patients with moderate to severe IBD. Therefore, patients in these studies are predominantly of European ancestry. More than 90% of participants in these studies are patients with European ancestry. These trials do not represent the general population of IBD patients.

Table S6: Pathogenic and likely pathogenic variants identified in m

Chr	Pos	Ref	Alt	rsID	Gene Name
10	80170859	C	T	rs142083484	ANXA11
10	80170859	C	T	rs142083484	ANXA11
13	51946372	G	A	rs41292782	ATP7B
13	51974073	G	A	rs2140071850	ATP7B
14	23321472	-	GGCGGC	rs193922941	PABPN1
9	92717947	G	A	rs371707778	BICD2
19	13299128	-	G		CACNA1A
1	201053459	C	A	rs201627041	CACNA1S
13	110152494	C	A		COL4A1
13	110192839	C	T	rs1878701070	COL4A1
13	110205520	C	G		COL4A1
13	110428551	-	C	rs754531309	COL4A2
13	110449697	G	C		COL4A2
13	110473069	G	A	rs768662646	COL4A2
19	49705962	C	T	rs780195851	CPT1C
2	25234307	G	A	rs149095705	DNMT3A
15	48497332	G	A	rs794728188	FBN1
15	48505037	G	A	rs193922185	FBN1
3	71581548	C	T		FOXP1
14	54844099	T	C	rs41298442	GCH1

14	54844099	T	C	rs41298442	GCH1
14	54844099	T	C	rs41298442	GCH1
X	71224026	C	T	rs863224973	GJB1
18	11753947	T	C		GNAL
17	44352421	AGTGG	-	rs775435624	GRN
11	119091414	G	A	rs118204095	HMBS
11	119091446	G	A	rs536814318	HMBS
7	76303843	C	T	rs28939681	HSPB1
2	8779703	G	A		KIDINS220
12	65169963	G	-	rs1328136497	LEMD3
12	40340400	G	A	rs34637584	LRRK2
5	139322683	A	G	rs587777301	MATR3
1	161307386	T	C	rs864622732	MPZ
5	137870830	C	T	rs121908458	MYOT
17	31352291	A	-		NF1
19	15165500	G	A	rs754537422	NOTCH3
19	15167330	G	A	rs771814027	NOTCH3
19	15178936	G	A	rs769660847	NOTCH3
19	15179052	G	A	rs201680145	NOTCH3

19	15179079	A	C	rs199638166	NOTCH3
19	15179079	A	C	rs199638166	NOTCH3
19	15179079	A	C	rs199638166	NOTCH3
19	15179142	G	A	rs772172068	NOTCH3
19	15179397	G	A	rs60373464	NOTCH3
19	15180732	G	A	rs1285584068	NOTCH3
12	64481951	C	T	rs1284582102	TBK1
19	15187192	C	A		NOTCH3
19	15191450	T	C	rs2046925676	NOTCH3
19	15192218	G	A	rs1174625611	NOTCH3
5	177191882	A	C		NSD1
3	193617265	T	A		OPA1
22	39230114	G	A	rs761574566	PDGFB
7	66993288	C	T	rs201070132	SBDS
7	66994210	A	G	rs113993993	SBDS
12	23604534	C	T	rs201883079	SOX5
2	32136621	C	T	rs1553318182	SPAST
18	31598655	G	A	rs76992529	TTR

Monogenic disease genes in multiple sclerosis subjects in the U.K. Biobank	
HGVS c. (Clinically relevant)	HGVS p. (Clinically relevant)
NM_145868.2:c.112G>A	NP_665875.1:p.Gly38Arg
NM_145868.2:c.112G>A	NP_665875.1:p.Gly38Arg
NM_000053.4:c.2972C>T	NP_000044.2:p.Thr991Met
NM_000053.4:c.1147C>T	NP_000044.2:p.Gln383Ter
NM_004643.4:c.3GGC[9]	NP_004634.1:p.Ala10_Ala11dup
NM_001003800.2:c.2108C>T	NP_001003800.1:p.Thr703Met
NM_001127221.2:c.2508dupC	NP_001120693.1:p.Asn837Glnfs*231
NM_000069.3:c.3795G>T	NP_000060.2:p.Gln1265His
NM_001845.6:c.4768G>T	NP_001836.3:p.Gly1590Cys
NM_001845.6:c.1456G>A	NP_001836.3:p.Gly486Arg
NM_001845.6:c.877G>C	NP_001836.3:p.Gly293Arg
NM_001846.4:c.450dupC	NP_001837.2:p.Gly151Argfs*3
NM_001846.4:c.1097G>C	NP_001837.2:p.Gly366Ala
NM_001846.4:c.2344G>A	NP_001837.2:p.Gly782Arg
NM_001136052.3:c.985C>T	NP_001129524.1:p.Arg329Ter
NM_022552.4:c.2711C>T	NP_072046.2:p.Pro904Leu
NM_000138.5:c.2227C>T	NP_000129.3:p.Arg743Cys
NM_000138.5:c.1948C>T	NP_000129.3:p.Arg650Cys
NM_032682.6:c.-298+1G>A	
NM_000161.3:c.671A>G	NP_000152.1:p.Lys224Arg

NM_000161.3:c.671A>G	NP_000152.1:p.Lys224Arg
NM_000161.3:c.671A>G	NP_000152.1:p.Lys224Arg
NM_000166.6:c.319C>T	NP_000157.1:p.Arg107Trp
NM_001142339.3:c.393+2T>C	
NM_002087.4:c.1494_1498delAGTGG	NP_002078.1:p.Glu498Aspfs*12
NM_000190.4:c.500G>A	NP_000181.2:p.Arg167Gln
NM_000190.4:c.532G>A	NP_000181.2:p.Asp178Asn
NM_001540.5:c.406C>T	NP_001531.1:p.Arg136Trp
NM_020738.4:c.2341C>T	NP_065789.1:p.Gln781Ter
NM_014319.5:c.371delG	NP_055134.2:p.Gly124Alafs*59
NM_198578.4:c.6055G>A	NP_940980.4:p.Gly2019Ser
NM_199189.3:c.1864A>G	NP_954659.1:p.Thr622Ala
NM_000530.8:c.106A>G	NP_000521.2:p.Arg36Gly
NM_006790.3:c.179C>T	NP_006781.1:p.Ser60Phe
NM_000267.3:c.7431delA	NP_000258.1:p.Gly2478Valfs*24
NM_000435.3:c.5683C>T	NP_000426.2:p.Arg1895Cys
NM_000435.3:c.5281C>T	NP_000426.2:p.Arg1761Cys
NM_000435.3:c.3724C>T	NP_000426.2:p.Arg1242Cys
NM_000435.3:c.3691C>T	NP_000426.2:p.Arg1231Cys

NM_000435.3:c.3664T>G	NP_000426.2:p.Cys1222Gly
NM_000435.3:c.3664T>G	NP_000426.2:p.Cys1222Gly
NM_000435.3:c.3664T>G	NP_000426.2:p.Cys1222Gly
NM_000435.3:c.3601C>T	NP_000426.2:p.Arg1201Cys
NM_000435.3:c.3427C>T	NP_000426.2:p.Arg1143Cys
NM_000435.3:c.3091C>T	NP_000426.2:p.Arg1031Cys
NM_013254.4:c.922C>T	NP_037386.1:p.Arg308Ter
NM_000435.3:c.1753G>T	NP_000426.2:p.Glu585Ter
NM_000435.3:c.1010A>G	NP_000426.2:p.Tyr337Cys
NM_000435.3:c.421C>T	NP_000426.2:p.Arg141Cys
NM_022455.5:c.928-2A>C	
NM_015560.3:c.536T>A	NP_056375.2:p.Leu179Ter
NM_002608.4:c.571C>T	NP_002599.1:p.Arg191Ter
NM_016038.4:c.388G>A	NP_057122.2:p.Val130Met
NM_016038.4:c.258+2T>C	
NM_006940.6:c.1018-1G>A	
NM_014946.4:c.1304C>T	NP_055761.2:p.Pro435Leu
NM_000371.4:c.424G>A	NP_000362.1:p.Val142Ile

Effect (Combined)	AF (gnomAD v4.0.0, includes UK Biobank)
Missense	0.0000748
Missense	0.0000748
Missense	0.003216
Stop gained	0.000004802
Missense	0.00003202
Missense	0.00000124
Frameshift	0.0000006849
Missense	0.00003408
Missense	6.85E-07
Missense	0.000002401
Missense	6.84E-07
Frameshift	0.00001776
Missense	7.16E-07
Missense	0.00008979
Stop gained	0.00001115
Missense	0.00003781
Missense	0.000001368
Missense	0.0000012
Splice site	0.000002401
Missense	0.0003754

Missense	0.0003754
Missense	0.0003754
Missense	0.000003336
Splice site	0.000001381
Frameshift	0.000006841
Missense	0.00007028
Missense	0.0001882
Missense	0.00000552
Stop gained	0.000002052
Frameshift	0.000003055
Missense	0.0004115
Missense	0.00001797
Missense	0.000002736
Missense	0.00001549
Frameshift	NA
Missense	0.000006164
Missense	0.00001364
Missense	0.00001053
Missense	0.0004783

Missense	0.0001729

Missense	0.0001729

Missense	0.0001729

Missense	0.00004585

Missense	0.00008797

Missense	0.000001405

Stop gained	0.000002059

Stop gained	6.84E-07

Missense	0.00000203

Missense	0.000004805

Splice site	0.000002401

Stop gained	0.00001084

Stop gained	0.000001368

Missense	0.0001456

Splice site	0.0000887

Splice site	0.0000887

Missense	0.000001202

Missense	0.0008878

Disorder	Disorder Category
Amyotrophic lateral sclerosis	Neurologic and Neuromuscular Disorder
Amyotrophic lateral sclerosis	Neurologic and Neuromuscular Disorder
Wilson disease	Metabolic Disorder
Wilson disease	Metabolic Disorder
Oculopharyngeal muscular dystrophy	Neurologic and Neuromuscular Disorder
Spinal muscular atrophy	Neurologic and Neuromuscular Disorder
Episodic ataxia	Neurologic and Neuromuscular Disorder
Hypokalemic periodic paralysis	Metabolic Disorder
Brain small vessel disease	Cerebrovascular Disorder
Brain small vessel disease	Cerebrovascular Disorder
Brain small vessel disease	Cerebrovascular Disorder
Brain small vessel disease	Cerebrovascular Disorder
Brain small vessel disease	Cerebrovascular Disorder
Brain small vessel disease	Cerebrovascular Disorder
Spastic paraplegia	Neurologic and Neuromuscular Disorder
Tatton-Brown-Rahman overgrowth syndrome	Genetic Syndrome
Acromicric dysplasia, Ectopia lentis familial, Geleophysic dysplasia 2, Marfan lipodystrophy syndrome, Marfan syndrome, MASS syndrome, Stiff skin syndrome, Weill-Marchesani syndrome 2 dominant	Genetic Syndrome
Acromicric dysplasia, Ectopia lentis familial, Geleophysic dysplasia 2, Marfan lipodystrophy syndrome, Marfan syndrome, MASS syndrome, Stiff skin syndrome, Weill-Marchesani syndrome 2 dominant	Genetic Syndrome
Intellectual developmental disorder with language impairment with or without autistic features	Neurologic and Neuromuscular Disorder
Dystonia DOPA-responsive with or without hyperphenylalaninemia, Hyperphenylalaninemia BH4-deficient B	Neurologic and Neuromuscular Disorder

Dystonia DOPA-responsive with or without hyperphenylalaninemia, Hyperphenylalaninemia BH4-deficient B	Neurologic and Neuromuscular Disorder
Dystonia DOPA-responsive with or without hyperphenylalaninemia, Hyperphenylalaninemia BH4-deficient B	Neurologic and Neuromuscular Disorder
Charcot-Marie-Tooth neuropathy X-linked dominant 1	Neurologic and Neuromuscular Disorder
Dystonia	Neurologic and Neuromuscular Disorder
Frontotemporal dementia	Neurologic and Neuromuscular Disorder
Acute intermittent porphyria	Metabolic Disorder
Acute intermittent porphyria	Metabolic Disorder
Charcot-Marie-Tooth disease	Neurologic and Neuromuscular Disorder
Spastic paraplegia, intellectual disability, nystagmus, and obesity (SINO)	Neurologic and Neuromuscular Disorder
Buschke-Ollendorff syndrome	Genetic Syndrome
Parkinson disease	Neurologic and Neuromuscular Disorder
Amyotrophic lateral sclerosis	Neurologic and Neuromuscular Disorder
Charcot-Marie-Tooth disease	Neurologic and Neuromuscular Disorder
Myopathy myofibrillar	Neurologic and Neuromuscular Disorder
Neurofibromatosis	Tumor Syndrome
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy	Cerebrovascular Disorder
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy	Cerebrovascular Disorder
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy	Cerebrovascular Disorder
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy	Cerebrovascular Disorder

Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy	Cerebrovascular Disorder
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy	Cerebrovascular Disorder
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy	Cerebrovascular Disorder
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy	Cerebrovascular Disorder
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy	Cerebrovascular Disorder
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy	Cerebrovascular Disorder
Frontotemporal dementia and/or amyotrophic lateral sclerosis	Neurologic and Neuromuscular Disorder
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy	Cerebrovascular Disorder
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy	Cerebrovascular Disorder
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy	Cerebrovascular Disorder
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy	Cerebrovascular Disorder
Sotos syndrome	Genetic Syndrome
Optic atrophy, spastic paraparesis, axonal sensorimotor peripheral neuropathy and intestinal dysmotility	Neurologic and Neuromuscular Disorder
Idiopathic basal ganglia calcification	Neurologic and Neuromuscular Disorder
Shwachman-Diamond syndrome	Genetic Syndrome
Shwachman-Diamond syndrome	Genetic Syndrome
Lamb-Shaffer syndrome	Neurologic and Neuromuscular Disorder
Spastic paraplegia	Neurologic and Neuromuscular Disorder
Amyloidosis hereditary transthyretin-related, carpal tunnel syndrome familial, dystransthyretinemic hyperthyroxinemia	Metabolic Disorder

Disorder Inheritance	Classification	Zygosity	Subject
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-001
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-002
Autosomal recessive	Likely Pathogenic	Heterozygous	UKB-MS-003
Autosomal recessive	Likely Pathogenic	Heterozygous	UKB-MS-003
Autosomal dominant	Pathogenic	Heterozygous	UKB-MS-004
Autosomal dominant	Pathogenic	Heterozygous	UKB-MS-005
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-006
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-007
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-008
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-009
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-010
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-011
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-012
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-013
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-014
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-015
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-016
Autosomal dominant	Pathogenic	Heterozygous	UKB-MS-017
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-018
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-019

Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-020
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-021
X-linked dominant	Pathogenic	Hemizygous	UKB-MS-022
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-023
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-023
Autosomal dominant	Pathogenic	Heterozygous	UKB-MS-024
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-025
Autosomal dominant	Pathogenic	Heterozygous	UKB-MS-026
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-027
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-028
Autosomal dominant	Pathogenic	Heterozygous	UKB-MS-029
Autosomal dominant	Pathogenic	Heterozygous	UKB-MS-030
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-031
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-032
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-033
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-034
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-035
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-036
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-037

Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-038
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-039
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-040
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-041
Autosomal dominant	Pathogenic	Heterozygous	UKB-MS-042
Autosomal dominant	Pathogenic	Heterozygous	UKB-MS-043
Autosomal dominant	Pathogenic	Heterozygous	UKB-MS-043
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-044
Autosomal dominant	Pathogenic	Heterozygous	UKB-MS-045
Autosomal dominant	Pathogenic	Heterozygous	UKB-MS-046
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-047
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-048
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-049
Autosomal recessive	Likely Pathogenic	Heterozygous	UKB-MS-050
Autosomal recessive	Pathogenic	Heterozygous	UKB-MS-050
Autosomal dominant	Likely Pathogenic	Heterozygous	UKB-MS-051
Autosomal dominant	Pathogenic	Heterozygous	UKB-MS-052
Autosomal dominant	Pathogenic	Heterozygous	UKB-MS-053

**Symptoms related to the rare disease derived from UK
Biobank inpatient health records (HESIN DIAG)**

Neuromuscular dysfunction of bladder, other diseases of spinal cord, spasmodic torticollis, cerebral infarction, constipation, depressive episode, unspecified dementia
Mononeuropathies of upper limb, constipation, urge incontinence, depressive episode
Restlessness and agitation, tetany, Parkinson's disease, tachycardia unspecified

Nystagmus and other irregular eye movements,
mononeuropathies of upper limb
Abnormalities of gait and mobility, dysphagia

Abnormal involuntary movements, degenerative disease of nervous system unspecified
Thyrotoxicosis [hyperthyroidism], encephalitis, myelitis and encephalomyelitis, unspecified ataxia, acute renal failure
Other nontraumatic intracranial haemorrhage, other cerebrovascular diseases, transient cerebral ischaemic attacks and related syndromes, hemiplegia, Raynaud's syndrome without gangrene.
Atrial fibrillation and flutter, unspecified haematuria, chronic renal failure.
Other aneurysm, cerebral infarction, hemiplegia, atrial fibrillation and flutter, chronic renal failure, unspecified optic atrophy, mild cognitive impairment of uncertain or unknown etiology.

Stricture of artery, immune thrombocytopenic purpura, essential (hemorrhagic) thrombocythemia.

Other lack of coordination, unsteadiness on feet, foot drop (acquired), pain in limb unspecified
Malignant neoplasm of bronchus and lung, epilepsy unspecified, other and unspecified convulsions, anxiety disorder unspecified

Height: 170 cm, vitreous degeneration, degenerative myopia, Other specified cataract, pain in ankle and joints of foot, Internal derangement of knee, pain in hand and fingers, sprain of unspecified ligament of ankle

Height: 177cm, Marfan's syndrome,

Mental and behavioural disorders due to use of tobacco harmful use, personal history of psychoactive substance abuse, muscle wasting and atrophy, not elsewhere classified, other specified disorders of muscle

Spastic paraplegia

Idiopathic peripheral autonomic neuropathy, hereditary motor and sensory neuropathy, polyneuropathy, hemiplegia unspecified, dependence on wheelchair

Pain localized to upper abdomen, Unspecified abdominal pain, Essential (primary) hypertension, Ventricular premature depolarization, Ventricular premature depolarization, Sleep disorder unspecified, Hemiplegia unspecified, Chronic kidney disease, Poisoning by diuretics and other and unspecified drug medicaments and biological substances
Pain in limb unspecified, Pain in knee, Pain in shoulder, Pain in foot and toes, Polyneuropathy unspecified, Chronic renal failure

Unspecified optic neuritis (optic nerve dysplasia), Abnormal involuntary movements

Other amnesia, Alzheimer's disease, Other extrapyramidal and movement disorders, Tremor unspecified, Mononeuropathies of upper limb, Repeated falls

Dysphagia, Abnormalities of gait and mobility, Other specified degenerative diseases of nervous system, Foot drop (acquired), Dependence on wheelchair, Retention of urine, Dementia in other diseases classified elsewhere

Headache. Mutation located in Cysteine amino acid in one of the 34 EGFr domains of the NOTCH3 protein. NOTCH3 EGFr 7-34 variants phenotype is very broad, ranging from a severe to mild form

Faecal incontinence, Unspecified urinary incontinence. Mutation located in Cysteine amino acid in one of the 34 EGFr domains of the NOTCH3 protein. NOTCH3 EGFr 7-34 variants phenotype is very broad, ranging from a severe to mild form

Headache, Epilepsy, Convulsions not elsewhere classified, Delirium not induced by alcohol and other psychoactive substances, Depressive episode, Other anxiety disorders, Recurrent depressive disorder
Headache, Other anxiety disorders,

Epilepsy, Convulsions not elsewhere classified, Unspecified urinary incontinence. Mutation located in Cysteine amino acid in one of the 34 EGFr domains of the NOTCH3 protein. NOTCH3 EGFr 7-34 variants phenotype is very broad, ranging from a severe to mild form

Mutation located in Cysteine amino acid in one of the 34 EGFr domains of the NOTCH3 protein. NOTCH3 EGFr 7-34 variants phenotype is very broad, ranging from a severe to mild form

Mutation located in Cysteine amino acid in one of the 34 EGFr domains of the NOTCH3 protein. NOTCH3 EGFr 7-34 variants phenotype is very broad, ranging from a severe to mild form

Delirium not induced by alcohol and other psychoactive substances, Convulsions not elsewhere classified, Abnormalities of gait and mobility, Faecal incontinence, Other cerebrovascular diseases. Mutation located in Cysteine amino acid in one of the 34 EGFr domains of the NOTCH3 protein. NOTCH3 EGFr 7-34 variants phenotype is very broad, ranging from a severe to mild form

Other anxiety disorders.

Headache, Depressive episode.

Headache, Hemiplegia, Other paralytic syndromes, Other cerebrovascular diseases

Cerebral infarction, Other cerebrovascular diseases, Hemiplegia, Other paralytic syndromes, Abnormalities of gait and mobility, Depressive episode, Unspecified urinary incontinence.

Migraine, Headache, Cerebral infarction, Transient cerebral ischaemic attacks and related syndromes, Other paralytic syndromes, Other anxiety disorders. Mutation located in Cysteine amino acid in one of the 34 EGFr domains of the NOTCH3 protein. NOTCH3 EGFr 7-34 variants phenotype is very broad, ranging from a severe to mild form

Height: 180cm

Unspecified disorder of eye and adnexa, Unspecified hearing loss, Other abnormal auditory perceptions, Unspecified urinary incontinence

Delirium not superimposed on dementia, Dermatitis unspecified, Disorder of the skin and subcutaneous tissue unspecified, Unspecified hearing loss

Paraplegia and tetraplegia, Other disorders of brain, Retention of urine

Bradycardia unspecified, unspecified urinary incontinence, hematuria unspecified, proteinuria unspecified, ataxic gait, nausea, vomiting, acute and transient psychotic disorders, schizoaffective disorder unspecified, unspecified nonorganic psychosis, bipolar disorder unspecified

PubMed ID (primary)

28469040, 29650794, 33087501

28469040, 29650794, 33087501

35578211

9462747

23664116, 26594138, 27784775,
28635954, 32665036

28325641, 26247046, 28012042

29900417, 31961069

32989268, 31227806, 29875124

21932315, 25900864, 28941062,
27382527

9667588, 15303002, 35083481,
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19259128, 15006706, 10737979,
9401007, 9272161, 9018031,
8829637

2243128, 7962538, 9199558, 12372
055, 15003823, 12773194, 2753993
8, 11055586, 15643298, 23815679,
14631121

14631121

29330367, 15122254

10607834;10336779

24686783
16616847, 31278453, 14711881,
18636082, 23279346, 29687021,
22704856, 26310628, 16616845

32528171, 31589614, 32419263,
32647524, 32509353, 32403337,
31407473, 25208129, 31517061,
19590214, 15111675, 22021208,
27854214

27844030, 32732295

33013620, 27423596

32732295

32732295

32732295

27844030, 32732295

27844030, 32732295

33622418

27656661

Table S7: Disease comorbidities in multiple sclerosis cases with rare disease

ICD10 code	Term	detected_sample
L60	Nail disorders	5
R56	Convulsions, not elsewhere classified	8
Y84	Other medical procedures as the cause of abnormal	10
F02	Dementia in other diseases classified elsewhere	3
U82	Resistance to betalactam antibiotics	6
N18	Chronic renal failure	8
M21	Other acquired deformities of limbs	6
S66	Injury of muscle and tendon at wrist and hand level	2
I12	Hypertensive renal disease	2
T83	Complications of genito-urinary prosthetic devices, i	10
S32	Fracture of lumbar spine and pelvis	4
H26	Other cataract	10
T82	Complications of cardiac and vascular prosthetic de	3
B34	Viral infection of unspecified site	4
Z90	Acquired absence of organs, not elsewhere classifie	2
G81	Hemiplegia	6
N28	Other disorders of kidney and ureter, not elsewhere	4
R33	Retention of urine	12
S61	Open wound of wrist and hand	3
K40	Inguinal hernia	5
H61	Other disorders of external ear	2
Y57	Other and unspecified drugs and medicaments	2
R31	Unspecified haematuria	9

-causing variants in the U.K. Biobank (shown statisticall significantly enrich

not_detected	sample	fraction	sample	detected	not_detected	fraction
48		0.094339622642	16		1781	0.00890372844
45		0.150943396226	78		1719	0.04340567613
43		0.188679245283	117		1680	0.06510851419
50		0.056603773585	10		1787	0.00556483027
47		0.11320754717	55		1742	0.0306065665
45		0.150943396226	101		1696	0.05620478575
47		0.11320754717	65		1732	0.03617139677
51		0.037735849057	5		1792	0.00278241514
51		0.037735849057	6		1791	0.00333889816
43		0.188679245283	152		1645	0.08458542014
49		0.075471698113	34		1763	0.01892042293
43		0.188679245283	154		1643	0.0856983862
50		0.056603773585	19		1778	0.01057317752
49		0.075471698113	35		1762	0.01947690595
51		0.037735849057	260		1537	0.14468558709
47		0.11320754717	78		1719	0.04340567613
49		0.075471698113	39		1758	0.02170283806
41		0.22641509434	220		1577	0.122426266
50		0.056603773585	23		1774	0.01279910963
48		0.094339622642	61		1736	0.03394546466
51		0.037735849057	10		1787	0.00556483027
51		0.037735849057	10		1787	0.00556483027
44		0.169811320755	154		1643	0.0856983862

ed comorbidities only, $P < 0.05$)

odds_ratio	relative_risk	p_value
11.5950520833	10.5955188679	0.00022906623
3.91794871795	3.47750362845	0.00250240446
3.33929636255	2.89791969037	0.0025086769
10.722	10.1716981132	0.00518461676
4.04332688588	3.69879931389	0.00685879939
2.98525852585	2.68559686157	0.01074489336
3.40163666121	3.1297532656	0.01420023687
14.0549019608	13.5622641509	0.01542500983
11.7058823529	11.3018867925	0.02019200847
2.51682986536	2.23063555114	0.02146625665
4.23289315726	3.98890122087	0.02155264054
2.48112352764	2.20166625827	0.02223061686
5.61473684211	5.35352532274	0.02327256292
4.10962099125	3.87493261456	0.02351548513
0.23182503771	0.26081277213	0.02595892876
2.81342062193	2.60812772134	0.03030658346
3.67974882261	3.47750362845	0.03243804311
2.09800443459	1.84939965695	0.03350060938
4.62782608696	4.42247744053	0.03626027298
2.96448087432	2.77915248995	0.03788907352
7.00784313725	6.78113207547	0.0442375334
7.00784313725	6.78113207547	0.0442375334
2.1822609209	1.98149963244	0.04541439908

Table S8: Pathogenic and likely pathogenic variants identified

Chr	Pos	Ref	Alt	rsID	Gene Name
9	104800569	G	A	rs1285576587	ABCA1
9	104816274	C	A		ABCA1
12	51913720	G	T	rs1940756257	ACVRL1
11	22221101	-	A	rs137854521	ANO5
11	22236206	G	T	rs137854523	ANO5
11	22221101	-	A	rs137854521	ANO5
5	112835080	C	T	rs876659517	APC
5	112828889	C	T	rs137854573	APC
1	26773344	A	G	rs2124110093	ARID1A
17	65537837	T	C	rs775783026	AXIN2
3	52404500	A	C	rs200156887	BAP1
19	13285067	C	T	rs1315533129	CACNA1A
9	21974861	C	A	rs1800586	CDKN2A
9	134806271	G	C	rs926426117	COL5A1
1	15443552	TG	-	rs2103291536	CTRC
1	15445606	G	A	rs202058123	CTRC
1	15442573	G	A	rs151102347	CTRC
7	74054770	G	A	rs727503030	ELN

7	74054770	G	A	rs727503030	ELN
7	74065692	A	C	rs1440841207	ELN
17	17216395	-	G	rs80338682	FLCN
17	17216395	-	G	rs80338682	FLCN
11	119091414	G	A	rs118204095	HMBS
11	119091528	T	A		HMBS
11	119091446	G	A	rs536814318	HMBS
11	119091515	C	T	rs118204109	HMBS
12	49044000	T	C	rs1193076988	KMT2D
15	23645447	G	A	rs1249139977	MAGEL2
7	157005747	C	A	rs761778005	MNX1
1	160355662	C	T		NCSTN
10	102401520	T	G		NFKB2
1	247424765	C	T	rs121908146	NLRP3
12	102843706	G	A	rs62642937	PAH
12	102851701	C	A	rs5030853	PAH
17	60663320	-	C	rs767459116	PPM1D
12	112489047	C	T	rs397507539	PTPN11
12	112472981	G	A	rs376607329	PTPN11
12	112489048	C	T	rs397507540	PTPN11
12	112472981	G	A	rs376607329	PTPN11
10	43120144	T	G	rs75234356	RET

10	43114598	G	C	rs146646971	RET
10	43114598	G	C	rs146646971	RET
2	44281423	C	T	rs369641941	SLC3A1
2	44286074	C	T	rs200483989	SLC3A1
5	1212338	G	A	rs121434346	SLC6A19
5	1213574	G	T	rs554777392	SLC6A19
9	92068095	A	T	rs119482083	SPTLC1
14	24240541	T	-	?	TINF2
17	16948923	A	T	rs72553877	TNFRSF13B
17	16940445	A	C	rs143027621	TNFRSF13B
17	16948979	-	T	rs72553875	TNFRSF13B
17	16948923	A	T	rs72553877	TNFRSF13B
17	16948923	A	T	rs72553877	TNFRSF13B
17	16939652	C	T	rs1473965551	TNFRSF13B
17	16940445	A	C	rs143027621	TNFRSF13B
17	16948900	G	A	rs549493928	TNFRSF13B
17	16948923	A	T	rs72553877	TNFRSF13B

17	16948979	-	T	rs72553875	TNFRSF13B
17	16940378	G	T	rs72553885	TNFRSF13B
17	16948979	-	T	rs72553875	TNFRSF13B
17	16948979	-	T	rs72553875	TNFRSF13B
17	16948947	T	C	rs72553876	TNFRSF13B
17	16948947	T	C	rs72553876	TNFRSF13B
17	16948872	C	T	rs72553879	TNFRSF13B
17	16948923	A	T	rs72553877	TNFRSF13B
17	16948923	A	T	rs72553877	TNFRSF13B
17	16948947	T	C	rs72553876	TNFRSF13B
17	16940465	G	C	rs72553882	TNFRSF13B
17	16939723	C	A	rs201021960	TNFRSF13B
17	16948947	T	C	rs72553876	TNFRSF13B
17	16948947	T	C	rs72553876	TNFRSF13B
17	16948979	-	T	rs72553875	TNFRSF13B
17	16940445	A	C	rs143027621	TNFRSF13B
12	6334161	A	C	rs104895271	TNFRSF1A
12	6334161	A	C	rs104895271	TNFRSF1A

12	6334161	A	C	rs104895271	TNFRSF1A

12	6334161	A	C	rs104895271	TNFRSF1A

12	6334161	A	C	rs104895271	TNFRSF1A

12	6334161	A	C	rs104895271	TNFRSF1A

12	6334161	A	C	rs104895271	TNFRSF1A

ied in monogenic disease genes in inflammatory bowel disease cases in the U

HGVS c. (Clinically relevant)	HGVS p. (Clinically relevant)
NM_005502.4:c.4714C>T	NP_005493.2:p.Arg1572Ter
NM_005502.4:c.3607G>T	NP_005493.2:p.Glu1203Ter
NM_000020.3:c.475G>T	NP_000011.2:p.Glu159Ter
NM_213599.3:c.191dupA	NP_998764.1:p.Asn64Lysfs*15/p.Gly231Val
NM_213599.3:c.692G>T	NP_998764.1:p.Gly231Val
NM_213599.3:c.191dupA	NP_998764.1:p.Asn64Lysfs*15
NM_000038.6:c.1873C>T	NP_000029.2:p.Gln625Ter
NM_000038.6:c.1660C>T	NP_000029.2:p.Arg554Ter
NM_006015.6:c.3716-2A>G	
NM_004655.4:c.1201-2A>G	
NM_004656.4:c.1203T>G	NP_004647.1:p.Tyr401Ter
NM_001127221.2:c.3695+1G>A	
NM_058195.4:c.194-3653G>T	
NM_000093.5:c.3341G>C	NP_000084.3:p.Gly1114Ala
NM_007272.3:c.490_491delTG	NP_009203.2:p.Trp164Aspfs*7
NM_007272.3:c.649G>A	NP_009203.2:p.Gly217Ser
NM_007272.3:c.356+1G>A	
NM_000501.4:c.1150+1G>A	

NM_000501.4:c.1150+1G>A

NM_000501.4:c.1994-2A>C

NM_144997.7:c.1285dupC

NM_144997.7:c.1285dupC

NM_000190.4:c.500G>A

NM_000190.4:c.612+2T>A

NM_000190.4:c.532G>A

NM_000190.4:c.601C>T

NM_003482.4:c.5189-2A>G

NM_019066.5:c.2296C>T

NM_005515.4:c.979G>T

NM_015331.3:c.1360C>T

NM_001077494.3:c.2293+2T>G

NM_004895.5:c.1322C>T

NP_659434.2:p.His429Profs*27

NP_659434.2:p.His429Profs*27

NP_000181.2:p.Arg167Gln

NP_000181.2:p.Asp178Asn

NP_000181.2:p.Arg201Trp

NP_061939.3:p.Arg766Ter

NP_005506.3:p.Glu327Ter

NP_056146.1:p.Gln454Ter

NP_004886.3:p.Ala441Val

NM_000277.3:c.1139C>T

NM_000277.3:c.898G>T

NM_003620.4:c.1589dupC

NP_000268.1:p.Thr380Met

NP_000268.1:p.Ala300Ser

NP_003611.1:p.Pro531Serfs*5

NM_002834.5:c.1471C>T

NM_002834.5:c.794G>A

NP_002825.3:p.Pro491Ser

NP_002825.3:p.Arg265Gln

NM_002834.5:c.1472C>T

NM_002834.5:c.794G>A

NP_002825.3:p.Pro491Leu

NP_002825.3:p.Arg265Gln

NM_020975.6:c.2671T>G

NP_066124.1:p.Ser891Ala

NM_020975.6:c.1998G>C	NP_066124.1:p.Lys666Asn
NM_020975.6:c.1998G>C	NP_066124.1:p.Lys666Asn
NM_000341.4:c.647C>T	NP_000332.2:p.Thr216Met
NM_000341.4:c.808C>T	NP_000332.2:p.Arg270Ter
NM_001003841.3:c.517G>A	NP_001003841.1:p.Asp173Asn
NM_001003841.3:c.774+1G>T	
NM_006415.4:c.431T>A	NP_006406.1:p.Val144Asp
NM_001099274.3:c.939delA	NP_001092744.1:p.Ala314Glnfs*3
NM_012452.3:c.260T>A	NP_036584.1:p.Ile87Asn
NM_012452.3:c.512T>G	NP_036584.1:p.Leu171Arg
NM_012452.3:c.204dupA	NP_036584.1:p.Leu69Thrfs*12
NM_012452.3:c.260T>A	NP_036584.1:p.Ile87Asn
NM_012452.3:c.260T>A	NP_036584.1:p.Ile87Asn
NM_012452.3:c.777G>A	NP_036584.1:p.Trp259Ter
NM_012452.3:c.512T>G	NP_036584.1:p.Leu171Arg
NM_012452.3:c.283C>T	NP_036584.1:p.Gln95Ter
NM_012452.3:c.260T>A	NP_036584.1:p.Ile87Asn

NM_012452.3:c.204dupA	NP_036584.1:p.Leu69Thrfs*12
NM_012452.3:c.579C>A	NP_036584.1:p.Cys193Ter
NM_012452.3:c.204dupA	NP_036584.1:p.Leu69Thrfs*12
NM_012452.3:c.204dupA	NP_036584.1:p.Leu69Thrfs*12
NM_012452.3:c.236A>G	NP_036584.1:p.Tyr79Cys
NM_012452.3:c.236A>G	NP_036584.1:p.Tyr79Cys
NM_012452.3:c.311G>A	NP_036584.1:p.Cys104Tyr
NM_012452.3:c.260T>A	NP_036584.1:p.Ile87Asn
NM_012452.3:c.260T>A	NP_036584.1:p.Ile87Asn
NM_012452.3:c.236A>G	NP_036584.1:p.Tyr79Cys
NM_012452.3:c.492C>G	NP_036584.1:p.Tyr164Ter
NM_012452.3:c.706G>T	NP_036584.1:p.Glu236Ter
NM_012452.3:c.236A>G	NP_036584.1:p.Tyr79Cys
NM_012452.3:c.236A>G	NP_036584.1:p.Tyr79Cys
NM_012452.3:c.204dupA	NP_036584.1:p.Leu69Thrfs*12
NM_012452.3:c.512T>G	NP_036584.1:p.Leu171Arg
NM_001065.4:c.123T>G	NP_001056.1:p.Asp41Glu
NM_001065.4:c.123T>G	NP_001056.1:p.Asp41Glu

NM_001065.4:c.123T>G

NP_001056.1:p.Asp41Glu

NM_001065.4:c.123T>G

NP_001056.1:p.Asp41Glu

NM_001065.4:c.123T>G

NP_001056.1:p.Asp41Glu

NM_001065.4:c.123T>G

NP_001056.1:p.Asp41Glu

NM_001065.4:c.123T>G

NP_001056.1:p.Asp41Glu

.K. Biobank	
Effect (Combined)	AF (gnomAD v4.0.0, includes UK Biobank)
Stop gained	0.000004789
Stop gained	6.84E-07
Stop gained	0.00000137
Frameshift	
Missense	
Frameshift	
Stop gained	0.0000012
Stop gained	0.000001201
Splice site	0.000008482
Splice site	0.000007107
Stop gained	0.00006133
Splice site	0.000001368
Intron variant	0.00006029
Missense	0.00002517
Frameshift	0.00001095
Missense	0.00004398
Splice site	0.00002664
Splice site	0.0001152

Splice site	0.0001152
Splice site	0.000001241
Frameshift	0.00006884
Frameshift	0.00006884
Missense	0.00007028
Splice site	NA
Missense	0.0001882
Missense	0.00001677
Splice site	0.000007526
Stop gained	0.00001549
Stop gained	0.000002059
Stop gained	0.000002403
Splice site	6.85E-07
Missense	0.000002055
Missense	0.0003861
Missense	0.0003953
Frameshift	0.000001239
Missense	0.000001368
Missense	0.0000186
Missense	0.000002401
Missense	0.0000186
Missense	0.000008675

Missense	0.00000558
Missense	0.00000558
Missense	0.00007998

Stop gained	0.0001859
Missense	0.003104

Splice site	0.00002808
Missense	0.00001301
Frameshift	0.0000012

Missense	0.0004776

Missense	0.0001722

Frameshift	0.0003457

Missense	0.0004776

Missense	0.0004776

Stop gained	0.000002401

Missense	0.0001722

Stop gained	0.000007525

Missense	0.0004776

Frameshift	0.0003457
Stop gained	0.00004213
Frameshift	0.0003457
Frameshift	0.0003457
Missense	0.0002701
Missense	0.0002701
Missense	0.0001512
Missense	0.0004776
Missense	0.0004776
Missense	0.0002701
Stop gained	0.00009667
Stop gained	0.00007224
Missense	0.0002701
Missense	0.0002701
Frameshift	0.0003457
Missense	0.0001722
Missense	0.0002763
Missense	0.0002763

Missense 0.0002763

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Missense 0.0002763

Missense 0.0002763

Disorder

Tangier disease

Tangier disease

Telangiectasia hereditary hemorrhagic type 2

Gnathodiaphyseal dysplasia, Miyoshi muscular dystrophy 3, muscular dystrophy limb-girdle autosomal recessive 12

Miyoshi muscular dystrophy 3, muscular dystrophy limb-girdle autosomal recessive 12

Gnathodiaphyseal dysplasia, Miyoshi muscular dystrophy 3, muscular dystrophy limb-girdle autosomal recessive 12

Adenoma periampullary somatic, adenomatous polyposis coli, brain tumor-polyposis syndrome 2, colorectal cancer somatic, desmoid disease hereditary, Gardner syndrome, gastric adenocarcinoma and proximal polyposis of the stomach, gastric cancer somatic, hepatoblastoma somatic

Adenoma periampullary somatic, adenomatous polyposis coli, brain tumor-polyposis syndrome 2, colorectal cancer somatic, desmoid disease hereditary, Gardner syndrome, gastric adenocarcinoma and proximal polyposis of the stomach, gastric cancer somatic, hepatoblastoma somatic

Coffin-Siris syndrome 2

Oligodontia-colorectal cancer syndrome

Tumor predisposition syndrome

Episodic ataxia type 2

Melanoma and neural system tumor syndrome, melanoma cutaneous malignant 2, melanoma-pancreatic cancer syndrome

Ehlers-Danlos syndrome classic type 1, fibromuscular dysplasia multifocal

Hereditary pancreatitis

Hereditary pancreatitis

Hereditary pancreatitis

Cutis laxa autosomal dominant, supraaortic stenosis

Cutis laxa autosomal dominant, supralvalvar aortic stenosis

Cutis laxa autosomal dominant, supralvalvar aortic stenosis

Birt-Hogg-Dube syndrome

Birt-Hogg-Dube syndrome

Porphyria acute intermittent, porphyria acute intermittent nonerythroid variant

Porphyria acute intermittent, porphyria acute intermittent nonerythroid variant

Porphyria acute intermittent, porphyria acute intermittent nonerythroid variant

Porphyria acute intermittent, porphyria acute intermittent nonerythroid variant

Kabuki syndrome 1

Schaaf-Yang syndrome

Currarino syndrome

Hidradenitis suppurativa

Immunodeficiency common variable 10

CINCA syndrome, deafness autosomal dominant 34 with or without inflammation, familial cold inflammatory syndrome 1, keratoendothelitis fugax hereditaria,

Muckle-Wells syndrome

Phenylketonuria, hyperphenylalaninemia non-PKU mild

Phenylketonuria, hyperphenylalaninemia non-PKU mild

Jansen de Vries syndrome

LEOPARD syndrome 1, leukemia juvenile myelomonocytic somatic, metachondromatosis, Noonan syndrome 1

LEOPARD syndrome 1, leukemia juvenile myelomonocytic somatic, metachondromatosis, Noonan syndrome 1

LEOPARD syndrome 1, leukemia juvenile myelomonocytic somatic, metachondromatosis, Noonan syndrome 1

LEOPARD syndrome 1, leukemia juvenile myelomonocytic somatic, metachondromatosis, Noonan syndrome 1

Hereditary cancer-predisposing syndrome

Hereditary cancer-predisposing syndrome
Hereditary cancer-predisposing syndrome
Cystinuria

Cystinuria
Hartnup disorder

Hartnup disorder
Neuropathy hereditary sensory and autonomic type IA
Dyskeratosis congenita autosomal dominant 3, Revesz
syndrome

Immunodeficiency common variable 2, immunoglobulin
A deficiency 2

Immunodeficiency common variable 2, immunoglobulin
A deficiency 2
Immunodeficiency common variable 2, immunoglobulin
A deficiency 2

Immunodeficiency common variable 2, immunoglobulin
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Immunodeficiency common variable 2, immunoglobulin
A deficiency 2
Familial periodic fever

Familial periodic fever

Familial periodic fever

Familial periodic fever

Familial periodic fever

Familial periodic fever

Familial periodic fever

Disorder Category	Disorder Inheritance	Classification
Metabolic Disorder	Autosomal recessive	Likely Pathogenic
Metabolic Disorder	Autosomal recessive	Likely Pathogenic
Vascular Disorder	Autosomal dominant	Pathogenic
Neurologic and Neuromuscular Disorder	Autosomal recessive	Pathogenic
Neurologic and Neuromuscular Disorder	Autosomal recessive	Pathogenic
Neurologic and Neuromuscular Disorder	Autosomal recessive	Pathogenic
Tumor Syndrome	Autosomal dominant	Pathogenic
Tumor Syndrome	Autosomal dominant	Pathogenic
Genetic Syndrome	Autosomal dominant	Likely Pathogenic
Tumor Syndrome	Autosomal dominant	Likely Pathogenic
Tumor Syndrome	Autosomal dominant	Likely Pathogenic
Neurologic and Neuromuscular Disorder	Autosomal dominant	Pathogenic
Tumor Syndrome	Autosomal dominant	Pathogenic
Connective Tissue Disorder	Autosomal dominant	Likely Pathogenic
Gastroenterologic Disorder	Autosomal dominant	Likely Pathogenic
Gastroenterologic Disorder	Autosomal dominant	Likely Pathogenic
Gastroenterologic Disorder	Autosomal dominant	Likely Pathogenic
Connective Tissue Disorder	Autosomal dominant	Likely Pathogenic

Connective Tissue Disorder	Autosomal dominant	Likely Pathogenic
Connective Tissue Disorder	Autosomal dominant	Likely Pathogenic
Tumor Syndrome	Autosomal dominant	Pathogenic
Tumor Syndrome	Autosomal dominant	Pathogenic
Metabolic Disorder	Autosomal dominant	Pathogenic
Metabolic Disorder	Autosomal dominant	Likely Pathogenic
Metabolic Disorder	Autosomal dominant	Pathogenic
Metabolic Disorder	Autosomal dominant	Pathogenic
Genetic Syndrome	Autosomal dominant	Likely Pathogenic
Genetic Syndrome	Autosomal dominant	Likely Pathogenic
Genetic Syndrome	Autosomal dominant	Likely Pathogenic
Dermatologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Pathogenic
Metabolic Disorder	Autosomal recessive	Pathogenic
Metabolic Disorder	Autosomal recessive	Pathogenic
Genetic Syndrome	Autosomal dominant	Likely Pathogenic
Genetic Syndrome	Autosomal dominant	Pathogenic
Genetic Syndrome	Autosomal dominant	Pathogenic
Genetic Syndrome	Autosomal dominant	Pathogenic
Genetic Syndrome	Autosomal dominant	Pathogenic
Tumor Syndrome	Autosomal dominant	Pathogenic

Tumor Syndrome	Autosomal dominant	Pathogenic
Tumor Syndrome	Autosomal dominant	Pathogenic
Metabolic Disorder	Autosomal recessive	Pathogenic
Metabolic Disorder	Autosomal recessive	Likely Pathogenic
Metabolic Disorder	Autosomal recessive	Pathogenic
Metabolic Disorder	Autosomal recessive	Likely Pathogenic
Neurologic and Neuromuscular Disorder	Autosomal dominant	Likely Pathogenic
Dermatologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic

Haematologic and Immunologic Disorder	Autosomal dominant	Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Pathogenic
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Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic
Haematologic and Immunologic Disorder	Autosomal dominant	Likely Pathogenic

Haematologic and Immunologic Disorder

Autosomal dominant

Likely Pathogenic

Haematologic and Immunologic Disorder

Autosomal dominant

Likely Pathogenic

Haematologic and Immunologic Disorder

Autosomal dominant

Likely Pathogenic

Haematologic and Immunologic Disorder

Autosomal dominant

Likely Pathogenic

Haematologic and Immunologic Disorder

Autosomal dominant

Likely Pathogenic

Zygoty	Subject
Heterozygous	UKB-IBD-001
Heterozygous	UKB-IBD-001
Heterozygous	UKB-IBD-002
Homozygous	UKB-IBD-003
Heterozygous	UKB-IBD-004
Heterozygous	UKB-IBD-004
Heterozygous	UKB-IBD-005
Heterozygous	UKB-IBD-006
Heterozygous	UKB-IBD-007
Heterozygous	UKB-IBD-008
Heterozygous	UKB-IBD-009
Heterozygous	UKB-IBD-010
Heterozygous	UKB-IBD-011
Heterozygous	UKB-IBD-012
Heterozygous	UKB-IBD-013
Heterozygous	UKB-IBD-014
Heterozygous	UKB-IBD-015
Heterozygous	UKB-IBD-016

Heterozygous	UKB-IBD-017
Heterozygous	UKB-IBD-018
Heterozygous	UKB-IBD-019
Heterozygous	UKB-IBD-020
Heterozygous	UKB-IBD-021
Heterozygous	UKB-IBD-022
Heterozygous	UKB-IBD-023
Heterozygous	UKB-IBD-024
Heterozygous	UKB-IBD-025
Heterozygous	UKB-IBD-026
Heterozygous	UKB-IBD-027
Heterozygous	UKB-IBD-028
Heterozygous	UKB-IBD-029
Heterozygous	UKB-IBD-030
Heterozygous	UKB-IBD-031
Heterozygous	UKB-IBD-031
Heterozygous	UKB-IBD-032
Heterozygous	UKB-IBD-033
Heterozygous	UKB-IBD-034
Heterozygous	UKB-IBD-035
Heterozygous	UKB-IBD-036
Heterozygous	UKB-IBD-037

Heterozygous UKB-IBD-038
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Heterozygous UKB-IBD-043

Heterozygous UKB-IBD-044

Heterozygous UKB-IBD-045

Heterozygous UKB-IBD-046

Heterozygous UKB-IBD-047

Heterozygous UKB-IBD-048

Heterozygous UKB-IBD-049

Heterozygous UKB-IBD-050

Heterozygous UKB-IBD-051

Heterozygous UKB-IBD-052

Heterozygous UKB-IBD-053

Heterozygous UKB-IBD-054

Heterozygous UKB-IBD-055

Heterozygous UKB-IBD-056

Heterozygous UKB-IBD-057

Heterozygous UKB-IBD-058

Heterozygous UKB-IBD-059

Heterozygous UKB-IBD-060

Heterozygous UKB-IBD-061

Heterozygous UKB-IBD-062

Heterozygous UKB-IBD-063

Heterozygous UKB-IBD-064

Heterozygous UKB-IBD-065

Heterozygous UKB-IBD-066

Heterozygous UKB-IBD-067

Heterozygous UKB-IBD-068

Heterozygous UKB-IBD-069

Heterozygous UKB-IBD-070

Heterozygous UKB-IBD-071

Heterozygous UKB-IBD-072

Heterozygous UKB-IBD-073

Heterozygous UKB-IBD-074

Heterozygous UKB-IBD-075

Symptoms related to the rare disease derived from UK Biobank inpatient health records (HESIN DIAG)

Hereditary hemorrhagic telangiectasia diagnosed at 69 yo, while Crohn's at 60 yo

Adenomatous polyposis coli at 50 yo, Benign neoplasm of stomach, Benign neoplasm of rectum

Personal history of malignant neoplasm of digestive organs, Benign neoplasm of stomach, Benign neoplasm of rectum, Family history of malignant neoplasm of digestive organs

Benign neoplasm of stomach, Malignant neoplasm of lower lobe, bronchus or lung
Carcinoma in situ of other and unspecified genital organs, Malignant neoplasm of prostate
Dizziness, giddiness, nystagmus, abnormalities of gait and mobility

Fracture of shaft of fibula unspecified, Rotator cuff tear or rupture, not specified as traumatic, nonrheumatic mitral (valve) insufficiency, inguinal hernia, Giant cell arteritis
Benign neoplasm of colon, rectum, anus and anal canal

Benign neoplasm of cecum
Hyperparathyroidism and other disorders of parathyroid gland, Tinnitus unspecified ear

Acute tubulo-interstitial nephritis, Unspecified nephritic syndrome, Chronic nephritic syndrome, Dysphagia, unspecified
Acute tubulo-interstitial nephritis, Unspecified nephritic syndrome, Chronic nephritic syndrome, Dysphagia, unspecified
Corns and callosities, Melanocytic naevi
Benign neoplasm of colon, rectum, anus and anal canal
Essential (primary) hypertension, Other chronic obstructive pulmonary disease, asthma
Asthma

Essential (primary) hypertension, Other chronic obstructive pulmonary disease, Asthma, Rheumatoid lung disease
Essential (primary) hypertension, Atrial fibrillation and flutter

Autoimmune disorders associated with Kabuki Syndrome PMID 35058929
Remove, paternal inheritance only?

Arthropathic psoriasis
Atopic dermatitis, Infective dermatitis, Streptococcus and staphylococcus as the cause of diseases classified to other chapters
Rash and other nonspecific skin eruption, Cellulitis, Dermatitis, Chronic renal failure, Acute renal failure, rheumatoid arthritis, septicaemia, Transient cerebral ischaemic attacks and related syndromes, Abnormalities of gait and mobility
Abnormal results of liver function studies, Cramp and spasm, dermatitis

Major depressive disorder, Gastro-oesophageal reflux disease, Gastritis and duodenitis, Cholangitis, Hearing loss, Acute kidney failure, unspecified, Gout, Other spondylopathies, Fibrothorax, Other dermatitis, Abnormal results of liver function studies
height:158cm, Left ventricular failure, unspecified, Congestive heart failure, Other arthrosis, Cellulitis and acute lymphangitis of other parts of limb, Ulcer of lower limb, Major depressive disorder
height:169cm, Ventricular premature depolarization, Other and unspecified right bundle-branch block, Essential (primary) hypertension, Chronic kidney disease, stage 4 (severe), Psoriatic and enteropathic arthropathies, asthma, Anxiety disorder, Melanoma in situ, Malignant neoplasm of prostate, Disturbances of skin sensation
height:164cm, Atrial premature depolarization, asthma,

height:167cm, Nonrheumatic aortic (valve) insufficiency, Left ventricular failure, unspecified, Thoracic aortic aneurysm, without rupture, without rupture, Atrial premature depolarization, Left bundle-branch, block, unspecified, Megacolon, not elsewhere classified, Acute kidney failure, unspecified, Polyarthrosis, Other dermatitis

Cystinuria diagnosed at 66 yo, Calculus of kidney and ureter, Tubulointerstitial nephritis not specified as acute or chronic, Chronic renal failure

Purpura and other haemorrhagic conditions, Gastritis and duodenitis, Orchitis and epididymitis, Lichen simplex chronicus and prurigo, Skin changes due to chronic exposure to nonionising radiation, Pruritus, Psoriasis, Epilepsy

Pain not elsewhere classified at 47yo, Myalgia

Tinea unguium, Superficial mycosis unspecified, Unspecified hearing loss bilateral, Spondylosis without myelopathy or radiculopathy, Other disorders of skin and subcutaneous tissue, actinic keratosis

Unspecified acute lower respiratory infection, Viral pneumonia not elsewhere classified, Gout, Neoplasm of uncertain or unknown behaviour of urinary organs, Malignant neoplasm of bladder
Candidiasis unspecified, Otitis externa, Suppurative and unspecified otitis media,

Acute upper respiratory infections of multiple and unspecified sites, Chronic sinusitis, Cellulitis, Other dermatitis, Other malignant neoplasms of skin

Nonsuppurative otitis media, Otitis externa, Suppurative and unspecified otitis media, Unspecified acute lower respiratory infection, Other dermatitis,

Infectious gastroenteritis and colitis unspecified, Unspecified acute lower respiratory infection, Asthma, Other arthritis, Cellulitis, Seborrhoeic dermatitis, Other dermatitis, Malignant neoplasm of liver and intrahepatic bile ducts

Viral and other specified intestinal infections, Otitis externa, Suppurative and unspecified otitis media, Pneumonia organism unspecified, Unspecified acute lower respiratory infection, Other arthritis, Other rheumatoid arthritis, Polymyalgia rheumatica, Synovitis and tenosynovitis, Gout, Cellulitis, Other dermatitis, Psoriasis

Infectious gastroenteritis and colitis unspecified, Asthma, Pleural effusion not elsewhere classified, Synovitis and tenosynovitis, Malignant neoplasm of colon, Malignant neoplasm of prostate

Infectious gastroenteritis and colitis unspecified, Conjunctivitis, Unspecified acute lower respiratory infection, Other female pelvic inflammatory diseases, Sjogren syndrome, Synovitis and tenosynovitis, Other dermatitis

Other bacterial agents as the cause of diseases classified elsewhere, Sarcoidosis, Conjunctivitis, Other arthritis, Acute lymphadenitis, Malignant neoplasm of other and unspecified parts of biliary tract, Secondary malignant neoplasm of respiratory and digestive organs

Infectious gastroenteritis and colitis unspecified, Nonsuppurative otitis media, Cystitis, Unspecified acute lower respiratory infection, Other chronic obstructive pulmonary disease, Chronic sinusitis, Other arthritis, Other dermatitis, Other malignant neoplasms of skin
Infectious gastroenteritis and colitis unspecified, Other septicaemia, Otitis externa, Conjunctivitis, Pneumonia organism unspecified, Unspecified acute lower respiratory infection, Other chronic obstructive pulmonary disease, Acute bronchitis, Unspecified chronic bronchitis, Asthma, Cellulitis
Acute bronchitis, Gout,

Dermatophytosis, Impetigo, Otitis externa, Conjunctivitis, Malignant neoplasm of prostate, Other neoplasms of uncertain or unknown behaviour of lymphoid, haematopoietic and related tissue

Other immunodeficiencies, Other chronic obstructive pulmonary disease

Otitis externa, Unspecified acute lower respiratory infection

Infectious gastroenteritis and colitis unspecified, Other chronic obstructive pulmonary disease, Other dermatitis,
Iridocyclitis, Seborrhoeic dermatitis,

Infectious gastroenteritis and colitis unspecified, Chronic sinusitis

Unspecified acute lower respiratory infection, Acute bronchitis, Other dermatitis, Atopic dermatitis, Other malignant neoplasms of skin
Pneumonia organism unspecified, Unspecified acute lower respiratory infection, Gout, Cellulitis, Psoriasis
Bacterial infection of unspecified site, Conjunctivitis

Diarrhoea and gastro-enteritis of presumed infectious origin, Chronic sinusitis, Other arthritis, Other inflammatory spondylopathies, Impetigo, Psoriasis

Infectious gastroenteritis and colitis unspecified, Pneumonia organism unspecified, Bacterial pneumonia not elsewhere classified, Unspecified acute lower respiratory infection, Chronic sinusitis, Cellulitis
Dermatophytosis, Candidiasis, Suppurative and unspecified otitis media, Reactive arthropathies, Psoriatic and enteropathic arthropathies,
Unspecified acute lower respiratory infection, Other coagulation defects
Other female pelvic inflammatory diseases, Other dermatitis, Malignant neoplasm of anus and anal canal
Candidiasis, Dermatophytosis, Urticaria, Other dermatitis, Systemic sclerosis, Other enthesopathies, Other spondylopathies, Otagia and effusion of ear, Acute vaginitis, Acute tonsillitis, Pneumonia organism unspecified, Unspecified acute lower respiratory infection
Candidiasis, Dermatophytosis, Synovitis and tenosynovitis, Other joint disorders not elsewhere classified, Otitis externa, Hordeolum and chalazion, Cystitis, Pneumonia organism unspecified, Unspecified acute lower respiratory infection

Candidiasis, Dorsalgia, Spondylosis, Shoulder lesions, Other joint disorders not elsewhere classified, Suppurative and unspecified otitis media, Acute upper respiratory infections of multiple and unspecified sites, Asthma, Bronchiectasis, Other chronic obstructive pulmonary disease

Candidiasis, Other bacterial intestinal infections, Dorsalgia, Acute upper respiratory infections of multiple and unspecified sites
Acquired deformities of fingers and toes, Other joint disorders not elsewhere classified, Pain in throat and chest, Abdominal and pelvic pain

Dermatophytosis, Other viral infections of central nervous system, Diarrhoea and gastro-enteritis of presumed infectious origin, Other enthesopathies, Other arthritis, Other joint disorders not elsewhere classified, Internal derangement of knee, Suppurative and unspecified otitis media, Conjunctivitis, Acute sinusitis, Acute bronchitis, Chronic sinusitis

Dermatophytosis, Diarrhoea and gastro-enteritis of presumed infectious origin, Dorsalgia, Otitis externa, Orchitis and epididymitis, Other respiratory disorders, Acute bronchitis

PubMed ID

9245985

26810512, 25864073, 27142102, 26911675, 27708273, 24022920, 24843231, 23530687, 24232312, 21739273, 23607914, 22336395, 20096397, 23041008, 21186264, 26886200, 26913919, 30564623, 29794579, 30919934, 31395899, 31862442, 32403337, 31980526, 32399949, 31127727, 25891276, 34313030, 33837115, 23606453, 34106991, 31589614, 29417091, 32367299, 33258288, 25214167, 32819793, 33726816, 32528171, 32925086

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11242114, 19132419, 24673574, 25584079, 26681808

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16007086, 26100089, 18981294, 27123465, 17392798, 26046366, 22884984

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Table S9: Pathogenic and likely pathogenic variants identif

Chr	Pos	Ref	Alt	rsID	Gene Name
15	67236060	G	A	rs200564757	AAGAB
10	104037688	G	A	rs760714959	COL17A1
9	134795057	T	G	rs765079080	COL5A1
2	189057319	C	A	rs1685921711	COL5A2
17	17213816	G	A	rs879255683	FLCN
1	152312601	ACTG	-	rs558269137	FLG
1	152313385	G	A	rs61816761	FLG
1	152312601	ACTG	-	rs558269137	FLG
1	152307547	G	A	rs138726443	FLG
1	152312601	ACTG	-	rs558269137	FLG
1	152313385	G	A	rs61816761	FLG
1	152312601	ACTG	-	rs558269137	FLG
1	152313385	G	A	rs61816761	FLG
1	152305146	G	T	rs150597413	FLG
1	152313385	G	A	rs61816761	FLG
1	152313385	G	A	rs61816761	FLG
1	152315363	C	A	rs114733570	FLG
X	154552187	G	A	rs782604431	IKBKG
17	41586482	G	A	rs1064794983	KRT14
3	69964940	G	A	rs149617956	MITF
3	69964940	G	A	rs149617956	MITF
3	69964940	G	A	rs149617956	MITF
3	69964940	G	A	rs149617956	MITF

3	69964940	G	A	rs149617956	MITF
15	89667089	C	T	rs1304148929	PLIN1
1	44822521	A	-		PTCH2
12	112450359	G	C	rs397507509	PTPN11
12	112472954	A	G	rs397507523	PTPN11
17	16940465	G	C	rs72553882	TNFRSF13B

ied in monogenic disease genes in atopic dermatitis cases in the U.K. E**HGVS c. (Clinically relevant) HGVS p. (Clinically relevant)**

NM_024666.4:c.370C>T
NM_000494.4:c.3156C>T
NM_000093.4:c.2701-25T>G

NP_078942.3:p.Arg124Ter
NP_000485.3:p.Gly1052=

NM_000393.5:c.2337+1G>T
NM_144997.7:c.1579C>T

NP_659434.2:p.Arg527Ter

NM_002016.1:c.2282_2285delCAGT
NM_002016.1:c.1501C>T
NM_002016.1:c.2282_2285delCAGT
NM_002016.1:c.7339C>T
NM_002016.1:c.2282_2285delCAGT
NM_002016.1:c.1501C>T
NM_002016.1:c.2282_2285delCAGT

NP_002007.1:p.Ser761Cysfs*36
NP_002007.1:p.Arg501Ter
NP_002007.1:p.Ser761Cysfs*36
NP_002007.1:p.Arg2447Ter
NP_002007.1:p.Ser761Cysfs*36
NP_002007.1:p.Arg501Ter
NP_002007.1:p.Ser761Cysfs*36

NM_002016.1:c.1501C>T
NM_002016.1:c.9740C>A

NP_002007.1:p.Arg501Ter
NP_002007.1:p.Ser3247Ter

NM_002016.1:c.1501C>T
NM_002016.1:c.1501C>T
NM_002016.1:c.94G>T
NM_003639.4:c.185G>A

NP_002007.1:p.Arg501Ter
NP_002007.1:p.Arg501Ter
NP_002007.1:p.Glu32Ter
NP_003630.1:p.Arg62Gln

NM_000526.5:c.353C>T

NP_000517.3:p.Thr118Ile

NM_000248.3:c.952G>A

NP_000239.1:p.Glu318Lys

NM_000248.3:c.952G>A

NP_000239.1:p.Glu318Lys

NM_000248.3:c.952G>A

NP_000239.1:p.Glu318Lys

NM_000248.3:c.952G>A

NP_000239.1:p.Glu318Lys

NM_000248.3:c.952G>A

NP_000239.1:p.Glu318Lys

NM_002666.5:c.1056G>A

NP_002657.3:p.Trp352Ter

NM_003738.5:c.3506delT

NP_003729.3:p.Leu1169Argfs

NM_002834.4:c.179G>C

NP_002825.3:p.Gly60Ala

NM_002834.4:c.767A>G

NP_002825.3:p.Gln256Arg

NM_012452.2:c.492C>G

NP_036584.1:p.Tyr164Ter

Biobank	
Effect (Combined)	AF (gnomAD v4.0.0, includes UK Biobank)
Stop gained	0.00007771
Synonymous variant	0.00001363
Intron variant	0.000002738
Splice site	0.01045
Stop gained	0.000007435
Frameshift	0.01897
Stop gained	0.01696
Frameshift	0.01897
Stop gained	0.00389
Frameshift	0.01897
Stop gained	0.01696
Frameshift	0.01897
Stop gained	0.01696
Stop gained	0.002793
Stop gained	0.01696
Stop gained	0.01696
Stop gained	0.0002752
Missense	0.0001451
Missense	0.00001859
Missense	0.002782
Missense	0.002782
Missense	0.002782
Missense	0.002782

Missense	0.002782

Stop gained Frameshift	0.00001301

Missense	6.20E-07

Missense	6.21E-07

Stop gained	0.00009667

Disorder

Keratoderma palmoplantar punctate type IA
Epithelial recurrent erosion dystrophy
Ehlers-Danlos syndrome

Ehlers-Danlos syndrome
Birt-Hogg-Dube syndrome

Ichthyosis vulgaris
Ichthyosis vulgaris
Ichthyosis vulgaris
Ichthyosis vulgaris
Ichthyosis vulgaris
Ichthyosis vulgaris
Ichthyosis vulgaris

Ichthyosis vulgaris
Ichthyosis vulgaris

Ichthyosis vulgaris
Ichthyosis vulgaris
Ichthyosis vulgaris
Immunodeficiency

Dermatopathia pigmentosa reticularis, Epidermolysis bullosa simplex Dowling-Meara type, Epidermolysis bullosa simplex Koebner type, Epidermolysis bullosa simplex recessive 1, Epidermolysis bullosa simplex Weber-Cockayne type, Naegeli-Franceschetti-Jadassohn syndrome
Melanoma cutaneous malignant susceptibility to 8, COMMAD syndrome, Tietz albinism-deafness syndrome, Waardenburg syndrome type 2A, Waardenburg syndrome/ocular albinism digenic
Melanoma cutaneous malignant susceptibility to 8, COMMAD syndrome, Tietz albinism-deafness syndrome, Waardenburg syndrome type 2A, Waardenburg syndrome/ocular albinism digenic
Melanoma cutaneous malignant susceptibility to 8, COMMAD syndrome, Tietz albinism-deafness syndrome, Waardenburg syndrome type 2A, Waardenburg syndrome/ocular albinism digenic
Melanoma cutaneous malignant susceptibility to 8, COMMAD syndrome, Tietz albinism-deafness syndrome, Waardenburg syndrome type 2A, Waardenburg syndrome/ocular albinism digenic

Melanoma cutaneous malignant susceptibility to 8,
COMMAD syndrome, Tietz albinism-deafness
syndrome, Waardenburg syndrome type 2A,
Waardenburg syndrome/ocular albinism digenic
Lipodystrophy familial partial type 4
Basal cell carcinoma somatic, Basal cell nevus
syndrome, Medulloblastoma somatic
LEOPARD syndrome/Noonan syndrome

LEOPARD syndrome/Noonan syndrome

Immunodeficiency common variable

Syndrome

Disorder Category

Dermatologic Disorder

Ophthalmologic Disorder

Connective Tissue Disorder

Connective Tissue Disorder

Tumor Syndrome

Dermatologic Disorder

Dermatologic Disorder

Dermatologic Disorder

Dermatologic Disorder

Dermatologic Disorder

Dermatologic Disorder

Dermatologic Disorder

Dermatologic Disorder

Dermatologic Disorder

Dermatologic Disorder

Dermatologic Disorder

Dermatologic Disorder

Haematologic and Immunologic Disorder

Dermatologic Disorder

Tumor Syndrome

Tumor Syndrome

Tumor Syndrome

Tumor Syndrome

Tumor Syndrome

Metabolic Disorder
Tumor Syndrome

Genetic Syndrome

Genetic Syndrome

Haematologic and Immunologic Disorder

[illegible]

	Likely Pathogenic	Heterozygous
Autosomal dominant	Likely Pathogenic	Heterozygous
Autosomal dominant	Likely Pathogenic	Heterozygous
Autosomal dominant	Pathogenic	Heterozygous
Autosomal dominant	Pathogenic	Heterozygous
Autosomal dominant/Autosomal recessive	Pathogenic	Heterozygous

Subject	Symptoms related to the rare disease derived from UK Biobank inpatient health records (HESIN DIAG)
UKB-ATD-001	
UKB-ATD-002	
UKB-ATD-003	Dislocation sprain and strain of joints and ligaments at wrist and hand level; Dislocation sprain and strain of joints and ligaments at ankle and foot level; Primary osteoarthritis ankle and foot.
UKB-ATD-004	
UKB-ATD-005	Other malignant neoplasms of skin; Benign neoplasm of transverse colon.
UKB-ATD-006	Unspecified asthma.
UKB-ATD-006	
UKB-ATD-007	
UKB-ATD-008	Allergic rhinitis due to pollen.
UKB-ATD-008	
UKB-ATD-009	
UKB-ATD-010	Unspecified asthma; Allergic rhinitis due to pollen, Acute atopic conjunctivitis.
UKB-ATD-011	Allergic rhinitis due to pollen.
UKB-ATD-012	Unspecified asthma; Allergic rhinitis due to pollen.
UKB-ATD-012	
UKB-ATD-013	
UKB-ATD-013	Unspecified asthma; Allergic rhinitis due to pollen.
UKB-ATD-014	Other infective otitis externa; Urinary tract infection site not specified; Unspecified noninfective gastroenteritis and colitis; Unspecified acute upper respiratory infection.
UKB-ATD-015	
UKB-ATD-016	
UKB-ATD-017	
UKB-ATD-018	Malignant neoplasm of upper lobe bronchus or lung;
UKB-ATD-019	

UKB-ATD-020

UKB-ATD-021

UKB-ATD-022 Neoplasm of uncertain behavior of brain, Leiomyoma of uterus

UKB-ATD-023 Short stature height (female, 148cm), cardiomyopathy, unspecified hearing loss, other abnormal auditory perceptions, repeated respiratory infections, fracture of forearm, depressive episodes.

UKB-ATD-024 Short stature height (male, 155cm), other congenital malformations of pulmonary valve, congenital malformations of aortic and mitral valves, repeated respiratory infections, fracture of foot except ankle, fracture of lumbar spine and pelvis, multiple myeloma and malignant plasma cell neoplasms.

UKB-ATD-025 Repeated infections.

PubMed ID

27400994, 23000146, 31526046
14562173, 2663347
9683580

15852235, 19802896, 29357828

16444271, 19538357, 19733298, 27363669, 27279822, 20573035
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12634870, 16358218, 18470943, 15985475, 15001945, 24451042, 29493581

27123465, 18981294

Table S10: Pathogenic and likely pathogenic variants identified in cases

Chr	Pos	Ref	Alt	Gene Name	HGVS c. (Clinically relevant)
7	140754190	T	C	BRAF	NM_004333.6:c.1738A>G
7	140777006	C	T	BRAF	NM_004333.6:c.1600G>A
7	140777006	C	T	BRAF	NM_004333.6:c.1600G>A
7	140801487	T	C	BRAF	NM_004333.6:c.785A>G
7	140801501	C	G	BRAF	NM_004333.6:c.771G>C
7	140801502	T	C	BRAF	NM_004333.6:c.770A>G
7	140801502	T	C	BRAF	NM_004333.6:c.770A>G
7	140801532	A	C	BRAF	NM_004333.6:c.740T>G
7	140801550	G	A	BRAF	NM_004333.6:c.722C>T
12	25209904	T	C	KRAS	NM_004985.5:c.458A>G
12	25227345	C	T	KRAS	NM_004985.5:c.179G>A
12	25227345	C	T	KRAS	NM_004985.5:c.179G>A
12	25227345	C	T	KRAS	NM_004985.5:c.179G>A
12	25227345	C	T	KRAS	NM_004985.5:c.179G>A
12	25227345	C	T	KRAS	NM_004985.5:c.179G>A
12	25245321	G	C	KRAS	NM_004985.5:c.64C>G
12	25245372	T	C	KRAS	NM_004985.5:c.13A>G
12	25245372	T	C	KRAS	NM_004985.5:c.13A>G
19	4110558	T	C	MAP2K2	NM_030662.4:c.401A>G
1	114713912	C	G	NRAS	NM_002524.5:c.178G>C
1	114713912	C	T	NRAS	NM_002524.5:c.178G>A
1	114713912	C	T	NRAS	NM_002524.5:c.178G>A
1	114716060	G	T	NRAS	NM_002524.5:c.101C>A
1	114716126	C	A	NRAS	NM_002524.5:c.35G>T
1	114716126	C	A	NRAS	NM_002524.5:c.35G>T
12	112419116	C	T	PTPN11	NM_002834.5:c.5C>T
12	112419116	C	T	PTPN11	NM_002834.5:c.5C>T
12	112419116	C	T	PTPN11	NM_002834.5:c.5C>T
12	112450346	A	G	PTPN11	NM_002834.5:c.166A>G
12	112450346	A	G	PTPN11	NM_002834.5:c.166A>G
12	112450346	A	G	PTPN11	NM_002834.5:c.166A>G
12	112450346	A	G	PTPN11	NM_002834.5:c.166A>G
12	112450359	G	A	PTPN11	NM_002834.5:c.179G>A
12	112450359	G	C	PTPN11	NM_002834.5:c.179G>C
12	112450361	G	A	PTPN11	NM_002834.5:c.181G>A
12	112450368	A	G	PTPN11	NM_002834.5:c.188A>G
12	112450368	A	G	PTPN11	NM_002834.5:c.188A>G
12	112450368	A	G	PTPN11	NM_002834.5:c.188A>G
12	112450368	A	G	PTPN11	NM_002834.5:c.188A>G
12	112450368	A	G	PTPN11	NM_002834.5:c.188A>G
12	112450389	A	G	PTPN11	NM_002834.5:c.209A>G
12	112450389	A	G	PTPN11	NM_002834.5:c.209A>G
12	112450391	T	C	PTPN11	NM_002834.5:c.211T>C
12	112450394	G	T	PTPN11	NM_002834.5:c.214G>T
12	112450397	A	G	PTPN11	NM_002834.5:c.217A>G
12	112450397	A	G	PTPN11	NM_002834.5:c.217A>G

12	112450408	G	C	PTPN11	NM_002834.5:c.228G>C
12	112450408	G	C	PTPN11	NM_002834.5:c.228G>C
12	112450416	A	C	PTPN11	NM_002834.5:c.236A>C
12	112450416	A	C	PTPN11	NM_002834.5:c.236A>C
12	112450416	A	G	PTPN11	NM_002834.5:c.236A>G
12	112450416	A	G	PTPN11	NM_002834.5:c.236A>G
12	112450417	G	C	PTPN11	NM_002834.5:c.237G>C
12	112450497	A	G	PTPN11	NM_002834.5:c.317A>G
12	112450497	A	G	PTPN11	NM_002834.5:c.317A>G
12	112450509	A	G	PTPN11	NM_002834.5:c.329A>G
12	112453279	G	C	PTPN11	NM_002834.5:c.417G>C
12	112454637	A	G	PTPN11	NM_002834.5:c.599A>G
12	112472954	A	G	PTPN11	NM_002834.5:c.767A>G
12	112472961	G	T	PTPN11	NM_002834.5:c.774G>T
12	112472968	C	T	PTPN11	NM_002834.5:c.781C>T
12	112472968	C	T	PTPN11	NM_002834.5:c.781C>T
12	112472968	C	T	PTPN11	NM_002834.5:c.781C>T
12	112472981	G	A	PTPN11	NM_002834.5:c.794G>A
12	112472981	G	A	PTPN11	NM_002834.5:c.794G>A
12	112472981	G	A	PTPN11	NM_002834.5:c.794G>A
12	112472981	G	A	PTPN11	NM_002834.5:c.794G>A
12	112472981	G	A	PTPN11	NM_002834.5:c.794G>A
12	112472981	G	A	PTPN11	NM_002834.5:c.794G>A
12	112472981	G	A	PTPN11	NM_002834.5:c.794G>A
12	112472981	G	A	PTPN11	NM_002834.5:c.794G>A
12	112472981	G	A	PTPN11	NM_002834.5:c.794G>A
12	112472981	G	A	PTPN11	NM_002834.5:c.794G>A
12	112472981	G	A	PTPN11	NM_002834.5:c.794G>A
12	112472989	G	A	PTPN11	NM_002834.5:c.802G>A
12	112472989	G	T	PTPN11	NM_002834.5:c.802G>T
12	112472989	G	T	PTPN11	NM_002834.5:c.802G>T
12	112473031	A	G	PTPN11	NM_002834.5:c.844A>G
12	112477652	T	A	PTPN11	NM_002834.5:c.855T>A
12	112477719	A	G	PTPN11	NM_002834.5:c.922A>G
12	112477719	A	G	PTPN11	NM_002834.5:c.922A>G
12	112477719	A	G	PTPN11	NM_002834.5:c.922A>G
12	112477719	A	G	PTPN11	NM_002834.5:c.922A>G
12	112477719	A	G	PTPN11	NM_002834.5:c.922A>G
12	112486532	G	C	PTPN11	NM_002834.5:c.1282G>C
12	112486532	G	C	PTPN11	NM_002834.5:c.1282G>C
12	112486532	G	T	PTPN11	NM_002834.5:c.1282G>T
12	112488466	C	T	PTPN11	NM_002834.5:c.1403C>T
12	112488466	C	T	PTPN11	NM_002834.5:c.1403C>T
12	112488466	C	T	PTPN11	NM_002834.5:c.1403C>T
12	112488466	C	T	PTPN11	NM_002834.5:c.1403C>T
12	112489047	C	A	PTPN11	NM_002834.5:c.1471C>A
12	112489047	C	G	PTPN11	NM_002834.5:c.1471C>G
12	112489047	C	T	PTPN11	NM_002834.5:c.1471C>T
12	112489047	C	T	PTPN11	NM_002834.5:c.1471C>T

12	112489048	C	A	PTPN11	NM_002834.5:c.1472C>A
12	112489048	C	T	PTPN11	NM_002834.5:c.1472C>T
12	112489048	C	T	PTPN11	NM_002834.5:c.1472C>T
12	112489068	C	G	PTPN11	NM_002834.5:c.1492C>G
12	112489068	C	T	PTPN11	NM_002834.5:c.1492C>T
12	112489068	C	T	PTPN11	NM_002834.5:c.1492C>T
12	112489068	C	T	PTPN11	NM_002834.5:c.1492C>T
12	112489068	C	T	PTPN11	NM_002834.5:c.1492C>T
12	112489068	C	T	PTPN11	NM_002834.5:c.1492C>T
12	112489069	G	T	PTPN11	NM_002834.5:c.1493G>T
12	112489078	G	A	PTPN11	NM_002834.5:c.1502G>A
12	112489078	G	A	PTPN11	NM_002834.5:c.1502G>A
12	112489083	G	A	PTPN11	NM_002834.5:c.1507G>A
12	112489084	G	A	PTPN11	NM_002834.5:c.1508G>A
12	112489086	A	G	PTPN11	NM_002834.5:c.1510A>G
12	112489086	A	G	PTPN11	NM_002834.5:c.1510A>G
12	112489105	A	G	PTPN11	NM_002834.5:c.1529A>G
12	112489105	A	G	PTPN11	NM_002834.5:c.1529A>G
12	112489105	A	G	PTPN11	NM_002834.5:c.1529A>G
12	112489105	A	G	PTPN11	NM_002834.5:c.1529A>G
12	112489105	A	G	PTPN11	NM_002834.5:c.1529A>G
12	112489105	A	G	PTPN11	NM_002834.5:c.1529A>G
12	112489105	A	G	PTPN11	NM_002834.5:c.1529A>G
12	112489105	A	G	PTPN11	NM_002834.5:c.1529A>G
12	112489105	A	G	PTPN11	NM_002834.5:c.1529A>G
12	112489105	A	G	PTPN11	NM_002834.5:c.1529A>G
12	112489105	A	G	PTPN11	NM_002834.5:c.1529A>G
3	12584624	G	C	RAF1	NM_002880.4:c.1837C>G
1	155904475	A	G	RIT1	NM_006912.6:c.265T>C
1	155904479	G	C	RIT1	NM_006912.6:c.261C>G
1	155904479	G	C	RIT1	NM_006912.6:c.261C>G
1	155904479	G	C	RIT1	NM_006912.6:c.261C>G
1	155904479	G	C	RIT1	NM_006912.6:c.261C>G
1	155904479	G	C	RIT1	NM_006912.6:c.261C>G
1	155904479	G	C	RIT1	NM_006912.6:c.261C>G
1	155904481	C	T	RIT1	NM_006912.6:c.259G>A
1	155904489	G	A	RIT1	NM_006912.6:c.251C>T
1	155904489	G	A	RIT1	NM_006912.6:c.251C>T
1	155904490	C	T	RIT1	NM_006912.6:c.250G>A
1	155904494	A	T	RIT1	NM_006912.6:c.246T>A
1	155904739	C	A	RIT1	NM_006912.6:c.229G>T
1	155910692	G	C	RIT1	NM_006912.6:c.70C>G
1	155910694	T	C	RIT1	NM_006912.6:c.68A>G
2	39013523	A	G	SOS1	NM_005633.4:c.2104T>C
2	39013523	A	G	SOS1	NM_005633.4:c.2104T>C
2	39013523	A	G	SOS1	NM_005633.4:c.2104T>C
2	39022772	C	A	SOS1	NM_005633.4:c.1656G>T
2	39022772	C	G	SOS1	NM_005633.4:c.1656G>C

2	39022773	C	T	SOS1	NM_005633.4:c.1655G>A
2	39022774	T	C	SOS1	NM_005633.4:c.1654A>G
2	39022774	T	C	SOS1	NM_005633.4:c.1654A>G
2	39022779	A	G	SOS1	NM_005633.4:c.1649T>C
2	39022779	A	G	SOS1	NM_005633.4:c.1649T>C
2	39022779	A	G	SOS1	NM_005633.4:c.1649T>C
2	39022786	T	G	SOS1	NM_005633.4:c.1642A>C
2	39023106	C	T	SOS1	NM_005633.4:c.1322G>A
2	39023107	A	G	SOS1	NM_005633.4:c.1321T>C
2	39023118	A	C	SOS1	NM_005633.4:c.1310T>G
2	39023118	A	G	SOS1	NM_005633.4:c.1310T>C
2	39023119	T	A	SOS1	NM_005633.4:c.1309A>T
2	39023119	T	C	SOS1	NM_005633.4:c.1309A>G
2	39023127	C	A	SOS1	NM_005633.4:c.1301G>T
2	39023127	C	T	SOS1	NM_005633.4:c.1301G>A
2	39023128	C	T	SOS1	NM_005633.4:c.1300G>A
2	39051202	A	C	SOS1	NM_005633.4:c.806T>G
2	39051202	A	G	SOS1	NM_005633.4:c.806T>C
2	39051211	G	A	SOS1	NM_005633.4:c.797C>T
2	39058695	T	C	SOS1	NM_005633.4:c.323A>G
2	39058695	T	C	SOS1	NM_005633.4:c.323A>G
14	50182531	T	C	SOS2	NM_006939.4:c.790A>G

s with Noonan syndrome and clinically related disorders in the U.K. Biob

HGVS p. (Clinically relevant)	Disorder
NP_004324.2:p.Asn580Asp	Noonan syndrome
NP_004324.2:p.Gly534Ser	Noonan syndrome
NP_004324.2:p.Gly534Ser	Noonan syndrome
NP_004324.2:p.Gln262Arg	Noonan syndrome
NP_004324.2:p.Gln257His	Noonan syndrome
NP_004324.2:p.Gln257Arg	Noonan syndrome
NP_004324.2:p.Gln257Arg	Noonan syndrome
NP_004324.2:p.Phe247Cys	Noonan syndrome
NP_004324.2:p.Thr241Met	Noonan syndrome
NP_004976.2:p.Asp153Gly	Noonan syndrome
NP_004976.2:p.Gly60Asp	Noonan syndrome
NP_004976.2:p.Gly60Asp	Noonan syndrome
NP_004976.2:p.Gly60Asp	Noonan syndrome
NP_004976.2:p.Gly60Asp	Noonan syndrome
NP_004976.2:p.Gly60Asp	Noonan syndrome
NP_004976.2:p.Gln22Glu	Noonan syndrome
NP_004976.2:p.Lys5Glu	Noonan syndrome
NP_004976.2:p.Lys5Glu	Noonan syndrome
NP_109587.1:p.Tyr134Cys	Cardiofaciocutaneous syndrome
NP_002515.1:p.Gly60Arg	Noonan syndrome
NP_002515.1:p.Gly60Arg	Noonan syndrome
NP_002515.1:p.Gly60Arg	Noonan syndrome
NP_002515.1:p.Pro34His	Noonan syndrome
NP_002515.1:p.Gly12Val	Noonan syndrome
NP_002515.1:p.Gly12Val	Noonan syndrome
NP_002825.3:p.Thr2Ile	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Thr2Ile	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Thr2Ile	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Ile56Val	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Ile56Val	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Ile56Val	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Ile56Val	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Gly60Asp	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Gly60Ala	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Asp61Asn	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Tyr63Cys	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Tyr63Cys	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Tyr63Cys	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Tyr63Cys	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Tyr63Cys	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Lys70Arg	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Lys70Arg	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Phe71Leu	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Ala72Ser	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Thr73Ala	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Thr73Ala	LEOPARD syndrome / Noonan syndrome

[illegible]

NP_002825.3:p.Pro491His	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Pro491Leu	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Pro491Leu	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Arg498Gly	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Arg498Trp	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Arg498Trp	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Arg498Trp	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Arg498Trp	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Arg498Trp	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Arg498Leu	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Arg501Lys	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Arg501Lys	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Gly503Arg	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Gly503Glu	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Met504Val	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Met504Val	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Gln510Arg	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Gln510Arg	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Gln510Arg	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Gln510Arg	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Gln510Arg	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Gln510Arg	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Gln510Arg	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Gln510Arg	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Gln510Arg	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Gln510Arg	LEOPARD syndrome / Noonan syndrome
NP_002825.3:p.Gln510Arg	LEOPARD syndrome / Noonan syndrome
NP_002871.1:p.Leu613Val	LEOPARD syndrome / Noonan syndrome
NP_008843.1:p.Tyr89His	Noonan syndrome
NP_008843.1:p.Asp87Glu	Noonan syndrome
NP_008843.1:p.Asp87Glu	Noonan syndrome
NP_008843.1:p.Asp87Glu	Noonan syndrome
NP_008843.1:p.Asp87Glu	Noonan syndrome
NP_008843.1:p.Asp87Glu	Noonan syndrome
NP_008843.1:p.Asp87Glu	Noonan syndrome
NP_008843.1:p.Asp87Asn	Noonan syndrome
NP_008843.1:p.Ala84Val	Noonan syndrome
NP_008843.1:p.Ala84Val	Noonan syndrome
NP_008843.1:p.Ala84Thr	Noonan syndrome
NP_008843.1:p.Phe82Leu	Noonan syndrome
NP_008843.1:p.Ala77Ser	Noonan syndrome
NP_008843.1:p.Leu24Val	Noonan syndrome
NP_008843.1:p.Lys23Arg	Noonan syndrome
NP_005624.2:p.Tyr702His	Noonan syndrome
NP_005624.2:p.Tyr702His	Noonan syndrome
NP_005624.2:p.Tyr702His	Noonan syndrome
NP_005624.2:p.Arg552Ser	Noonan syndrome
NP_005624.2:p.Arg552Ser	Noonan syndrome

NP_005624.2:p.Arg552Lys	Noonan syndrome
NP_005624.2:p.Arg552Gly	Noonan syndrome
NP_005624.2:p.Arg552Gly	Noonan syndrome
NP_005624.2:p.Leu550Pro	Noonan syndrome
NP_005624.2:p.Leu550Pro	Noonan syndrome
NP_005624.2:p.Leu550Pro	Noonan syndrome
NP_005624.2:p.Ser548Arg	Noonan syndrome
NP_005624.2:p.Cys441Tyr	Noonan syndrome
NP_005624.2:p.Cys441Arg	Noonan syndrome
NP_005624.2:p.Ile437Ser	Noonan syndrome
NP_005624.2:p.Ile437Thr	Noonan syndrome
NP_005624.2:p.Ile437Phe	Noonan syndrome
NP_005624.2:p.Ile437Val	Noonan syndrome
NP_005624.2:p.Gly434Val	Noonan syndrome
NP_005624.2:p.Gly434Glu	Noonan syndrome
NP_005624.2:p.Gly434Arg	Noonan syndrome
NP_005624.2:p.Met269Arg	Noonan syndrome
NP_005624.2:p.Met269Thr	Noonan syndrome
NP_005624.2:p.Thr266Ile	Noonan syndrome
NP_005624.2:p.Glu108Gly	Noonan syndrome
NP_005624.2:p.Glu108Gly	Noonan syndrome
NP_008870.2:p.Thr264Ala	Noonan syndrome

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Disorder	Inheritance	Classification	Subject
	Autosomal dominant	Pathogenic	UKB-NS-001
	Autosomal dominant	Likely pathogenic	UKB-NS-002
	Autosomal dominant	Likely pathogenic	UKB-NS-003
	Autosomal dominant	Likely pathogenic	UKB-NS-004
	Autosomal dominant	Likely pathogenic	UKB-NS-005
	Autosomal dominant	Pathogenic	UKB-NS-006
	Autosomal dominant	Pathogenic	UKB-NS-007
	Autosomal dominant	Likely pathogenic	UKB-NS-008
	Autosomal dominant	Likely pathogenic	UKB-NS-009
	Autosomal dominant	Likely pathogenic	UKB-NS-010
	Autosomal dominant	Likely pathogenic	UKB-NS-011
	Autosomal dominant	Likely pathogenic	UKB-NS-012
	Autosomal dominant	Likely pathogenic	UKB-NS-013
	Autosomal dominant	Likely pathogenic	UKB-NS-014
	Autosomal dominant	Likely pathogenic	UKB-NS-015
	Autosomal dominant	Pathogenic	UKB-NS-016
	Autosomal dominant	Likely pathogenic	UKB-NS-017
	Autosomal dominant	Likely pathogenic	UKB-NS-018
	Autosomal dominant	Pathogenic	UKB-NS-019
	Autosomal dominant	Likely pathogenic	UKB-NS-020
	Autosomal dominant	Likely pathogenic	UKB-NS-021
	Autosomal dominant	Likely pathogenic	UKB-NS-022
	Autosomal dominant	Likely pathogenic	UKB-NS-023
	Autosomal dominant	Likely pathogenic	UKB-NS-024
	Autosomal dominant	Likely pathogenic	UKB-NS-025
	Autosomal dominant	Likely pathogenic	UKB-NS-026
	Autosomal dominant	Likely pathogenic	UKB-NS-027
	Autosomal dominant	Likely pathogenic	UKB-NS-028
	Autosomal dominant	Pathogenic	UKB-NS-029
	Autosomal dominant	Pathogenic	UKB-NS-030
	Autosomal dominant	Pathogenic	UKB-NS-031
	Autosomal dominant	Pathogenic	UKB-NS-032
	Autosomal dominant	Likely pathogenic	UKB-NS-033
	Autosomal dominant	Pathogenic	UKB-NS-034
	Autosomal dominant	Pathogenic	UKB-NS-035
	Autosomal dominant	Pathogenic	UKB-NS-036
	Autosomal dominant	Pathogenic	UKB-NS-037
	Autosomal dominant	Pathogenic	UKB-NS-038
	Autosomal dominant	Pathogenic	UKB-NS-039
	Autosomal dominant	Pathogenic	UKB-NS-040
	Autosomal dominant	Pathogenic	UKB-NS-041
	Autosomal dominant	Pathogenic	UKB-NS-042
	Autosomal dominant	Likely pathogenic	UKB-NS-043
	Autosomal dominant	Pathogenic	UKB-NS-044
	Autosomal dominant	Likely pathogenic	UKB-NS-045
	Autosomal dominant	Likely pathogenic	UKB-NS-046

Autosomal dominant	Pathogenic	UKB-NS-047
Autosomal dominant	Pathogenic	UKB-NS-048
Autosomal dominant	Pathogenic	UKB-NS-049
Autosomal dominant	Pathogenic	UKB-NS-050
Autosomal dominant	Pathogenic	UKB-NS-051
Autosomal dominant	Pathogenic	UKB-NS-052
Autosomal dominant	Likely pathogenic	UKB-NS-053
Autosomal dominant	Likely pathogenic	UKB-NS-054
Autosomal dominant	Likely pathogenic	UKB-NS-055
Autosomal dominant	Likely pathogenic	UKB-NS-056
Autosomal dominant	Pathogenic	UKB-NS-057
Autosomal dominant	Likely pathogenic	UKB-NS-058
Autosomal dominant	Pathogenic	UKB-NS-059
Autosomal dominant	Likely pathogenic	UKB-NS-060
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Autosomal dominant	Pathogenic	UKB-NS-083
Autosomal dominant	Likely pathogenic	UKB-NS-084
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Autosomal dominant	Pathogenic	UKB-NS-090
Autosomal dominant	Likely pathogenic	UKB-NS-091
Autosomal dominant	Likely pathogenic	UKB-NS-092
Autosomal dominant	Pathogenic	UKB-NS-093
Autosomal dominant	Pathogenic	UKB-NS-094

Autosomal dominant	Likely pathogenic	UKB-NS-095
Autosomal dominant	Likely pathogenic	UKB-NS-096
Autosomal dominant	Likely pathogenic	UKB-NS-097
Autosomal dominant	Likely pathogenic	UKB-NS-098
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Autosomal dominant	Pathogenic	UKB-NS-105
Autosomal dominant	Pathogenic	UKB-NS-106
Autosomal dominant	Pathogenic	UKB-NS-107
Autosomal dominant	Likely pathogenic	UKB-NS-108
Autosomal dominant	Pathogenic	UKB-NS-109
Autosomal dominant	Pathogenic	UKB-NS-110
Autosomal dominant	Likely pathogenic	UKB-NS-111
Autosomal dominant	Likely pathogenic	UKB-NS-112
Autosomal dominant	Likely pathogenic	UKB-NS-113
Autosomal dominant	Likely pathogenic	UKB-NS-114
Autosomal dominant	Likely pathogenic	UKB-NS-115
Autosomal dominant	Likely pathogenic	UKB-NS-116
Autosomal dominant	Likely pathogenic	UKB-NS-117
Autosomal dominant	Likely pathogenic	UKB-NS-118
Autosomal dominant	Likely pathogenic	UKB-NS-119
Autosomal dominant	Likely pathogenic	UKB-NS-120
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Autosomal dominant	Likely pathogenic	UKB-NS-125
Autosomal dominant	Likely pathogenic	UKB-NS-126
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Autosomal dominant	Likely pathogenic	UKB-NS-128
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Autosomal dominant	Likely pathogenic	UKB-NS-131
Autosomal dominant	Likely pathogenic	UKB-NS-132
Autosomal dominant	Likely pathogenic	UKB-NS-133
Autosomal dominant	Pathogenic	UKB-NS-134
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Autosomal dominant	Likely pathogenic	UKB-NS-137
Autosomal dominant	Pathogenic	UKB-NS-138
Autosomal dominant	Pathogenic	UKB-NS-139
Autosomal dominant	Pathogenic	UKB-NS-140
Autosomal dominant	Pathogenic	UKB-NS-141
Autosomal dominant	Pathogenic	UKB-NS-142

Autosomal dominant	Pathogenic	UKB-NS-143
Autosomal dominant	Pathogenic	UKB-NS-144
Autosomal dominant	Pathogenic	UKB-NS-145
Autosomal dominant	Likely pathogenic	UKB-NS-146
Autosomal dominant	Likely pathogenic	UKB-NS-147
Autosomal dominant	Likely pathogenic	UKB-NS-148
Autosomal dominant	Pathogenic	UKB-NS-149
Autosomal dominant	Pathogenic	UKB-NS-150
Autosomal dominant	Likely pathogenic	UKB-NS-151
Autosomal dominant	Likely pathogenic	UKB-NS-152
Autosomal dominant	Likely pathogenic	UKB-NS-153
Autosomal dominant	Likely pathogenic	UKB-NS-154
Autosomal dominant	Likely pathogenic	UKB-NS-155
Autosomal dominant	Likely pathogenic	UKB-NS-156
Autosomal dominant	Likely pathogenic	UKB-NS-157
Autosomal dominant	Likely pathogenic	UKB-NS-158
Autosomal dominant	Pathogenic	UKB-NS-159
Autosomal dominant	Pathogenic	UKB-NS-160
Autosomal dominant	Likely pathogenic	UKB-NS-161
Autosomal dominant	Likely pathogenic	UKB-NS-162
Autosomal dominant	Likely pathogenic	UKB-NS-163
Autosomal dominant	Likely pathogenic	UKB-NS-164

Table S11: D
ICD10 code

R01
Q87
B96
R16
D69
S06
Q67
D45
H57
C19
K81
I49
E83
L05
K13
D46
F52
C20
H11
I46
I27
M81
U80
C92
H44
Q24
N08
J12
H90
I45
F12
M16
Z51
C64
H21
D47
W01
M17
N40
D61
J96
T88
K64
T82
D70
J39

D75
Z72
R33
C43
C97
K59
W19
K06
I36
H54
D12
K75
K21
W31
H49
I31
H27
E89
R06
Y60
J22
I84
F32
D07
N13
M40

Disease comorbidities in U.K. Biobank participants carrying pathogenic and likely pathogenic variants

Term

Cardiac murmurs and other cardiac sounds
Other specified congenital malformation syndromes affecting multiple systems
Other bacterial agents as the cause of diseases classified to other chapters
Hepatomegaly and splenomegaly, not elsewhere classified
Purpura and other haemorrhagic conditions
Intracranial injury
Congenital musculoskeletal deformities of head, face, spine and chest
Polycythaemia vera
Other disorders of eye and adnexa
Malignant neoplasm of rectosigmoid junction
Cholecystitis
Other cardiac arrhythmias
Disorders of mineral metabolism
Pilonidal cyst
Other diseases of lip and oral mucosa
Myelodysplastic syndromes
Sexual dysfunction, not caused by organic disorder or disease
Malignant neoplasm of rectum
Other disorders of conjunctiva
Cardiac arrest
Other pulmonary heart diseases
Osteoporosis without pathological fracture
Agent resistant to penicillin and related antibiotics
Myeloid leukaemia
Disorders of globe
Other congenital malformations of heart
Glomerular disorders in diseases classified elsewhere
Viral pneumonia, not elsewhere classified
Conductive and sensorineural hearing loss
Other conduction disorders
Mental and behavioural disorders due to use of cannabinoids
Coxarthrosis [arthrosis of hip]
Other medical care
Malignant neoplasm of kidney, except renal pelvis
Other disorders of iris and ciliary body
Other neoplasms of uncertain or unknown behaviour of lymphoid, haematopoietic and related tissue
Fall on same level from slipping, tripping and stumbling
Gonarthrosis [arthrosis of knee]
Hyperplasia of prostate
Other aplastic anaemias
Respiratory failure, not elsewhere classified
Other complications of surgical and medical care, not elsewhere classified
Haemorrhoids and perianal venous thrombosis
Complications of cardiac and vascular prosthetic devices, implants and grafts
Agranulocytosis
Other diseases of upper respiratory tract

Other diseases of blood and blood-forming organs
Problems related to lifestyle
Retention of urine
Malignant melanoma of skin
Malignant neoplasms of independent (primary) multiple sites
Other functional intestinal disorders
Unspecified fall
Other disorders of gingiva and edentulous alveolar ridge
Nonrheumatic tricuspid valve disorders
Blindness and low vision
Benign neoplasm of colon, rectum, anus and anal canal
Other inflammatory liver diseases
Gastro-oesophageal reflux disease
Contact with other and unspecified machinery
Paralytic strabismus
Other diseases of pericardium
Other disorders of lens
Postprocedural endocrine and metabolic disorders, not elsewhere classified
Abnormalities of breathing
Unintentional cut, puncture, perforation or haemorrhage during surgical and medical care
Unspecified acute lower respiratory infection
Haemorrhoids
Depressive episode
Carcinoma in situ of other and unspecified genital organs
Obstructive and reflux uropathy
Kyphosis and lordosis

genic variants associated with noonan syndromes and clinically related disorder

detected_sample	not_detected_sample	fraction_sample	detected	not_detected
11	144	0.070967742	3444	443447
4	151	0.025806452	234	446657
18	137	0.116129032	20127	426764
5	150	0.032258065	1826	445065
8	147	0.051612903	5406	441485
6	149	0.038709677	3373	443518
2	153	0.012903226	156	446735
3	152	0.019354839	727	446164
4	151	0.025806452	1553	445338
4	151	0.025806452	1589	445302
7	148	0.04516129	5484	441407
9	146	0.058064516	8586	438305
10	145	0.064516129	10275	436616
3	152	0.019354839	848	446043
7	148	0.04516129	5534	441357
3	152	0.019354839	851	446040
3	152	0.019354839	893	445998
5	150	0.032258065	3128	443763
4	151	0.025806452	1949	444942
5	150	0.032258065	3163	443728
5	150	0.032258065	3206	443685
15	140	0.096774194	20355	426536
3	152	0.019354839	1062	445829
3	152	0.019354839	1092	445799
3	152	0.019354839	1106	445785
2	153	0.012903226	357	446534
3	152	0.019354839	1122	445769
5	150	0.032258065	3537	443354
5	150	0.032258065	3553	443338
8	147	0.051612903	8246	438645
2	153	0.012903226	399	446492
2	153	0.012903226	26883	420008
26	129	0.167741935	45021	401870
4	151	0.025806452	2430	444461
3	152	0.019354839	1304	445587
4	151	0.025806452	2483	444408
12	143	0.077419355	15332	431559
6	149	0.038709677	42356	404535
18	137	0.116129032	28635	418256
3	152	0.019354839	1475	445416
8	147	0.051612903	9175	437716
3	152	0.019354839	1498	445393
15	140	0.096774194	22775	424116
6	149	0.038709677	5814	441077
7	148	0.04516129	7569	439322
3	152	0.019354839	1546	445345

3	152	0.019354839	1561	445330
19	136	0.122580645	31729	415162
14	141	0.090322581	21306	425585
5	150	0.032258065	4530	442361
3	152	0.019354839	1744	445147
20	135	0.129032258	34889	412002
11	144	0.070967742	15641	431250
2	153	0.012903226	706	446185
2	153	0.012903226	707	446184
4	151	0.025806452	3275	443616
19	136	0.122580645	33077	413814
3	152	0.019354839	1970	444921
30	125	0.193548387	59277	387614
2	153	0.012903226	805	446086
2	153	0.012903226	806	446085
4	151	0.025806452	3515	443376
2	153	0.012903226	840	446051
4	151	0.025806452	3563	443328
14	141	0.090322581	22476	424415
3	152	0.019354839	2189	444702
12	143	0.077419355	18805	428086
18	137	0.116129032	32307	414584
18	137	0.116129032	32423	414468
2	153	0.012903226	974	445917
6	149	0.038709677	7528	439363
2	153	0.012903226	1010	445881

rS			
fraction	odds_ratio	relative_risk	p_value
0.007706577	9.835779213	9.208723914	4.52E-08
0.000523618	50.56398936	49.28491867	1.70E-06
0.045037828	2.785868857	2.578477635	0.000235814
0.004086008	8.124589266	7.894763806	0.000481972
0.01209691	4.44439411	4.26661893	0.000657544
0.007547702	5.294925952	5.128670754	0.001245649
0.000349078	37.43380258	36.963689	0.00142971
0.001626795	12.11261131	11.89752851	0.002195071
0.00347512	7.596286615	7.426059863	0.002235429
0.003555677	7.423586828	7.257816846	0.002426322
0.012271449	3.80695808	3.680192231	0.003232889
0.019212739	3.146843859	3.022188409	0.003268148
0.022992184	2.930554577	2.806002669	0.003322564
0.001897554	10.38146257	10.19988588	0.003375093
0.012383333	3.772134666	3.646941488	0.003396182
0.001904267	10.3447956	10.16392858	0.003408381
0.00199825	9.857325986	9.68589387	0.003895667
0.00699947	4.728932225	4.608644089	0.004953213
0.004361242	6.047482322	5.917224714	0.004985356
0.007077789	4.676235641	4.557647395	0.005186426
0.007174009	4.613069245	4.496518624	0.005483469
0.04554802	2.245162649	2.124663038	0.005746427
0.002376418	8.285552334	8.144541644	0.00627346
0.002443549	8.057385049	7.9207905	0.006768118
0.002474876	7.955143	7.820527329	0.007006667
0.000798853	16.35026821	16.15220023	0.007077619
0.002510679	7.841419223	7.709004658	0.007285347
0.007914682	4.178248987	4.075724826	0.008184119
0.007950485	4.159283235	4.057370872	0.008334312
0.018451927	2.894959585	2.797155219	0.008498419
0.000892835	14.62781136	14.45196863	0.008749725
0.060155608	0.204229463	0.21449747	0.009768521
0.100742687	1.799094962	1.665053226	0.010354106
0.005437568	4.84518573	4.745955131	0.010598517
0.002917937	6.744233331	6.633054621	0.010919695
0.005556165	4.741199094	4.644652021	0.011392692
0.034308142	2.362036346	2.256588371	0.011956255
0.094779264	0.384597224	0.408419266	0.013004229
0.064076027	1.919097016	1.812363169	0.013114452
0.003300581	5.960071365	5.864069984	0.01513571
0.020530733	2.596324677	2.513933726	0.015306547
0.003352048	5.868258555	5.774034196	0.015763342
0.05096321	1.99521405	1.898903013	0.016040601
0.013009884	3.054951829	2.975405306	0.016481614
0.016937016	2.745242865	2.666425445	0.017078049
0.003459457	5.685448866	5.594762759	0.017119881

0.003493022	5.630626454	5.541001426	0.01755678
0.070999416	1.827998788	1.726502162	0.018137447
0.047676055	1.983322382	1.894506167	0.021278779
0.0101367	3.255047829	3.182304351	0.021517332
0.003902518	5.037727094	4.959577538	0.02338684
0.078070491	1.749472135	1.652766053	0.024019782
0.034999586	2.106176608	2.027673752	0.025050148
0.001579804	8.2613083	8.167614	0.025484517
0.001582041	8.249604792	8.156061505	0.025550891
0.007328409	3.588218998	3.52142625	0.027990029
0.074015811	1.747808145	1.65614134	0.029976961
0.004408234	4.457530724	4.390610775	0.031862704
0.132643083	1.569366871	1.459166831	0.032242638
0.001801334	7.243713717	7.163149669	0.032390995
0.001803572	7.234710261	7.154262387	0.032464124
0.007865453	3.341410982	3.280987473	0.034884045
0.001879653	6.94134765	6.8646851	0.034989161
0.007972861	3.296039315	3.236786688	0.036370866
0.050294143	1.874910858	1.795886652	0.039446802
0.004898286	4.009599433	3.951349121	0.041405503
0.042079612	1.910305807	1.839830519	0.041435074
0.072292796	1.686039883	1.606370736	0.042675429
0.072552367	1.679537663	1.600623611	0.043334181
0.002179502	5.984579458	5.920262304	0.045638523
0.016845271	2.350221812	2.297955161	0.048401588
0.002260059	5.770801786	5.709243053	0.048678673

Table S12: Pathogenic and likely pathogenic variants identified in monogenic dise

Chr	Pos	Ref	Alt
10	80170859	C	T
10	80170859	C	T
10	80170859	C	T
10	80170859	C	T
1	201043494	AG	A
1	201043494	AG	A
1	201061266	C	T
1	201062444	G	GCTCCCTGCCCCATGTACCTGCA
1	201070348	C	CTG
1	201072754	C	T
1	201076997	T	TC
1	201083187	CTGGT	C
1	201091971	C	T
1	201092011	G	A
13	110428584	G	A
13	110469231	C	T
19	49710422	C	T
2	25240312	C	T
2	25240417	C	T
2	25243965	G	C
2	25244639	T	TC
2	25245299	G	GT
2	25247647	G	A
2	25247647	G	A
2	25248201	G	A
2	25248201	G	A
15	48441718	T	TA
14	54844099	T	C
14	54844099	T	C
14	54844099	T	C
14	54844099	T	C
14	54844099	T	C

14	54844099	T	C
14	54844099	T	C
18	11857786	G	A
17	44349156	A	C
17	44350262	TAGTC	T
17	44350262	TAGTC	T
17	44350800	CGTGA	C
17	44351080	CTGTG	C
11	119091414	G	A
7	76302876	T	TGCGCCCC
7	76302962	G	C
17	7850178	G	GT
2	8779815	C	G
2	8785820	GAGTCC	G
2	8818774	A	G
12	65170917	T	TA
12	65240165	C	T
12	40340400	G	A
12	40340400	G	A
12	40340400	G	A
12	40340400	G	A
1	161306776	CAA	C
1	161309886	G	C
17	31233115	C	T
17	31235935	T	G
19	15177637	GCGCCTCGCATTGC	G
19	15179052	G	A
19	15179079	A	C
19	15179079	A	C
19	15179079	A	C

19	15179079	A	C
19	15179079	A	C
19	15179079	A	C
19	15179142	G	A
19	15179397	G	A
19	15179397	G	A
19	15184356	GC	G
19	15187273	G	A

19	15188286	C	A
19	15192047	CG	C
19	15192263	T	A
3	193615002	A	G
3	193617265	T	A
3	193631621	A	T
3	193667167	CAGTT	C

22	39230116	GTCACAGGCCGTGCA	G
6	79015081	C	A
12	23604534	C	T
2	32087580	T	A
2	32098892	G	C
2	32115805	C	CT

12	64484382	C	T
12	64484460	C	T
12	64484500	G	A
12	64488579	CTG	C
12	64495749	A	C
18	31595181	A	T

ase genes in multiple sclerosis cases in Genuity Science

rsID	Gene Name	HGVS c. (Clinically relevant)
rs142083484	ANXA11	NM_145868.2:c.112G>A
rs142083484	ANXA11	NM_145868.2:c.112G>A
rs142083484	ANXA11	NM_145868.2:c.112G>A
rs142083484	ANXA11	NM_145868.2:c.112G>A
rs2102547896	CACNA1S	NM_000069.3:c.4834del
rs2102547896	CACNA1S	NM_000069.3:c.4834del
	CACNA1S	NM_000069.3:c.3255+1G>A
rs1433415841	CACNA1S	NM_000069.3:c.2902_2906+17dup
rs1558067973	CACNA1S	NM_000069.3:c.2283_2284insCA
	CACNA1S	NM_000069.3:c.2227+1G>A
	CACNA1S	NM_000069.3:c.1749dup
	CACNA1S	NM_000069.3:c.1364_1367del
rs1261484116	CACNA1S	NM_000069.3:c.541+1G>A
rs201998231	CACNA1S	NM_000069.3:c.502C>T
rs1447989149	COL4A2	NM_001846.4:c.477+1G>A
rs753109070	COL4A2	NM_001846.4:c.2110C>T
rs748659009	CPT1C	NM_001199753.1:c.1669C>T
rs757823678	DNMT3A	NM_022552.4:c.2312G>A
rs139293773	DNMT3A	NM_022552.4:c.2207G>A
	DNMT3A	NM_022552.4:c.1869C>G
rs1444645444	DNMT3A	NM_022552.4:c.1567dup
rs1674615731	DNMT3A	NM_022552.4:c.1507dup
rs778270132	DNMT3A	NM_022552.4:c.958C>T
rs778270132	DNMT3A	NM_022552.4:c.958C>T
	DNMT3A	NM_022552.4:c.691C>T
	DNMT3A	NM_022552.4:c.691C>T
rs794728315	FBN1	NM_000138.4:c.6163+2dup
rs41298442	GCH1	NM_000161.3:c.671A>G
rs41298442	GCH1	NM_000161.3:c.671A>G
rs41298442	GCH1	NM_000161.3:c.671A>G
rs41298442	GCH1	NM_000161.3:c.671A>G
rs41298442	GCH1	NM_000161.3:c.671A>G

rs41298442	GCH1	NM_000161.3:c.671A>G
rs41298442	GCH1	NM_000161.3:c.671A>G
rs1475236239	GNAL	NM_001261444.2:c.-131+1G>A
	GRN	NM_002087.3:c.-7-2A>C
rs63749801	GRN	NM_002087.3:c.388_391del
rs63749801	GRN	NM_002087.3:c.388_391del
rs778599933	GRN	NM_002087.3:c.708+6_708+9del
	GRN	NM_002087.3:c.757_760del
rs118204095	HMBS	NM_000190.4:c.500G>A
rs748762287	HSPB1	NM_001540.5:c.165_171dup
rs770272088	HSPB1	NM_001540.5:c.250G>C
	KDM6B	NM_001080424.2:c.3673+2dup
	KIDINS220	NM_020738.4:c.2230-1G>C
	KIDINS220	NM_020738.4:c.2145_2149del
	KIDINS220	NM_001348736.2:c.2T>C
	LEMD3	NM_014319.5:c.1322dup
	LEMD3	NM_014319.5:c.2053C>T
rs34637584	LRRK2	NM_198578.4:c.6055G>A
rs34637584	LRRK2	NM_198578.4:c.6055G>A
rs34637584	LRRK2	NM_198578.4:c.6055G>A
rs34637584	LRRK2	NM_198578.4:c.6055G>A
	MPZ	NM_000530.8:c.378_379del
rs1558155838	MPZ	NM_000530.8:c.20C>G
rs199474732	NF1	NM_001042492.2:c.3610C>T
	NF1	NM_001042492.2:c.3888T>G
	NOTCH3	NM_000435.3:c.4278_4290del
rs201680145	NOTCH3	NM_000435.3:c.3691C>T
rs199638166	NOTCH3	NM_000435.3:c.3664T>G
rs199638166	NOTCH3	NM_000435.3:c.3664T>G
rs199638166	NOTCH3	NM_000435.3:c.3664T>G

rs199638166	NOTCH3	NM_000435.3:c.3664T>G
rs199638166	NOTCH3	NM_000435.3:c.3664T>G
rs199638166	NOTCH3	NM_000435.3:c.3664T>G
rs772172068	NOTCH3	NM_000435.3:c.3601C>T
rs60373464	NOTCH3	NM_000435.3:c.3427C>T
rs60373464	NOTCH3	NM_000435.3:c.3427C>T
	NOTCH3	NM_000435.3:c.2504del
rs75068032	NOTCH3	NM_000435.3:c.1672C>T
rs1263780227	NOTCH3	NM_000435.3:c.1441G>T
	NOTCH3	NM_000435.3:c.591del
rs1555729534	NOTCH3	NM_000435.3:c.376A>T
rs755117948	OPA1	NM_130837.2:c.312A>G
	OPA1	NM_130837.2:c.536T>A
	OPA1	NM_130837.2:c.799A>T
rs80356530	OPA1	NM_130837.2:c.2873_2876del
	PDGFB	NM_002608.4:c.555_568del
	PHIP	NM_017934.7:c.1524+1G>T
rs201883079	SOX5	NM_006940.6:c.1018-1G>A
	SPAST	NM_014946.3:c.502+2T>A
	SPAST	NM_014946.3:c.682+1G>C
rs1678809927	SPAST	NM_014946.3:c.975dup

rs780192375	TBK1	NM_013254.4:c.1072C>T
rs753595352	TBK1	NM_013254.4:c.1150C>T
	TBK1	NM_013254.4:c.1189+1G>A
rs876657405	TBK1	NM_013254.4:c.1436_1437del
rs1294608700	TBK1	NM_013254.4:c.1694A>C
rs121918085	TTR	NM_000371.3:c.262A>T

HGVS p. (Clinically relevant)	Effect (Combined)	AF (gnomAD v4.0.0)
NP_665875.1:p.Gly38Arg	Missense	0.0000748
NP_665875.1:p.Gly38Arg	Missense	0.0000748
NP_665875.1:p.Gly38Arg	Missense	0.0000748
NP_665875.1:p.Gly38Arg	Missense	0.0000748
NP_000060.2:p.Leu1612TrpfsTer22	Frameshift	0.000004337
NP_000060.2:p.Leu1612TrpfsTer22	Frameshift	0.000004337
	Splice site	6.20E-07
	Frameshift	0.000004341
NP_000060.2:p.Ala762GlnfsTer6	Frameshift	0.000005576
	Splice site	6.20E-07
NP_000060.2:p.Arg584GlufsTer3	Frameshift	
NP_000060.2:p.Asn455SerfsTer5	Frameshift	0.000001859
	Splice site	0.000001239
NP_000060.2:p.Arg168Ter	Stop gained	0.00001053
	Splice site	0.000007278
NP_001837.2:p.Arg704Ter	Stop gained	0.00002881
NP_001186682.1:p.Arg557Ter	Stop gained	0.000003098
NP_072046.2:p.Arg771Gln	Missense	0.00001239
NP_072046.2:p.Arg736His	Missense	0.00003474
NP_072046.2:p.Tyr623Ter	Stop gained	6.44E-07
NP_072046.2:p.Glu523GlyfsTer23	Frameshift	6.20E-07
NP_072046.2:p.Thr503AsnfsTer43	Frameshift	0.000002478
NP_072046.2:p.Arg320Ter	Stop gained	0.00001983
NP_072046.2:p.Arg320Ter	Stop gained	0.00001983
NP_072046.2:p.Gln231Ter	Stop gained	0.00000031
NP_072046.2:p.Gln231Ter	Stop gained	0.00000031
	Splice site	0.00002727
NP_000152.1:p.Lys224Arg	Missense	0.0003754
NP_000152.1:p.Lys224Arg	Missense	0.0003754
NP_000152.1:p.Lys224Arg	Missense	0.0003754
NP_000152.1:p.Lys224Arg	Missense	0.0003754
NP_000152.1:p.Lys224Arg	Missense	0.0003754

NP_000152.1:p.Lys224Arg	Missense	0.0003754
NP_000152.1:p.Lys224Arg	Missense	0.0003754
	Splice site	0.00006009
	Splice site	
NP_002078.1:p.Gln130SerfsTer125	Frameshift	0.00001735
NP_002078.1:p.Gln130SerfsTer125	Frameshift	0.00001735
	Splice site	0.00002553
NP_002078.1:p.Cys253ThrfsTer2	Frameshift	
NP_000181.2:p.Arg167Gln	Missense	0.00007028
NP_001531.1:p.Leu58AlafsTer105	Frameshift	0.00002038
NP_001531.1:p.Gly84Arg	Missense	0.00002137
	Splice site	0.000002481
	Splice site	0
NP_065789.1:p.Asp716AlafsTer11	Frameshift	
NP_001335665.1:p.Met1?	Start lost	0.000008083
NP_055134.2:p.Tyr441Ter	Stop gained	
NP_055134.2:p.Gln685Ter	Stop gained	
NP_940980.4:p.Gly2019Ser	Missense	
NP_940980.4:p.Gly2019Ser	Missense	
NP_940980.4:p.Gly2019Ser	Missense	
NP_940980.4:p.Gly2019Ser	Missense	
NP_000521.2:p.Cys127Ter	Frameshift	
NP_000521.2:p.Ser7Ter	Stop gained	6.29E-07
NP_001035957.1:p.Arg1204Trp	Missense	0.000003098
NP_001035957.1:p.Tyr1296Ter	Stop gained	
NP_000426.2:p.Gln1427CysfsTer147	Frameshift	0.000003812
NP_000426.2:p.Arg1231Cys	Missense	0.0004783
NP_000426.2:p.Cys1222Gly	Missense	0.0001729
NP_000426.2:p.Cys1222Gly	Missense	0.0001729
NP_000426.2:p.Cys1222Gly	Missense	0.0001729

NP_000426.2:p.Cys1222Gly	Missense	0.0001729
NP_000426.2:p.Cys1222Gly	Missense	0.0001729
NP_000426.2:p.Cys1222Gly	Missense	0.0001729
NP_000426.2:p.Arg1201Cys	Missense	0.00004585
NP_000426.2:p.Arg1143Cys	Missense	0.00008797
NP_000426.2:p.Arg1143Cys	Missense	0.00008797
NP_000426.2:p.Cys835SerfsTer25	Frameshift	6.20E-07
NP_000426.2:p.Arg558Cys	Missense	0.00001983
NP_000426.2:p.Gly481Cys	Missense	0.000001244
NP_000426.2:p.Ala198ArgfsTer38	Frameshift	
NP_000426.2:p.Ser126Cys	Missense	
NP_570850.2:p.Ile104Met	Missense	0.00001487
NP_570850.2:p.Leu179Ter	Stop gained	0.000005588
NP_570850.2:p.Lys267Ter	Stop gained	
NP_570850.2:p.Val958GlyfsTer3	Frameshift	0.00002615
NP_002599.1:p.Ala186ProfsTer41	Frameshift	
	Splice site	
	Splice site	0.0000887
	Splice site	
	Splice site	
	Splice site	0.000001251
NP_055761.2:p.Asn326Ter	Frameshift	

NP_037386.1:p.Arg358Cys	Missense	0.00001487
NP_037386.1:p.Arg384Trp	Missense	0.00001612
	Splice site	0.000001256
NP_037386.1:p.Val479GlufsTer4	Frameshift	6.27E-07
NP_037386.1:p.Gln565Pro	Missense	0.00002376
NP_000362.1:p.Ile88Leu	Missense	0.00001301

Disorder

Amyotrophic lateral sclerosis

Amyotrophic lateral sclerosis

Amyotrophic lateral sclerosis

Amyotrophic lateral sclerosis

Hypokalemic periodic paralysis

Hypokalemic periodic paralysis

Hypokalemic periodic paralysis

Hypokalemic periodic paralysis

Hypokalemic periodic paralysis

Hypokalemic periodic paralysis

Hypokalemic periodic paralysis

Hypokalemic periodic paralysis

Hypokalemic periodic paralysis

Hypokalemic periodic paralysis

Brain small vessel disease

Brain small vessel disease

Spastic paraplegia

Overgrowth syndrome

Overgrowth syndrome

Overgrowth syndrome

Overgrowth syndrome

Overgrowth syndrome

Overgrowth syndrome

Overgrowth syndrome

Overgrowth syndrome/Clonal hematopoiesis

Overgrowth syndrome/Clonal hematopoiesis

Marfan syndrome

Dystonia DOPA-responsive with or without
hyperphenylalaninemia, Hyperphenylalaninemia

BH4-deficient B

Dystonia DOPA-responsive with or without
hyperphenylalaninemia, Hyperphenylalaninemia

BH4-deficient B

Dystonia DOPA-responsive with or without
hyperphenylalaninemia, Hyperphenylalaninemia

BH4-deficient B

Dystonia DOPA-responsive with or without
hyperphenylalaninemia, Hyperphenylalaninemia

BH4-deficient B

Dystonia DOPA-responsive with or without
hyperphenylalaninemia, Hyperphenylalaninemia

BH4-deficient B

Dystonia DOPA-responsive with or without
hyperphenylalaninemia, Hyperphenylalaninemia

BH4-deficient B

Dystonia DOPA-responsive with or without
hyperphenylalaninemia, Hyperphenylalaninemia
BH4-deficient B

Dystonia DOPA-responsive with or without
hyperphenylalaninemia, Hyperphenylalaninemia
BH4-deficient B

Dystonia

Frontotemporal dementia

Frontotemporal dementia

Frontotemporal dementia

Frontotemporal dementia

Frontotemporal dementia

Acute intermittent porphyria

Charcot-Marie-Tooth disease

Charcot-Marie-Tooth disease

Neurodevelopmental disorder with coarse
facies and mild distal skeletal abnormalities

Spastic paraplegia, intellectual disability,
nystagmus, and obesity (SINO)

Spastic paraplegia, intellectual disability,
nystagmus, and obesity (SINO)

Spastic paraplegia, intellectual disability,
nystagmus, and obesity (SINO)

Buschke-Ollendorff syndrome

Buschke-Ollendorff syndrome

Parkinson disease

Parkinson disease

Parkinson disease

Parkinson disease

Charcot-Marie-Tooth disease

Charcot-Marie-Tooth disease

Neurofibromatosis

Neurofibromatosis

Cerebral arteriopathy with subcortical infarcts
and leukoencephalopathy

Cerebral arteriopathy with subcortical infarcts
and leukoencephalopathy

Cerebral arteriopathy with subcortical infarcts
and leukoencephalopathy

Cerebral arteriopathy with subcortical infarcts
and leukoencephalopathy

Cerebral arteriopathy with subcortical infarcts
and leukoencephalopathy

Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy

Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy
Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy
Optic atrophy, spastic paraparesis, axonal sensorimotor peripheral neuropathy and intestinal dysmotility
Optic atrophy, spastic paraparesis, axonal sensorimotor peripheral neuropathy and intestinal dysmotility
Optic atrophy, spastic paraparesis, axonal sensorimotor peripheral neuropathy and intestinal dysmotility
Optic atrophy with or without deafness, ophthalmoplegia, myopathy, ataxia, and neuropathy

Idiopathic basal ganglia calcification
Chung-Jansen syndrome
Lamb-Shaffer syndrome
Spastic paraplegia
Spastic paraplegia
Spastic paraplegia

Frontotemporal dementia and/or amyotrophic lateral sclerosis
Frontotemporal dementia and/or amyotrophic lateral sclerosis
Frontotemporal dementia and/or amyotrophic lateral sclerosis
Frontotemporal dementia and/or amyotrophic lateral sclerosis
Frontotemporal dementia and/or amyotrophic lateral sclerosis
Hereditary transthyretin amyloidosis

Disorder Category	Disorder Inheritance
Neurologic and Neuromuscular Disorder	Autosomal dominant
Neurologic and Neuromuscular Disorder	Autosomal dominant
Neurologic and Neuromuscular Disorder	Autosomal dominant
Neurologic and Neuromuscular Disorder	Autosomal dominant
Metabolic Disorder	Autosomal dominant
Metabolic Disorder	Autosomal dominant
Metabolic Disorder	Autosomal dominant
Metabolic Disorder	Autosomal dominant
Metabolic Disorder	Autosomal dominant
Metabolic Disorder	Autosomal dominant
Metabolic Disorder	Autosomal dominant
Metabolic Disorder	Autosomal dominant
Metabolic Disorder	Autosomal dominant
Cerebrovascular Disorder	Autosomal dominant
Cerebrovascular Disorder	Autosomal dominant
Neurologic and Neuromuscular Disorder	Autosomal dominant
Genetic Syndrome	Autosomal dominant
Genetic Syndrome	Autosomal dominant
Genetic Syndrome	Autosomal dominant
Genetic Syndrome	Autosomal dominant
Genetic Syndrome	Autosomal dominant
Genetic Syndrome	Autosomal dominant
Genetic Syndrome	Autosomal dominant
Genetic Syndrome	Autosomal dominant
Genetic Syndrome	Autosomal dominant
Neurologic and Neuromuscular Disorder	Autosomal dominant
Neurologic and Neuromuscular Disorder	Autosomal dominant
Neurologic and Neuromuscular Disorder	Autosomal dominant
Neurologic and Neuromuscular Disorder	Autosomal dominant
Neurologic and Neuromuscular Disorder	Autosomal dominant

Neurologic and Neuromuscular Disorder

Autosomal dominant

Neurologic and Neuromuscular Disorder

Autosomal dominant

Neurologic and Neuromuscular Disorder

Autosomal dominant

Neurologic and Neuromuscular Disorder

Autosomal dominant

Neurologic and Neuromuscular Disorder

Autosomal dominant

Metabolic Disorder

Autosomal dominant

Classification	Zygoty	Subject	PubMed ID
Likely Pathogenic	Heterozygous	GS-MS-001	28469040, 29650794, 33087501
Likely Pathogenic	Heterozygous	GS-MS-002	28469040, 29650794, 33087501
Likely Pathogenic	Heterozygous	GS-MS-003	28469040, 29650794, 33087501
Likely Pathogenic	Heterozygous	GS-MS-004	28469040, 29650794, 33087501
Likely Pathogenic	Heterozygous	GS-MS-005	26247046, 28012042
Likely Pathogenic	Heterozygous	GS-MS-006	26247046, 28012042
Likely Pathogenic	Heterozygous	GS-MS-007	26247046, 28012042
Likely Pathogenic	Heterozygous	GS-MS-008	26247046, 28012042
Likely Pathogenic	Heterozygous	GS-MS-009	26247046, 28012042
Likely Pathogenic	Heterozygous	GS-MS-010	26247046, 28012042
Likely Pathogenic	Heterozygous	GS-MS-011	26247046, 28012042
Likely Pathogenic	Heterozygous	GS-MS-012	26247046, 28012042
Likely Pathogenic	Heterozygous	GS-MS-013	26247046, 28012042
Likely Pathogenic	Heterozygous	GS-MS-014	26247046, 28012042
Likely Pathogenic	Heterozygous	GS-MS-015	
Likely Pathogenic	Heterozygous	GS-MS-016	
Likely Pathogenic	Heterozygous	GS-MS-017	
Likely Pathogenic	Heterozygous	GS-MS-018	27701732, 28941052
Likely Pathogenic	Heterozygous	GS-MS-019	29900417, 31685998
Likely Pathogenic	Heterozygous	GS-MS-020	
Likely Pathogenic	Heterozygous	GS-MS-021	
Likely Pathogenic	Heterozygous	GS-MS-022	
Likely Pathogenic	Heterozygous	GS-MS-023	27317772
Likely Pathogenic	Heterozygous	GS-MS-024	27317772
Likely Pathogenic	Heterozygous	GS-MS-025	
Likely Pathogenic	Heterozygous	GS-MS-026	
Likely Pathogenic	Heterozygous	GS-MS-027	
Likely Pathogenic	Heterozygous	GS-MS-028	
Likely Pathogenic	Heterozygous	GS-MS-029	
Likely Pathogenic	Heterozygous	GS-MS-030	
Likely Pathogenic	Heterozygous	GS-MS-031	
Likely Pathogenic	Heterozygous	GS-MS-032	
Likely Pathogenic	Heterozygous	GS-MS-033	

Likely Pathogenic	Heterozygous	GS-MS-034	
Likely Pathogenic	Heterozygous	GS-MS-035	
Likely Pathogenic	Heterozygous	GS-MS-036	
Likely Pathogenic	Heterozygous	GS-MS-028	
Pathogenic	Heterozygous	GS-MS-037	
Pathogenic	Heterozygous	GS-MS-038	
Pathogenic	Heterozygous	GS-MS-039	24709683, 27632209, 27859661, 20975516
Likely Pathogenic	Heterozygous	GS-MS-040	
Pathogenic	Heterozygous	GS-MS-041	2243128, 7962538, 9199558, 12372055, 15003823, 12773194, 27539938, 11055586, 15643298, 23815679, 14631121
Likely Pathogenic	Heterozygous	GS-MS-042	28144995, 28018906
Pathogenic	Heterozygous	GS-MS-043	18344398, 18832141, 21892769, 25429913, 23948568
Likely Pathogenic	Heterozygous	GS-MS-044	
Likely Pathogenic	Heterozygous	GS-MS-045	
Likely Pathogenic	Heterozygous	GS-MS-046	
Likely Pathogenic	Heterozygous	GS-MS-047	
Likely Pathogenic	Heterozygous	GS-MS-048	
Likely Pathogenic	Heterozygous	GS-MS-049	
Pathogenic=RISK	Heterozygous	GS-MS-050	10607834, 10336779
Pathogenic=RISK	Heterozygous	GS-MS-051	10607834, 10336779
Pathogenic=RISK	Heterozygous	GS-MS-052	10607834, 10336779
Pathogenic=RISK	Heterozygous	GS-MS-053	10607834, 10336779
Likely Pathogenic	Heterozygous	GS-MS-054	14711881
Likely Pathogenic	Heterozygous	GS-MS-055	14711881
Likely Pathogenic	Heterozygous	GS-MS-056	10607834, 22807134, 26635368
Likely Pathogenic	Heterozygous	GS-MS-033	
Likely Pathogenic	Heterozygous	GS-MS-057	
Likely Pathogenic	Heterozygous	GS-MS-058	
Likely Pathogenic	Heterozygous	GS-MS-059	32732295
Likely Pathogenic	Heterozygous	GS-MS-060	32732295
Likely Pathogenic	Heterozygous	GS-MS-061	32732295

Likely Pathogenic	Heterozygous	GS-MS-062	32732295
Likely Pathogenic	Heterozygous	GS-MS-063	32732295
Likely Pathogenic	Heterozygous	GS-MS-064	32732295
Likely Pathogenic	Heterozygous	GS-MS-065	27844030, 32732295
Likely Pathogenic	Heterozygous	GS-MS-066	27844030, 32732295
Likely Pathogenic	Heterozygous	GS-MS-067	27844030, 32732295
Likely Pathogenic	Heterozygous	GS-MS-068	
Likely Pathogenic	Heterozygous	GS-MS-069	8878478, 29757481, 9388399, 11102981, 15364702, 16009764, 24086431, 19174371, 27844030, 23844775, 11755616, 22218279, 25929831, 28710804, 31028544, 33130454, 32172663, 29188608, 31589614, 34851492, 24844136, 31146726, 32555735, 32277177
Likely Pathogenic	Heterozygous	GS-MS-070	
Likely Pathogenic	Heterozygous	GS-MS-071	
Likely Pathogenic	Heterozygous	GS-MS-072	
Likely Pathogenic	Heterozygous	GS-MS-073	27896119
Likely Pathogenic	Heterozygous	GS-MS-074	
Likely Pathogenic	Heterozygous	GS-MS-075	
Pathogenic	Heterozygous	GS-MS-076	23665194, 25012220, 26031781, 21646330, 25699009, 26385429, 27260406, 25564500, 23250881, 27974645, 11017079, 28848318, 15505825, 20952381, 11440989, 32025183, 31500643, 31589614, 33300680
Likely Pathogenic	Heterozygous	GS-MS-077	
Likely Pathogenic	Heterozygous	GS-MS-078	
Likely Pathogenic	Heterozygous	GS-MS-079	
Likely Pathogenic	Heterozygous	GS-MS-080	
Likely Pathogenic	Heterozygous	GS-MS-081	
Likely Pathogenic	Heterozygous	GS-MS-082	

Likely Pathogenic	Heterozygous	GS-MS-083	29398122
Likely Pathogenic	Heterozygous	GS-MS-084	31996268
Likely Pathogenic	Heterozygous	GS-MS-085	
Pathogenic	Heterozygous	GS-MS-086	32980182, 27211305
Likely Pathogenic	Heterozygous	GS-MS-087	31498468, 30033073
Likely Pathogenic	Heterozygous	GS-MS-088	21540676, 17503405, 26537620, 28635949, 23713495, 26428663, 31371117, 30683924, 22745357, 8038017, 14640031, 1786038

Table S13: Demographic characteristics of the Genuity Science multiple sclerosis cohort with disability scores, contrasting those with and without a putative pathogenic variant

	Pathogenic variant carrier status	
	No (N = 3,158)	Yes (N = 31)
Age	46.66 (11.52)	46.84 (10.68)
Sex — no. (%)		
Male	827 (26.19)	7 (22.58)
Female	2,331 (73.81)	24 (77.42)
White ethnicity — no. (%)	2,999 (94.97)	31 (100)
Year of onset	996.93 (10.44)	1996.16 (9.72)
Year of recruitment	2010.07 (2.93)	2010.26 (1.95)
Disease duration	13.14 (10.07)	14.1 (10.1)
EDSS	4.11 (2.26)	4.87 (2.18)
ARMSS	5.51 (2.64)	6.47 (2.36)
MSSS	4.96 (2.76)	5.77 (2.95)

Table S14: Pathogenic and likely pathogenic variants identified in monogenic c

Chr	Pos	Ref	Alt
2	73909131	G	A
12	51913176	C	T
12	51913189	G	A
3	122284359	A	G
17	50195967	C	T
17	50196337	G	A
9	134815629	G	A
1	15445688	ACACCCGCAAGAAGCCGGTAGTCT	-
7	74063371	T	G
11	119091413	C	T
3	37028833	C	T
3	37040294	G	C
5	143298733	C	-
5	38925240	C	T
5	38886098	AA	-
4	88007878	C	T
1	19978420	CA	-
5	147828020	A	G
5	147828020	A	G
12	64497221	GAA	-
14	24240140	A	-
17	16948923	A	T
17	16948923	A	T
17	16948923	A	T
17	16948873	A	G
17	16948873	A	G
17	16948873	A	G
17	16948873	A	G
17	16948873	A	G
17	16940445	A	C
17	16940442	C	T
17	16940415	G	T
17	16940415	G	T
17	16952549	-	TC
17	16948873	A	G
1	(152313385)(152312603)	(G)(T)	(T)(-)
11	119091446	G	A
17	16940394	T	-
17	16939653	C	T
17	16940415	G	T
17	16948923	A	T
17	16940445	A	C
X	44873590	T	-
7	94425198	G	A
17	16948873	A	G
17	16948873	A	G

17	16940415	G	T
17	16940394	T	-
17	16948947	T	C
17	16940445	A	C
11	116837053	C	T
17	16948873	A	G
1	15440577	G	A
17	16948873	A	G
17	16948923	A	T
17	16948873	A	G
17	16940415	G	T
17	16940415	G	T
17	81239949	C	T
17	16948873	A	G
17	16948873	A	G
17	16940415	G	T
17	16940445	A	C
17	16940415	G	T
1	152312603	T	-
1	21563152	G	A
2	(73490738)(73490840)	(C);(C)	(-) (-)
17	16948873	A	G
6	89932572	C	T
17	16948873	A	G
17	16948873	A	G

lisease genes in inflammatory bowel disease cases in clinical trials (t

rsID	Gene Name	HGVS c. (Clinically relevant)
	ACTG2	NM_001615.4:c.443G>A
	ACVRL1	NM_000020.3:c.139C>T
rs863223409	ACVRL1	NM_000020.3:c.152G>A
rs140022350	CASR	NM_000388.4:c.2405A>G
rs66664580	COL1A1	NM_000088.4:c.1012G>A
rs72645347	COL1A1	NM_000088.4:c.934C>T
rs863223452	COL5A1	NM_000093.5:c.4068G>A
rs515726210	CTRC	NM_007272.3:c.738_761del
	ELN	NM_000501.4:c.1918+2T>G
rs118204101	HMBS	NM_000190.4:c.499C>T
rs63749795	MLH1	NM_000249.4:c.1459C>T
rs63751596	MLH1	NM_000249.4:c.1667G>C
	NR3C1	NM_001018077.1:c.1827delG
rs387906822	OSMR	NM_003999.3:c.2081C>T
	OSMR	NM_003999.3:c.899_900delAA
rs1057518906	PKD2	NM_000297.4:c.145C>T
rs587776800	PLA2G2A	NM_001395463.1:c.144_145delTG
rs148954387	SPINK1	NM_003122.5:c.194+2T>C
rs148954387	SPINK1	NM_003122.5:c.194+2T>C
rs1402092579	TBK1	NM_013254.4:c.1928_1930delAAG
	TINF2	NM_001099274.3:c.1145delT
rs72553877	TNFRSF13B	NM_012452.3:c.260T>A
rs72553877	TNFRSF13B	NM_012452.3:c.260T>A
rs72553877	TNFRSF13B	NM_012452.3:c.260T>A
rs34557412	TNFRSF13B	NM_012452.3:c.310T>C
rs34557412	TNFRSF13B	NM_012452.3:c.310T>C
rs34557412	TNFRSF13B	NM_012452.3:c.310T>C
rs34557412	TNFRSF13B	NM_012452.3:c.310T>C
rs34557412	TNFRSF13B	NM_012452.3:c.310T>C
rs143027621	TNFRSF13B	NM_012452.3:c.512T>G
rs751216929	TNFRSF13B	NM_012452.3:c.515G>A
rs72553883	TNFRSF13B	NM_012452.3:c.542C>A
rs72553883	TNFRSF13B	NM_012452.3:c.542C>A
rs1303637368	TNFRSF13B	NM_012452.3:c.95_96dupGA
rs34557412	TNFRSF13B	NM_012452.3:c.310T>C
rs61816761/-	FLG	NM_002016.2:c.1501C>T/c.2283delA
rs536814318	HMBS	NM_000190.4:c.532G>A
-	TNFRSF13B	NM_012452.3:c.563delA
rs764387835	TNFRSF13B	NM_012452.3:c.776G>A
rs72553883	TNFRSF13B	NM_012452.3:c.542C>A
rs72553877	TNFRSF13B	NM_012452.3:c.260T>A
rs143027621	TNFRSF13B	NM_012452.3:c.512T>G
-	KDM6A	NM_021140.4:c.39delT
rs749621872	COL1A2	NM_000089.4:c.2755G>A
rs34557412	TNFRSF13B	NM_012452.3:c.310T>C
rs34557412	TNFRSF13B	NM_012452.3:c.310T>C

rs72553883	TNFRSF13B	NM_012452.3:c.542C>A
-	TNFRSF13B	NM_012452.3:c.563delA
rs72553876	TNFRSF13B	NM_012452.3:c.236A>G
rs143027621	TNFRSF13B	NM_012452.3:c.512T>G
rs28931574	APOA1	NM_000039.3:c.148G>A
rs34557412	TNFRSF13B	NM_012452.3:c.310T>C
rs515726209	CTRC	NM_007272.3:c.217G>A
rs34557412	TNFRSF13B	NM_012452.3:c.310T>C
rs72553877	TNFRSF13B	NM_012452.3:c.260T>A
rs34557412	TNFRSF13B	NM_012452.3:c.310T>C
rs72553883	TNFRSF13B	NM_012452.3:c.542C>A
rs72553883	TNFRSF13B	NM_012452.3:c.542C>A
rs745332456	NDUF8	NM_001086521.2:c.195+271C>T
rs34557412	TNFRSF13B	NM_012452.3:c.310T>C
rs34557412	TNFRSF13B	NM_012452.3:c.310T>C
rs72553883	TNFRSF13B	NM_012452.3:c.542C>A
rs143027621	TNFRSF13B	NM_012452.3:c.512T>G
rs72553883	TNFRSF13B	NM_012452.3:c.542C>A
-	FLG	NM_002016.2:c.2283delA
rs1320839573	ALPL	NM_000478.6:c.340G>A
-	ALMS1	NM_015120.4:c.8779delC;c.8882delC
rs34557412	TNFRSF13B	NM_012452.3:c.310T>C
rs757652995	BACH2	NM_021813.4:c.2362G>A
rs34557412	TNFRSF13B	NM_012452.3:c.310T>C
rs34557412	TNFRSF13B	NM_012452.3:c.310T>C

the upadacitinib and rizankizumab studies include a mix of treatment and placebo

HGVS p. (Clinically relevant)	Effect (Combined)
NP_001606.1:p.Arg148His	Missense
NP_000011.2:p.Arg47Trp	Missense
NP_000011.2:p.Cys51Tyr	Missense
NP_000379.3:p.Asn802Ser	Missense
NP_000079.2:p.Gly338Ser	Missense
NP_000079.2:p.Arg312Cys	Missense
NP_000084.3:p.Ala1356=	
NP_009203.2:p.Lys247_Arg254del	
NP_000181.2:p.Arg167Trp	Missense
NP_000240.1:p.Arg487Ter	Stop gained
NP_000240.1:p.Ser556Thr	Missense
NP_001018087.1:p.Trp610Glyfs*18	Frameshift
NP_003990.1:p.Pro694Leu	Missense
NP_003990.1:p.Gln300Argfs*7	Frameshift
NP_000288.1:p.Gln49Ter	Stop gained
NP_001382392.1:p.Cys48Trpfs*20	Frameshift
NP_037386.1:p.Glu643del	
NP_001092744.1:p.Leu382Argfs*8	Frameshift
NP_036584.1:p.Ile87Asn	Missense
NP_036584.1:p.Ile87Asn	Missense
NP_036584.1:p.Ile87Asn	Missense
NP_036584.1:p.Cys104Arg	Missense
NP_036584.1:p.Cys104Arg	Missense
NP_036584.1:p.Cys104Arg	Missense
NP_036584.1:p.Cys104Arg	Missense
NP_036584.1:p.Cys104Arg	Missense
NP_036584.1:p.Leu171Arg	Missense
NP_036584.1:p.Cys172Tyr	Missense
NP_036584.1:p.Ala181Glu	Missense
NP_036584.1:p.Ala181Glu	Missense
NP_036584.1:p.Ser33Aspfs*52	Frameshift
NP_036584.1:p.Cys104Arg	Missense
NP_002007.1:p.Arg501Ter/p.Val762Cysfs*36	
NP_000181.2:p.Asp178Asn	Missense
NP_036584.1:p.Lys188Argfs*33	LoF
NP_036584.1:p.Trp259Ter	LoF
NP_036584.1:p.Ala181Glu	Missense
NP_036584.1:p.Ile87Asn	Missense
NP_036584.1:p.Leu171Arg	Missense
NP_066963.2:p.Ala14Profs*28	LoF
NP_000080.2:p.Gly919Ser	Missense
NP_036584.1:p.Cys104Arg	Missense
NP_036584.1:p.Cys104Arg	Missense

NP_036584.1:p.Ala181Glu	Missense
NP_036584.1:p.Lys188Argfs*33	LoF
NP_036584.1:p.Tyr79Cys	Missense
NP_036584.1:p.Leu171Arg	Missense
NP_000030.1:p.Gly50Ser	Missense
NP_036584.1:p.Cys104Arg	Missense
NP_009203.2:p.Ala73Thr	Missense
NP_036584.1:p.Cys104Arg	Missense
NP_036584.1:p.Ile87Asn	Missense
NP_036584.1:p.Cys104Arg	Missense
NP_036584.1:p.Ala181Glu	Missense
NP_036584.1:p.Ala181Glu	Missense
	Other
NP_036584.1:p.Cys104Arg	Missense
NP_036584.1:p.Cys104Arg	Missense
NP_036584.1:p.Ala181Glu	Missense
NP_036584.1:p.Leu171Arg	Missense
NP_036584.1:p.Ala181Glu	Missense
NP_002007.1:p.Val762Cysfs*36	LoF
NP_000469.3:p.Ala114Thr	Missense
NP_055935.4:p.Arg2927Glufs*12; p.Pro2961Argfs*16	LoF
NP_036584.1:p.Cys104Arg	Missense
NP_068585.1:p.Glu788Lys	Missense
NP_036584.1:p.Cys104Arg	Missense
NP_036584.1:p.Cys104Arg	Missense

placebo arm participants).

Disorder

Visceral myopathy
Hereditary hemorrhagic telangiectasia
Hereditary hemorrhagic telangiectasia
Familial hypercalciuric hypocalcemia
Osteogenesis imperfecta
Ehlers-Danlos syndrome
Ehlers-Danlos syndrome
Hereditary pancreatitis
Cutis laxa
Acute intermittent porphyria
Lynch syndrome
Lynch syndrome
Generalized glucocorticoid resistance
Primary localized cutaneous amyloidosis
Primary localized cutaneous amyloidosis
Polycystic kidney disease
Colorectal cancer
Hereditary pancreatitis
Hereditary pancreatitis
Frontotemporal dementia and/or amyotrophic lateral sclerosis
Dyskeratosis congenita
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Ichthyosis vulgaris
Acute intermittent porphyria
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Kabuki syndrome
Osteogenesis imperfecta/Ehlers-Danlos syndrome
Common variable immunodeficiency
Common variable immunodeficiency

Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Familial amyloidosis
Common variable immunodeficiency
Hereditary pancreatitis
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Mitochondrial complex I deficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency
Ichthyosis vulgaris
Hypophosphatasia
Alstrom syndrome
Common variable immunodeficiency
Immunodeficiency
Common variable immunodeficiency
Common variable immunodeficiency

Disorder Category

Gastroenterologic disorder

Vascular disorder

Vascular disorder

Metabolic disorder

Connective tissue disorder

Connective tissue disorder

Connective tissue disorder

Gastroenterologic disorder

Connective tissue disorder

Metabolic disorder

Tumor syndrome

Tumor syndrome

Metabolic disorder

Haematological and immunological disorder

Haematological and immunological disorder

Kidney disorder

Tumor syndrome

Gastroenterologic disorder

Gastroenterologic disorder

Neurologic disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder

Dermatologic disorder

Metabolic disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder

Genetic disorder

Connective tissue disorder

Haematological and immunological disorder

Haematological and immunological disorder

Haematological and immunological disorder
Haematological and immunological disorder
Haematological and immunological disorder
Haematological and immunological disorder
Metabolic disorder
Haematological and immunological disorder
Gastroenterologic disorder
Haematological and immunological disorder
Haematological and immunological disorder
Haematological and immunological disorder
Haematological and immunological disorder
Haematological and immunological disorder
Mitochondrial disorder
Haematological and immunological disorder
Haematological and immunological disorder
Haematological and immunological disorder
Haematological and immunological disorder
Haematological and immunological disorder
Dermatologic disorder
Metabolic disorder
Metabolic disorder
Haematological and immunological disorder
Haematological and immunological disorder
Haematological and immunological disorder
Haematological and immunological disorder

Disorder Inheritance	Classification
Autosomal dominant	Pathogenic
Autosomal dominant	Likely Pathogenic
Autosomal dominant	Pathogenic
Autosomal dominant	Pathogenic
Autosomal dominant	Pathogenic
Autosomal dominant	Pathogenic
Autosomal dominant	Likely Pathogenic
Autosomal dominant	Pathogenic
Autosomal dominant	Likely Pathogenic
Autosomal dominant	Pathogenic
Autosomal dominant	Pathogenic
Autosomal dominant	Likely Pathogenic
Autosomal dominant	Likely Pathogenic
Autosomal dominant	Pathogenic
Autosomal dominant	Likely Pathogenic
Autosomal dominant	Likely Pathogenic
Autosomal dominant/Somatic mutation	Pathogenic
Autosomal dominant	Pathogenic
Autosomal dominant	Pathogenic
Autosomal dominant	Pathogenic
Autosomal dominant	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal recessive	Pathogenic/Likely Pathogenic
Autosomal dominant	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
X-linked dominant	Likely Pathogenic
Autosomal dominant	Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic

Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant	Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal dominant	Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal recessive	Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal dominant/Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal recessive	Likely Pathogenic
Autosomal dominant	Pathogenic
Autosomal recessive	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal dominant	Likely Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic
Autosomal dominant/Autosomal recessive	Pathogenic

Subject

IBD-001
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PubMed ID

31769566

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[illegible]

[illegible]

Table S15: Differential gene expression in

Geneid	Gene_Symbol
ENSG00000105492	SIGLEC6
ENSG00000132185	FCRLA
ENSG00000095585	BLNK
ENSG00000183762	KREMEN1
ENSG00000109320	NFKB1
ENSG00000153317	ASAP1
ENSG00000152672	CLEC4F
ENSG00000104856	RELB
ENSG00000125730	C3
ENSG00000162551	ALPL
ENSG00000077150	NFKB2
ENSG00000152492	CCDC50
ENSG00000143297	FCRL5
ENSG00000187554	TLR5
ENSG00000153064	BANK1
ENSG00000125744	RTN2
ENSG00000090339	ICAM1
ENSG00000139572	GPR84
ENSG00000198355	PIM3
ENSG00000182541	LIMK2
ENSG00000185436	IFNLR1
ENSG00000134532	SOX5
ENSG00000158286	RNF207
ENSG00000196663	TECPR2
ENSG00000072310	SREBF1
ENSG00000158481	CD1C
ENSG00000168081	PNOC
ENSG00000134070	IRAK2
ENSG00000103005	USB1
ENSG00000198216	CACNA1E
ENSG00000101336	HCK
ENSG00000106537	TSPAN13
ENSG00000082438	COBLL1
ENSG00000105639	JAK3
ENSG00000081052	COL4A4
ENSG00000137101	CD72
ENSG00000102837	OLFM4
ENSG00000118113	MMP8
ENSG00000196628	TCF4
ENSG00000112062	MAPK14
ENSG00000082014	SMARCD3
ENSG00000163421	PROK2
ENSG00000146592	CREB5
ENSG00000156738	MS4A1

ENSG00000269404	SPIB
ENSG00000100504	PYGL
ENSG00000143869	GDF7
ENSG00000135636	DYSF
ENSG00000255398	HCAR3
ENSG00000074660	SCARF1
ENSG00000140391	TSPAN3
ENSG00000127507	ADGRE2
ENSG00000129450	SIGLEC9
ENSG00000175471	MCTP1
ENSG00000187510	PLEKHG7
ENSG00000148926	ADM
ENSG00000123096	SSPN
ENSG00000144645	OSBPL10
ENSG00000173757	STAT5B
ENSG00000138772	ANXA3
ENSG00000134755	DSC2
ENSG00000158089	GALNT14
ENSG00000136573	BLK
ENSG00000101188	NTSR1
ENSG00000196189	SEMA4A
ENSG00000128918	ALDH1A2
ENSG00000240505	TNFRSF13B
ENSG00000113916	BCL6
ENSG00000119866	BCL11A
ENSG00000169031	COL4A3
ENSG00000136040	PLXNC1
ENSG00000183621	ZNF438
ENSG00000103647	CORO2B
ENSG00000112053	SLC26A8
ENSG00000110203	FOLR3
ENSG00000124588	NQO2
ENSG00000168546	GFRA2
ENSG00000157551	KCNJ15
ENSG00000068024	HDAC4
ENSG00000135842	NIBAN1
ENSG00000135365	PHF21A
ENSG00000151948	GLT1D1
ENSG00000089351	GRAMD1A
ENSG00000117298	ECE1
ENSG00000178814	OPLAH
ENSG00000140678	ITGAX
ENSG00000131323	TRAF3
ENSG00000182782	HCAR2
ENSG00000145491	ROPN1L
ENSG00000135519	KCNH3

ENSG00000129038	LOXL1
ENSG00000012223	LTF
ENSG000000059804	SLC2A3
ENSG00000143797	MBOAT2
ENSG00000132589	FLOT2
ENSG00000077238	IL4R
ENSG00000198053	SIRPA
ENSG00000111144	LTA4H
ENSG00000204936	CD177
ENSG00000117115	PADI2
ENSG00000169896	ITGAM
ENSG00000198794	SCAMP5
ENSG00000144791	LIMD1
ENSG00000239839	DEFA3
ENSG00000178295	GEN1
ENSG00000153253	SCN3A
ENSG00000124469	CEACAM8
ENSG00000100365	NCF4
ENSG00000143226	FCGR2A
ENSG00000061273	HDAC7
ENSG00000136457	CHAD
ENSG00000136048	DRAM1
ENSG00000110080	ST3GAL4
ENSG00000163932	PRKCD
ENSG00000091490	SEL1L3
ENSG00000160883	HK3
ENSG00000070915	SLC12A3
ENSG00000187474	FPR3
ENSG00000125538	IL1B
ENSG00000110777	POU2AF1
ENSG00000159128	IFNGR2
ENSG00000081189	MEF2C
ENSG00000116191	RALGPS2
ENSG00000204252	HLA-DOA
ENSG00000002726	AOC1
ENSG00000167676	PLIN4
ENSG00000140563	MCTP2
ENSG00000137312	FLOT1
ENSG00000171992	SYNPO
ENSG00000157350	ST3GAL2
ENSG00000177663	IL17RA
ENSG00000120306	CYSTM1
ENSG00000188786	MTF1
ENSG00000248099	INSL3
ENSG00000244482	LILRA6
ENSG00000123095	BHLHE41

ENSG00000167748	KLK1
ENSG00000166483	WEE1
ENSG00000173391	OLR1
ENSG00000100055	CYTH4
ENSG00000148346	LCN2
ENSG00000145901	TNIP1
ENSG00000176463	SLCO3A1
ENSG00000173442	EHBP1L1
ENSG00000184014	DENND5A
ENSG00000196735	HLA-DQA1
ENSG00000150625	GPM6A
ENSG00000184557	SOCS3
ENSG00000133805	AMPD3
ENSG00000170456	DENND5B
ENSG00000052749	RRP12
ENSG00000146072	TNFRSF21
ENSG00000165490	DDIAS
ENSG00000141562	NARF
ENSG00000064932	SBNO2
ENSG00000130348	QRSL1
ENSG00000005471	ABCB4
ENSG00000105369	CD79A
ENSG00000151726	ACSL1
ENSG00000160410	SHKBP1
ENSG00000160255	ITGB2
ENSG00000118564	FBXL5
ENSG00000169439	SDC2
ENSG00000127954	STEAP4
ENSG00000166825	ANPEP
ENSG00000159958	TNFRSF13C
ENSG00000170956	CEACAM3
ENSG00000166428	PLD4
ENSG00000026508	CD44
ENSG00000109684	CLNK
ENSG00000103723	AP3B2
ENSG00000124507	PACSIN1
ENSG00000121316	PLBD1
ENSG00000015475	BID
ENSG00000164821	DEFA4
ENSG00000101236	RNF24
ENSG00000167536	DHRS13
ENSG00000096696	DSP
ENSG00000133740	E2F5
ENSG00000110931	CAMKK2
ENSG00000151651	ADAM8
ENSG00000184293	CLECL1

ENSG00000177674	AGTRAP
ENSG00000130164	LDLR
ENSG00000149781	FERMT3
ENSG00000073331	ALPK1
ENSG00000146094	DOK3
ENSG00000163687	DNASE1L3
ENSG00000132704	FCRL2
ENSG00000065618	COL17A1
ENSG00000186431	FCAR
ENSG00000153250	RBMS1
ENSG00000167483	NIBAN3
ENSG00000160796	NBEAL2
ENSG00000101425	BPI
ENSG00000198734	F5
ENSG00000152380	FAM151B
ENSG00000197208	SLC22A4
ENSG00000084733	RAB10
ENSG00000080573	COL5A3
ENSG00000146828	SLC12A9
ENSG00000249437	NAIP
ENSG00000100300	TSPO
ENSG00000103569	AQP9
ENSG00000204301	NOTCH4
ENSG00000086548	CEACAM6
ENSG00000160785	SLC25A44
ENSG00000139178	C1RL
ENSG00000096063	SRPK1
ENSG00000149177	PTPRJ
ENSG00000130702	LAMA5
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CD_rare_CFB	
description	logFC
sialic acid binding Ig like lectin 6	0.62511401209
Fc receptor like A	0.5747305057
B cell linker	0.41240747243
kringle containing transmembrane protein 1	-0.86739666819
nuclear factor kappa B subunit 1	-0.21991296691
ArfGAP with SH3 domain, ankyrin repeat and PH domain 1	-0.34859161999
C-type lectin domain family 4 member F	1.1179217819
RELB proto-oncogene, NF-kB subunit	-0.4294225664
complement C3	-0.66426005439
alkaline phosphatase, biomineralization associated	-0.87404659599
nuclear factor kappa B subunit 2	-0.33476682323
coiled-coil domain containing 50	0.35915691907
Fc receptor like 5	0.50993390946
toll like receptor 5	-0.58549363974
B cell scaffold protein with ankyrin repeats 1	0.39572325266
reticulon 2	-0.47017981898
intercellular adhesion molecule 1	-0.41776343184
G protein-coupled receptor 84	-1.09995180798
Pim-3 proto-oncogene, serine/threonine kinase	-0.39249997708
LIM domain kinase 2	-0.45398021662
interferon lambda receptor 1	0.3247213772
SRY-box transcription factor 5	0.7877861998
ring finger protein 207	-0.54000681367
tectonin beta-propeller repeat containing 2	-0.41199204453
sterol regulatory element binding transcription factor 1	-0.25867066602
CD1c molecule	0.50203054245
prepronociceptin	0.42097176103
interleukin 1 receptor associated kinase 2	-0.29980492828
U6 snRNA biogenesis phosphodiesterase 1	-0.36788718919
calcium voltage-gated channel subunit alpha1 E	-0.66807784356
HCK proto-oncogene, Src family tyrosine kinase	-0.30123600089
tetraspanin 13	0.41378730926
cordon-bleu WH2 repeat protein like 1	0.38105314294
Janus kinase 3	-0.3080370014
collagen type IV alpha 4 chain	0.57586235973
CD72 molecule	0.28318860669
olfactomedin 4	-1.47819657886
matrix metalloproteinase 8	-1.3884256407
transcription factor 4	0.30601048271
mitogen-activated protein kinase 14	-0.3816160269
SWI/SNF related, matrix associated, actin dependent regulator of chro	-0.38346627229
prokineticin 2	-0.62554784519
cAMP responsive element binding protein 5	-0.38563546794
membrane spanning 4-domains A1	0.49929864301

Spi-B transcription factor	0.45641023529
glycogen phosphorylase L	-0.42394794821
growth differentiation factor 7	0.64180063373
dysferlin	-0.48802653918
hydroxycarboxylic acid receptor 3	-0.51954324701
scavenger receptor class F member 1	-0.57359448308
tetraspanin 3	0.22931398424
adhesion G protein-coupled receptor E2	-0.33614150849
sialic acid binding Ig like lectin 9	-0.30660255214
multiple C2 and transmembrane domain containing 1	-0.29201652248
pleckstrin homology and RhoGEF domain containing G7	0.64030281941
adrenomedullin	-0.6388563566
sarcospan	0.42639649296
oxysterol binding protein like 10	0.41831828425
signal transducer and activator of transcription 5B	-0.26424355079
annexin A3	-0.70615853353
desmocollin 2	-0.47544545091
polypeptide N-acetylgalactosaminyltransferase 14	-0.74308382156
BLK proto-oncogene, Src family tyrosine kinase	0.36038400149
neurotensin receptor 1	-0.61850355037
semaphorin 4A	-0.33245521385
aldehyde dehydrogenase 1 family member A2	-0.50187036602
TNF receptor superfamily member 13B	0.50763821141
BCL6 transcription repressor	-0.47433842008
BAF chromatin remodeling complex subunit BCL11A	0.23998120188
collagen type IV alpha 3 chain	0.47753569564
plexin C1	-0.29469463802
zinc finger protein 438	-0.36218735142
coronin 2B	0.53915938931
solute carrier family 26 member 8	-0.6119498841
folate receptor gamma	-0.4857813756
N-ribosyldihyronicotinamide:quinone reductase 2	-0.32978743741
GDNF family receptor alpha 2	0.50968384019
potassium inwardly rectifying channel subfamily J member 15	-0.44651436308
histone deacetylase 4	-0.29723796442
niban apoptosis regulator 1	-0.3680777185
PHD finger protein 21A	-0.27448528107
glycosyltransferase 1 domain containing 1	-0.33880535007
GRAM domain containing 1A	-0.25532727733
endothelin converting enzyme 1	-0.27629336617
5-oxoprolinase, ATP-hydrolysing	-0.63933696887
integrin subunit alpha X	-0.3242122532
TNF receptor associated factor 3	-0.20904947397
hydroxycarboxylic acid receptor 2	-0.44683573577
rhophilin associated tail protein 1 like	-0.36397726513
potassium voltage-gated channel subfamily H member 3	-0.4130225142

lysyl oxidase like 1	-0.48553799873
lactotransferrin	-1.03531771737
solute carrier family 2 member 3	-0.40041061561
membrane bound O-acyltransferase domain containing 2	-0.33088980296
flotillin 2	-0.33049907011
interleukin 4 receptor	-0.38152965392
signal regulatory protein alpha	-0.29968194631
leukotriene A4 hydrolase	-0.27706573365
CD177 molecule	-1.54947184853
peptidyl arginine deiminase 2	-0.38162919165
integrin subunit alpha M	-0.31327259421
secretory carrier membrane protein 5	0.48006359558
LIM domains containing 1	0.15531127967
defensin alpha 3	-1.22574799656
GEN1 Holliday junction 5' flap endonuclease	0.27715153551
sodium voltage-gated channel alpha subunit 3	0.4100500089
CEA cell adhesion molecule 8	-1.08114429756
neutrophil cytosolic factor 4	-0.29475909466
Fc fragment of IgG receptor IIa	-0.31955627401
histone deacetylase 7	-0.17769510569
chondroadherin	0.67512139692
DNA damage regulated autophagy modulator 1	-0.21820723766
ST3 beta-galactoside alpha-2,3-sialyltransferase 4	-0.41251761767
protein kinase C delta	-0.23706422301
SEL1L family member 3	0.20182517523
hexokinase 3	-0.35792927339
solute carrier family 12 member 3	0.63807123382
formyl peptide receptor 3	0.54753902297
interleukin 1 beta	-0.46527657292
POU class 2 homeobox associating factor 1	0.36337214681
interferon gamma receptor 2	-0.21850012585
myocyte enhancer factor 2C	0.19697512927
Ral GEF with PH domain and SH3 binding motif 2	0.24312137546
major histocompatibility complex, class II, DO alpha	0.30602235199
amine oxidase copper containing 1	-0.67296629042
perilipin 4	-0.43707206344
multiple C2 and transmembrane domain containing 2	-0.32766253346
flotillin 1	-0.2921473153
synaptopodin	0.41076392606
ST3 beta-galactoside alpha-2,3-sialyltransferase 2	-0.26741643423
interleukin 17 receptor A	-0.24298665822
cysteine rich transmembrane module containing 1	-0.41527078082
metal regulatory transcription factor 1	-0.24826453356
insulin like 3	-0.41855268259
leukocyte immunoglobulin like receptor A6	-0.32663822663
basic helix-loop-helix family member e41	0.55799172362

kallikrein 1	0.63454961611
WEE1 G2 checkpoint kinase	0.29038771324
oxidized low density lipoprotein receptor 1	-0.93836368445
cytohesin 4	-0.24042592857
lipocalin 2	-0.92821970675
TNFAIP3 interacting protein 1	-0.3031130455
solute carrier organic anion transporter family member 3A1	-0.20798952282
EH domain binding protein 1 like 1	-0.22399847791
DENN domain containing 5A	-0.22938830853
major histocompatibility complex, class II, DQ alpha 1	0.30516602141
glycoprotein M6A	0.51795732801
suppressor of cytokine signaling 3	-0.60919049717
adenosine monophosphate deaminase 3	-0.20015051657
DENN domain containing 5B	0.33507873977
ribosomal RNA processing 12 homolog	-0.26213808593
TNF receptor superfamily member 21	0.4815691281
DNA damage induced apoptosis suppressor	-0.3996336085
nuclear prelamin A recognition factor	-0.23235896863
strawberry notch homolog 2	-0.28346055848
glutaminyI-tRNA amidotransferase subunit QRSL1	0.1835093026
ATP binding cassette subfamily B member 4	0.33921733036
CD79a molecule	0.39475361013
acyl-CoA synthetase long chain family member 1	-0.41682375933
SH3KBP1 binding protein 1	-0.28763613574
integrin subunit beta 2	-0.21842243772
F-box and leucine rich repeat protein 5	-0.228503373
syndecan 2	0.67264807865
STEAP4 metalloreductase	-0.35165570019
alanyl aminopeptidase, membrane	-0.36204591757
TNF receptor superfamily member 13C	0.32242615831
CEA cell adhesion molecule 3	-0.29902760896
phospholipase D family member 4	0.37262679369
CD44 molecule (Indian blood group)	-0.23481745401
cytokine dependent hematopoietic cell linker	0.37332914737
adaptor related protein complex 3 subunit beta 2	-0.78580738264
protein kinase C and casein kinase substrate in neurons 1	0.35833211055
phospholipase B domain containing 1	-0.28380025933
BH3 interacting domain death agonist	-0.20469107308
defensin alpha 4	-1.18350225662
ring finger protein 24	-0.29438597403
dehydrogenase/reductase 13	-0.39632412742
desmoplakin	0.51716370409
E2F transcription factor 5	0.2809150029
calcium/calmodulin dependent protein kinase kinase 2	-0.22496819983
ADAM metallopeptidase domain 8	-0.22947215834
C-type lectin like 1	0.33761212844

angiotensin II receptor associated protein	-0.23639943218
low density lipoprotein receptor	-0.31237490622
fermitin family member 3	-0.23647733341
alpha kinase 1	-0.29409335115
docking protein 3	-0.33019180952
deoxyribonuclease 1 like 3	0.54755839478
Fc receptor like 2	0.37553774585
collagen type XVII alpha 1 chain	-1.05888223387
Fc fragment of IgA receptor	-0.38655862343
RNA binding motif single stranded interacting protein 1	-0.1378109146
niban apoptosis regulator 3	0.30465908532
neurobeachin like 2	-0.23824569784
bactericidal permeability increasing protein	-0.72100469655
coagulation factor V	-0.39696681499
family with sequence similarity 151 member B	-0.29085806235
solute carrier family 22 member 4	-0.32311373727
RAB10, member RAS oncogene family	-0.12904331185
collagen type V alpha 3 chain	0.41905042943
solute carrier family 12 member 9	-0.21937094557
NLR family apoptosis inhibitory protein	-0.41644831406
translocator protein	-0.33352202102
aquaporin 9	-0.34698149535
notch receptor 4	0.49622177662
CEA cell adhesion molecule 6	-1.04574016582
solute carrier family 25 member 44	-0.24799649276
complement C1r subcomponent like	-0.21315841877
SRSF protein kinase 1	-0.29215549251
protein tyrosine phosphatase receptor type J	-0.25057897761
laminin subunit alpha 5	0.30262409168
CD19 molecule	0.3142465288
calpain 13	-0.85319660433
arachidonate 5-lipoxygenase	-0.25276931745
brain abundant membrane attached signal protein 1	-0.41741199362
signal transducing adaptor family member 1	0.27521710322
major histocompatibility complex, class II, DO beta	0.29942301515
zinc finger DHHC-type palmitoyltransferase 19	-0.82662429246
histamine receptor H2	-0.31485319789
regulator of hemoglobinization and erythroid cell expansion	0.34239679254
phosphatidylglycerophosphate synthase 1	-0.28443785222
copine 5	0.33387441115
STEAP family member 1B	0.27811237696
pyruvate dehydrogenase kinase 4	0.58169731826
ADAM metallopeptidase domain 28	0.29118875862
interleukin 7	0.31157849904
ETS proto-oncogene 2, transcription factor	-0.25993886199
DnaJ heat shock protein family (Hsp40) member C5	-0.16440256778

BCL3 transcription coactivator	-0.36516456108
testis expressed 9	0.32729188326
elastase, neutrophil expressed	-1.08009936733
major histocompatibility complex, class II, DQ alpha 2	0.3282928981
cortactin binding protein 2	0.77603314457
formin homology 2 domain containing 1	-0.16667921008
INSC spindle orientation adaptor protein	-0.59789243556
phosphate cytidylyltransferase 1, choline, alpha	-0.1639694623
SLAM family member 6	0.17999147378
T cell leukemia/lymphoma 1A	0.36615389142
leukocyte immunoglobulin like receptor A4	0.50623144498
Fc fragment of IgG receptor Ib	-0.5987588837
perilipin 5	-0.35393629176
EBF transcription factor 1	0.3498664733
haptoglobin	-0.74233017011
AF4/FMR2 family member 3	0.27121354579
diacylglycerol O-acyltransferase 2	-0.34430597089
WD repeat and FYVE domain containing 3	-0.31461808877
glutamine-fructose-6-phosphate transaminase 2	0.60078942624
LDL receptor related protein associated protein 1	-0.18601117309
immunoglobulin like domain containing receptor 1	0.53684312177
tudor domain containing 9	-0.50144703579
target of myb1 membrane trafficking protein	-0.18952307361
S100 calcium binding protein A9	-0.38875868147
SET binding factor 2	-0.23825461043
NFKB inhibitor zeta	-0.25185177953
5'-3' exoribonuclease 2	-0.15650251148
B and T lymphocyte associated	0.24280977568
FGR proto-oncogene, Src family tyrosine kinase	-0.20626435237
VPS9 domain containing 1	-0.27930069193
interferon alpha and beta receptor subunit 1	-0.20834972568
vav guanine nucleotide exchange factor 1	-0.16159469942
regulatory factor X2	-0.38815305013
tubulin beta 6 class V	0.25883557033
kelch repeat and BTB domain containing 8	0.29965937069
heparanase	-0.29695015777
maltase-glucoamylase 2 (putative)	-0.46354637683
RAS guanyl releasing protein 4	-0.23753694506
adhesion G protein-coupled receptor E1	-0.35369535812
RAB20, member RAS oncogene family	-0.40710831978
phospholipid phosphatase 5	0.20973323502
protein tyrosine phosphatase receptor type E	-0.17757302587
amyloid beta precursor protein binding family B member 1 interacting pr	-0.20249323647
colony stimulating factor 2 receptor subunit beta	-0.27102020051
peptidase inhibitor 3	-0.70736167616
protein tyrosine phosphatase receptor type K	0.3261228769

bone marrow stromal cell antigen 1	-0.248991077
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	-0.35589789474
tet methylcytosine dioxygenase 3	-0.16212786676
cathelicidin antimicrobial peptide	-0.62735508766
growth arrest specific 7	-0.26692928874
MAX dimerization protein 3	-0.24642608238
tribbles pseudokinase 2	0.23401853348
brain enriched myelin associated protein 1	0.52459644061
GIT ArfGAP 2	-0.12255841631
mitogen-activated protein kinase kinase kinase 20	-0.30014222571
Fc fragment of IgG receptor Ia	-0.71507514178
FA complementation group D2	0.1551466741
signal transducer and activator of transcription 5A	-0.17576112462
CD22 molecule	0.29543251399
lin-7 homolog A, crumbs cell polarity complex component	-0.23063414762
phospholipase B1	-0.34213469972
myristoylated alanine rich protein kinase C substrate	-0.33269007206
paxillin	-0.20157393273
cytoskeleton associated protein 4	-0.31504898523
serpin family F member 1	0.32755165087
TNF receptor associated factor 4	0.24960846645
CDC42 effector protein 3	-0.25552043894
LIM domain kinase 1	-0.30448089058
interferon regulatory factor 8	0.1826398859
serpin family A member 1	-0.2632905616
LYN proto-oncogene, Src family tyrosine kinase	-0.20753857958
plasminogen activator, urokinase	-0.48692557227
interleukin 12 receptor subunit beta 2	0.30168875299
slingshot protein phosphatase 1	-0.21939119862
actinin alpha 1	-0.24559990872
matrix metalloproteinase 25	-0.27730899791
osteoclast associated Ig-like receptor	-0.23913297447
transmembrane protein 176B	-0.35083626331
complement C3b/C4b receptor 1 (Knops blood group)	-0.35063325591
ataxin 1	-0.18095291792
asialoglycoprotein receptor 2	-0.34129538637
nicotinamide phosphoribosyltransferase	-0.3141912821
lymphotoxin beta receptor	-0.22103714555
junction adhesion molecule like	-0.17463961958
ZFP36 ring finger protein like 1	-0.24462281254
androgen induced 1	-0.19374855988
solute carrier family 25 member 37	-0.35772950724
dehydrogenase/reductase 3	-0.1961689306
family with sequence similarity 126 member B	-0.26471809257
perilipin 3	-0.26284585633
mast cell expressed membrane protein 1	-0.60497227333

TAP binding protein	-0.18738901501
novel protein	-0.27605786638
KIAA0825	-0.28434546581
EF-hand calcium binding domain 12	-0.26611309934
pleckstrin homology and RhoGEF domain containing G1	0.27649033377
ubiquitin conjugating enzyme E2 D1	-0.24669325343
paired box 5	0.28219359282
SET binding protein 1	0.18891451182
transmembrane protein 176A	-0.36046036947
protein phosphatase 1 regulatory subunit 3B	-0.30542918328
pleckstrin	-0.19247155362
teashirt zinc finger homeobox 3	-0.23758679385
fibronectin type III domain containing 3B	-0.2294854472
myosin X	-0.46694199201
oncostatin M	-0.5071264678
cystatin F	-0.45133670828
solute carrier family 38 member 11	0.32469611207
adhesion G protein-coupled receptor G3	-0.35332557614
nuclear factor, erythroid 2 like 2	-0.1498781461
MAPK interacting serine/threonine kinase 1	-0.22000514503
pro-apoptotic WT1 regulator	0.24866994269
peptidoglycan recognition protein 1	-0.50861910348
kazrin, periplakin interacting protein	-0.31651334822
C-type lectin domain containing 5A	-0.39815283352
serine/threonine kinase 10	-0.12838997828
solute carrier family 9 member A1	-0.19264280515
sodium voltage-gated channel beta subunit 1	-0.3657932426
RFX family member 8, lacking RFX DNA binding domain	0.4295364434
S100 calcium binding protein A12	-0.54282184949
transmembrane protein 121B	-0.30909613187
docking protein 7	0.47423606913
CD79b molecule	0.39452502948
chromosome 11 open reading frame 80	0.19762359909
cell division cycle associated 7	0.37879181914
mast cell immunoglobulin like receptor 1	-0.24175094846
ubiquitin associated protein 1	-0.18946714108
cathepsin A	-0.24641960537
RAS guanyl releasing protein 3	0.23841703226
spermatogenesis and centriole associated 1	-0.47419275382
leukocyte immunoglobulin like receptor B3	-0.23121309704
DnaJ heat shock protein family (Hsp40) member C3	-0.1909553092
Fc fragment of IgE receptor Ig	-0.30838606604
prostate transmembrane protein, androgen induced 1	0.25505516858
HLF transcription factor, PAR bZIP family member	0.3404894741
ficolin 1	-0.22215232372
THO complex 5	-0.17254788378

glycine amidinotransferase	0.27331792612
glutamate ionotropic receptor NMDA type subunit associated protein 1	-0.39412158829
zinc finger protein 467	-0.26900123452
ATP binding cassette subfamily A member 13	-0.64738494832
SH3 domain containing ring finger 2	0.4910249309
cysteine rich secretory protein 3	-0.69835046251
serine/threonine kinase 3	-0.26317611942
cadherin EGF LAG seven-pass G-type receptor 1	0.26550886622
serpin family B member 10	-0.62114514609
heparan sulfate-glucosamine 3-sulfotransferase 1	0.37234408361
inosine monophosphate dehydrogenase 1	-0.21200174131
DiGeorge syndrome critical region gene 2	-0.14810029032
lamin B1	-0.30586007562
lysine demethylase 6B	-0.25562455797
gamma-aminobutyric acid type A receptor subunit rho2	-0.40071976657
GLI pathogenesis related 2	-0.18158858514
CAP-Gly domain containing linker protein 1	-0.13814499474
NCK associated protein 5 like	-0.18282121981
NUMB endocytic adaptor protein	-0.17597743148
ubiquitin associated and SH3 domain containing B	-0.15578170565
RAR related orphan receptor C	0.2665124731
resistin	-0.52675193674
FYN binding protein 1	-0.15615051471
LARGE xylosyl- and glucuronyltransferase 1	0.25904912095
superoxide dismutase 2	-0.29758615079
transmembrane protein 156	0.16355822013
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta	-0.15884895397
Spi-1 proto-oncogene	-0.242736931
kelch like family member 5	-0.13733768307
secretory leukocyte peptidase inhibitor	-0.53892569459
double PHD fingers 3	0.28357224642
cochlin	0.36452217751
C-C motif chemokine receptor 4	0.25188420815
ATP binding cassette subfamily C member 3	-0.30247260182
prolyl 4-hydroxylase subunit alpha 2	-0.30551145702
leukocyte receptor tyrosine kinase	0.28646652498
aspartate beta-hydroxylase	-0.32434724637
G protein subunit alpha 15	-0.22706605621
zinc finger CCCH-type containing 12A	-0.16305209133
TIMP metalloproteinase inhibitor 2	-0.20236126469
JunB proto-oncogene, AP-1 transcription factor subunit	-0.26776977626
nuclear factor, erythroid 2	-0.31741150421
zinc finger protein 316	-0.14471663157
nectin cell adhesion molecule 2	-0.31818958998
ankyrin repeat domain 33B	-0.23619731467
DSN1 component of MIS12 kinetochore complex	0.17177238

RAB27A, member RAS oncogene family	-0.15051645896
CDP-diacylglycerol synthase 2	-0.13823848299
katanin catalytic subunit A1 like 1	0.19564895111
elastin microfibril interfacier 2	-0.23603436125
MTSS I-BAR domain containing 1	0.18339031915
mal, T cell differentiation protein	-0.23897190226
mitochondrial calcium uptake 1	-0.13746620344
RAB31, member RAS oncogene family	-0.20721786903
vasodilator stimulated phosphoprotein	-0.24932691213
uridine phosphorylase 1	-0.25361035088
thioredoxin reductase 1	-0.15206410024
ubiquitin like with PHD and ring finger domains 2	0.14055483857
potassium inwardly rectifying channel subfamily J member 2	-0.30516208146
acidic nuclear phosphoprotein 32 family member A	-0.12918651527
ubiquitin specific peptidase 28	0.15843338345
transient receptor potential cation channel subfamily M member 2	-0.27354974012
maltase-glucoamylase	-0.36252694066
capicua transcriptional repressor	-0.17842547634
CASP8 and FADD like apoptosis regulator	-0.17895746736
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase	-0.37397162896
cannabinoid receptor 2	0.1997894169
solute carrier family 16 member 6	-0.1523735495
dual specificity phosphatase 3	-0.25608123149
glutaminy-peptide cyclotransferase	-0.30653323093
integrin subunit alpha 7	-0.61005534844
carnitine palmitoyltransferase 1A	0.33535280385
transgelin	0.20219873653
C-C motif chemokine receptor 5 (gene/pseudogene)	0.24745601921
protein kinase C and casein kinase substrate in neurons 2	-0.180594283
prolylcarboxypeptidase	-0.15855995057
HIVEP zinc finger 1	-0.167849768
EMAP like 6	0.30095228833
zinc finger protein 860	0.41404672977
NFKB inhibitor alpha	-0.27333885858
zinc finger and BTB domain containing 7B	-0.18976346225
P2RX5-TAX1BP3 readthrough (NMD candidate)	0.36207771013
folistatin like 3	-0.28016444948
protein tyrosine phosphatase non-receptor type 13	0.26605464064
docking protein 4	-0.41348207632
SH3 domain binding protein 4	0.31268152794
protein tyrosine phosphatase receptor type S	0.29069207225
NLR family pyrin domain containing 12	-0.21944452424
EH domain containing 1	-0.23132500554
mucolipin 2	0.21681957766
ryanodine receptor 1	0.28618643929
integrin subunit beta 4	-0.54892862858

CD82 molecule	-0.22287780284
EGF containing fibulin extracellular matrix protein 2	-0.21146573177
SID1 transmembrane family member 2	0.15886071439
methyltransferase like 9	-0.22965183036
serpin family B member 1	-0.21036244559
solute carrier family 9 member A8	-0.19386910364
major histocompatibility complex, class II, DQ beta 2	0.26488388431
myosin binding protein C3	-0.26505925303
solute carrier family 2 member 6	-0.2363694754
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1K	0.2070508002
ras homolog family member Q	-0.12762774111
neutrophil cytosolic factor 2	-0.16930441752
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta	-0.12096067571
ribonuclease A family member k6	0.26849451203
glycerol-3-phosphate acyltransferase 3	-0.20218172761
mannose receptor C-type 1	0.44721164075
piwi like RNA-mediated gene silencing 4	-0.23379773744
pleckstrin homology domain containing M3	-0.12617777918
deleted in azoospermia like	0.53808828186
glucosylceramidase beta	-0.1974035081
KIT proto-oncogene, receptor tyrosine kinase	0.39805666361
toll like receptor 1	-0.2077365592
ADAM metallopeptidase with thrombospondin type 1 motif 2	-1.36308294599
major histocompatibility complex, class II, DP beta 1	0.22713069158
dihydropyrimidine dehydrogenase	-0.15864600512
phosphogluconate dehydrogenase	-0.25392241349
zinc finger protein 516	-0.2093134854
solute carrier family 41 member 2	0.33068526731
angiopoietin 1	0.41470268516
acyl-CoA synthetase short chain family member 2	-0.13715855575
cut like homeobox 1	-0.17992084022
proteoglycan 4	0.38065584524
kinesin family member 1B	-0.23283916599
formyl peptide receptor 1	-0.26913182296
harakiri, BCL2 interacting protein	0.47439933126
RNA binding motif protein 47	-0.25321169597
G protein-coupled receptor 19	0.25621530701
pyruvate kinase M1/2	-0.20563718512
transient receptor potential cation channel subfamily M member 6	-0.28333158264
apoptosis associated tyrosine kinase	-0.26267027429
fatty acid 2-hydroxylase	0.3948756234
F-box and leucine rich repeat protein 13	-0.29067825075
NBPF member 26	-0.23929948548
potassium channel modulatory factor 1	-0.10569696942
KIAA0556	-0.12382443643
MLLT1 super elongation complex subunit	-0.18307344268

CD14 molecule	-0.28736447273
TRAF interacting protein with forkhead associated domain	-0.31569030166
solute carrier family 16 member 3	-0.21044146393
C-type lectin domain containing 17A	0.23651127562
hippocalcin like 1	-0.13774904689
small integral membrane protein 14	0.10542933605
novel protein	-0.22130781755
nibrin	-0.20830010028
beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase	0.25366931335
golgi associated, gamma adaptin ear containing, ARF binding protein 2	0.10804049083
regulator of G protein signaling 14	-0.14486007729
major histocompatibility complex, class II, DP alpha 1	0.25114738235
solute carrier family 12 member 6	-0.15689504254
clathrin heavy chain like 1	-0.23498201788
solute carrier family 17 member 9	0.18887809916
microsomal glutathione S-transferase 1	-0.23523008931
cysteinyl-tRNA synthetase 1	-0.10285365544
oocyte secreted protein family member 3	-0.42932602772
proteinase 3	-0.9140967566
complement C3a receptor 1	-0.3028391158
myosin VC	0.33862106936
grancalcin	-0.2668010696
glycogenin 1	-0.31714486311
recombination signal binding protein for immunoglobulin kappa J region	-0.14038540238
yippee like 1	0.19046163712
interleukin 1 receptor associated kinase 3	-0.28625237484
complement C3d receptor 2	0.24736734227
beta-ureidopropionase 1	-0.35988676942
acetyl-CoA acyltransferase 2	0.17666196412
hepsin	-0.50572822697
dedicator of cytokinesis 4	-0.41091410465
ubiquitin specific peptidase 32	-0.15301629676
RPGR interacting protein 1	0.29754211776
metaxin 1	-0.19240098658
zinc finger DHHC-type palmitoyltransferase 23	0.23704135779
EF-hand calcium binding domain 2	-0.27248269196
GRAM domain containing 1C	0.43373289453
ral guanine nucleotide dissociation stimulator like 4	-0.28683283059
neuropilin and tolloid like 1	0.42545136337
carbonic anhydrase 4	-0.36134208817
acetyl-CoA acyltransferase 1	-0.12071658108
beta-1,4-galactosyltransferase 5	-0.24223300991
solute carrier family 12 member 2	0.16180726297
tetratricopeptide repeat domain 21A	0.32773181302
nuclear factor I C	-0.13914912786
PTTG1 interacting protein	-0.10895783171

N-sulfoglucosamine sulfohydrolase	-0.17217300587
NFAT activating protein with ITAM motif 1	-0.20278367984
signaling lymphocytic activation molecule family member 1	0.16332422234
5'-nucleotidase domain containing 4	-0.35709576983
WD repeat domain 34	0.26117671146
dual specificity tyrosine phosphorylation regulated kinase 4	0.35906093499
aldehyde dehydrogenase 2 family member	-0.19606203407
IQ motif and Sec7 domain ArfGEF 1	-0.14865587385
solute carrier family 25 member 20	0.23820127511
glycogen phosphorylase, muscle associated	-0.19423392568
TNF receptor superfamily member 1A	-0.19174083632
NIMA related kinase 6	-0.20073997351
apoptosis resistant E3 ubiquitin protein ligase 1	-0.12470334855
cut like homeobox 2	0.34161695634
proline-serine-threonine phosphatase interacting protein 1	-0.12098488535
zinc finger protein 710	-0.14445069858
mitogen-activated protein kinase kinase kinase kinase 1	0.14027455356
retinoid X receptor alpha	-0.18391257186
NEDD4 binding protein 1	-0.16735345663
Yip1 domain family member 1	-0.14877550669
TNF alpha induced protein 6	-0.44604805047
family with sequence similarity 111 member B	0.3912183585
dehydrogenase/reductase 7B	-0.11811421683
TNF receptor associated factor 5	0.16390341165
zinc finger DHHC-type palmitoyltransferase 21	0.21802395766
ZFP36 ring finger protein	-0.19967831919
MAX network transcriptional repressor	-0.13568809535
folliculin like 4	-0.768779919
FERM, ARH/RhoGEF and pleckstrin domain protein 2	0.1191786821
macrophage erythroblast attacher, E3 ubiquitin ligase	-0.1331536574
zinc finger protein 106	-0.12918136621
myotubularin related protein 3	-0.16554453883
mitogen-activated protein kinase kinase kinase kinase 4	-0.15347833162
lysophosphatidylcholine acyltransferase 3	-0.15869680169
solute carrier family 8 member B1	-0.09888119682
RAB32, member RAS oncogene family	-0.22553673007
myeloperoxidase	-0.56346771791
ATPase H ⁺ transporting V0 subunit d1	-0.17926579063
transmembrane protein 88	-0.26957696326
phosphatidylinositol binding clathrin assembly protein	-0.14942936236
nicotinic	-0.12740146424
golgi membrane protein 2	-0.10225643195
GATA zinc finger domain containing 2A	-0.11626311503
NLR family CARD domain containing 4	-0.2366975248
DEXH-box helicase 34	-0.18661562167
supervillin	-0.17871574711

cyclin Y	-0.11418212016
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1N (putative)	-0.2463418896
activating transcription factor 6	-0.15913245784
formyl peptide receptor 2	-0.24510573574
eukaryotic translation initiation factor 2 alpha kinase 3	0.1236034778
claudin domain containing 1	0.15844624339
myelin protein zero like 1	0.29651782003
caspase recruitment domain family member 19	-0.14341530246
kinesin family member 13A	-0.17440289932
RAD23 homolog B, nucleotide excision repair protein	-0.14017517368
microtubule affinity regulating kinase 3	-0.12607574866
phospholipase C like 2	-0.12350557285
sulfotransferase family 1B member 1	-0.26612266087
phospholipase A2 group IVC	-0.26238678725
CD80 molecule	0.40642143828
retinoic acid receptor gamma	-0.15478160626
zinc finger and SCAN domain containing 9	0.15695835631
CD274 molecule	-0.55667673813
spermatid perinuclear RNA binding protein	0.16357434509
family with sequence similarity 160 member A2	-0.14961108504
matrix metalloproteinase 9	-0.47964269437
serine incorporator 2	-0.29347841884
cytochrome b-245 chaperone 1	-0.14671456644
major vault protein	-0.16075056347
pseudouridine synthase 7	0.159327304
mitogen-activated protein kinase kinase 3	-0.27098458881
ubiquitin domain containing 1	-0.22044602831
small integral membrane protein 35	0.29100472507
interleukin 10 receptor subunit beta	-0.2209242667
tetratricopeptide repeat domain 9	0.16804160855
cytochrome P450 family 4 subfamily F member 12	-0.29064949606
autophagy related 7	-0.16952969968
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1	-0.15321995478
RELT TNF receptor	-0.13807489433
transmembrane and coiled-coil domains 3	-0.18908125227
G protein-coupled receptor kinase 6	-0.16016985692
quiescin sulfhydryl oxidase 1	-0.17034082368
transmembrane protein 45B	-0.24831618957
free fatty acid receptor 2	-0.28197826779
phosphatase and actin regulator 1	0.23546314031
MCF.2 cell line derived transforming sequence-like 2	0.20364682603
sphingomyelin phosphodiesterase acid like 3A	-0.23058442289
RAD51 associated protein 1	0.35661270736
C9orf72-SMCR8 complex subunit	-0.19034799691
FRAT regulator of WNT signaling pathway 2	-0.24591577081
IKAROS family zinc finger 3	0.12785826033

coiled-coil serine rich protein 1	0.28895198942
zyxin	-0.24031281408
sorting nexin 10	-0.16817878428
novel protein	-0.42584390763
ETS transcription factor ERG	-0.52375120531
transmembrane protein 185B	-0.15571536942
TNF alpha induced protein 3	-0.20273982321
chromosome 16 open reading frame 72	-0.16609100172
NFKB inhibitor epsilon	-0.20585149227
lactamase beta	-0.18361389333
family with sequence similarity 117 member A	-0.20741433876
CD180 molecule	0.21281310663
nuclear receptor subfamily 6 group A member 1	-0.23315666607
pleckstrin 2	-0.60024726874
FES proto-oncogene, tyrosine kinase	-0.16520014691
transcription elongation factor A3	-0.19677292397
Ral GTPase activating protein catalytic subunit alpha 2	-0.17905181415
PDZ and LIM domain 7	-0.22824786997
vimentin	-0.20131206935
zinc finger and BTB domain containing 32	0.33727434305
brain protein I3	-0.17631196583
protocadherin 9	0.30700878516
zinc finger protein 518B	0.1323540532
DISC1 scaffold protein	-0.22844528538
TBC1 domain family member 14	-0.16858468031
transcription factor EB	-0.14881995838
basic leucine zipper ATF-like transcription factor 3	0.30275924213
solute carrier family 37 member 3	-0.27568938403
TBC1 domain family member 2B	-0.12682861977
reticulum 4	-0.11195842617
notch receptor 2	-0.17536548998
sialic acid binding Ig like lectin 5	-0.29593222189
ArfGAP with GTPase domain, ankyrin repeat and PH domain 3	-0.14691306578
transmembrane protein 165	-0.16124248037
reticulum 3	-0.18989582805
sushi domain containing 6	-0.14554188551
plasminogen activator, urokinase receptor	-0.20493470419
SOS Ras/Rho guanine nucleotide exchange factor 2	-0.1493681372
protein tyrosine kinase 2 beta	-0.13142675058
ankyrin repeat domain 34B	-0.3870844666
EF-hand domain family member D2	-0.18693163291
cell division cycle associated 7 like	0.1739430464
transcription termination factor 1	0.10220120075
TLE family member 1, transcriptional corepressor	0.23221009013
Pim-1 proto-oncogene, serine/threonine kinase	-0.24835463842
ATPase phospholipid transporting 11A	-0.15870028477

ADP ribosylation factor GTPase activating protein 3	-0.10601617702
CBFA2/RUNX1 partner transcriptional co-repressor 3	-0.16505132044
ATP/GTP binding protein 1	-0.16575495761
dachshund family transcription factor 1	-0.27870931406
novel protein, SIRPB1-SIRPD readthrough	-0.17415217052
transforming acidic coiled-coil containing protein 3	-0.13387706897
growth factor receptor bound protein 2	-0.13109446388
neuregulin 1	-0.35176802649
family with sequence similarity 53 member C	-0.18957577767
Rho/Rac guanine nucleotide exchange factor 2	-0.10159291873
acyl-CoA binding domain containing 3	0.07517682094
chromosome 19 open reading frame 38	-0.18535563975
zinc finger and BTB domain containing 47	-0.19743256547
SH2B adaptor protein 2	-0.18224541086
nucleotide binding oligomerization domain containing 2	-0.19480607589
lysophosphatidylcholine acyltransferase 2	-0.20782685849
WD repeat and HMG-box DNA binding protein 1	0.21683512193
interleukin 1 receptor type 1	-0.33371288864
mono-ADP ribosylhydrolase 2	0.44539800989
SH3 domain binding protein 2	-0.108270797
microtubule crosslinking factor 1	0.36283747133
semaphorin 4B	-0.14175319507
nuclear GTPase, germinal center associated	0.21522876956
tripartite motif containing 25	-0.21835375352
ankyrin repeat and ubiquitin domain containing 1	0.26648146532
lysine acetyltransferase 6A	-0.12313278683
DENN domain containing 3	-0.18055358977
desumoylating isopeptidase 1	-0.11022627001
zinc finger AN1-type containing 3	-0.13818938358
glutathione peroxidase 3	0.40368940781
leukocyte immunoglobulin like receptor A5	-0.30611049027
siah E3 ubiquitin protein ligase 2	-0.34801107317
activator of transcription and developmental regulator AUTS2	0.17536774806
nuclear factor of activated T cells 2 interacting protein	0.08253886467
novel lipoprotein amino terminal region containing protein	-0.30433040917
putative homeodomain transcription factor 2	0.14442800638
hyaluronidase 2	-0.22963932016
acyloxyacyl hydrolase	-0.12622931965
Rho guanine nucleotide exchange factor 4	0.28110503959
zinc finger CCCH-type containing 3	-0.15132473738
ADP ribosylation factor like GTPase 11	-0.15882998553
interleukin 6 receptor	-0.16012752347
adipocyte plasma membrane associated protein	-0.22470635669
microtubule associated monooxygenase, calponin and LIM domain con-	-0.13397856318
protein phosphatase 1 regulatory subunit 16B	0.12351465231
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta	0.15253323846

vanin 2	-0.24230203784
methyltransferase like 8	0.11200768795
zinc finger DHHC-type palmitoyltransferase 18	-0.19507860745
tectonin beta-propeller repeat containing 1	-0.10186428384
chondroitin sulfate N-acetylgalactosaminyltransferase 1	-0.19953393675
granulin precursor	-0.22700502876
mannosidase alpha class 1C member 1	-0.15059687278
inhibitor of nuclear factor kappa B kinase subunit epsilon	-0.12671785759
kinase non-catalytic C-lobe domain containing 1	-0.32494745859
sorting nexin 22	0.21205909505
thyroid hormone receptor beta	0.34604320094
ubiquitin specific peptidase 46	0.15595980295
arrestin beta 2	-0.16532918015
endosome-lysosome associated apoptosis and autophagy regulator 1	-0.21549008121
steroid receptor RNA activator 1	-0.13728388887
N-terminal EF-hand calcium binding protein 1	-1.13048837612
dynein axonemal heavy chain 8	0.37293841281
protein phosphatase, Mg2+/Mn2+ dependent 1M	-0.14467602034
UDP-N-acetylglucosamine pyrophosphorylase 1 like 1	-0.15111780642
neuritin 1	-0.53248353994
exostosin glycosyltransferase 1	-0.22578429619
kelch like family member 2	-0.23121415385
putative homeodomain transcription factor 1	-0.20759912063
potassium voltage-gated channel subfamily H member 8	0.26329150921
dachsous cadherin-related 1	-0.18705945176
lymphotoxin beta	-0.15758935175
adaptor protein, phosphotyrosine interacting with PH domain and leucine	0.12307848183
schlafen family member 5	0.16363308479
lysine demethylase 2A	-0.11182422383
TPD52 like 2	-0.12944133666
CD58 molecule	-0.13500440851
glutamate rich 1	-0.11614571416
C-type lectin domain containing 10A	0.27231150891
ring finger protein 182	-0.70173465353
niban apoptosis regulator 2	-0.21393540396
Rap guanine nucleotide exchange factor like 1	-0.17292307576
ring finger protein 149	-0.15235567023
timeless circadian regulator	0.15455240581
furin, paired basic amino acid cleaving enzyme	-0.24083101115
vitamin D receptor	-0.16798539762
C-terminal binding protein 2	-0.14335449934
cytokine inducible SH2 containing protein	-0.20601599765
aminopeptidase puromycin sensitive	-0.09817848315
G protein-coupled receptor class C group 5 member B	-0.40842028764
catenin alpha 1	-0.13236116338
ribosomal protein S6 kinase A1	-0.14510937526

TBC1 domain family member 2	-0.13753153743
BAF chromatin remodeling complex subunit BCL7A	0.17592914208
Kruppel like factor 7	-0.14331745402
small integral membrane protein 1 (Vel blood group)	-0.60699436722
major histocompatibility complex, class II, DQ beta 1	0.19212594891
G protein-coupled receptor 18	0.20340228319
C-X-C motif chemokine receptor 6	0.30630217802
maestro heat like repeat family member 6	-0.23118444672
solute carrier family 44 member 5	0.37956881311
BEN domain containing 4	0.27986341256
dynamamin 2	-0.09430058729
complement C3b/C4b receptor 1 like	-0.30475471535
midnolin	-0.19517405832
BTB domain and CNC homolog 1	-0.14532019419
BAI1 associated protein 3	0.29022450408
1-acylglycerol-3-phosphate O-acyltransferase 2	-0.17479400846
tripartite motif containing 8	-0.15635993696
inositol polyphosphate phosphatase like 1	-0.10879348947
zinc finger protein 706	0.08517758864
lysophosphatidic acid receptor 1	-0.2238318295
N-acetylneuraminate pyruvate lyase	-0.16570255687
neural EGFL like 2	-0.19382278113
c-Maf inducing protein	-0.14166794394
LDL receptor related protein 5	0.24318541274
C-terminal Src kinase	-0.13196913938
notch receptor 1	-0.17883559166
calpastatin	-0.09688716929
fucosyltransferase 8	0.13113923608
transforming growth factor alpha	-0.24274955112
caspase 4	-0.19110213909
lipopolysaccharide induced TNF factor	-0.23209897525
kynurenine 3-monooxygenase	0.17499240591
COP1 E3 ubiquitin ligase	-0.1453914289
B9 domain containing 2	-0.14621418067
deltex E3 ubiquitin ligase 4	0.25555784858
exportin 6	-0.17493697602
structural maintenance of chromosomes 6	0.17038477936
cap binding complex dependent translation initiation factor	-0.14738346645
phosphatidylinositol glycan anchor biosynthesis class H	0.10590012205
Rap guanine nucleotide exchange factor 5	0.44552002447
retinoic acid receptor alpha	-0.1769994865
protein phosphatase 1 regulatory subunit 10	-0.10937771732
sorting nexin 25	0.1382339143
late endosomal/lysosomal adaptor, MAPK and MTOR activator 1	-0.12888065683
ADAM metallopeptidase domain 9	-0.18546632462
SH2 domain containing 3C	-0.12106245916

intraflagellar transport 57	0.18957757686
base methyltransferase of 25S rRNA 2 homolog	-0.11958502837
cytochrome b5 reductase 1	-0.15025376262
TNF superfamily member 15	-0.36968584681
vanin 1	-0.3023073029
transmembrane protein 158 (gene/pseudogene)	-0.55117723714
S100 calcium binding protein A8	-0.40479876315
G protein subunit gamma 7	0.18071804886
tumor protein p63	0.37441086193
glucosamine (N-acetyl)-6-sulfatase	-0.14633340724
RAB GTPase activating protein 1 like	0.10523721466
transketolase	-0.1847844913
KH RNA binding domain containing, signal transduction associated 2	0.21039477306
cathepsin G	-0.75158683763
novel protein	-0.25417345784
cell cycle progression 1	-0.17106838403
regulator of G protein signaling 3	-0.15528213156
bleomycin hydrolase	0.09777873361
zinc finger protein 85	0.19065479085
coiled-coil and C2 domain containing 2B	-0.20646156469
complement C5a receptor 1	-0.22605798816
Rho guanine nucleotide exchange factor 11	-0.14160396732
HORMA domain containing 1	-0.26680809015
RAS like proto-oncogene B	-0.18891299028
sortilin 1	-0.22958372299
cytoskeleton associated protein 2	0.12906178855
prostaglandin I2 receptor	-0.214580722
sorting nexin 5	0.11194425607
mannosidase alpha class 1A member 1	-0.16298899837
glycerol-3-phosphate dehydrogenase 1 like	0.10732543085
serine hydroxymethyltransferase 1	0.1344050364
trinucleotide repeat containing 18	-0.12247477848
testis associated actin remodelling kinase 2	-0.13349855825
tumor protein p53 inducible protein 11	-0.26665379156
glycogen synthase kinase 3 beta	-0.10247351431
dishevelled associated activator of morphogenesis 1	0.10746487645
proline-serine-threonine phosphatase interacting protein 2	-0.2867706344
novel protein	-0.19361442774
SH3 domain containing GRB2 like, endophilin B1	-0.15541147886
pantothenate kinase 1	0.22588321387
transcriptional repressor GATA binding 1	-0.18219903221
lysophospholipase 1	-0.11983801906
GEM interacting protein	-0.13474033062
zinc finger SWIM-type containing 6	-0.14566461191
SET domain containing 5	-0.07611611793
KIAA0319	-0.27259655734

Rab interacting lysosomal protein like 2	-0.13245925604
microtubule affinity regulating kinase 2	-0.1166886546
solute carrier family 4 member 7	0.16531906018
integral membrane protein 2C	0.27291905531
tyrosyl-DNA phosphodiesterase 2	-0.15673086586
zinc finger protein 683	0.28346272117
PHD finger protein 12	-0.13002542715
V-set and transmembrane domain containing 1	-0.20322431761
regulatory factor X7	0.09768398291
poly(ADP-ribose) polymerase family member 15	0.18650969294
integrin subunit alpha 4	0.15923484406
DAZ interacting zinc finger protein 3	0.15187883412
zinc finger protein 319	-0.17833645831
NIPA magnesium transporter 1	0.1224177366
hydrogen voltage gated channel 1	0.12391797856
lysine demethylase 3B	-0.09755136339
coiled-coil domain containing 6	0.09270022964
solute carrier family 22 member 17	-0.21774400283
transmembrane O-mannosyltransferase targeting cadherins 1	-0.31589959428
trans-L-3-hydroxyproline dehydratase	0.15014576333
aquaporin 1 (Colton blood group)	-0.57546991285
golgi associated kinase 1B	-0.24273427911
zinc finger protein 641	-0.09780681809
beta-1,3-N-acetylgalactosaminyltransferase 2	0.10219504256
inositol polyphosphate-5-phosphatase F	0.12653083665
palmitoyl-protein thioesterase 1	-0.13167257343
membrane associated ring-CH-type finger 5	-0.10048097807
NOP2/Sun RNA methyltransferase 3	-0.10184498544
ring finger protein 10	-0.33265279062
thrombospondin type laminin G domain and EAR repeats	0.44617243342
chromosome 16 open reading frame 70	-0.09115631876
family with sequence similarity 214 member B	-0.17795072563
V-set pre-B cell surrogate light chain 3	0.30422402619
KIAA1143	0.11226280831
transmembrane 9 superfamily member 4	-0.08928052304
switching B cell complex subunit SWAP70	0.12084085958
nucleic acid binding protein 1	-0.19600145531
solute carrier family 6 member 6	-0.15343678675
nei like DNA glycosylase 1	0.18118346864
ER degradation enhancing alpha-mannosidase like protein 2	-0.10027097125
nuclear envelope integral membrane protein 1	0.13876984028
UTP6 small subunit processome component	0.10970495791
embryonic ectoderm development	0.10061693171
RUN and SH3 domain containing 2	-0.19633576151
striatin 4	-0.11515082764
cytochrome p450 oxidoreductase	-0.17494567726

growth arrest and DNA damage inducible beta	-0.21819379741
transmembrane O-mannosyltransferase targeting cadherins 2	-0.18465578809
proteasome 26S subunit, non-ATPase 4	-0.11477809628
guanine monophosphate synthase	0.08782816082
sterol regulatory element binding transcription factor 2	-0.10492489474
solute carrier family 4 member 3	0.40851801826
REST corepressor 1	-0.11846936941
G protein-coupled receptor 108	-0.12524652798
Abelson helper integration site 1	0.14875011074
NBPF member 14	-0.15703128818
lymphocyte transmembrane adaptor 1	0.12579777332
sorting nexin 20	-0.13525771432
Rho GTPase activating protein 26	-0.1800251734
tumor protein p53 inducible nuclear protein 2	0.30745302364
ubiquitin specific peptidase 3	-0.09259648142
ariadne RBR E3 ubiquitin protein ligase 2	0.06056307883
talin 1	-0.16405050062
purinergic receptor P2X 1	-0.16164240139
prolyl 3-hydroxylase 2	0.42578432855
WD repeat domain 26	-0.1214143088
5'-aminolevulinate synthase 1	-0.1223027749
FKBP prolyl isomerase 15	-0.10833087212
G protein subunit alpha q	-0.14571188723
G3BP stress granule assembly factor 1	0.08041427188
YY1 associated protein 1	-0.13020667528
mitogen-activated protein kinase 3	-0.19255436311
cAMP-dependent protein kinase inhibitor gamma	0.17188895146
calcium binding protein 39	-0.11930804029
N-terminal glutamine amidase 1	0.11563231009
anoctamin 10	-0.14385874707
spectrin beta, erythrocytic	-0.57171903635
ribonuclease H2 subunit B	0.12830026037
amyloid beta precursor like protein 2	-0.11878200244
USP6 N-terminal like	0.12145474528
ezrin	0.08988133263
cyclin dependent kinase inhibitor 2D	-0.22461317609
novel transcript	-0.19404586089
CYFIP related Rac1 interactor B	-0.11507240125
cyclin and CBS domain divalent metal cation transport mediator 4	0.09062800421
fucosyltransferase 7	-0.25982865518
N-acylethanolamine acid amidase	0.11746924799
LDL receptor related protein 10	-0.18645246338
high mobility group nucleosomal binding domain 4	0.09296193386
N-acetyltransferase domain containing 1	-0.25331886685
integrator complex subunit 7	0.10908379726
leucine rich repeat containing 4	-0.25906684661

VANGL planar cell polarity protein 1	0.16491198048
lemur tyrosine kinase 2	-0.17617063837
egl-9 family hypoxia inducible factor 1	-0.1830413845
MAF bZIP transcription factor G	-0.1887165775
adaptor related protein complex 1 subunit sigma 3	0.2101747853
sulfide quinone oxidoreductase	-0.16217490686
periphilin 1	0.07974522321
ubiquitin specific peptidase 45	0.15860873789
major facilitator superfamily domain containing 2A	-0.23356558499
TTK protein kinase	0.42401127131
serum response factor	-0.13995762058
enolase 1	-0.15588410207
chitinase 1	-0.29341025511
zinc finger E-box binding homeobox 2	-0.11288227821
leukocyte immunoglobulin like receptor B2	-0.12444119138
solute carrier family 15 member 3	-0.16842305903
deltex E3 ubiquitin ligase 2	-0.11592645477
ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	-0.08976254812
syntaxin 3	-0.15331921285
NPR3 like, GATOR1 complex subunit	-0.36642341023
UDP glycosyltransferase 8	0.28331808515
exoribonuclease 1	-0.1703259355
colony stimulating factor 3 receptor	-0.16944976514
leucine rich repeat containing 25	-0.1767152857
ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	-0.11429328647
dual specificity phosphatase 4	0.29049010296
ring finger protein 19B	-0.16967863698
neuronal pentraxin receptor	-0.16488481667
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7	0.31858223853
PDZ and LIM domain 5	-0.0790530143
pleckstrin homology domain containing A5	0.16091619402
galectin 3	-0.33371687047
androgen dependent TFPI regulating protein	-0.19537888325
NDC80 kinetochore complex component	0.23920820888
erythroferrone	-0.82561805076
immunoglobulin lambda like polypeptide 5	0.27363793352
Ras like without CAAX 1	-0.13166876548
rabaptin, RAB GTPase binding effector protein 2	0.10713942136
stromal antigen 3	0.2502220187
Kell metallo-endopeptidase (Kell blood group)	-0.49000880557
sulfatase modifying factor 1	-0.11032243622
N-acetylneuraminate synthase	-0.12878998983
phosphoinositide-3-kinase adaptor protein 1	-0.19563181339
signal peptide peptidase like 2A	-0.09231687596
lymphocyte cytosolic protein 2	-0.10329910996
POC1 centriolar protein B	-0.12023813572

lymphatic vessel endothelial hyaluronan receptor 1	-0.24235960341
DLG associated protein 3	0.2596645493
coagulation factor XIII A chain	-0.26807903596
minichromosome maintenance complex binding protein	-0.10331514151
dimethylarginine dimethylaminohydrolase 2	-0.183929868
solute carrier family 30 member 5	0.07704832859
kelch like family member 14	0.25839273343
CD63 molecule	-0.18061761205
bromodomain containing 4	-0.11728904173
myosin IF	-0.13158073544
membrane bound O-acyltransferase domain containing 7	-0.18339281552
CD248 molecule	-0.22830412856
ETS variant transcription factor 6	-0.13049699321
caspase recruitment domain family member 6	-0.18735129942
Cbl proto-oncogene B	0.10589108142
inositol polyphosphate multikinase	-0.154342982
ADAM metallopeptidase domain 12	0.23036994265
cathepsin B	-0.18964807585
glutaredoxin 5	-0.43901953887
quiescin sulfhydryl oxidase 2	0.11013844222
serine carboxypeptidase 1	-0.12184900702
CD200 molecule	0.22529303145
protein tyrosine phosphatase non-receptor type 6	-0.12628067062
C-type lectin domain family 1 member A	-0.19611340115
small glutamine rich tetratricopeptide repeat containing beta	-0.11403875532
exosome component 9	0.15285443509
electron transfer flavoprotein dehydrogenase	0.12209765406
Ras and Rab interactor 3	-0.12018828582
lysosomal associated membrane protein family member 5	0.28647553484
zinc finger DHHC-type palmitoyltransferase 7	-0.08963133559
secernin 1	0.12794380101
ninjurin 2	-0.16026648089
leucine rich single-pass membrane protein 1	-0.22535205255
transmembrane protein 19	0.13136476203
F-box protein 9	-0.17352082516
methionine adenosyltransferase 2A	0.09366632377
cytoplasmic polyadenylation element binding protein 4	-0.16679338539
myosin light chain 9	-0.49048878488
TNF receptor superfamily member 10c	-0.22110397046
PBX homeobox 1	-0.37296172123
nuclear receptor binding SET domain protein 2	0.09950226367
UBX domain protein 2B	-0.1453342464
nardilysin convertase	-0.10022322817
oxysterol binding protein like 8	-0.12617628915
NADH:ubiquinone oxidoreductase complex assembly factor 6	0.09616194908
Ras association domain family member 2	-0.14022158958

proline rich and Gla domain 4	-0.25257263189
MSL complex subunit 1	-0.14877600702
5'-nucleotidase domain containing 1	0.0721854708
protein kinase C beta	-0.10308975949
G protein-coupled receptor 27	-0.24013400326
TBC1 domain family member 8	-0.2012012001
secreted and transmembrane 1	-0.29061946527
proline rich transmembrane protein 4	-0.51525460186
cytochrome P450 family 27 subfamily A member 1	-0.21413302302
MYD88 innate immune signal transduction adaptor	-0.16548046089
G protein-coupled receptor 146	-0.42215507661
X-C motif chemokine receptor 1	0.44778833861
EvC ciliary complex subunit 2	0.25478221736
heparin binding EGF like growth factor	0.33862867388
gelsolin	-0.18330167428
capping actin protein, gelsolin like	-0.18783955934
zinc finger and BTB domain containing 21	0.13426606206
RAB3D, member RAS oncogene family	-0.17089083941
nucleoporin 42	0.09691147273
choline phosphotransferase 1	-0.23595937871
C-X-C motif chemokine receptor 5	0.18616772156
G-patch domain containing 11	0.1359957627
guanosine monophosphate reductase 2	-0.10404083947
killer cell lectin like receptor B1	0.24433107176
solute carrier family 48 member 1	-0.21844755361
RNA binding motif protein 38	-0.39436514105
glyceraldehyde-3-phosphate dehydrogenase	-0.19093078664
perilipin 2	0.16127940283
afadin, adherens junction formation factor	0.16915997763
transmembrane protein 86B	-0.24558943847
mitogen-activated protein kinase 1	-0.12092972751
cell adhesion molecule 1	0.24218837851
C-C motif chemokine receptor 3	0.19259300434
macrophage scavenger receptor 1	0.33265255984
G-patch domain containing 1	0.07836158616
granzyme B	0.31238095319
syntaxin binding protein 2	-0.16648431494
opioid related nociceptin receptor 1	-0.13550885864
IQ motif containing GTPase activating protein 1	-0.13218527075
glycerophosphodiester phosphodiesterase domain containing 3	-0.16117264954
T cell immune regulator 1, ATPase H ⁺ transporting V0 subunit a3	-0.1307807989
FA complementation group I	0.13433228189
erythroblast membrane associated protein (Scianna blood group)	-0.10575410566
peptidylprolyl isomerase F	-0.15884442731
nicotinamide nucleotide adenylyltransferase 1	-0.11025372335
Cbl proto-oncogene	-0.13312480439

Fc fragment of IgG receptor IIb	0.16309659607
solute carrier family 6 member 9	-0.50279900936
transaldolase 1	-0.1955275086
DNA replication fork stabilization factor DONSON	0.14977451903
ring finger protein 122	0.15175912861
isocitrate dehydrogenase (NAD(+)) 3 catalytic subunit alpha	0.11709499289
migration and invasion inhibitory protein	-0.15565828607
nuclear receptor coactivator 1	-0.10671839351
GRB2 associated binding protein 2	-0.16392558406
TNF receptor superfamily member 1B	-0.13205076049
myeloid associated differentiation marker	-0.19295209297
novel transcript	-0.1576036952
C3 and PZP like alpha-2-macroglobulin domain containing 8	-0.19313505694
DENN domain containing 1A	-0.15482587512
beta-1,4-galactosyltransferase 2	0.27915499047
heat shock protein family A (Hsp70) member 4	0.06715791503
hook microtubule tethering protein 2	-0.1370421688
lymphocyte antigen 96	-0.18046457836
solute carrier family 2 member 14	-0.32572039451
Rap1 GTPase-GDP dissociation stimulator 1	0.07885325466
myocardin related transcription factor A	-0.08948602097
huntingtin interacting protein 1	-0.1571460467
heme binding protein 1	-0.22722066243
olfactomedin like 2B	0.35563289812
replication factor C subunit 4	0.15395574437
zinc finger protein 33B	0.09069292296
proline rich transmembrane protein 1	-0.31500110234
ubiquitin conjugating enzyme E2 R2	-0.15195614485
ribonuclease A family member 3	-0.49844618228
Rab interacting lysosomal protein	-0.36344059719
DNA methyltransferase 3 alpha	-0.07351658113
thymidine kinase 2	-0.14093966384
NHL repeat containing 2	0.13425500351
cytochrome P450 family 46 subfamily A member 1	0.29898182433
solute carrier family 15 member 4	-0.1388026107
paternally expressed 10	0.28863341702
MAX interactor 1, dimerization protein	-0.38968209581
tripartite motif containing 9	-0.29584272839
adaptor related protein complex 5 subunit beta 1	-0.19355023235
VOPP1 WW domain binding protein	-0.08246035441
dishevelled binding antagonist of beta catenin 1	-0.33618279919
clock circadian regulator	0.08952760621
sideroflexin 5	-0.14058210551
glycophorin B (MNS blood group)	-0.5665383712
sequestosome 1	-0.13513581154
CD36 molecule	-0.21019342586

hexokinase 1	-0.14962950691
BCL2 interacting killer	-0.24012792321
FERM domain containing 4B	-0.14556993474
nitrilase family member 2	0.12355595395
abhydrolase domain containing 15	0.11299639908
methionine sulfoxide reductase B1	-0.23390396566
inosine triphosphatase	0.09161801135
formin binding protein 4	0.0886059441
zinc finger protein 787	-0.13557482566
HIVEP zinc finger 2	-0.1423006602
dehydrogenase/reductase 7	-0.14557975144
ISY1-RAB43 readthrough	-0.20273266494
poly(ADP-ribose) polymerase 1	0.09713456113
KAT8 regulatory NSL complex subunit 1	-0.08699087453
homer scaffold protein 3	-0.18882647505
inositol 1,4,5-trisphosphate receptor interacting protein	-0.16494772071
R3H domain containing 4	-0.27317969634
galectin 2	-0.23831099342
NFKB inhibitor delta	-0.09873354123
Rho GTPase activating protein 27	-0.10109991556
FOS like 2, AP-1 transcription factor subunit	-0.17880145781
C-type lectin domain containing 9A	0.29620981442
glutamic--pyruvic transaminase 2	0.22308649747
syndecan binding protein	-0.16631556429
methionine sulfoxide reductase B3	-0.18329723713
C2 calcium dependent domain containing 5	0.1341525654
beta-1,3-galactosyltransferase 2	0.29160526958
RAB3A interacting protein like 1	-0.50495333863
ring finger protein 157	-0.14038760218
ATP synthase inhibitory factor subunit 1	0.08472208221
WD repeat domain 53	0.09700703685
Kruppel like factor 11	0.1465839228
abhydrolase domain containing 6, acylglycerol lipase	0.11176774099
ring finger protein 144B	-0.16096860287
ATPase secretory pathway Ca ²⁺ transporting 2	-0.3886455258
zinc finger protein 606	0.10960080294
programmed cell death 1 ligand 2	-0.49998817761
membrane bound O-acyltransferase domain containing 1	-0.10865081522
cathepsin Z	-0.13242937989
coiled-coil domain containing 9B	0.20097187441
killer cell lectin like receptor D1	0.20784317155
formin like 1	-0.13137153402
zinc finger protein 570	0.13808870555
family with sequence similarity 126 member A	0.11627511507
progesterone and adiponectin receptor family member 6	-0.17670583518
fatty acid desaturase 3	0.14909362086

SID1 transmembrane family member 1	0.09994437151
biliverdin reductase B	-0.34680481995
nucleolar protein 3	-0.22117976688
interleukin 17 receptor E	0.24317281594
acyl-CoA oxidase 1	-0.13751061475
clathrin heavy chain linker domain containing 1	0.13958742833
OS9 endoplasmic reticulum lectin	-0.09692169163
Rho GTPase activating protein 30	-0.09376892566
SEC11 homolog C, signal peptidase complex subunit	0.16802119968
monooxygenase DBH like 1	0.31280724454
insulin like growth factor 2 mRNA binding protein 2	-0.39096246344
S100 calcium binding protein A11	-0.2451983443
microtubule associated monooxygenase, calponin and LIM domain con-	-0.20853603793
killer cell immunoglobulin like receptor, two Ig domains and long cytoplasmic tail	0.37345166426
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	-0.19134986813
capping protein regulator and myosin 1 linker 3	0.26130599771
solute carrier family 11 member 1	-0.20067946652
KIAA0513	-0.13330382883
Ras association domain family member 3	-0.10753557569
3-hydroxyacyl-CoA dehydratase 2	0.10397068906
tet methylcytosine dioxygenase 2	-0.15848366484
glucosamine-phosphate N-acetyltransferase 1	0.12194507196
pro-platelet basic protein	-0.35616187621
sialic acid binding Ig like lectin 1	0.63416063208
F-box protein 45	0.11509824512
major facilitator superfamily domain containing 2B	-0.41253006572
BCL2 like 15	-0.2186957181
solute carrier family 4 member 10	0.25471744089
transmembrane protein 63B	-0.18790693974
cilia and flagella associated protein 97	0.1377716906
tripartite motif containing 7	-0.22885634995
CDC like kinase 3	-0.08022019018
signal transducer and activator of transcription 3	-0.12639790755
solute carrier family 49 member 4	-0.15459224154
semaphorin 3C	0.15074940474
galectin 12	-0.23916239757
zinc finger protein 737	0.14657955284
lysosomal trafficking regulator	-0.11274799181
thymocyte selection associated family member 2	-0.1249962908
centromere protein N	0.18166551444
mannosidase alpha class 2B member 1	-0.09693240583
lysozyme	-0.17060070149
lysosomal associated membrane protein 1	-0.11656908389
interleukin 1 receptor antagonist	-0.29338759836
killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail	0.2771670372
MINDY lysine 48 deubiquitinase 1	-0.15144920316

neural proliferation, differentiation and control 1	0.15835185649
PWP1 homolog, endonuclease	0.10220980105
transforming growth factor beta receptor 1	-0.11257543101
TraB domain containing	-0.08969276412
CDC42 small effector 2	-0.06172928652
transglutaminase 2	-0.43164901197
FAM20A golgi associated secretory pathway pseudokinase	-0.55030622575
killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail	0.30180449628
patatin like phospholipase domain containing 1	-0.23155160786
sortilin related receptor 1	-0.1719640457
myotubularin related protein 11	-0.18275718603
EPH receptor A4	0.12199684821
frizzled class receptor 6	0.21109468516
elongator acetyltransferase complex subunit 2	0.09132200744
ADAMTS like 5	-0.20441076243
integrator complex subunit 3	-0.09724663981
galactokinase 1	-0.16399730753
hes family bHLH transcription factor 4	0.51106226814
THAP domain containing 9	0.18659241785
heat shock protein family A (Hsp70) member 1A	-0.19890567885
SWT1 RNA endoribonuclease homolog	-0.09418961201
transmembrane and ubiquitin like domain containing 2	-0.09663171634
G protein subunit beta 2	-0.18185677206
unc-13 homolog D	-0.11630219212
folliculin like 1	-0.3330875115
CD151 molecule (Raph blood group)	-0.20000774346
solute carrier family 27 member 1	-0.14194548218
pipecolic acid and sarcosine oxidase	-0.11348098678
potassium channel tetramerization domain containing 21	-0.11356074935
RAB3A, member RAS oncogene family	-0.1975271549
major histocompatibility complex, class II, DR beta 1	0.17409405
hedgehog acyltransferase	0.14004403641
transcobalamin 1	-0.32290833183
MLLT3 super elongation complex subunit	-0.11621820643
SET domain bifurcated histone lysine methyltransferase 1	-0.07519285958
elongator acetyltransferase complex subunit 3	0.0794503238
family with sequence similarity 104 member A	-0.25509154552
coiled-coil domain containing 57	-0.10483321468
solute carrier family 19 member 1	-0.14687687879
desumoylating isopeptidase 2	0.08069086513
tropomyosin 1	-0.16461756908
FAM20C golgi associated secretory pathway kinase	-0.21354542043
zinc finger protein 717	0.1093108448
optineurin	-0.24642864738
PTEN induced kinase 1	-0.22528316884
integrin linked kinase	-0.11771236448

solute carrier family 39 member 6	0.10327469826
coiled-coil domain containing 159	-0.11463828119
lymphocyte cytosolic protein 1	-0.12597064529
solute carrier family 16 member 5	-0.11296888357
nuclear transcription factor, X-box binding 1	0.05945298194
microtubule associated monooxygenase, calponin and LIM domain con	0.12315031163
interferon induced protein with tetratricopeptide repeats 1	0.6053592201
ubiquitin conjugating enzyme E2 H	-0.11922031154
EPH receptor B4	-0.22031561101
family with sequence similarity 210 member B	-0.44413353751
jagged canonical Notch ligand 1	-0.16591573317
methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formylte	0.10442284443
FLVCR heme transporter 2	-0.23894676933
sarcoglycan beta	0.14117200726
rabaptin, RAB GTPase binding effector protein 1	0.06172624667
RAD17 checkpoint clamp loader component	0.09197388116
G protein-coupled receptor 15	0.24543732599
basic leucine zipper ATF-like transcription factor	-0.13624156988
amyloid beta precursor protein binding family B member 3	-0.11497240642
DDB1 and CUL4 associated factor 12	-0.40732266796
Rho GTPase activating protein 11A	0.19154278859
calpain 1	-0.12159874609
leptin receptor overlapping transcript like 1	0.07940815157
cytoplasmic FMR1 interacting protein 2	-0.07771145212
kinesin family member 20B	0.15496089092
complement C1r	-0.19604072893
nescient helix-loop-helix 1	-0.2277934013
DNA cross-link repair 1C	0.0621971087
suppressor of variegation 3-9 homolog 2	0.21640527166
1,4-alpha-glucan branching enzyme 1	-0.10313636512
FA complementation group M	0.12521522111
CTP synthase 1	0.1034798287
integrin subunit alpha 2b	-0.38239597742
nudix hydrolase 6	0.19547706228
transmembrane protein 135	0.11533396853
marginal zone B and B1 cell specific protein	0.32914343883
seizure related 6 homolog like	0.24437856531
ADP ribosylation factor like GTPase 8A	-0.11782711125
rhomboid 5 homolog 2	-0.17677546699
ALG2 alpha-1,3/1,6-mannosyltransferase	0.09991984019
zinc finger protein 532	0.12868333745
ubiquitin interaction motif containing 1	-0.11038044286
novel protein	-0.1486560859
ubiquitin specific peptidase like 1	0.10685248832
protein kinase cAMP-activated catalytic subunit alpha	-0.14286981487
transmembrane protein 144	-0.21531567729

major histocompatibility complex, class II, DR alpha	0.18832445882
casein kinase 1 delta	-0.09612147631
latent transforming growth factor beta binding protein 2	-0.21541767343
alpha hemoglobin stabilizing protein	-0.51682169103
spermatogenesis associated serine rich 2 like	0.39283998429
alkaline ceramidase 3	-0.12134981274
family with sequence similarity 136 member A	0.10407977017
triggering receptor expressed on myeloid cells like 2	-0.17595344017
hemoglobin subunit delta	-0.52383866409
CASC3 exon junction complex subunit	-0.13583948307
Rho GTPase activating protein 9	-0.12818013478
poly(A) binding protein cytoplasmic 1 like	-0.11418492913
centromere protein E	0.24731393263
heat shock protein family A (Hsp70) member 8	0.14392755389
carboxymethylenebutenolidase homolog	-0.4371016408
suppression of tumorigenicity 14	0.17489822277
TATA-box binding protein associated factor 5	0.09589928966
dysbindin domain containing 1	0.21849113645
myelin protein zero	-0.12835357992
Rh associated glycoprotein	-0.47496720429
DnaJ heat shock protein family (Hsp40) member A4	-0.17419493615
interleukin 1 receptor associated kinase 1 binding protein 1	0.13788950761
RFT1 homolog	-0.09989009617
ABR activator of RhoGEF and GTPase	-0.08296198003
proline rich coiled-coil 2A	-0.11349276358
fibroblast growth factor receptor 1	0.12649801102
ring finger protein 130	-0.08814629115
COPI coat complex subunit gamma 1	-0.07772407067
MAX dimerization protein 1	-0.15679861547
TEA domain transcription factor 2	0.318984167
solute carrier family 8 member A1	-0.20706215084
ribonucleotide reductase catalytic subunit M1	0.09876820449
lysophosphatidic acid receptor 2	-0.15488295048
fibrillin 2	-0.17984927817
calcium/calmodulin dependent protein kinase II gamma	-0.10468817415
KIAA0232	-0.10197968793
insulin like growth factor 1 receptor	-0.17541161522
adaptor related protein complex 2 subunit alpha 1	-0.1429218675
inositol polyphosphate-5-phosphatase A	-0.12258694784
tetratricopeptide repeat domain 7B	-0.19249659502
derlin 3	0.26280421721
GrpE like 2, mitochondrial	0.12808828956
tropomodulin 3	-0.06232777484
pecanex 1	-0.12890083748
secreted frizzled related protein 2	-0.52582636437
cytochrome c oxidase assembly factor 1 homolog	0.11079292481

IQ motif containing B1	0.10502195435
immunity related GTPase M	0.19880028536
NPC intracellular cholesterol transporter 1	0.09442504937
activin A receptor type 1B	-0.12903580467
novel protein	-0.34865625563
ubiquitin specific peptidase 18	0.48307455683
family with sequence similarity 117 member B	0.09652194838
nucleolar protein 4 like	-0.07978962531
heat shock protein family B (small) member 11	0.10425101978
ankyrin repeat domain 13D	-0.08799094229
coiled-coil domain containing 32	0.06434456393
adenylate kinase 3	0.09841756676
bridging integrator 3	-0.08614297815
cyclin C	0.12256810403
calmodulin binding transcription activator 2	-0.09418406811
class II major histocompatibility complex transactivator	0.14969268776
activating transcription factor 7 interacting protein 2	0.10228268697
family with sequence similarity 160 member B1	-0.14698794448
tubulin alpha 1a	-0.18831011554
protein phosphatase 1 regulatory inhibitor subunit 14A	0.2793107793
G0/G1 switch 2	-0.43464988844
importin 5	0.09244596381
Ras protein specific guanine nucleotide releasing factor 1	0.33020359743
syntaxin 10	-0.11735930529
syndecan 4	-0.23883379973
torsin family 4 member A	-0.15915858822
DnaJ heat shock protein family (Hsp40) member B9	0.12648966679
synaptosome associated protein 23	-0.10582025536
chromosome 16 open reading frame 74	0.1443745092
kinesin family member 3C	-0.20217570113
TATA-box binding protein associated factor, RNA polymerase I subunit	0.16057804811
tripartite motif containing 13	0.0771434423
transmembrane protein 123	0.1729611531
unc-5 family C-terminal like	0.14554273015
potassium two pore domain channel subfamily K member 10	0.43216451536
zinc finger DHHC-type palmitoyltransferase 2	-0.14189143455
membrane associated ring-CH-type finger 10	0.36119950785
LRR binding FLII interacting protein 2	-0.10328672623
Y-box binding protein 3	-0.41830982382
nuclear factor I X	-0.39104492575
ubiquitin conjugating enzyme E2 Q2	0.09071991963
twinfilin actin binding protein 2	-0.13648581907
minichromosome maintenance complex component 3	0.09447283771
serine palmitoyltransferase small subunit B	0.29263535446
nucleobindin 1	-0.18678830677
dedicator of cytokinesis 2	-0.09332443588

glycosyltransferase 8 domain containing 1	0.0789600787
doublecortin like kinase 2	0.35479096762
kinesin associated protein 3	0.09027261519
COMM domain containing 2	0.09773978362
vav guanine nucleotide exchange factor 2	0.11436528739
structural maintenance of chromosomes 4	0.15103643837
carbonic anhydrase 1	-0.59057267852
leucine rich repeat kinase 2	-0.16046360346
DIMT1 rRNA methyltransferase and ribosome maturation factor	0.09326840269
azurocidin 1	-0.50534951433
zinc finger DHHC-type palmitoyltransferase 3	-0.10299166938
integrin subunit beta 1 binding protein 1	0.06462102208
EYA transcriptional coactivator and phosphatase 2	0.48356520563
exocyst complex component 6	-0.12349680315
granule associated Rac and RHOG effector 1	0.08749147035
PBX/knotted 1 homeobox 1	-0.09630053515
gasdermin E	0.32374851952
BRCA1 associated RING domain 1	0.13526645015
methyl-CpG binding domain protein 6	-0.13115738299
eukaryotic translation initiation factor 1B	-0.19933103603
solute carrier family 38 member 1	0.13089413449
adiponectin receptor 1	-0.35390335931
coiled-coil domain containing 88B	-0.11892541987
RAB5A, member RAS oncogene family	-0.0915401544
tumor protein p53 inducible protein 3	-0.20129424637
ribosomal RNA processing 1	0.10572297472
serine/threonine/tyrosine kinase 1	0.21177441775
tetraspanin 4	-0.1787794973
carboxylesterase 1	-0.24683373388
BAG cochaperone 6	-0.18922314524
selectin P ligand	-0.15734647497
cyclin dependent kinase 2 interacting protein	-0.09391772052
ankyrin and armadillo repeat containing	0.08925904749
zinc finger protein 441	0.17325225948
apolipoprotein B receptor	-0.16268440711
coactivator associated arginine methyltransferase 1	-0.26591304605
arginyl-tRNA synthetase 2, mitochondrial	0.08836082968
mitogen-activated protein kinase kinase kinase 2	-0.11368239309
protein arginine methyltransferase 5	-0.12203747407
protein phosphatase 4 regulatory subunit 2	-0.12506687921
karyopherin subunit alpha 3	0.05622967778
BMP2 inducible kinase	-0.11206023836
argonaute RISC component 4	-0.11740150277
CCAAT enhancer binding protein beta	-0.18895552919
CCM2 scaffold protein	-0.0700140244
MET transcriptional regulator MACC1	0.27080890893

coiled-coil domain containing 24	0.20182924495
BORCS8-MEF2B readthrough	-0.12583160307
regulating synaptic membrane exocytosis 3	0.15622198074
obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF	-0.14365237278
actin related protein 2/3 complex subunit 5 like	0.09282072603
ferritin heavy chain 1	-0.23399491536
regulator of G protein signaling 19	-0.13571400884
zinc finger protein 83	0.10660196683
PDZK1 interacting protein 1	-0.44592647764
TSC22 domain family member 4	-0.11435345066
cellular communication network factor 3	0.3209303754
tyrosylprotein sulfotransferase 2	-0.1127114048
solute carrier family 35 member F2	0.14427212439
F-box and WD repeat domain containing 7	-0.08764747276
ring finger protein 123	-0.18123019062
ectonucleotide pyrophosphatase/phosphodiesterase 2	0.21215491999
cell adhesion molecule 4	-0.19893369264
signal-induced proliferation-associated 1	-0.12087397542
G1 to S phase transition 1	-0.28801403603
mitochondrial ribosomal protein L39	0.14050818186
RAS related 2	0.12125802736
major facilitator superfamily domain containing 14B	-0.11911740895
asialoglycoprotein receptor 1	-0.19647473971
sodium channel modifier 1	-0.08095431143
linker for activation of T cells family member 2	-0.10770856025
leptin receptor	-0.11576297946
DDHD domain containing 2	0.10488755112
hematopoietic SH2 domain containing	0.17558911959
melanocyte inducing transcription factor	-0.19861336178
PMS1 homolog 1, mismatch repair system component	0.11359751646
RAP1A, member of RAS oncogene family	-0.07290597095
galactosamine (N-acetyl)-6-sulfatase	-0.11557181667
endoplasmic reticulum oxidoreductase 1 alpha	-0.0878623503
fucosyltransferase 10	0.13303927365
zinc finger protein 555	0.12658046643
mitochondrial ribosome recycling factor	0.08055903683
leucine rich melanocyte differentiation associated	-0.24421104766
guanylate binding protein 2	-0.200031608
TAFA chemokine like family member 2	0.15323641144
kinesin family member 27	0.22934607589
exonuclease 5	0.16620577753
killer cell lectin like receptor C1	0.24390242498
Fc receptor like 1	0.21505377424
zinc finger protein 264	0.07413442451
MAP7 domain containing 1	-0.1214221423
CTD phosphatase subunit 1	-0.10657865476

estrogen receptor binding site associated antigen 9	0.12070925635
RAB6B, member RAS oncogene family	-0.3563997434
ectonucleoside triphosphate diphosphohydrolase 1	-0.19053613914
ciliogenesis associated kinase 1	0.08266623589
Ras related GTP binding D	-0.15144585863
proprotein convertase subtilisin/kexin type 5	-0.10811186831
RIO kinase 3	-0.18035195412
small nuclear ribonucleoprotein U5 subunit 40	0.07425419388
CD55 molecule (Cromer blood group)	-0.15302907212
translocase of outer mitochondrial membrane 40 like	-0.12537454123
CXXC finger protein 5	0.11000482434
solute carrier family 4 member 1 (Diego blood group)	-0.52310667018
deleted in primary ciliary dyskinesia homolog (mouse)	-0.28610616132
butyrophilin like 9	0.323971772
tropomodulin 1	-0.41851042293
aquaporin 10	-0.39564049539
G protein-coupled receptor 107	-0.07246773475
CDK5 regulatory subunit associated protein 2	-0.13032473951
zinc finger protein 875	0.0806540616
bromodomain adjacent to zinc finger domain 2A	-0.10527980522
TBC1 domain family member 22B	-0.11979605627
solute carrier family 30 member 4	0.12519547531
succinate dehydrogenase complex subunit C	-0.06489029547
pyrimidinergic receptor P2Y6	0.25825485246
prothymosin alpha	0.10386358773
SH3 domain containing 19	0.32411642957
interferon regulatory factor 4	0.16420412326
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4	-0.13642572539
RIC8 guanine nucleotide exchange factor B	0.08710369874
cap methyltransferase 2	0.12015209408
NOP2/Sun RNA methyltransferase 6	0.09517376214
hydroxyacylglutathione hydrolase	-0.23927316621
cellular repressor of E1A stimulated genes 1	-0.19179667628
nucleoporin 160	0.08608686017
fatty acid desaturase 1	-0.1604827892
mitochondrial genome maintenance exonuclease 1	0.0675069859
LIM and SH3 protein 1	-0.12988184341
DNA topoisomerase III alpha	-0.07326069745
epsin 2	0.14665804536
carbohydrate sulfotransferase 15	-0.13850189318
MAP3K12 binding inhibitory protein 1	0.14073605531
ORAI calcium release-activated calcium modulator 2	-0.13665187617
ras responsive element binding protein 1	-0.07603248439
leukocyte immunoglobulin like receptor B5	-0.21242749457
deoxynucleotidyltransferase terminal interacting protein 1	-0.09552167706
heparin binding growth factor	-0.24539776662

polycystin 2, transient receptor potential cation channel	0.08752619283
high density lipoprotein binding protein	-0.09227802039
pleckstrin homology like domain family A member 1	0.18119565058
steroid 5 alpha-reductase 1	-0.11458752965
platelet activating factor acetylhydrolase 1b catalytic subunit 2	-0.07432983992
ubiquitin conjugating enzyme E2 J1	-0.15190073176
sirtuin 5	0.11244364233
cytochrome b5 reductase 3	-0.16783668677
Fc receptor like 3	0.13432988506
papilin, proteoglycan like sulfated glycoprotein	0.23570814734
cytoplasmic FMR1 interacting protein 1	-0.14081614273
zinc finger protein 148	-0.06144254595
La ribonucleoprotein 1, translational regulator	-0.09461494556
transmembrane protein 163	0.24419473289
uveal autoantigen with coiled-coil domains and ankyrin repeats	0.20408866418
CDC28 protein kinase regulatory subunit 2	0.218917456
procollagen-lysine,2-oxoglutarate 5-dioxygenase 2	-0.37492964483
CDC28 protein kinase regulatory subunit 1B	0.19146258554
ADP-ribosylserine hydrolase	0.11357342018
ATPase phospholipid transporting 11B (putative)	-0.12624660611
C-type lectin domain containing 6A	-0.27229164797
interleukin 4 induced 1	-0.25996088492
interferon regulatory factor 2	-0.11705870312
ring finger and CCCH-type domains 1	-0.08553032686
dematin actin binding protein	-0.42962200289
Fc fragment of IgM receptor	0.10690209774
thiosulfate sulfurtransferase like domain containing 3	0.11435578798
CKLF like MARVEL transmembrane domain containing 4	-0.14276707003
serglycin	-0.16760314282
sterile alpha motif domain containing 14	-0.40571214511
mediator complex subunit 16	-0.10810632252
hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase	-0.1024597921
phospholipase B domain containing 2	-0.11898677354
1-acylglycerol-3-phosphate O-acyltransferase 4	0.12167529552
tetraspanin 5	-0.25415169478
MYC associated factor X	-0.09468654268
adaptor related protein complex 3 subunit sigma 2	-0.1184072928
MX dynamin like GTPase 1	0.41944703117
zinc finger protein 92	0.17720954331
glycerophosphodiester phosphodiesterase 1	-0.1673015722
HEAT repeat containing 5B	0.08137341494
PEAK family member 3	-0.18809331841
tyrosylprotein sulfotransferase 1	0.34341486533
TSPY like 1	0.07153287821
glyoxalase I	0.09251639634
patatin like phospholipase domain containing 2	-0.16264854324

ABL proto-oncogene 2, non-receptor tyrosine kinase	-0.08316208866
ghrelin and obestatin prepropeptide	-0.1935539437
WD repeat domain 76	0.13224389982
MANSC domain containing 1	-0.22072558736
family with sequence similarity 71 member F2	-0.18513050434
SH3GL interacting endocytic adaptor 1	-0.49030125456
trypsin domain containing 1	0.08131955935
cyclin J like	-0.21478706166
post-glycosylphosphatidylinositol attachment to proteins 6	-0.14063182623
VPS8 subunit of CORVET complex	-0.09435295626
RNA polymerase II subunit C	-0.10202876566
exosome component 4	-0.22240511162
epoxide hydrolase 2	-0.12896901192
TLE family member 4, transcriptional corepressor	-0.09787061668
family with sequence similarity 153 member B	-0.31807772196
mitochondrial ribosomal protein L19	0.0826458619
solute carrier family 51 subunit alpha	-0.31633766265
ankyrin repeat domain 9	-0.39604161588
RELT like 1	0.19318815169
centrosomal protein 128	0.11779925611
homeodomain interacting protein kinase 3	-0.11867463506
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1A	-0.16526018131
NAD kinase	-0.13252283993
rhotekin	0.26532198308
RAB3C, member RAS oncogene family	0.30729025135
TLE family member 3, transcriptional corepressor	-0.16567222516
pyroglutamyl-peptidase I	-0.07771395571
glutamyl-prolyl-tRNA synthetase 1	0.08828498811
peptidyl arginine deiminase 4	-0.21225484032
small nuclear ribonucleoprotein U11/U12 subunit 35	-0.06335987333
dystrotelin	-0.38391422313
protein kinase C alpha	-0.09717612506
nucleoporin 155	0.07262030035
pellino E3 ubiquitin protein ligase family member 2	-0.11415079508
tripartite motif containing 32	0.11760704571
solute carrier family 25 member 42	0.08969153971
transmembrane protein 62	0.12239121066
dual specificity phosphatase 10	-0.11803118284
sorting nexin 3	-0.17279766369
chondroitin sulfate synthase 1	-0.16375932778
family with sequence similarity 76 member A	0.07723976083
ring finger protein 32	0.25387199811
glycophorin C (Gerbich blood group)	-0.38127610577
KIAA0930	-0.13526910783
Fc fragment of IgE receptor II	0.17697275957
transmembrane protein 243	0.08568676135

protein phosphatase 4 regulatory subunit 1	-0.13507624969
checkpoint kinase 2	0.11360348374
reticulon 4 interacting protein 1	0.11382975372
phosphoglucomutase 1	-0.12253267548
ras homolog family member G	-0.18962452209
interferon induced transmembrane protein 2	-0.24800539398
BRCA2 DNA repair associated	0.21594419535
bromodomain adjacent to zinc finger domain 1A	-0.12518875838
cyclase associated actin cytoskeleton regulatory protein 1	-0.11770764384
capping actin protein of muscle Z-line subunit beta	-0.0986787525
Dmx like 2	-0.17235721199
ATP synthase mitochondrial F1 complex assembly factor 1	0.06658874003
centromere protein C	0.09627901232
ubiquitin B	-0.33204806838
guanosine monophosphate reductase	-0.44377267252
interleukin 15 receptor subunit alpha	-0.13865294986
exportin 1	0.09621844682
interleukin 23 receptor	0.28932865468
tripartite motif containing 58	-0.46477649656
nuclear receptor subfamily 1 group D member 2	0.11991600214
CD52 molecule	0.20333477536
basigin (Ok blood group)	-0.27424022382
PHD finger protein 23	-0.10892197871
lysine demethylase 4B	-0.11692276526
galactosidase beta 1 like 3	0.21860353125
ADP ribosylation factor like GTPase 5A	0.08521999537
translocase of inner mitochondrial membrane 9	0.09912104808
transmembrane protein 11	-0.10112938516
myosin phosphatase Rho interacting protein	0.08843006502
nuclear cap binding protein subunit 2	0.08192816529
Sad1 and UNC84 domain containing 2	-0.06921187715
nipsnap homolog 3B	0.16866787351
tensin 1	-0.45926786345
karyopherin subunit alpha 2	0.13904526551
structural maintenance of chromosomes 2	0.13644503651
prostate androgen-regulated mucin-like protein 1	0.20000907541
BCL2 like 1	-0.38655432244
autophagy related 9A	-0.11999390621
solute carrier family 25 member 36	0.12032942458
guanylate kinase 1	-0.29090658079
NFKB inhibitor beta	-0.10474606976
kinesin family binding protein	0.0807192508
WD and tetratricopeptide repeats 1	-0.1276876874
proprotein convertase subtilisin/kexin type 6	-0.29115221774
S100 calcium binding protein A6	-0.17272165446
dual specificity tyrosine phosphorylation regulated kinase 1A	-0.07123461803

BCL9 transcription coactivator	-0.08996056
protein inhibitor of activated STAT 1	-0.06504106449
zinc finger protein 296	0.1727744155
sphingosine-1-phosphate receptor 3	-0.19348433468
methyltransferase like 6	0.06809485558
MOB kinase activator 3B	-0.12390114309
Kruppel like factor 10	0.15678155937
ADAM metallopeptidase with thrombospondin type 1 motif 10	-0.12482321112
TOG array regulator of axonemal microtubules 2	0.17514366721
COPI coat complex subunit alpha	-0.06261085525
E74 like ETS transcription factor 2	-0.10907570219
transmembrane and coiled-coil domain family 2	-0.3456369479
phosphoinositide-3-kinase regulatory subunit 5	-0.07798901524
CKLF like MARVEL transmembrane domain containing 5	-0.37046775138
nudix hydrolase 13	0.13448594932
activating signal cointegrator 1 complex subunit 2	-0.27152717105
ribosomal modification protein rimK like family member B	0.1358432151
Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal	-0.24867013749
family with sequence similarity 43 member A	0.12796861154
NOC3 like DNA replication regulator	0.13778612894
acyl-CoA dehydrogenase very long chain	0.0895292122
solute carrier family 35 member B4	0.09381451187
signal peptide, CUB domain and EGF like domain containing 2	-0.25441185944
divergent protein kinase domain 1A	0.1076961019
acyl-CoA synthetase short chain family member 3	-0.1576088013
B9 domain containing 1	0.1566319037
asteroid homolog 1	0.09300433991
TNFAIP3 interacting protein 3	0.2226107704
zinc finger protein 383	0.08368346696
cordon-bleu WH2 repeat protein	0.49421374541
methionyl aminopeptidase 1	0.07896744896
ectodysplasin A receptor	-0.15571787433
polypeptide N-acetylgalactosaminyltransferase 2	-0.08865809441
tripartite motif containing 10	-0.40800532364
	0.13059790793
protein phosphatase 6 regulatory subunit 1	-0.09997365447
KN motif and ankyrin repeat domains 2	-0.40650695866
	0.4224755234
cyclin L2	0.07443822636
basic leucine zipper and W2 domains 2	0.09028347079
zinc finger protein 266	0.08203856153
tigger transposable element derived 3	0.26842748428
prostaglandin-endoperoxide synthase 1	-0.19812160139
fms related receptor tyrosine kinase 3	0.33313752131
WNK lysine deficient protein kinase 1	-0.14462599113
APC regulator of WNT signaling pathway	-0.10811805832

dehydrogenase/reductase 9	0.24513048527
bisphosphoglycerate mutase	-0.34475783339
suppressor of cytokine signaling 2	-0.12394073053
collagen beta(1-O)galactosyltransferase 1	-0.09145147066
nuclear factor, interleukin 3 regulated	-0.17803650914
methyltransferase like 22	-0.06986281678
RAB1A, member RAS oncogene family	-0.07266255074
kelch repeat and BTB domain containing 6	0.15134882141
UFM1 specific peptidase 2	0.09496079739
RAR related orphan receptor A	0.10920823461
mitogen-activated protein kinase kinase kinase 11	-0.12027546929
RNA binding motif protein 4B	0.0699199166
makorin ring finger protein 1	-0.24180545074
spindlin interactor and repressor of chromatin binding	0.10750150857
antagonist of mitotic exit network 1 homolog	-0.11342598349
STE20 related adaptor beta	-0.41761432402
centromere protein F	0.21735867753
fragile histidine triad diadenosine triphosphatase	-0.12827004363
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation prc	0.0781288044
solute carrier family 40 member 1	-0.16365026309
selenium binding protein 1	-0.49797043445
UBX domain protein 6	-0.33495731371
slingshot protein phosphatase 2	-0.12112338871
MALT1 paracaspase	0.07071877855
WASP family member 2	-0.13050925275
DENN domain containing 4B	-0.07769057577
potassium two pore domain channel subfamily K member 17	0.30020685726
islet cell autoantigen 1 like	0.14115498561
epidermal growth factor receptor pathway substrate 15 like 1	-0.09575688874
hemoglobin subunit theta 1	-0.44662667421
centromere protein H	0.16502031654
atypical chemokine receptor 1 (Duffy blood group)	-0.45763643166
nicotinate phosphoribosyltransferase	-0.12100712339
complement factor H	0.15908093561
zinc finger protein 318	0.09093463679
minichromosome maintenance complex component 2	0.1580736821
immediate early response 3	-0.1623405033
myosin XVI	0.27647069451
TGF-beta activated kinase 1 (MAP3K7) binding protein 2	-0.08300888539
ribose 5-phosphate isomerase A	-0.1894572479
junction plakoglobin	0.22026582635
protein kinase cAMP-dependent type II regulatory subunit beta	-0.26708629767
UHRF1 binding protein 1 like	-0.08758552195
MIS18 binding protein 1	0.11458887167
polyribonucleotide nucleotidyltransferase 1	0.20037906907
ELOVL fatty acid elongase 4	0.19892707819

Kruppel like factor 1	-0.44856184774
F-box protein 10	0.22099567087
mucin 16, cell surface associated	0.34125926921
FAST kinase domains 1	0.0993975708
protein phosphatase 3 catalytic subunit gamma	0.08510940858
RAD50 interactor 1	0.09189833286
transforming growth factor beta regulator 1	0.06038830529
synapsin III	0.24559673219
DEP domain containing MTOR interacting protein	0.2751310654
neuropilin 1	0.2346243361
novel protein	-0.15091106185
mitochondrial ribosomal protein S25	0.10055755053
Sp1 transcription factor	-0.09209324119
RAD23 homolog A, nucleotide excision repair protein	-0.20173341346
activating transcription factor 6 beta	-0.06677418391
3-ketodihydrosphingosine reductase	0.09022331627
mitochondrial fission regulator 2	0.1863475767
guanylate cyclase 2D, retinal	0.30696935332
vav guanine nucleotide exchange factor 3	-0.10589724272
phosphatidylinositol-3,4,5-trisphosphate dependent Rac exchange factor 1	-0.13025311198
chloride intracellular channel 1	-0.13813636447
TBC1 domain family member 9	0.12213091103
signal induced proliferation associated 1 like 3	0.09501650468
calcium voltage-gated channel auxiliary subunit beta 4	0.28554513307
ankyrin repeat and IBR domain containing 1	0.06857310235
sine oculis binding protein homolog	0.27644065398
inositol-trisphosphate 3-kinase B	-0.06056830545
2'-5'-oligoadenylate synthetase 2	0.29264515416
integrin subunit alpha E	0.08191385351
solute carrier family 39 member 10	0.12109806686
selectin L	-0.15098640693
G protein-coupled receptor 183	0.14270924878
glutamine--fructose-6-phosphate transaminase 1	0.07267237196
ring finger protein 11	-0.20222245082
caldesmon 1	-0.30706396446
origin recognition complex subunit 3	0.08729749325
WW domain containing E3 ubiquitin protein ligase 2	-0.08654005399
BTB domain containing 11	0.11254983598
immunoglobulin superfamily member 6	-0.13478541446
adducin 1	-0.08194272042
Suv3 like RNA helicase	0.08026867014
kizuna centrosomal protein	0.07164000106
noggin	-0.18527523791
VAMP associated protein A	-0.11024108911
solute carrier family 66 member 2	-0.14286520999
ras homolog family member T1	-0.08655660766

zinc finger protein 432	0.08444009613
dihydrofolate reductase 2	0.09890879543
family with sequence similarity 174 member B	-0.14764492404
BCL2 interacting protein 2	-0.10142539973
cytotoxic T-lymphocyte associated protein 4	0.15979364069
BLM RecQ like helicase	0.11152450161
serine/threonine kinase 4	-0.07430548488
BTB domain containing 6	0.10141577852
thymidine phosphorylase	-0.18128491802
helicase, lymphoid specific	0.14947112271
5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP	0.0886702361
WW domain binding protein 1 like	-0.07369892825
fibrosin	-0.10150727546
SH3 domain binding glutamate rich protein like 2	-0.28868813493
mannose receptor C type 2	-0.30210044842
chondroitin polymerizing factor 2	-0.07641295989
ankyrin repeat domain 22	-0.47193720836
DBF4 zinc finger B	0.13161976607
tyrosyl-DNA phosphodiesterase 1	0.07625171726
4-aminobutyrate aminotransferase	-0.10181958427
protein-L-isoaspartate (D-aspartate) O-methyltransferase	-0.09465167629
calpain 5	-0.24214180654
chromosome 9 open reading frame 78	-0.29776075442
ER membrane protein complex subunit 3	-0.18925599643
cadherin 2	0.34987949647
ST3 beta-galactoside alpha-2,3-sialyltransferase 1	-0.08239007176
cell division cycle 34, ubiquitin conjugating enzyme	-0.27054908098
delta 4-desaturase, sphingolipid 2	0.25710109624
single stranded DNA binding protein 2	0.07896150897
erythrocyte membrane protein band 4.2	-0.45418206978
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2	0.10552009954
KIAA0040	-0.1295972997
sphingosine kinase 1	-0.22863245275
Raf-1 proto-oncogene, serine/threonine kinase	-0.09541738191
protein phosphatase 1 catalytic subunit beta	-0.08696076239
zinc finger protein 227	0.09087822454
syntaxin 12	-0.06107528856
potassium calcium-activated channel subfamily M regulatory beta subunit	0.17555720207
potassium voltage-gated channel subfamily Q member 1	-0.09067596352
oxidation resistance 1	0.0633862704
serpin family I member 1	0.12821427336
NCK associated protein 1 like	-0.06675321422
Sp4 transcription factor	0.08677738262
MAF1 homolog, negative regulator of RNA polymerase III	-0.22933423884
angiopoietin like 6	0.22596658516
beaded filament structural protein 1	0.22716190584

ubiquitin conjugating enzyme E2 T	0.2348573256
transmembrane 131 like	-0.07780498212
DNA polymerase eta	0.06981705788
cAMP-dependent protein kinase inhibitor beta	0.28086482157
myosin IB	0.27945681455
calcium activated nucleotidase 1	-0.12134406598
HPS1 biogenesis of lysosomal organelles complex 3 subunit 1	-0.13527761949
oxysterol binding protein like 3	0.09018257913
glycoprotein V platelet	-0.17309872387
yippee like 4	-0.29284205671
DEAD-box helicase 27	0.06289991536
zinc finger protein 292	-0.10584325506
NACC family member 2	-0.09513215382
fibulin 2	0.18135826596
E2F transcription factor 3	-0.1244611791
calmin	-0.11819254867
phospholipid phosphatase related 2	-0.15346142882
TBL1X receptor 1	-0.06611846444
annexin A7	-0.07394390522
phosphatidylinositol glycan anchor biosynthesis class F	0.11245182389
high mobility group nucleosome binding domain 1	0.10006823963
chromosome 11 open reading frame 24	0.10311703828
zinc finger CCCH-type containing 12D	0.10112070237
stomatin	-0.17887115337
RNA 2',3'-cyclic phosphate and 5'-OH ligase	0.09839519728
kinesin family member C3	-0.19611816388
proprotein convertase subtilisin/kexin type 7	0.07086870104
Fc fragment of IgG receptor IIIb	-0.16133574503
bone morphogenetic protein 8a	0.31024787394
plexin B2	-0.1595539655
family with sequence similarity 214 member A	0.11790362129
zinc finger protein 707	0.07844463614
pyruvate dehydrogenase phosphatase regulatory subunit	0.05448210536
heat shock protein family A (Hsp70) member 12A	0.25140949221
chromosome 1 open reading frame 216	0.13269775931
platelet activating factor receptor	-0.14598863414
platelet factor 4	-0.30925966438
solute carrier family 27 member 2	0.22144328059
mitogen-activated protein kinase kinase kinase 3	-0.09178390206
trans-golgi network vesicle protein 23 homolog A	0.31757958854
ataxin 7 like 3	-0.09164695826
RAB7A, member RAS oncogene family	-0.09908856862
calcium voltage-gated channel auxiliary subunit beta 1	0.09693554948
family with sequence similarity 81 member A	0.21284232506
protein inhibitor of activated STAT 2	0.13750452769
ferrochelatase	-0.3290177619

suppressor of cytokine signaling 4	0.11791355131
kinesin light chain 3	-0.41620858198
selenoprotein T	-0.09693105698
cytochrome P450 family 1 subfamily B member 1	-0.19007980715
cathepsin E	-0.41350231765
tyrosine kinase 2	-0.07817567755
cathepsin K	-0.09737448463
clusterin	-0.3069997901
lysophosphatidic acid receptor 5	0.09816769231
protein phosphatase 1 regulatory subunit 12A	-0.08561755814
small integral membrane protein 20	0.09210578641
MEFV innate immunity regulator, pyrin	-0.12358012923
MORN repeat containing 1	0.0992498458
3-hydroxyisobutyrate dehydrogenase	0.07399169921
TRIO and F-actin binding protein	-0.08605027295
RUNX family transcription factor 1	-0.08042446345
armadillo like helical domain containing 1	-0.1144257298
synuclein alpha	-0.41652111896
abhydrolase domain containing 2, acylglycerol lipase	-0.1264957622
replication factor C subunit 3	0.10042445764
G protein-coupled receptor kinase 2	-0.08059511775
ciliary rootlet coiled-coil, rootletin family member 2	0.32339736582
vesicle transport through interaction with t-SNAREs 1B	-0.14014125575
zinc finger protein 407	-0.11115389271
apolipoprotein B mRNA editing enzyme catalytic subunit 3H	0.19553272962
taste 1 receptor member 3	0.24601445065
mediator complex subunit 13L	-0.09520393298
assembly factor for spindle microtubules	0.29357787259
phosphatidylinositol-5-phosphate 4-kinase type 2 alpha	-0.12398360147
kinesin family member C1	0.28040427761
solute carrier family 22 member 16	-0.21531240148
protein tyrosine phosphatase non-receptor type 12	-0.09360235673
BCL2 like 13	-0.08512303269
AT-rich interaction domain 3A	-0.11246038203
FAM3 metabolism regulating signaling molecule C	0.12890749053
WD repeat domain 77	0.08922149507
WRN RecQ like helicase	0.08403639177
striated muscle enriched protein kinase	-0.15391475755
scavenger receptor class B member 1	0.10635519802
cell division cycle 37 like 1	0.09258070897
WD repeat domain 12	0.08483955612
endosome-lysosome associated apoptosis and autophagy regulator fan	0.11926448999
ankyrin repeat domain 44	-0.08015954676
transmembrane protein 44	0.16622305419
carnitine O-acetyltransferase	-0.18491293533
thyroid hormone receptor interactor 13	0.30596560282

POU class 5 homeobox 1	-0.19207778941
RAP1 GTPase activating protein	-0.55247060877
Ion peptidase 2, peroxisomal	0.08199279011
2',3'-cyclic nucleotide 3' phosphodiesterase	0.15141399305
MIS12 kinetochore complex component	0.0931458896
dolichyl-phosphate mannosyltransferase subunit 2, regulatory	-0.29614116635
tenascin R	0.28007662294
C-X-C motif chemokine receptor 1	-0.18856759024
ATPase H ⁺ transporting V1 subunit C1	-0.10976237884
tumor necrosis factor	-0.15270016977
zinc finger with KRAB and SCAN domains 8	0.08874897535
piezo type mechanosensitive ion channel component 1	0.087865629
zinc finger protein 134	0.07851790047
OTU deubiquitinase with linear linkage specificity like	-0.09166213557
CREB binding protein	-0.11044944837
interferon regulatory factor 1	-0.16436959823
cornichon family AMPA receptor auxiliary protein 4	-0.12538709883
Myb related transcription factor, partner of profilin	-0.07440464548
GTP binding protein 8 (putative)	0.0878574811
HEPACAM family member 2	-0.47230047286
centrosomal protein 78	0.13137224082
myosin heavy chain 9	-0.11826417652
nuclear receptor binding protein 1	-0.0622160682
DDB1 and CUL4 associated factor 6	-0.09241662915
TIR domain containing adaptor protein	-0.0679952139
chromosome 14 open reading frame 132	-0.1660197417
carboxypeptidase D	-0.14276705368
ubiquitin conjugating enzyme E2 D3	-0.08989495127
lysine methyltransferase 2B	-0.087702564
contactin associated protein 1	0.14903594512
sterile alpha motif domain containing 4A	0.24274131918
myosin heavy chain 10	0.22127078956
glutathione-disulfide reductase	-0.09078482403
acetyl-CoA acetyltransferase 1	0.11506657648
PIF1 5'-to-3' DNA helicase	0.23339366893
thioredoxin interacting protein	0.14135533032
EPM2A glucan phosphatase, laforin	0.10706382519
cytochrome c oxidase assembly factor 7 (putative)	0.13172020734
sirtuin 1	0.07802819796
collagen type IX alpha 2 chain	0.25824127636
versican	-0.1812364275
influenza virus NS1A binding protein	-0.10715093314
testis expressed metallothionein like protein	-0.11029052505
RHO family interacting cell polarization regulator 2	-0.09723189592
acetylcholinesterase (Cartwright blood group)	-0.53288597711
adenylate kinase 5	-0.11325443377

serine/threonine kinase 33	0.24026415967
protein tyrosine phosphatase receptor type O	0.15929032279
transforming growth factor beta 1	-0.13184959706
zinc finger protein 718	0.09134195247
endoplasmic reticulum metalloproteinase 1	0.09273849494
phosphatase domain containing paladin 1	0.24113571462
ADP ribosylation factor like GTPase 14 effector protein	0.12476414913
erythrocyte membrane protein band 4.1	-0.14864552357
HECT and RLD domain containing E3 ubiquitin protein ligase family m	0.22739972989
placental growth factor	-0.58918754927
solute carrier family 25 member 39	-0.40134681567
SRR1 domain containing	-0.18577189049
WD repeat domain 86	0.13957194903
solute carrier family 44 member 2	-0.10251221727
LDL receptor related protein 8	0.09504345113
novel transcript	-0.15849911313
monoglyceride lipase	-0.19014329334
insulin like growth factor binding protein 4	0.18797177761
period circadian regulator 2	-0.09441054321
solute carrier organic anion transporter family member 4A1	0.2302155164
MAU2 sister chromatid cohesion factor	-0.07140661562
protein phosphatase 1 regulatory subunit 18	-0.1461847377
tubulin alpha 1c	-0.11266379324
BCL2 like 11	-0.09830164498
zinc finger protein 341	-0.08292317026
phosphatidylserine decarboxylase	-0.10081214252
zinc finger matrin-type 5	-0.09004777398
reticulophagy regulator family member 2	-0.14785195065
caveolin 1	0.40232198442
DNA polymerase lambda	-0.19111764754
cytochrome b-245 alpha chain	-0.09871668244
trafficking protein particle complex 4	0.07337452363
centrosomal protein 57	0.09909959847
ring finger protein 44	-0.09209084592
membrane associated ring-CH-type finger 8	-0.24927040844
phosphatidylinositol specific phospholipase C X domain containing 2	0.11887480726
roundabout guidance receptor 3	-0.12965687639
guanylyl cyclase domain containing 1	-0.18059336285
large 60S subunit nuclear export GTPase 1	0.06809096424
glutamyl-tRNA amidotransferase subunit C	0.07473326593
membrane palmitoylated protein 7	-0.10753344328
family with sequence similarity 227 member B	0.12784967247
cyclin B1 interacting protein 1	0.09868189155
XK related 7	-0.20899961689
opioid growth factor receptor like 1	0.13331985131
solute carrier family 25 member 12	0.06817321298

transmembrane protein 120A	-0.14197489031
neuraminidase 1	-0.09749035489
solute carrier family 5 member 9	0.31380866647
solute carrier family 1 member 5	-0.22202471732
UDP-N-acetylglucosamine pyrophosphorylase 1	0.11551505931
transmembrane protein 260	-0.11800184742
oxysterol binding protein like 2	-0.09598841461
ubiquitin specific peptidase 12	-0.13874750094
G kinase anchoring protein 1	0.12347898272
ubiquitin protein ligase E3 component n-recogin 2	-0.09460219879
zinc finger protein 260	0.09565576759
small nuclear ribonucleoprotein polypeptide F	0.10702754013
tetratricopeptide repeat domain 22	0.09914561407
interferon induced protein 44 like	0.53583684583
apoptotic chromatin condensation inducer 1	-0.04845933594
Mab-21 domain containing 2	-0.15450093486
cytochrome c oxidase assembly factor COX20	0.08889642413
F-box protein 34	-0.07080925745
caspase recruitment domain family member 11	0.08795907071
cysteine and serine rich nuclear protein 1	-0.18728366081
transcription factor Dp-1	-0.16162528636
solute carrier family 35 member F3	0.16774579649
TNF superfamily member 14	-0.14632936392
chromosome 15 open reading frame 39	-0.16319974903
major histocompatibility complex, class II, DM beta	0.12510771164
C-C motif chemokine receptor 8	0.23825229886
phosphoprotein membrane anchor with glycosphingolipid microdomains	-0.08929630088
zinc finger protein 583	0.11742618681
RCC1 and BTB domain containing protein 2	-0.1008715996
RAN binding protein 10	-0.18114601322
KIAA0319 like	0.1100984988
glutathione S-transferase omega 1	-0.11522864292
phosphodiesterase 1B	-0.10408854271
CAP-Gly domain containing linker protein 3	0.15023387778
zinc finger protein 276	-0.06798534118
oxysterol binding protein 2	-0.4086734172
lymphocyte antigen 6 family member E	0.33380054052
replication factor C subunit 5	0.08244729251
CD1a molecule	0.19236362106
glutamate-ammonia ligase	-0.16376380403
programmed cell death 7	0.07450049098
PWWP domain containing 2A	0.06481613126
villin 1	-0.31013537507
fucosyltransferase 11	0.08731275509
chromosome 16 open reading frame 87	0.10541116559
TAL bHLH transcription factor 1, erythroid differentiation factor	-0.29638203564

protein phosphatase 1 regulatory subunit 21	-0.06226083909
mediator complex subunit 6	0.0653260522
speckle type BTB/POZ protein like	-0.10081862424
BAG cochaperone 5	0.06089504893
keratin 1	-0.42676122136
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 3	-0.13205023117
GPN-loop GTPase 2	0.05925211929
transmembrane immune signaling adaptor TYROBP	-0.13380505377
ADP ribosylation factor like GTPase 10	0.09090714684
elongation factor for RNA polymerase II	-0.10486314664
ATPase copper transporting beta	-0.17111665092
zinc finger CCHC-type containing 3	0.06865668936
ring finger protein 169	-0.06683701076
WD repeat domain 37	-0.06996684222
Rh blood group CcEe antigens	-0.29596249896
caspase 5	-0.28407979411
ataxin 2 like	-0.06734070948
zinc finger protein 627	0.07217199071
ERCC excision repair 3, TFIIH core complex helicase subunit	0.04910506578
tRNA methyltransferase 12 homolog	0.08770232688
mutS homolog 2	0.08218552406
Rac GTPase activating protein 1	0.09015839248
joining chain of multimeric IgA and IgM	0.37436748201
small integral membrane protein 24	-0.39304059125
olfactory receptor family 2 subfamily W member 3	-0.42962158991
frizzled class receptor 3	0.13800769156
oxidative stress induced growth inhibitor 1	-0.18192737049
mitogen-activated protein kinase kinase kinase 9	0.10543288666
erythrocyte membrane protein band 4.1 like 4A	0.16821995779
hydroxysteroid 17-beta dehydrogenase 4	0.07111657341
basal body orientation factor 1	-0.27032144868
chimerin 1	0.1731956685
ring finger protein 170	0.07048100636
Rac family small GTPase 2	-0.12320055811
FLII actin remodeling protein	-0.08956119252
gamma-glutamyltransferase 7	-0.08867620752
EMI domain containing 1	-0.31957156102
solute carrier family 22 member 1	-0.1638896096
Ly1 antibody reactive	0.08167670801
signal induced proliferation associated 1 like 2	-0.2027163664
RAB24, member RAS oncogene family	-0.24072649264
zinc finger protein 569	0.1106659474
CRACD like	0.20312105666
novel protein, ZNRF2-LINC01176 readthrough	0.06366093288
centrosomal protein 76	0.10126396753
transient receptor potential cation channel subfamily V member 4	-0.24316511811

DEAD-box helicase 20	0.07166098279
DnaJ heat shock protein family (Hsp40) member C21	0.08363639927
GPN-loop GTPase 1	0.08951231166
ankyrin 1	-0.34188779237
isoleucyl-tRNA synthetase 1	0.06952704403
plexin D1	-0.11534240876
zinc finger protein 850	0.14962875754
ribosome production factor 2 homolog	0.11153078789
shisa family member 7	-0.46954305782
actin binding LIM protein family member 3	-0.32008929775
heat shock transcription factor 5	0.15087138081
centrosomal protein 126	0.12224566478
TBC1 domain family member 10B	-0.09938527273
CRK proto-oncogene, adaptor protein	-0.0814519015
WBP2 N-terminal like	0.1093007111
fatty acyl-CoA reductase 1	-0.11261447053
granzyme K	0.16214908621
mucolipin 1	-0.16808001949
cyclin B1	0.21622641163
MYB proto-oncogene like 2	0.26578246417
WW domain containing adaptor with coiled-coil	-0.07026640574
DBF4 zinc finger	0.09299271047
TNF receptor superfamily member 10b	-0.0782591534
HEAT repeat containing 5A	0.10106783344
RHO family interacting cell polarization regulator 1	-0.09310856522
NPL4 homolog, ubiquitin recognition factor	-0.04889159981
INO80B-WBP1 readthrough (NMD candidate)	0.18015517926
COP9 signalosome subunit 7B	0.05835653618
G protein subunit beta 5	0.07296783657
TBC1 domain family member 7	0.12366852824
zinc finger protein 274	0.0644422053
charged multivesicular body protein 4B	-0.11021089192
ankyrin repeat domain 13A	-0.08984104288
thymocyte selection associated high mobility group box	0.10803590989
tropomyosin 3	-0.07412737723
FYVE, RhoGEF and PH domain containing 2	0.12717474337
isthmin 1	-0.16847856851
SH3 binding domain protein 5 like	-0.10846741662
DnaJ heat shock protein family (Hsp40) member B12	-0.08484554016
shugoshin 2	0.13883512584
CFAP97 domain containing 2	-0.1371246607
SprT-like N-terminal domain	0.0825008068
lysine methyltransferase 2D	-0.10896238986
myelin basic protein	-0.09174637636
cAMP regulated phosphoprotein 19	0.06961385289
BCL2 apoptosis regulator	-0.12594690524

heparan sulfate 2-O-sulfotransferase 1	-0.14424063236
coronin 2A	-0.08592368179
SEC14 like lipid binding 4	-0.41710634909
CKLF like MARVEL transmembrane domain containing 6	-0.10645952364
peptidylprolyl isomerase A	0.1086848589
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8	-0.20436978853
peptidyl-tRNA hydrolase 2	0.07652387885
mitogen-activated protein kinase kinase 2	-0.09481339812
SPT16 homolog, facilitates chromatin remodeling subunit	0.05778500173
prosaposin	-0.10633854531
eukaryotic translation initiation factor 2 alpha kinase 1	-0.19932461807
family with sequence similarity 219 member B	0.05683966267
AT-rich interaction domain 3B	-0.07471857376
zinc finger protein 697	-0.14781887583
solute carrier family 39 member 8	-0.10135254002
eomesodermin	0.13637695557
RPA interacting protein	0.07877175735
calponin 2	-0.13885908688
cilia and flagella associated protein 58	-0.16529408578
ankyrin repeat and MYND domain containing 2	0.09548893563
neurogranin	-0.30372053873
LYL1 basic helix-loop-helix family member	-0.24268129608
septin 11	0.08130460266
glycerol-3-phosphate acyltransferase, mitochondrial	0.1215290143
kinetochore scaffold 1	0.20622966176
transport and golgi organization 2 homolog	-0.09854353575
transcription factor 7 like 2	-0.13921043966
TGFB induced factor homeobox 1	0.0786764582
interactor of little elongation complex ELL subunit 2	0.0910924266
fatty acid desaturase 2	-0.12582943585
EF-hand domain containing 1	0.09832752812
regulatory factor X1	-0.07968991913
coiled-coil domain containing 112	0.10038973966
VAMP associated protein B and C	-0.05418423135
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 1	0.15427508699
transmembrane channel like 5	-0.32905667722
novel protein	-0.2759876233
matrix AAA peptidase interacting protein 1	0.09376920797
phosphoglycerate mutase 1	-0.10817906806
tescalcin	-0.28655513616
mitochondrial ribosomal protein S36	0.07562396966
HYLS1 centriolar and ciliogenesis associated	0.11970422646
SLIT-ROBO Rho GTPase activating protein 2	0.15479869478
glutaredoxin	-0.1068168946
pericentriolar material 1	0.08900695745
presenilin 1	-0.06457197731

triggering receptor expressed on myeloid cells like 1	-0.31826371901
glutamate ionotropic receptor kainate type subunit 4	0.27564410654
adenosine kinase	0.10633817076
mitochondrial calcium uniporter	-0.08019471651
RNA binding motif protein 15	0.09476933511
transmembrane protein 234	-0.09625586344
leukotriene B4 receptor	-0.11190902784
phosphoribosylaminoimidazole carboxylase and phosphoribosylaminoi	0.089260933
signal induced proliferation associated 1 like 1	-0.12839887645
nuclear casein kinase and cyclin dependent kinase substrate 1	0.07398442078
RAB2A, member RAS oncogene family	-0.05669937998
tubulin beta 2A class IIa	-0.35905453349
phosphatidylethanolamine binding protein 4	0.2519766131
absent in melanoma 2	-0.25541572214
chromosome 14 open reading frame 28	0.12037560822
interleukin 18 binding protein	0.07892706747
PHD finger protein 24	0.40417144706
A-kinase anchoring protein 11	0.11371656394
ATPase H ⁺ transporting V0 subunit a2	0.05844956384
chromosome 4 open reading frame 19	0.33567670679
carboxypeptidase Q	-0.11868321203
receptor accessory protein 3	0.06476918662
glycogen synthase kinase 3 alpha	-0.13151105182
cytochrome b5 type B	0.05809386314
small nuclear RNA activating complex polypeptide 3	0.07952234849
VRK serine/threonine kinase 1	0.10850505871
proliferation-associated 2G4	-0.14698439833
telomeric repeat binding factor 1	0.06291433051
ATPase phospholipid transporting 9A (putative)	-0.26379709023
staufen double-stranded RNA binding protein 1	-0.0712117074
cell death inducing DFFA like effector b	-0.09979086768
family with sequence similarity 167 member A	0.17134496089
lipid droplet associated hydrolase	0.07682047023
PH domain and leucine rich repeat protein phosphatase 2	0.08716925897
phosphatidylinositol 4-kinase type 2 beta	0.15527966717
ITPRIP like 1	0.13922806271
MAF bZIP transcription factor	0.11514301262
family with sequence similarity 153 member A	-0.14526534085
S-phase kinase associated protein 2	0.09778897289
RAD18 E3 ubiquitin protein ligase	0.07301544234
ZFP3 zinc finger protein	0.0896537609
Rho guanine nucleotide exchange factor 12	-0.21105772989
peroxiredoxin 6	-0.19159288394
transmembrane protein 273	0.13322776813
tumor protein D52	0.14231599608
outer dense fiber of sperm tails 2	0.05934775826

ZFP1 zinc finger protein	0.11039114341
protein tyrosine phosphatase receptor type N2	0.13630074212
estrogen receptor 2	0.19360263947
O-acyl-ADP-ribose deacylase 1	0.06059211806
legumain	0.12376605256
F-box and leucine rich repeat protein 19	-0.08469646317
myosin XIX	0.07119354429
G protein signaling modulator 3	-0.1465538055
myosin binding protein H	0.30963128917
non-SMC condensin II complex subunit G2	0.09757573424
novel protein, identical to neuroblastoma breakpoint family, member 1	-0.12316077446
SMAD specific E3 ubiquitin protein ligase 1	-0.06876055337
estrogen receptor 1	0.1331305497
NLR family pyrin domain containing 6	-0.17907879836
JAZF zinc finger 1	-0.10253220843
kinesin family member 11	0.19625119228
microtubule associated protein 1S	-0.11290114377
N-alpha-acetyltransferase 30, NatC catalytic subunit	0.08235869903
glycoprotein IX platelet	-0.31280628282
zinc finger protein 90	0.1709597109
small integral membrane protein 5	-0.27152000727
CDC42 effector protein 1	-0.22233077588
sorting nexin 27	-0.08581665161
chromosome 9 open reading frame 85	0.05796627983
proteasome 20S subunit beta 3	-0.13596462424
farnesyl-diphosphate farnesyltransferase 1	-0.07515446714
actin related protein 5	0.07914353287
leucine rich repeat protein 1	0.09367997871
guanylate cyclase 1 soluble subunit beta 1	-0.22433019738
corin, serine peptidase	-0.26608804247
protein phosphatase 1 regulatory subunit 8	0.06442713397
RAB44, member RAS oncogene family	-0.13980569734
ubiquitin conjugating enzyme E2 D4 (putative)	0.08932729773
zyg-11 related cell cycle regulator	-0.12728191137
terminal nucleotidyltransferase 5C	-0.29564522234
copine 2	-0.11439612351
tudor domain containing 12	0.27853341429
GUF1 homolog, GTPase	0.07288147938
DENN domain containing 4A	0.07258366566
fatty acid hydroxylase domain containing 2	-0.325590188
chromosome 8 open reading frame 88	-0.24951613128
coiled-coil domain containing 90B	0.09002629679
WD repeat domain 43	0.09270748668
arachidonate 12-lipoxygenase, 12S type	-0.27022732959
transmembrane protein 53	0.12643867956
exportin for tRNA	0.07799324468

zinc finger RANBP2-type containing 3	0.09493520641
actin related protein 1A	-0.0817642147
chitinase 3 like 1	0.26679608859
ankyrin repeat domain 46	0.08826500464
ST13 Hsp70 interacting protein	-0.11263730078
Fas cell surface death receptor	-0.14935103275
glutaredoxin 3	0.07324579591
spindle and kinetochore associated complex subunit 2	0.08288338354
hexokinase 2	-0.12068837356
ubiquitin specific peptidase 53	0.12213765119
leukocyte immunoglobulin like receptor A2	-0.11772574486
CDKN2A interacting protein N-terminal like	0.09667378461
zinc finger protein 596	0.10317005042
methylocrotonoyl-CoA carboxylase 2	0.06568948962
glucocorticoid induced 1	0.11043127686
aryl hydrocarbon receptor nuclear translocator	-0.04860856927
BRD4 interacting chromatin remodeling complex associated protein like	-0.06148481915
novel transcript	0.11364987518
zinc finger protein 184	0.11049925671
transmembrane protein 50B	0.061343148
FKBP prolyl isomerase 14	0.1310169143
cytidine deaminase	-0.1667588949
pyruvate dehydrogenase kinase 2	-0.11048449435
PR/SET domain 5	-0.16111143754
TNF receptor superfamily member 11a	0.17110004871
centromere protein U	0.16898840816
N-alpha-acetyltransferase 15, NatA auxiliary subunit	0.06911671772
NBPF member 10	-0.13504247261
mitochondrial pyruvate carrier 1	0.08413296844
pleckstrin homology domain containing B1	-0.12279456642
WD repeat domain 97	-0.1731390016
tectonic family member 3	0.0703792792
mitotic deacetylase associated SANT domain protein	-0.06851215639
ADP ribosylation factor like GTPase 6 interacting protein 5	-0.08627194005
Ras and Rab interactor 1	-0.15339591365
TAR (HIV-1) RNA binding protein 1	0.10691423121
decapping mRNA 2	-0.07614297245
RNA binding motif protein 26	0.07004769951
modulator of apoptosis 1	0.07202623089
tudor domain containing 3	0.07012164765
ORMDL sphingolipid biosynthesis regulator 3	-0.10537349538
Ras association domain family member 1	0.07258993322
modulator of smoothened	0.06022144887
chromatin assembly factor 1 subunit B	-0.1230656469
Jun proto-oncogene, AP-1 transcription factor subunit	0.15432374435
carbonic anhydrase 6	-0.22516538539

zinc finger protein 121	0.08734197931
Rho GTPase activating protein 44	0.42428706555
adhesion G protein-coupled receptor D1	-0.16947644207
cysteine rich transmembrane BMP regulator 1	0.11548800723
sorting nexin 18	-0.11451881926
lysophosphatidylglycerol acyltransferase 1	-0.08685301262
cytoplasmic linker associated protein 2	0.05789390403
selenophosphate synthetase 2	-0.09685425701
upstream transcription factor family member 3	-0.07130290917
chromosome 4 open reading frame 3	-0.1145056429
glycophorin A (MNS blood group)	-0.44730461906
enhancer of zeste 2 polycomb repressive complex 2 subunit	0.1124078658
dedicator of cytokinesis 8	-0.08733765065
zinc finger protein 140	0.09311631538
lysine acetyltransferase 2A	0.07900788611
glycoprotein Ib platelet subunit alpha	-0.26334253944
actin beta	-0.13536473677
RAP1 GTPase activating protein 2	-0.08800860735
Wnt family member 7A	-0.15443030707
family with sequence similarity 200 member B	-0.09447516446
lipase C, hepatic type	-0.11656801155
carbonyl reductase 4	0.07193578131
opsin 3	0.08470274496
two pore segment channel 1	-0.10085743455
pleckstrin and Sec7 domain containing	-0.18147437822
GC-rich sequence DNA-binding factor 2	0.09221924086
tropomyosin 4	-0.07734122095
leucine rich repeat and fibronectin type III domain containing 1	-0.13471087282
CD47 molecule	0.0773281213
NIMA related kinase 3	0.11424564278
tRNA splicing endonuclease subunit 34	-0.13443099814
signal regulatory protein beta 2	-0.09641104339
small nuclear ribonucleoprotein U11/U12 subunit 25	0.12435067786
myocyte enhancer factor 2A	-0.11467877601
FKBP prolyl isomerase 8	-0.31404882031
SIN3-HDAC complex associated factor	0.07250631318
protein tyrosine phosphatase receptor type C	-0.10353856907
vacuolar protein sorting 13 homolog B	-0.07705062824
peptidase, mitochondrial processing subunit alpha	0.06101376075
death effector domain containing 2	-0.10179277358
non-SMC condensin I complex subunit G	0.28431839744
adrenomedullin 2	-0.21395208601
kelch like family member 42	0.08548573851
SLP adaptor and CSK interacting membrane protein	0.11698975464
ATP binding cassette subfamily B member 1	0.11120301138
mex-3 RNA binding family member C	0.10412215767

dual adaptor of phosphotyrosine and 3-phosphoinositides 1	-0.12467680463
protein kinase cAMP-activated catalytic subunit beta	0.1044729235
drosha ribonuclease III	0.06732336207
bromodomain containing 7	0.05548963297
ubiquitin conjugating enzyme E2 G1	-0.04870431838
growth hormone regulated TBC protein 1	-0.24703244189
sacsin molecular chaperone	0.14010778466
myotubularin related protein 2	0.06686224539
NAD kinase 2, mitochondrial	0.09189849158
ubiquitin protein ligase E3A	0.06024586052
SMG7 nonsense mediated mRNA decay factor	-0.07866468396
osteoclast stimulating factor 1	-0.07564364428
novel protein	-0.12528898611
Ras association domain family member 6	0.24372331486
signal peptidase complex subunit 2	0.06231707632
leucine rich repeat containing 56	0.14096151039
nebulin	0.14582762884
latent transforming growth factor beta binding protein 3	-0.10417507003
megakaryocyte and platelet inhibitory receptor G6b	-0.27984915831
calpain 7	0.07388169655
cathepsin H	-0.10533908605
protein phosphatase 4 catalytic subunit	-0.10000119511
tripartite motif containing 52	0.11390607105
acid phosphatase 3	-0.10310027365
beta-1,4-N-acetyl-galactosaminyltransferase 3	-0.13010906173
prickle planar cell polarity protein 2	0.41907979019
mercaptopyruvate sulfurtransferase	-0.12224766016
secreted protein acidic and cysteine rich	-0.28257405436
phosphatase and actin regulator 4	0.06603256226
growth factor receptor bound protein 10	-0.2569157188
protein interacting with PRKCA 1	0.08947823192
sorting nexin 2	0.0816607106
tissue specific transplantation antigen P35B	-0.24303228057
ZFP30 zinc finger protein	0.10087619748
regulator of cell cycle	-0.12408369828
1-acylglycerol-3-phosphate O-acyltransferase 5	0.09641795862
elongin B	-0.15473219087
dishevelled associated activator of morphogenesis 2	0.51237059017
coactosin like F-actin binding protein 1	-0.12414500289
G protein subunit alpha 12	-0.14606663946
fumarylacetoacetate hydrolase domain containing 1	-0.14453421257
syntaxin 11	-0.16579952233
GRB2 related adaptor protein 2	-0.07835697497
carbohydrate sulfotransferase 10	0.13359104593
G-patch domain containing 4	0.09731812734
C-type lectin domain family 4 member C	0.20008218218

arylsulfatase G	-0.1061300638
plasminogen receptor with a C-terminal lysine	-0.08708722212
H2A.Z variant histone 2	0.05178883901
nucleoporin 37	0.10388520598
ubiquitin conjugating enzyme E2 V2	0.07650570495
immediate early response 5 like	-0.18440663501
Ral GTPase activating protein catalytic subunit alpha 1	0.09020751741
G protein subunit alpha i3	-0.07196263999
tetratricopeptide repeat domain 39B	0.09242833439
CREB regulated transcription coactivator 2	-0.07421023354
H2B clustered histone 12	-0.20880738112
ribosomal oxygenase 2	0.09078849996
TAP binding protein like	-0.06603254044
diphthamine biosynthesis 6	0.09452604911
RB binding protein 8, endonuclease	0.11293140683
sushi, nidogen and EGF like domains 1	0.10953925573
cyclin Pas1/PHO80 domain containing 1	-0.17585644991
CEA cell adhesion molecule 1	-0.21497788169
peripheral myelin protein 22	0.28189550639
zinc finger protein 131	0.04696239492
glutathione S-transferase kappa 1	-0.07436002264
mitochondrial ribosome associated GTPase 2	-0.0684166744
GM2 ganglioside activator	-0.11083330949
solute carrier family 35 member D1	0.07202832332
cytochrome P450 family 2 subfamily U member 1	0.0993108689
ATP/GTP binding protein like 2	0.13467859362
fumarylacetoacetate hydrolase	-0.12571366932
epoxide hydrolase 1	0.12490182633
RNA binding motif protein 8A	0.05657481972
Fc fragment of IgE receptor 1a	0.25769213469
TATA-box binding protein associated factor, RNA polymerase I subunit	0.08072297109
MOB kinase activator 3A	-0.12483523754
protein O-glucosyltransferase 3	0.09936204358
zinc finger SWIM-type containing 8	-0.07504065872
proteasome inhibitor subunit 1	-0.19019311273
cell growth regulator with ring finger domain 1	0.0987423062
Wnt family member 10A	-0.1599115134
Rho guanine nucleotide exchange factor 1	-0.06989998832
spermatogenesis associated 2 like	-0.13781229274
Yip1 interacting factor homolog B, membrane trafficking protein	-0.08098638703
neurensin 2	0.1979076299
leucine rich repeat containing 42	0.09544576476
PML-RARA regulated adaptor molecule 1	-0.10469697691
NFKB inhibitor interacting Ras like 1	0.16640153706
primase and DNA directed polymerase	0.09482831025
sphingosine-1-phosphate receptor 4	-0.12811102163

RP9 pre-mRNA splicing factor	0.08892799321
par-6 family cell polarity regulator beta	0.12683702388
ubiquitin conjugating enzyme E2 O	-0.14277091368
zinc finger protein 592	-0.07898244588
DnaJ heat shock protein family (Hsp40) member B2	-0.1771073776
zinc finger protein 586	-0.08694641507
5'-nucleotidase domain containing 2	0.20007634848
serine/threonine kinase 38	-0.05317451228
rogdi atypical leucine zipper	-0.16358048941
G protein-coupled receptor 25	0.26542921586
stromal interaction molecule 1	-0.06431491904
RTF1 homolog, Paf1/RNA polymerase II complex component	-0.06177960594
MICAL like 2	-0.15511457624
TPX2 microtubule nucleation factor	0.24605239726
ceramide kinase like	0.36325116103
phytanoyl-CoA 2-hydroxylase	0.10269139231
N-acylsphingosine amidohydrolase 1	-0.09437249763
solute carrier family 11 member 2	-0.07279432694
eukaryotic translation initiation factor 4 gamma 3	-0.1140015545
cullin associated and neddylation dissociated 1	0.07222710359
transformer 2 beta homolog	0.07595003771
flagellum associated containing coiled-coil domains 1	-0.1310066444
purinergic receptor P2X 7	-0.1237154723
DnaJ heat shock protein family (Hsp40) member B11	0.0947452523
phospholipase A2 group VII	-0.1835556254
malic enzyme 2	-0.06040647993
zinc finger DHHC-type palmitoyltransferase 12	-0.12804491665
ISG15 ubiquitin like modifier	0.41995844332
abraxas 1, BRCA1 A complex subunit	0.07653768669
chromosome 12 open reading frame 73	0.11043607607
eukaryotic translation initiation factor 4A2	0.11740029481
TATA-box binding protein associated factor 4b	0.09638210224
LY6G6F-LY6G6D readthrough	-0.26559884406
thyroid hormone receptor associated protein 3	-0.04422402705
zinc finger and BTB domain containing 26	0.09320525805
pyridoxal kinase	-0.07748742081
polypeptide N-acetylgalactosaminyltransferase 3	-0.11500928203
H1.0 linker histone	-0.1740323024
clathrin heavy chain	-0.06289615743
crystallin gamma S	0.10159990928
parathyrosin	-0.24641640043
VENT homeobox	-0.13575344298
zinc finger protein 738	0.11428189762
centrosomal protein 55	0.29032832818
adenosine deaminase	0.10219518089
partner of NOB1 homolog	0.08480836658

MRE11 homolog, double strand break repair nuclease	0.07729163975
zinc finger protein 211	0.06533968303
DNA primase subunit 1	0.10915763662
TNF receptor superfamily member 17	0.34180580893
F-box protein 7	-0.28798172182
toll interacting protein	-0.09549796895
ADAM metallopeptidase domain 23	0.14259983319
poly(ADP-ribose) polymerase 2	0.1037153593
discs large MAGUK scaffold protein 5	0.14932000267
retinoid X receptor beta	-0.0552256794
transcription elongation factor A1	0.05465160481
peroxisomal biogenesis factor 3	0.0948687675
F-box protein 38	-0.08987758925
serine and arginine rich splicing factor 6	0.07017742267
peptidylprolyl isomerase H	0.0762976861
CDP-diacylglycerol--inositol 3-phosphatidyltransferase	-0.12723706812
solute carrier family 36 member 1	-0.10449327523
zinc finger protein 155	0.07114311851
CTD small phosphatase like	-0.23164432333
ubiquitin conjugating enzyme E2 G2	0.05762913034
HESX homeobox 1	0.32413362905
novel protein	-0.15141131543
ELL associated factor 2	0.11041597144
transmembrane protein 182	0.1140974559
capping actin protein of muscle Z-line subunit alpha 2	-0.0908516459
mastermind like transcriptional coactivator 3	-0.13575703624
BICD family like cargo adaptor 2	-0.20529656699
shortage in chiasmata 1	-0.36422804421
RAN binding protein 1	0.09067470222
DDB1 and CUL4 associated factor 11	-0.09605211809
thioredoxin domain containing 15	0.05630500909
aldehyde dehydrogenase 1 family member A1	-0.16109404996
piggyBac transposable element derived 4	0.11820458301
transcription termination factor 2	0.08390950643
novel protein	-0.15264513763
abl interactor 2	0.07072337466
3-hydroxyisobutyryl-CoA hydrolase	0.06743420347
ornithine decarboxylase antizyme 2	-0.09894432112
CHURC1-FNTB readthrough	-0.06957230996
mitogen-activated protein kinase 13	-0.11536250446
kinesin family member 15	0.17256780991
speedy/RINGO cell cycle regulator family member A	-0.14180050911
novel protein	0.10783739474
BCAS2 pre-mRNA processing factor	0.07020883968
zinc finger and SCAN domain containing 29	0.07649783195
stathmin 1	0.14675706371

lin-9 DREAM MuvB core complex component	0.10266215261
tetratricopeptide repeat domain 28	0.18402333818
solute carrier family 24 member 4	-0.12043401804
signal recognition particle 72	0.08199141954
RWD domain containing 4	0.08128322067
novel protein	0.14170503503
G protein-coupled receptor 135	0.10453952559
growth arrest and DNA damage inducible alpha	-0.19122071331
kinesin family member 5C	0.10503835243
ankyrin repeat domain 16	0.08468717636
cytoplasmic linker associated protein 1	-0.06909217105
NMD3 ribosome export adaptor	0.10242839323
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 4	-0.25376751127
ATPase H ⁺ transporting V1 subunit B2	-0.08574714433
oviductal glycoprotein 1	0.12908838867
hydroxymethylbilane synthase	-0.20650711233
NOP2/Sun RNA methyltransferase family member 7	-0.18308012443
F-box and WD repeat domain containing 8	0.08200250051
cell migration inducing hyaluronidase 2	-0.07542515939
DnaJ heat shock protein family (Hsp40) member B5	0.19946845121
coenzyme Q10A	0.09373313551
exostosin glycosyltransferase 2	0.05127237778
coiled-coil domain containing 167	0.10458189511
caspase 8 associated protein 2	0.08515477589
zinc finger and BTB domain containing 7A	-0.07672110879
BCAR3 adaptor protein, NSP family member	0.12044587157
zinc finger protein 684	0.2024697682
adenosine deaminase like	0.10187478648
A-kinase anchoring protein 10	-0.054608794
single stranded DNA binding protein 3	-0.08720199498
inositol 1,4,5-trisphosphate receptor type 2	-0.08177608989
actin like 6A	0.07984936788
syntaxin 1B	-0.1949945254
mastermind like transcriptional coactivator 1	-0.0648537451
peroxiredoxin 5	-0.16944559994
galactosylceramidase	-0.08270069595
out at first homolog	-0.12852309861
zinc finger and SCAN domain containing 32	0.05438001464
NGFI-A binding protein 1	-0.09586592146
coiled-coil domain containing 149	-0.10263798277
calcium voltage-gated channel subunit alpha1 A	0.24457138742
transmembrane protein 106B	0.10464328818
cornichon family AMPA receptor auxiliary protein 3	-0.0968360026
ankyrin repeat and BTB domain containing 1	-0.12538125782
RALY heterogeneous nuclear ribonucleoprotein	-0.06812417725
TNF alpha induced protein 2	-0.1069144758

insulin degrading enzyme	0.06082005558
Y-box binding protein 1	-0.19463373878
aspartate rich 1	-0.12344142068
nucleus accumbens associated 1	-0.09211431453
trans-golgi network protein 2	-0.06931181863
UBX domain protein 7	-0.05815343416
mitofusin 1	0.08138666106
ANKH inorganic pyrophosphate transport regulator	-0.13302786061
nurim	-0.12415201759
chromosome 13 open reading frame 46	-0.15536900883
SEC61 translocon subunit gamma	0.11200045357
complement C5	0.14423930454
protein activator of interferon induced protein kinase EIF2AK2	0.06153804683
striatin interacting protein 1	-0.0511607727
proteasome 26S subunit, non-ATPase 5	0.04725265352
RUNX family transcription factor 2	0.09274073164
TSPY like 5	0.16101298216
ribonuclease A family member 2	-0.21296752446
hippocalcin like 4	-0.12267129209
coiled-coil domain containing 9	-0.09723040983
RAB30, member RAS oncogene family	0.1386398188
novel protein, TPD52-MRPS28 readthrough	0.21936197955
RAB2B, member RAS oncogene family	-0.10851521759
CCR4-NOT transcription complex subunit 6 like	0.06080587529
heat shock protein family A (Hsp70) member 1B	-0.16760609973
BCL6 antisense 1	-0.31427105421
ETS transcription factor ELK4	0.08448333047
centrosomal protein 57 like 1	0.11627575807
karyopherin subunit alpha 1	-0.06332869856
CCAAT enhancer binding protein alpha	-0.15713933852
novel twinfilin, actin-binding protein, homolog 2 (Drosophila) (TWF2) an	-0.16727285925
FYVE, RhoGEF and PH domain containing 3	-0.06933863973
aldo-keto reductase family 1 member C3	0.18974636971
NME/NM23 nucleoside diphosphate kinase 4	-0.17128761907
zinc finger BED-type containing 4	0.05693310025
cytochrome b5 domain containing 2	0.06534168534
R3H domain containing 1	0.04544028546
protein-glucosylgalactosylhydroxylysine glucosidase	-0.09766438162
epsin 1	-0.09673813811
adhesion G protein-coupled receptor E5	-0.10594329766
BUB1 mitotic checkpoint serine/threonine kinase B	0.28816652146
alpha kinase 2	0.28223978483
serine racemase	0.09166790595
spleen associated tyrosine kinase	-0.07030076699
PRELI domain containing 1	-0.11262858726
polyamine oxidase	0.10385275921

very low density lipoprotein receptor	-0.17888882015
zinc finger protein 154	0.11848952404
kinase D interacting substrate 220	-0.08510297285
GTP binding protein 4	0.06224335074
thyroid hormone receptor interactor 12	-0.06496745803
G protein-coupled receptor 68	0.11322602123
damage specific DNA binding protein 2	0.07650078371
cell division cycle 123	-0.07157626715
methionine sulfoxide reductase A	-0.10289324056
protein phosphatase 1 regulatory subunit 3D	-0.11179123061
ubiquitin conjugating enzyme E2 N	0.06922514255
ISL LIM homeobox 2	0.1834744606
transmembrane protein 241	0.09219292254
peroxisomal membrane protein 4	0.07444824498
pyrin and HIN domain family member 1	0.12220893178
nucleoporin 205	0.07825250704
LUC7 like 2, pre-mRNA splicing factor	0.06439148306
GAR1 ribonucleoprotein	0.07836281987
golgin A8 family member B	0.12637116815
TOX high mobility group box family member 2	0.13754207381
sterile alpha motif domain containing 8	-0.06983159883
plectin	-0.08648790415
kelch domain containing 8A	-0.38157971519
chromosome 4 open reading frame 46	0.09404064295
nudE neurodevelopment protein 1 like 1	-0.09843983949
ATPase secretory pathway Ca ²⁺ transporting 1	0.05308763714
WD repeat and SOCS box containing 2	-0.11724395075
catenin alpha like 1	-0.23990756468
TATA-box binding protein associated factor, RNA polymerase I subunit	0.08232843467
adhesion G protein-coupled receptor G5	0.11230948704
phosphatidylinositol transfer protein alpha	-0.0789054713
establishment of sister chromatid cohesion N-acetyltransferase 2	0.26755619292
zinc finger protein 528	0.10406513698
p53 apoptosis effector related to PMP22	0.16725798128
SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin	0.09142988105
sarcolemma associated protein	-0.06523057608
transcription factor 7 like 1	0.27180396128
coiled-coil domain containing 97	-0.08498655113
importin 7	0.07335570747
cyclin dependent kinase 6	-0.07516774542
MYCBP associated protein	0.17175645316
suppressor of IKBKE 1	0.08880561343
intraflagellar transport 27	0.06539807538
multiple coagulation factor deficiency 2, ER cargo receptor complex subunit	0.0641343723
FKBP prolyl isomerase 7	0.20433480201
ubiquitin conjugating enzyme E2 J2	-0.04876762287

golgi phosphoprotein 3 like	-0.08843396024
protein interacting with cyclin A1	0.08310437968
structural maintenance of chromosomes 5	0.07512349444
vesicle amine transport 1	-0.10866438461
growth factor independent 1 transcriptional repressor	0.12561348634
DnaJ heat shock protein family (Hsp40) member C9	0.06742422607
thrombospondin 3	-0.08584765493
chromosome 1 open reading frame 116	-0.31694665433
lipolysis stimulated lipoprotein receptor	-0.10391488409
basal cell adhesion molecule (Lutheran blood group)	-0.44114445468
nuclear transcription factor Y subunit gamma	-0.06070077006
F11 receptor	-0.10630752013
regulator of G protein signaling 10	-0.15718707922
poly(rC) binding protein 1	-0.11111118734
RUN domain containing 3A	-0.37027478643
chromosome 7 open reading frame 61	-0.14192787166
cyclin B2	0.29323220659
receptor associated protein of the synapse	-0.17811595182
Scm like with four mbt domains 1	0.0780674602
microtubule associated serine/threonine kinase family member 4	-0.11896496371
InaF motif containing 1	-0.14956212783
AF4/FMR2 family member 1	-0.11120705588
homeobox A1	0.20893090013
proline rich nuclear receptor coactivator 1	-0.10883761714
KRR1 small subunit processome component homolog	0.09614292418
otoferlin	0.47338294195
short transmembrane mitochondrial protein 1	-0.13864532876
minichromosome maintenance complex component 5	0.07366500911
2'-5'-oligoadenylate synthetase 1	0.27805712494
minichromosome maintenance complex component 4	0.13761216112
BRI3 binding protein	0.06738759059
ventricular zone expressed PH domain containing 1	-0.26324989933
TOR signaling pathway regulator	0.06309354661
elongator complex protein 1	0.06389743327
major facilitator superfamily domain containing 11	-0.06472798658
trafficking protein particle complex 13	0.07492821612
NIPA like domain containing 2	0.08036691884
proliferating cell nuclear antigen	0.10152879407
E2F transcription factor 4	-0.07866554909
phosphoribosyl pyrophosphate amidotransferase	0.1006196855
testis expressed 30	0.15106171038
sorting nexin 8	0.09839996177
leucine zipper tumor suppressor family member 3	-0.14658834573
asparaginase and isoaspartyl peptidase 1	-0.09874673902
CCR4-NOT transcription complex subunit 3	-0.06996171522
BCL2 interacting protein 3 like	-0.2142690293

YEATS domain containing 2	0.06234232041
neurofilament light	-0.15186792184
PX domain containing serine/threonine kinase like	-0.10322957075
N-alpha-acetyltransferase 40, NatD catalytic subunit	0.07321349961
ORC ubiquitin ligase 1	0.09101414741
abhydrolase domain containing 12B	-0.30171783675
KBTBD11 overlapping transcript 1	0.1850698175
solute carrier family 14 member 1 (Kidd blood group)	-0.16425951489
mediator complex subunit 15	-0.05192153053
heat shock protein family H (Hsp110) member 1	0.11555858539
HAUS augmin like complex subunit 6	0.087975052
FA complementation group L	0.1440357968
zinc finger protein 571	0.09961729076
meiotic double-stranded break formation protein 1	0.07167349141
triggering receptor expressed on myeloid cells 1	-0.14438826255
integrin subunit beta 1	0.1018457264
interferon alpha inducible protein 27 like 1	0.11596910917
cyclin and CBS domain divalent metal cation transport mediator 3	0.06644895106
NCK associated protein 5	0.4279929762
endoplasmic reticulum lectin 1	0.07598583897
ganglioside induced differentiation associated protein 1	0.09459971132
zinc finger protein 418	0.11760994343
G protein-coupled receptor 55	0.11194024747
SPOC domain containing 1	-0.2906206721
family with sequence similarity 228 member B	-0.06614614488
zinc finger protein 18	0.06912669688
CUGBP Elav-like family member 1	-0.04117390433
BICD cargo adaptor 2	-0.07972480345
transmembrane protein 263	0.08441378855
UTP15 small subunit processome component	0.09075082643
zinc finger GRF-type containing 1	0.10636366789
calpain 12	0.1107423387
CCAAT enhancer binding protein epsilon	-0.21634388867
transmembrane protein 154	-0.09981355286
syntrophin beta 1	-0.08008616308
GABA type A receptor associated protein like 2	-0.10101195582
carnosine N-methyltransferase 1	0.07990958664
actin related protein 2/3 complex subunit 5	-0.09530731813
cytochrome P450 family 2 subfamily E member 1	0.18779433944
ATPase plasma membrane Ca ²⁺ transporting 4	-0.08809548401
PDX1 C-terminal inhibiting factor 1	-0.08165013694
splicing factor 3a subunit 3	0.05671543391
RAB11 family interacting protein 4	-0.08342382711
amyloid beta precursor protein binding family A member 3	-0.06448600725
L3MBTL histone methyl-lysine binding protein 3	0.06016260694
deoxyribonuclease 2, lysosomal	-0.11018339626

DDB1 and CUL4 associated factor 16	0.0813981342
zinc finger DHHC-type palmitoyltransferase 14	0.08048436848
NBR1 autophagy cargo receptor	-0.05969131617
mitochondrial transcription rescue factor 1	0.08226865173
ring finger protein, transmembrane 2	0.11096460653
G protein-coupled receptor 35	-0.09075706515
phospholipid scramblase 1	-0.22395649771
zinc finger protein 671	0.05745679126
X-ray repair cross complementing 3	0.08955866026
SEC13 homolog, nuclear pore and COPII coat complex component	-0.0509523752
exosome component 8	0.09317317185
NK3 homeobox 1	0.24129416937
cell division cycle associated 4	0.08885410369
coiled-coil domain containing 191	0.09950577828
Rac family small GTPase 1	-0.07723133792
ArfGAP with FG repeats 1	-0.08856007744
sorting nexin 4	0.0780366092
KH domain containing 4, pre-mRNA splicing factor	0.05615375245
WD repeat containing antisense to TP53	0.09232927754
transmembrane BAX inhibitor motif containing 1	-0.07765362085
HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2	0.15995153852
tectonic family member 1	0.1080846078
3'-phosphoadenosine 5'-phosphosulfate synthase 1	-0.08736306225
arylsulfatase A	-0.08356642859
gamma-glutamylcyclotransferase	0.19304047872
RB binding protein 6, ubiquitin ligase	0.06043680729
ring finger protein 135	-0.07567453329
dynamin binding protein	0.07265868408
unc-51 like autophagy activating kinase 1	-0.1029254495
low density lipoprotein receptor class A domain containing 3	-0.13660239804
TSPY like 4	0.08409279049
novel protein	-0.17044673877
rabphilin 3A	-0.24288087136
WW domain binding protein 2	-0.13811468885
glutathione peroxidase 7	0.0879106135
LETM1 domain containing 1	0.04751745421
myosin IXB	-0.06898903338
stabilin 1	-0.14047817345
cytochrome b5 reductase 4	-0.07726269907
zinc finger with KRAB and SCAN domains 4	0.06799941904
tripartite motif containing 21	-0.12924048061
RNA polymerase III subunit B	0.06342126367
mitochondrial transcription termination factor 1	0.0750467521
phosphodiesterase 4A	0.10080811772
protein phosphatase 1 regulatory inhibitor subunit 14B	0.11916886903
sirtuin 7	-0.06109254396

methyltransferase like 14	0.06223546572
inositol-3-phosphate synthase 1	-0.1027623645
frizzled class receptor 5	-0.23311245411
glutamyl-tRNA synthetase 2, mitochondrial	0.06706381446
cofilin 2	0.10857915254
RNA polymerase I and III subunit D	-0.10929075299
glycerophosphodiester phosphodiesterase domain containing 1	0.08920182158
GID complex subunit 4 homolog	-0.11094106168
deoxycytidine kinase	0.08488012377
coronin 1C	-0.07863747623
exportin 4	0.06670613382
NLR family member X1	-0.10932574886
zinc finger protein 439	0.09285099026
cytochrome P450 family 2 subfamily R member 1	0.09215254451
tRNA nucleotidyl transferase 1	0.07359509276
NIMA related kinase 10	0.18518907634
coiled-coil domain containing 17	-0.11860605384
sarcoglycan epsilon	0.20562541193
zinc finger and BTB domain containing 38	0.08197772932
serine/threonine kinase 38 like	-0.07658146809
zinc finger protein 501	0.16804896787
BCL2 family apoptosis regulator BOK	0.24832129381
discoidin, CUB and LCCL domain containing 1	0.10782443949
Ras association domain family member 4	-0.10249064368
peroxisomal biogenesis factor 11 alpha	0.14826222136
dedicator of cytokinesis 7	0.10937331614
radial spoke head 3	0.08983206007
netrin G1	0.37314671913
upstream binding protein 1	0.05328112673
VPS41 subunit of HOPS complex	0.05881914182
SET domain containing 1B, histone lysine methyltransferase	-0.07474757601
mitochondrial transcription termination factor 4	0.05782310739
small EDRK-rich factor 2	-0.16025178326
MAK16 homolog	0.08199217261
plexin A2	0.1427858853
Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA synthase	0.08898140873
Rho GTPase activating protein 17	0.07238564603
target of myb1 like 2 membrane trafficking protein	-0.05294329165
nucleolin	0.06858875319
ADP ribosylation factor like GTPase 4C	0.08944578393
engulfment and cell motility 3	-0.10021478995
spermine oxidase	-0.27216176731
progesterone and adipoQ receptor family member 7	0.10687512997
F-box protein 48	0.07635102622
laminin subunit gamma 1	0.13572055115
RAB8B, member RAS oncogene family	-0.07103405067

mitogen-activated protein kinase kinase 7	-0.07873304606
transmembrane p24 trafficking protein 4	0.04155512911
spectrin alpha, erythrocytic 1	-0.29275551787
malate dehydrogenase 1	0.0988926496
calcineurin like EF-hand protein 1	-0.08927582882
SKI like proto-oncogene	-0.092513949
transmembrane protein 209	0.07943330657
glucosidase alpha, acid	-0.0791866384
hemoglobin subunit mu	-0.32910789404
DNA cross-link repair 1A	0.11518709427
phospholipase C beta 2	-0.07904221528
H2B clustered histone 18	-0.15308002759
intercellular adhesion molecule 3	-0.1241706062
hemogen	-0.27331258396
zinc finger protein 789	0.06493764669
aldehyde dehydrogenase 5 family member A1	-0.13268328719
IKAROS family zinc finger 5	0.07845946693
BRISC and BRCA1 A complex member 2	-0.05610780016
transient receptor potential cation channel subfamily M member 7	0.06563850498
ALG8 alpha-1,3-glucosyltransferase	0.06917243484
tubulin polymerization promoting protein	0.16743922513
CD200 receptor 1	0.11001144281
anti-silencing function 1A histone chaperone	0.0897557565
sestrin 3	-0.11490985933
muskelin 1	-0.0582604965
TBC1 domain family member 3L	-0.12080856118
novel protein	0.14103410319
RNA polymerase III subunit G like	0.12190784219
1-acylglycerol-3-phosphate O-acyltransferase 3	-0.07865100186
KIAA1671	0.12460367885
ribonuclease P/MRP subunit p38	0.06185173766
MIA SH3 domain ER export factor 2	-0.0514643994
transmembrane protein 38A	-0.11565251991
nucleoporin 107	0.07246477496
selectin P	-0.15390612585
aryl hydrocarbon receptor nuclear translocator like	-0.07835822322
CFAP20 domain containing	0.32738584898
DEXD-box helicase 52	0.0488481601
novel protein	0.13610365959
endoplasmic reticulum aminopeptidase 2	0.08650273402
HECT and RLD domain containing E3 ubiquitin protein ligase 5	0.34101360556
myosin XVB	-0.08651692526
CD84 molecule	0.06450247542
developmentally regulated GTP binding protein 1	0.05409512623
plexin domain containing 2	-0.08635511071
regulatory factor X5	0.06856276882

NEDD4 like E3 ubiquitin protein ligase	-0.18037073389
DExD-box helicase 50	0.06643224449
kinesin family member 18A	0.23059847641
transmembrane protein 268	0.12131976577
family with sequence similarity 83 member G	0.10442294938
RIO kinase 1	0.06191402466
carbohydrate sulfotransferase 11	-0.0949537113
lipoic acid synthetase	0.06637830581
E2F transcription factor 8	0.30864869233
transmembrane protein 33	-0.06629096214
glucosamine-6-phosphate deaminase 2	0.1054009323
hyaluronan and proteoglycan link protein 3	-0.11282724947
chromosome 3 open reading frame 62	-0.09284902517
novel protein, UBE2W-STAU2 readthrough	-0.19668141513
apolipoprotein B mRNA editing enzyme catalytic subunit 3G	0.09899182248
ribosomal RNA processing 15 homolog	0.07889341011
CD2 molecule	0.09004789375
glomulin, FKBP associated protein	0.06703476937
CD74 molecule	0.12745102559
ATP binding cassette subfamily F member 1	-0.06247747648
protein kinase C epsilon	0.13408397575
dynactin subunit 4	-0.06038492672
TP53 regulating kinase	0.07545331362
ligand dependent nuclear receptor corepressor like	0.05278175065
ring finger protein 111	-0.05640127768
cell division cycle associated 8	0.14821577743
ATPase Na ⁺ /K ⁺ transporting subunit beta 3	0.08188761007
magnesium transporter MRS2	0.07758908388
ATPase phospholipid transporting 8B1	0.25793929626
ARV1 homolog, fatty acid homeostasis modulator	0.0759781261
GTP dependent ribosome recycling factor mitochondrial 2	0.06305712435
HIV-1 Tat interactive protein 2	-0.08491557467
von Willebrand factor C and EGF domains	-0.34891027491
mahogunin ring finger 1	-0.08630254304
CDKN2A interacting protein	0.08134124988
pre-mRNA processing factor 38A	0.04611978967
protein phosphatase 2 regulatory subunit B'beta	-0.14574524662
RNA polymerase I subunit B	0.06524994194
G protein-coupled receptor 137	-0.0794947503
multimerin 1	-0.19983787761
phosphofructokinase, platelet	0.07560614294
netrin G2	-0.15929714804
DNA damage regulated autophagy modulator 2	0.07999543312
pentatricopeptide repeat domain 2	0.08513641126
WD repeat domain 48	0.05259220343
methylenetetrahydrofolate dehydrogenase (NADP ⁺ dependent) 2 like	0.08748681413

SHANK associated RH domain interactor	-0.1770041079
dual specificity phosphatase 28	0.07752072744
SET nuclear proto-oncogene	0.06357934972
proteasome 26S subunit, non-ATPase 14	0.09609343216
natural cytotoxicity triggering receptor 3	0.1237573741
cytoplasmic polyadenylation element binding protein 3	-0.09853905557
HRas proto-oncogene, GTPase	0.10679990955
SMU1 DNA replication regulator and spliceosomal factor	0.04473272823
microtubule interacting and trafficking domain containing 1	-0.08767108516
exosome component 10	0.05428565302
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 2	-0.11275518633
eva-1 homolog C	0.08992746263
argininosuccinate lyase	0.09373657446
serine/threonine kinase 40	-0.10071259405
hematopoietically expressed homeobox	-0.10576087778
carbonic anhydrase 2	-0.19786010683
large tumor suppressor kinase 2	-0.07472450396
mitochondrial ribosomal protein L42	0.07255873849
SZT2 subunit of KICSTOR complex	-0.06119086595
nucleoporin 153	-0.07220987009
serine hydrolase like 2	0.21052404454
amine oxidase copper containing 2	0.14500327533
heterogeneous nuclear ribonucleoprotein A3	0.03910390365
exosome component 2	0.06540853938
ornithine aminotransferase	-0.09550827206
NLR family CARD domain containing 3	0.0797286895
zinc finger protein 644	0.06758977589
Rho GTPase activating protein 18	-0.07953343331
drebrin like	-0.06013563847
ubiquitin like with PHD and ring finger domains 1	0.16105787668
oxoeicosanoid receptor 1	-0.1637812751
synaptotagmin like 3	0.10490629982
glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase	0.0550245869
ring finger protein 208	-0.26322950351
folliculin interacting protein 2	0.0777992475
minichromosome maintenance complex component 6	0.08443921477
serpin family B member 6	-0.05547422672
RNA polymerase III subunit D	0.07134039766
centrosomal protein 152	0.07850731247
ecdysoneless cell cycle regulator	0.04332856701
zinc finger protein 582	0.10516414406
colony stimulating factor 1 receptor	0.10778038356
zwilch kinetochore protein	0.09626415009
ectodermal-neural cortex 1	-0.10326969741
methionyl-tRNA synthetase 1	-0.07178957324
transmembrane protein 14A	0.1175033876

PX domain containing 1	0.15916229415
phosphatidylinositol transfer protein membrane associated 2	-0.07453514525
EPS8 like 2	0.12498003622
apoptosis inducing factor mitochondria associated 2	0.08351551335
divergent protein kinase domain 1B	0.16947318753
ST6 beta-galactoside alpha-2,6-sialyltransferase 1	0.05058307643
synaptotagmin 1	0.26760552985
radixin	0.0658609315
alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase	-0.0943798816
cell division cycle 16	0.05227333045
family with sequence similarity 168 member A	-0.05578951348
leucine rich repeat and fibronectin type III domain containing 4	0.13922115071
LRR binding FLII interacting protein 1	-0.06269236558
zinc finger protein 146	0.08356043001
HEAT repeat containing 1	0.06010904252
terminal nucleotidyltransferase 4A	0.06983812583
cysteinyl-tRNA synthetase 2, mitochondrial	-0.0753274391
BAG cochaperone 1	-0.24690087478
secretory carrier membrane protein 1	0.06196643409
IKAROS family zinc finger 1	-0.04551669286
dpy-19 like C-mannosyltransferase 3	-0.10764374437
beta-secretase 2	0.12003441481
protein tyrosine kinase 7 (inactive)	0.14836786466
SCY1 like pseudokinase 1	-0.0873740732
replication protein A3	0.11135295319
RecQ like helicase	0.09223716535
cysteine rich secretory protein LCCL domain containing 2	-0.14362140519
hyaluronidase 1	-0.16700974635
proton activated chloride channel 1	0.0685876823
SLC9A3 regulator 2	0.16654851415
Rho associated coiled-coil containing protein kinase 1	-0.07184995846
major histocompatibility complex, class II, DR beta 5	0.12037902594
Kruppel like factor 16	-0.1101636656
MYST/Esa1 associated factor 6	0.0570382402
trafficking kinesin protein 2	-0.11232399817
dual specificity phosphatase 12	0.07902155821
xylulokinase	0.10063645042
fizzy and cell division cycle 20 related 1	-0.0732388369
solute carrier family 26 member 6	-0.10538442886
glycoprotein VI platelet	-0.21332602175
ectopic P-granules autophagy protein 5 homolog	-0.0890258475
Ras protein specific guanine nucleotide releasing factor 2	-0.08912944665
epithelial membrane protein 1	0.22623651346
F-box protein 5	0.12995687283
transmembrane anterior posterior transformation 1	0.06390856877
enhancer of mRNA decapping 4	-0.05889291737

RNA binding motif protein 23	-0.06903184034
MMS22 like, DNA repair protein	0.07432132803
myotubularin related protein 9	0.05767594593
C-type lectin domain family 2 member D	0.09200323895
oligosaccharyltransferase complex non-catalytic subunit	0.10313276263
cadherin like and PC-esterase domain containing 1	0.12549748145
alpha kinase 3	-0.15674731316
RAB3A interacting protein	-0.09513281459
glycogen synthase 1	-0.05810269218
SEC31 homolog A, COPII coat complex component	0.05063058916
oligodendrocyte myelin glycoprotein	-0.17574854288
zinc finger protein 93	0.0895246895
heat shock protein family A (Hsp70) member 13	0.11378653766
contactin associated protein 2	0.26040234027
cold inducible RNA binding protein	0.05741014967
oligodendrocyte transcription factor 1	-0.14387743116
ADP ribosylation factor guanine nucleotide exchange factor 1	-0.04957503356
forkhead box O3	-0.12863916039
zinc finger protein 329	0.07271862073
atonal bHLH transcription factor 8	0.17194923077
inhibitor of DNA binding 2	0.09437070352
caseinolytic mitochondrial matrix peptidase chaperone subunit B	-0.06923228724
establishment of sister chromatid cohesion N-acetyltransferase 1	0.07313211961
BUB3 mitotic checkpoint protein	0.06635482637
TEK receptor tyrosine kinase	0.30977066399
regulator of G protein signaling 9	0.1258820987
developmental pluripotency associated 4	0.2108530893
NUAK family kinase 2	-0.09941683211
SET domain containing 2, histone lysine methyltransferase	-0.04992186983
ZPR1 zinc finger	0.06067286405
tetraspanin 18	-0.08554283159
SAP30 like	-0.05712100513
CCAAT enhancer binding protein zeta	0.10943012082
oxidoreductase NAD binding domain containing 1	-0.09039307126
cyclin D1 binding protein 1	-0.08383927558
novel readthrough transcript	0.10005624141
cyclin F	0.12135012247
activin A receptor type 1C	-0.14529531536
ret finger protein like 2	0.14142182633
zinc finger DHHC-type palmitoyltransferase 20	-0.08732744306
coiled-coil domain containing 59	0.10102909451
homeodomain interacting protein kinase 1	-0.08702116173
bromodomain adjacent to zinc finger domain 2B	-0.09386918548
zinc finger protein 736	0.09290173678
atlastin GTPase 2	0.08181737991
RB binding protein 4, chromatin remodeling factor	0.04354482078

catenin beta like 1	0.05126572687
solute carrier family 30 member 6	0.05134723219
Kruppel like factor 5	-0.15679698864
DnaJ heat shock protein family (Hsp40) member C24	0.08483034065
PLAG1 like zinc finger 1	-0.09288884983
yippee like 3	-0.1207752561
GATA zinc finger domain containing 1	0.06033999057
kelch like family member 9	0.09625449863
SECIS binding protein 2 like	0.06443413494
zinc finger and BTB domain containing 3	0.07773283232
ring finger protein 167	-0.07925206388
leucine rich repeats and IQ motif containing 3	0.17687379025
transmembrane protein 51	-0.18375883031
HAUS augmin like complex subunit 1	0.09828064934
splA/ryanodine receptor domain and SOCS box containing 1	0.10982400228
SFT2 domain containing 2	0.06701494722
popeye domain containing 2	0.09103720331
zinc finger protein 91	0.06691575725
zinc finger protein 527	0.101829206
RuvB like AAA ATPase 1	0.07253699039
annexin A11	-0.08846972506
chromosome 11 open reading frame 1	0.13559498137
phospholipase D family member 5	0.26488964308
macrophage receptor with collagenous structure	-0.18779112346
zinc finger protein 883	0.21091671863
YTH domain containing 1	0.05553740121
STE20 like kinase	-0.09007622299
nuclear receptor coactivator 6	-0.06526819445
zinc finger protein 675	0.10262225509
zinc finger MYND-type containing 19	0.08293041139
zinc finger protein 791	0.04466580276
forty-two-three domain containing 1	0.07642498606
DIS3 homolog, exosome endoribonuclease and 3'-5' exoribonuclease	0.06089501408
drebrin 1	-0.11359763088
thioredoxin domain containing 9	0.08955373019
phosphorylase kinase regulatory subunit beta	0.0472223084
sialic acid binding Ig like lectin 15	-0.16575834278
SLIT-ROBO Rho GTPase activating protein 2C	0.12768038539
zinc finger protein 687	-0.08744234384
GATA zinc finger domain containing 2B	-0.05622213327
CASP2 and RIPK1 domain containing adaptor with death domain	-0.09140693428
actin related protein 3	-0.06047489185
sterol O-acyltransferase 1	-0.05560912403
ATPase H ⁺ transporting V1 subunit A	-0.07742472136
TBC1 domain family member 1	-0.08298127733
slit guidance ligand 1	-0.12715395264

voltage dependent anion channel 1	0.07292399905
CCR4-NOT transcription complex subunit 11	0.04313811493
THUMP domain containing 2	0.09095283718
H3.3 histone A	-0.10280882735
zinc finger protein 304	0.07649191096
nuclear receptor binding factor 2	-0.11855569494
tRNA splicing endonuclease subunit 15	0.07927399335
heat shock factor binding protein 1 like 1	-0.09127008427
dynein regulatory complex subunit 7	-0.17645400471
PC-esterase domain containing 1B	-0.07461357125
DEAH-box helicase 8	-0.05403156421
zinc finger protein 543	0.11092244897
ring finger protein 13	-0.07745904694
novel protein	0.1783654035
C-type lectin domain family 1 member B	-0.19233310068
endothelial cell adhesion molecule	-0.19496983302
SH3 domain containing GRB2 like 1, endophilin A2	-0.07096771746
pyruvate carboxylase	-0.12217009483
family with sequence similarity 111 member A	0.09756520875
mutL homolog 1	0.05167309198
adenosine deaminase tRNA specific 2	0.10638515546
programmed cell death 4	0.04698907693
G protein subunit alpha i2	-0.10339871616
keratin 72	-0.11516022868
leucine rich repeat containing 6	-0.12813093919
glycine decarboxylase	0.3252069719
endoplasmic reticulum oxidoreductase 1 beta	0.06063618524
egl-9 family hypoxia inducible factor 3	0.09683928468
serine hydroxymethyltransferase 2	0.0921558525
TRAF family member associated NFKB activator	-0.07343856927
kinetochore associated 1	0.08453959567
pleckstrin homology and coiled-coil domain containing D1	0.21088477544
ATPase Na ⁺ /K ⁺ transporting subunit beta 2	-0.31648657901
zinc finger CCHC-type containing 4	0.07927488507
chromodomain helicase DNA binding protein 9	0.0624684268
DENN domain containing 4C	0.05505038042
caspase recruitment domain family member 9	-0.11018464229
exosome component 6	0.06745639162
tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1	0.27860818373
zinc finger protein 3	0.04829105507
EPM2A interacting protein 1	0.0607089867
methylenetetrahydrofolate reductase	-0.05922329954
Rab geranylgeranyltransferase subunit beta	0.10319307763
Rh blood group D antigen	-0.23123857453
calpain 14	0.16406059692
disco interacting protein 2 homolog A	0.08355060677

pantothenate kinase 4 (inactive)	-0.05276796628
Dmx like 1	0.07503967811
programmed cell death 2	0.05793922652
dynein axonemal light chain 1	0.09089293672
NEDD4 binding protein 2	0.09318880142
lectin, mannose binding 2	-0.06555786458
myoneurin	0.08437267021
solute carrier family 25 member 17	0.06499530649
chloride intracellular channel 4	-0.08527419044
acyl-CoA synthetase family member 2	0.07250276126
nucleolar and coiled-body phosphoprotein 1	0.06081178303
protein disulfide isomerase family A member 6	0.07192294982
sulfotransferase family 1A member 2	0.14874180381
ribosomal protein L7 like 1	0.0556036002
melanoregulin	0.10287516113
BRCA2 and CDKN1A interacting protein	0.08212381588
zinc finger protein 568	0.0843043807
protein tyrosine phosphatase non-receptor type 22	0.07377798183
receptor interacting serine/threonine kinase 1	-0.05873833437
vinculin	-0.08125498526
progesterone and adiponectin receptor family member 3	0.09947788489
RRN3 homolog, RNA polymerase I transcription factor	0.07663667129
TATA-box binding protein associated factor 11	0.06558944125
apolipoprotein B mRNA editing enzyme catalytic subunit 3A	-0.12116209402
PNKD metallo-beta-lactamase domain containing	-0.09007684171
centromere protein Q	0.10366831373
storkhead box 2	-0.29835497381
LARGE xylosyl- and glucuronyltransferase 2	0.12373751842
myotubularin related protein 14	-0.04671546163
GRB10 interacting GYF protein 2	-0.04941963715
cyclic nucleotide gated channel subunit alpha 4	-0.16465834475
CD300a molecule	-0.07334968419
DDB1 and CUL4 associated factor 4	0.08082480145
GTPase, IMAP family member 6	0.07898229347
DDB1 and CUL4 associated factor 17	0.07193750809
sphingomyelin phosphodiesterase 1	-0.06891441063
Jupiter microtubule associated homolog 1	-0.11297532427
interferon alpha inducible protein 6	0.33944476113
Rho GTPase activating protein 15	-0.08210081059
H3.3 histone B	-0.11707173649
testis expressed 10	0.06274014693
regulatory factor X associated protein	0.07992212417
zinc finger SWIM-type containing 4	-0.07722153545
zinc finger protein 254	-0.11136062009
LanC like 1	0.07909517239
chromosome segregation 1 like	0.06298974853

transmembrane protein 18	0.05831439513
maestro heat like repeat family member 8	0.11197010131
peroxisomal biogenesis factor 11 beta	0.05980089345
translocase of outer mitochondrial membrane 70	0.0647164826
ZW10 interacting kinetochore protein	0.20649001765
PDS5 cohesin associated factor A	0.04837469423
ADP ribosylation factor 1	-0.09579947661
H4 clustered histone 4	-0.20880404085
zinc finger DHHC-type palmitoyltransferase 5	-0.06384299884
zinc finger protein 326	0.08059992035
mitotic spindle organizing protein 1	0.08460163142
sorting nexin 13	-0.0793334232
MDM2 binding protein	0.08793538443
membrane associated ring-CH-type finger 2	-0.14345463473
threonine synthase like 2	0.17134588123
growth arrest specific 6	0.14621142239
DExH-box helicase 58	0.18508762768
galectin 8	-0.07168056273
phosphodiesterase 2A	-0.15262053208
succinate dehydrogenase complex iron sulfur subunit B	-0.0462301589
tudor and KH domain containing	0.07624680569
zinc finger protein 420	0.07663366637
Ras suppressor protein 1	-0.06079565793
phosphomevalonate kinase	0.09122019404
transcriptional regulating factor 1	-0.0688281406
mitogen-activated protein kinase kinase kinase 4	0.06438322221
chromosome 11 open reading frame 65	0.15554408161
solute carrier family 1 member 3	-0.33386254715
hydroxyacyl-CoA dehydrogenase	0.0667751337
argonaute RISC catalytic component 2	-0.07861924196
GNAS complex locus	-0.12003175895
pseudouridine synthase 1	0.06122604291
nucleoporin 98 and 96 precursor	-0.06489024608
signal peptide peptidase like 3	-0.04821868347
F-box protein 28	0.03459684995
cyclin dependent kinase 12	-0.04989792643
family with sequence similarity 98 member A	0.0692526074
muscleblind like splicing regulator 2	0.05901353137
ring finger and WD repeat domain 3	0.04097638202
COP9 signalosome subunit 8	0.07603752513
RAB29, member RAS oncogene family	0.05691014305
transmembrane serine protease 5	0.15950604906
G protein subunit beta 1	-0.05955271912
radial spoke head component 9	-0.24755703797
inhibin subunit beta B	-0.27962434227
transmembrane and immunoglobulin domain containing 3	0.25067672365

galactosidase beta 1 like 2	0.16166063421
solute carrier family 9 member B1	0.11323498996
radical S-adenosyl methionine domain containing 2	0.44526013984
DLG associated protein 5	0.2834087569
NOP2/Sun RNA methyltransferase 4	0.05252995218
RNA guanine-7 methyltransferase	0.05640108425
HEN methyltransferase 1	0.07509345339
novel transcript	0.12231355698
solute carrier family 15 member 2	0.10567164709
tubulin polyglutamylase complex subunit 2	-0.143711803
replication factor C subunit 1	0.05085335423
tumor protein p53 binding protein 2	-0.05845914976
dual specificity phosphatase 11	0.0553869657
zinc finger protein 621	0.08319513709
histone deacetylase 9	0.10541704691
TATA-box binding protein	0.04999846914
H2B clustered histone 21	-0.14609534747
zinc finger protein 226	0.09377429397
bridging integrator 2	-0.05196104576
V-set immunoregulatory receptor	-0.09727829245
WASP family member 3	-0.29120446761
chromosome 12 open reading frame 42	0.09668067341
zinc finger protein 746	-0.09139594776
interferon stimulated exonuclease gene 20	0.10558654829
Rho GTPase activating protein 1	-0.06115667928
zinc finger and BTB domain containing 18	-0.07286262555
trio Rho guanine nucleotide exchange factor	0.08541361877
testis specific serine kinase 6	0.11929938817
aldehyde dehydrogenase 1 family member L2	0.25801483477
major facilitator superfamily domain containing 4A	0.16079465876
caspase 3	0.08662794663
solute carrier family 49 member 3	-0.11021566009
TUB like protein 3	0.0705827477
BICD cargo adaptor 1	0.07151816288
CWF19 like cell cycle control factor 2	0.07954201611
lecithin-cholesterol acyltransferase	-0.09724425569
collagen type XVIII alpha 1 chain	-0.09057064446
ring finger protein 8	0.05689425362
autophagy related 3	-0.10213907537
ring finger protein 187	-0.15225316349
p21 (RAC1) activated kinase 2	-0.05831178318
zinc finger protein 720	0.07798172157
zinc finger protein 614	0.08700223018
purine rich element binding protein A	0.05754818174
dual specificity phosphatase 13	-0.27527123301
shisa family member 9	0.44943683606

BOP1 ribosomal biogenesis factor	0.09059741911
MON1 homolog B, secretory trafficking associated	-0.0595376638
cell division cycle 20	0.30020747687
novel protein	-0.12226894428
vacuolar protein sorting 13 homolog A	0.10112763705
exonuclease 1	0.2437672529
translation machinery associated 16 homolog	0.08813691944
NDC1 transmembrane nucleoporin	0.06308031532
solute carrier family 2 member 8	0.12892633863
ubiquitin protein ligase E3 component n-recognin 4	-0.07873180123
adaptor related protein complex 2 subunit mu 1	-0.11440646246
formin like 2	0.16733861517
purinergic receptor P2Y14	-0.22412662903
NIMA related kinase 1	0.06752038946
tRNA methyltransferase 6	0.07880795771
argonaute RISC component 1	-0.06007059256
leucine rich repeat containing 23	-0.07353571347
laminin subunit alpha 2	0.21630735032
mitochondrial poly(A) polymerase	0.06009011535
discs large MAGUK scaffold protein 4	-0.09625181671
mitochondrial ribosomal protein L15	0.10521243256
centrosomal protein 19	-0.11614304183
extra spindle pole bodies like 1, separase	0.21461543561
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 3	-0.14674958858
ELOVL fatty acid elongase 5	-0.07484979302
complement C1q A chain	0.27227476111
TAO kinase 3	-0.04768056082
ATPase family AAA domain containing 2	0.08067666381
chromosome 2 open reading frame 42	0.04436296282
ubiquitin fold modifier 1	0.08433076382
family with sequence similarity 89 member B	-0.13805074958
helicase like transcription factor	0.0956992697
lamin tail domain containing 2	-0.10856203292
WD repeat domain, phosphoinositide interacting 1	-0.09060109003
thioesterase superfamily member 4	0.07782587178
polypeptide N-acetylgalactosaminyltransferase 6	-0.07689941592
eukaryotic translation initiation factor 2 subunit alpha	0.07212199167
dynein axonemal assembly factor 2	0.08913695221
LHFPL tetraspan subfamily member 2	-0.1694211431
oligosaccharyltransferase complex subunit 4, non-catalytic	-0.14013985595
IQ motif containing G	0.08344605336
transmembrane protein 134	0.07095632772
solute carrier family 29 member 2	-0.09923410656
zinc finger protein 623	0.04497857344
syntaxin binding protein 1	-0.10211806288
lysosomal protein transmembrane 4 alpha	-0.06854089308

transforming growth factor beta receptor 2	-0.06205271415
exocyst complex component 7	-0.04804076897
Bcl2 modifying factor	-0.07197903314
gamma-glutamylamine cyclotransferase	0.12285383879
nucleoporin 43	0.05220557677
zinc finger and SCAN domain containing 22	0.0825461732
chaperonin containing TCP1 subunit 6B	0.13820753347
DENN domain containing 2D	0.0563678064
5',3'-nucleotidase, mitochondrial	-0.18761768094
transmembrane protein 116	0.0757696885
Myb/SANT DNA binding domain containing 4 with coiled-coils	0.08432504999
mediator complex subunit 21	0.08066019571
zinc finger protein 345	0.07892321245
nuclear factor, erythroid 2 like 3	-0.09489508338
novel transcript	-0.09837022738
nucleolar protein 8	0.07789242422
elongation factor like GTPase 1	0.06395118859
glutaminase	0.08103639402
debranching RNA lariats 1	0.06654841559
B double prime 1, subunit of RNA polymerase III transcription initiation	0.07438568846
Scm polycomb group protein like 4	0.07429293951
centrosomal protein 112	0.19986222636
G protein subunit gamma 11	-0.21581177963
ras homolog family member B	0.12954166537
decapping enzyme, scavenger	0.05480190888
FRY microtubule binding protein	-0.08795145329
metaxin 3	0.09698838085
pygopus family PHD finger 2	0.05610719715
transmembrane protein 43	-0.06595111802
thyroid hormone receptor interactor 11	0.05012328038
zinc finger protein 502	0.11320429257
ral guanine nucleotide dissociation stimulator like 2	-0.07210975926
partner and localizer of BRCA2	0.06932699313
amyloid beta precursor protein	-0.06907144757
cell division cycle 14B	-0.09959659063
cytochrome b561 family member A3	0.07285575576
phosphatidylinositol 4-kinase beta	-0.04178549929
GTP cyclohydrolase 1	-0.1434140443
family with sequence similarity 209 member B	-0.17065863638
teneurin transmembrane protein 4	0.22831952516
mitochondrial ribosomal protein L47	0.13576880091
outer dense fiber of sperm tails 2 like	0.11050224867
glycerophosphodiester phosphodiesterase domain containing 5	0.07479312105
interferon induced protein with tetratricopeptide repeats 1B	-0.31835521698
zinc finger protein 138	0.0956938899
E1A binding protein p300	-0.08653211151

tetratricopeptide repeat domain 13	0.07889172777
schlafen family member 13	0.08867566402
caspase activity and apoptosis inhibitor 1	0.06687551557
StAR related lipid transfer domain containing 3	-0.0489205717
tubulin gamma complex associated protein 4	0.05474072248
STN1 subunit of CST complex	-0.08862570489
leucine rich repeat containing 61	-0.15540133231
GDP-mannose pyrophosphorylase B	0.07349736624
solute carrier family 38 member 9	0.05735977838
Kruppel like factor 13	-0.059534509
zinc finger protein 763	0.12219562516
ferritin light chain	-0.1647499134
chemerin chemokine-like receptor 1	0.128118705
homocysteine inducible ER protein with ubiquitin like domain 1	0.05649293832
hydroxysteroid 17-beta dehydrogenase 6	0.18266756474
SRY-box transcription factor 13	0.108050774
troponin T1, slow skeletal type	-0.19239315049
epidermal growth factor	-0.23318853671
tetraspanin 32	-0.06013021582
NLR family CARD domain containing 5	-0.09776824821
ATP binding cassette subfamily E member 1	0.09322597422
SAS-6 centriolar assembly protein	0.09391887688
translocase of inner mitochondrial membrane 50	0.07553014151
centrosomal protein 295	0.06499571652
platelet endothelial aggregation receptor 1	-0.2137012268
ATPase phospholipid transporting 8A1	0.07975894303
phosphatase and actin regulator 2	0.08036332512
Janus kinase 2	-0.10011720281
lymphocyte specific protein 1	-0.10827727433
kelch like family member 24	0.04367331819
interleukin 10 receptor subunit alpha	0.06339810417
serine and arginine rich splicing factor 11	0.08407737019
ubiquitin conjugating enzyme E2 B	-0.08091002401
B cell linker	0.38295851424
complement C3	-0.64812263166
G protein-coupled receptor 84	-1.13168053414
RELB proto-oncogene, NF-kB subunit	-0.40939734815
BLK proto-oncogene, Src family tyrosine kinase	0.40876770762
adrenomedullin	-0.69758108666
Fc receptor like A	0.47471012896
collagen type IV alpha 3 chain	0.53972468194
kringle containing transmembrane protein 1	-0.73493288278
B cell scaffold protein with ankyrin repeats 1	0.38364627328
solute carrier family 38 member 11	0.48062900567
Fc receptor like 5	0.47349731323
CD72 molecule	0.28516660271

nuclear factor kappa B subunit 1	-0.18700642262
oxysterol binding protein like 10	0.44285581138
Fc fragment of IgA receptor	-0.49866604786
reticulon 2	-0.42361313918
U6 snRNA biogenesis phosphodiesterase 1	-0.3586502892
Pim-3 proto-oncogene, serine/threonine kinase	-0.36005073562
cordon-bleu WH2 repeat protein like 1	0.36453445502
nuclear factor kappa B subunit 2	-0.2917427183
TNF receptor superfamily member 13B	0.52576197088
CD44 molecule (Indian blood group)	-0.29106880311
STEAP family member 1B	0.34807182098
annexin A3	-0.70984135179
prepronociceptin	0.38557306369
phospholipid phosphatase 5	0.274649156
BAF chromatin remodeling complex subunit BCL11A	0.24860399159
toll like receptor 5	-0.51199892163
RAB10, member RAS oncogene family	-0.16048665313
TNF alpha induced protein 6	-0.72062774614
ST3 beta-galactoside alpha-2,3-sialyltransferase 2	-0.30715671527
LARGE xylosyl- and glucuronyltransferase 1	0.36925865911
interleukin 1 beta	-0.51267765452
TNF receptor superfamily member 13C	0.37532230262
leukocyte immunoglobulin like receptor A6	-0.37079195125
Fc fragment of IgE receptor Ig	-0.43471309346
paired box 5	0.38185801062
ADAM metallopeptidase domain 28	0.35638215273
DENN domain containing 5B	0.37879380421
NLR family CARD domain containing 4	-0.37502042326
folate receptor gamma	-0.4790938406
signal peptide peptidase like 2A	-0.17466638085
calcium voltage-gated channel subunit alpha1 E	-0.58573803339
kelch like family member 14	0.47223155707
kelch like family member 5	-0.19335878278
alkaline phosphatase, biomineralization associated	-0.71719820881
transmembrane protein 176B	-0.45703459204
adaptor related protein complex 3 subunit beta 2	-0.88085013264
phospholipase B domain containing 1	-0.32798583476
DNA damage induced apoptosis suppressor	-0.44053680961
cystatin F	-0.59984864274
multiple C2 and transmembrane domain containing 1	-0.27436629765
leukocyte immunoglobulin like receptor A5	-0.50074837616
POU class 2 homeobox associating factor 1	0.38335116639
nibrin	-0.30956724284
CD22 molecule	0.37459653607
basic helix-loop-helix family member e41	0.59838825281
SEL1L family member 3	0.21281505486

leukotriene A4 hydrolase	-0.28448213984
sialic acid binding Ig like lectin 9	-0.28501535163
solute carrier family 2 member 3	-0.40832469221
solute carrier family 26 member 8	-0.5851006157
synaptopodin	0.42934592284
mitogen-activated protein kinase 14	-0.34209354738
collagen type IV alpha 4 chain	0.50102777205
heparanase	-0.36031335348
CD19 molecule	0.355774505
niban apoptosis regulator 3	0.34342401902
transmembrane protein 176A	-0.45750381941
mast cell expressed membrane protein 1	-0.74156467737
AF4/FMR2 family member 3	0.31774285915
CD177 molecule	-1.41432021847
microtubule associated monooxygenase, calponin and LIM domain con	0.23419152299
intercellular adhesion molecule 1	-0.33000086001
LIM domain kinase 2	-0.36836981615
sialic acid binding Ig like lectin 6	0.41668737819
hexokinase 3	-0.35772012309
EMAP like 6	0.39643892485
CD1c molecule	0.40798036313
GDNF family receptor alpha 2	0.47130022127
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta	0.23337683679
coronin 2B	0.48704307315
dual specificity phosphatase 3	-0.33845884842
pleckstrin homology and RhoGEF domain containing G7	0.55400048275
DNA damage regulated autophagy modulator 1	-0.20992466534
Fc receptor like 2	0.39355535415
FGR proto-oncogene, Src family tyrosine kinase	-0.23720421871
complement C3d receptor 2	0.33550646519
cadherin EGF LAG seven-pass G-type receptor 1	0.32790122264
fatty acid 2-hydroxylase	0.52313690712
semaphorin 4A	-0.29661059146
osteoclast associated Ig-like receptor	-0.28295055348
serpin family B member 1	-0.28221044664
Janus kinase 3	-0.25228305374
hydroxycarboxylic acid receptor 3	-0.42935541574
FA complementation group D2	0.17594285495
zinc finger CCCH-type containing 12A	-0.20587953994
adhesion G protein-coupled receptor E1	-0.39794971268
protein tyrosine phosphatase receptor type K	0.3595266671
S100 calcium binding protein A9	-0.43442083028
ring finger protein 207	-0.3984676547
FAM20A golgi associated secretory pathway pseudokinase	-1.03051724215
amine oxidase copper containing 1	-0.61969666159
zinc finger DHHC-type palmitoyltransferase 19	-0.8313394514

ST3 beta-galactoside alpha-2,3-sialyltransferase 4	-0.38422788114
major histocompatibility complex, class II, DO alpha	0.29012520665
glutaminyl-tRNA amidotransferase subunit QRSL1	0.18160560303
spermatid perinuclear RNA binding protein	0.22580952799
prokineticin 2	-0.50919937725
scavenger receptor class F member 1	-0.46542038657
angiopoietin 1	0.52985813453
angiotensin II receptor associated protein	-0.24209088555
sodium voltage-gated channel alpha subunit 3	0.37238937768
Ral GEF with PH domain and SH3 binding motif 2	0.2298786674
KH RNA binding domain containing, signal transduction associated 2	0.3157695765
translocator protein	-0.34431129841
F-box and leucine rich repeat protein 5	-0.23024644398
integrin subunit beta 2	-0.21862423246
lactamase beta	-0.25283973623
glycogen phosphorylase L	-0.34456163307
interleukin 4 receptor	-0.34665042778
tectonin beta-propeller repeat containing 2	-0.30914926486
SET binding protein 1	0.21434711566
cytoskeleton associated protein 4	-0.34995519752
prolylcarboxypeptidase	-0.19896711733
glycogenin 1	-0.41260674211
haptoglobin	-0.74562544526
regulator of hemoglobinization and erythroid cell expansion	0.34648246731
major histocompatibility complex, class II, DO beta	0.30049791657
5-oxoprolinase, ATP-hydrolysing	-0.52883530563
growth differentiation factor 7	0.52092735955
RAR related orphan receptor C	0.31266944191
metal regulatory transcription factor 1	-0.23196418503
bone marrow stromal cell antigen 1	-0.26827124149
signal transducing adaptor family member 1	0.27583500589
flotillin 2	-0.29483161953
T cell leukemia/lymphoma 1A	0.37408831835
peptidyl arginine deiminase 2	-0.33995371724
GRAM domain containing 1C	0.55266777445
neuritin 1	-0.74838154686
double PHD fingers 3	0.33062919562
solute carrier family 17 member 9	0.23718076875
chromosome 19 open reading frame 38	-0.25653421948
membrane spanning 4-domains A1	0.38952312634
mast cell immunoglobulin like receptor 1	-0.27300550282
MAX dimerization protein 3	-0.26086651683
cannabinoid receptor 2	0.24164212649
kinase non-catalytic C-lobe domain containing 1	-0.47386013323
N-ribosyldihydronicotinamide:quinone reductase 2	-0.27789118934
ATP binding cassette subfamily B member 4	0.31630195178

dehydrogenase/reductase 13	-0.37830709633
interferon lambda receptor 1	0.2301867315
oncostatin M	-0.53783013398
FERM, ARH/RhoGEF and pleckstrin domain protein 2	0.15377682971
Spi-B transcription factor	0.35174208907
pleckstrin	-0.21487631115
HCK proto-oncogene, Src family tyrosine kinase	-0.22760658404
ral guanine nucleotide dissociation stimulator like 4	-0.35847113944
dysferlin	-0.38377001675
NLR family apoptosis inhibitory protein	-0.39729269974
calcium voltage-gated channel auxiliary subunit beta 4	0.53191806061
testis expressed 9	0.32263344753
SRSF protein kinase 1	-0.28834973408
neurotensin receptor 1	-0.46994601029
lamin B1	-0.34884831931
Fc fragment of IgE receptor II	0.32047898652
BTB domain containing 11	0.21365593108
NFKB inhibitor zeta	-0.25662751586
tetraspanin 13	0.29904688728
adipocyte plasma membrane associated protein	-0.30860719146
neuropilin and tolloid like 1	0.52420984688
sphingomyelin phosphodiesterase acid like 3A	-0.29504955965
butyrophilin like 9	0.56005320848
aquaporin 9	-0.34001866299
S100 calcium binding protein A12	-0.59850980088
peptidoglycan recognition protein 1	-0.54376726193
G protein subunit alpha 15	-0.25920426707
vanin 2	-0.3321605807
sarcospan	0.32765758589
mitogen-activated protein kinase kinase kinase 20	-0.30440483561
RAB32, member RAS oncogene family	-0.28106430595
JunB proto-oncogene, AP-1 transcription factor subunit	-0.30893104513
transcription factor 4	0.22251571896
serpin family A member 1	-0.27964279854
RAS guanyl releasing protein 3	0.2570718247
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1M	-0.19559987076
immunoglobulin like domain containing receptor 1	0.52205673948
protein kinase C delta	-0.20528627281
CD79a molecule	0.36111833218
acyl-CoA synthetase long chain family member 1	-0.38727244948
B and T lymphocyte associated	0.23952587715
collagen type IX alpha 2 chain	0.48349215005
lysophospholipase 1	-0.16883321882
potassium inwardly rectifying channel subfamily J member 15	-0.36555520984
interleukin 1 receptor associated kinase 2	-0.20702422715
interferon gamma receptor 2	-0.18898311036

calpastatin	-0.13416722388
Rho guanine nucleotide exchange factor 4	0.36271764731
EBF transcription factor 1	0.33496816645
transmembrane protein 185B	-0.19585955767
perilipin 3	-0.27409097117
cornichon family AMPA receptor auxiliary protein 4	-0.23788683197
peptidase inhibitor 3	-0.69201282495
myristoylated alanine rich protein kinase C substrate	-0.34079531644
folliculin like 4	-0.93368242802
ficolin 1	-0.24183062985
BCL6 transcription repressor	-0.37467100403
acyloxyacyl hydrolase	-0.16704666927
coagulation factor V	-0.36746261975
free fatty acid receptor 2	-0.35602203532
suppressor of cytokine signaling 3	-0.52616309398
reticulon 4	-0.14331980511
asialoglycoprotein receptor 2	-0.34831030195
C-type lectin domain family 4 member F	0.68226035926
cytokine dependent hematopoietic cell linker	0.33293219193
major facilitator superfamily domain containing 14B	-0.20095631684
chromosome 11 open reading frame 80	0.20657422446
maltase-glucoamylase 2 (putative)	-0.44286910437
methyltransferase like 9	-0.26391816309
glycoprotein M6A	0.45508142992
cysteine rich transmembrane module containing 1	-0.35338261737
membrane associated ring-CH-type finger 5	-0.13758416472
steroid receptor RNA activator 1	-0.17704389306
transmembrane protein 156	0.17634151625
tudor domain containing 9	-0.46586922514
docking protein 4	-0.4479553104
ras homolog family member Q	-0.14568958019
formyl peptide receptor 1	-0.31387298725
hyaluronidase 2	-0.28982268165
glycerol-3-phosphate acyltransferase 3	-0.22844329534
membrane bound O-acyltransferase domain containing 2	-0.26265245184
hydroxycarboxylic acid receptor 2	-0.34516325574
pro-apoptotic WT1 regulator	0.25107350496
TAP binding protein	-0.19141296747
muscle RAS oncogene homolog	-0.36426425018
selenoprotein T	-0.1762114455
glyceraldehyde-3-phosphate dehydrogenase	-0.2818740752
RAD23 homolog B, nucleotide excision repair protein	-0.1691478275
ArfGAP with SH3 domain, ankyrin repeat and PH domain 1	-0.20260850793
fatty acid desaturase 3	0.21976643833
alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase	0.15872630037
glucosamine (N-acetyl)-6-sulfatase	-0.19534843017

zinc finger protein 438	-0.27359993876
transmembrane O-mannosyltransferase targeting cadherins 1	-0.41696206576
plasminogen activator, urokinase receptor	-0.25430200759
rabphilin 3A	-0.53063657092
heparan sulfate-glucosamine 3-sulfotransferase 1	0.38398914974
GRAM domain containing 1A	-0.19927642811
GLI pathogenesis related 2	-0.19279382034
laminin subunit alpha 5	0.26712839727
solute carrier family 37 member 3	-0.33418756995
beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferas	0.28231800814
lysosomal protein transmembrane 4 alpha	-0.16359893294
CD200 molecule	0.31299673156
collagen type V alpha 3 chain	0.37096096795
flotillin 1	-0.24182755106
sidekick cell adhesion molecule 2	0.24417573585
Yip1 domain family member 1	-0.17279381337
pleckstrin homology and RhoGEF domain containing G1	0.27111562898
ornithine aminotransferase	-0.21009258241
brain abundant membrane attached signal protein 1	-0.37807216843
SWI/SNF related, matrix associated, actin dependent regulator of chro	-0.25911667839
cochlin	0.37727680152
G protein subunit gamma 7	0.23396491577
G0/G1 switch 2	-0.67813336105
lysozyme	-0.25679417321
caspase recruitment domain family member 6	-0.2611028713
leukocyte receptor tyrosine kinase	0.29749143309
NFKB inhibitor epsilon	-0.24345271786
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	-0.33641156343
Fc fragment of IgG receptor Ia	-0.65589726195
LDL receptor related protein associated protein 1	-0.16936442751
TRAF interacting protein with forkhead associated domain	-0.3461665954
myosin X	-0.44708677122
hedgehog acyltransferase	0.20741857573
EH domain containing 1	-0.25266163375
Fc fragment of IgG receptor IIa	-0.25421595259
synapsin III	0.41118739226
minichromosome maintenance complex binding protein	-0.14435131188
ubiquitin conjugating enzyme E2 D1	-0.24156880222
WEE1 G2 checkpoint kinase	0.23297471367
alkaline ceramidase 3	-0.18478999604
aldehyde dehydrogenase 2 family member	-0.22147536129
TNFAIP3 interacting protein 1	-0.24978431804
5'-3' exoribonuclease 2	-0.14428026199
rhophilin associated tail protein 1 like	-0.27033720844
protein tyrosine phosphatase non-receptor type 13	0.28160035888
polypeptide N-acetylgalactosaminyltransferase 14	-0.49600996496

CD274 molecule	-0.63404705144
USP6 N-terminal like	0.16121420901
hydrogen voltage gated channel 1	0.16263403312
carbohydrate sulfotransferase 2	-0.31689000551
BH3 interacting domain death agonist	-0.17355770588
glutaminy-peptide cyclotransferase	-0.32443702866
immunoglobulin lambda like polypeptide 5	0.36457365634
CD63 molecule	-0.24852294949
phosphate cytidyltransferase 1, choline, alpha	-0.1451330873
nicotinamide phosphoribosyltransferase	-0.30368665373
small glutamine rich tetratricopeptide repeat containing beta	-0.15562811928
CEA cell adhesion molecule 3	-0.25038293434
RNA binding motif single stranded interacting protein 1	-0.1176978675
activator of transcription and developmental regulator AUTS2	0.20902609391
Fc fragment of IgG receptor Ib	-0.50831795206
DnaJ heat shock protein family (Hsp40) member C5	-0.14439861554
solute carrier family 25 member 44	-0.21371971131
zinc finger protein 274	0.11577086561
adhesion G protein-coupled receptor E2	-0.23150634154
glycine amidinotransferase	0.26659613179
DnaJ heat shock protein family (Hsp40) member C3	-0.18870073627
endothelin converting enzyme 1	-0.20566282429
mitochondrial calcium uptake 1	-0.14208779691
integrin subunit alpha 7	-0.60888843386
BAI1 associated protein 3	0.35200550015
phosphogluconate dehydrogenase	-0.27500348695
vimentin	-0.23414292248
coiled-coil domain containing 106	0.24673286547
fermitin family member 3	-0.19858035235
radial spoke head component 9	-0.55858879813
chloride intracellular channel 1	-0.23077549659
ADAM metallopeptidase domain 12	0.30591534487
elastin microfibril interfacier 2	-0.24028083408
zinc finger protein 106	-0.1447600506
leukocyte immunoglobulin like receptor B3	-0.22672226397
golgi associated kinase 1B	-0.30752349263
ADP ribosylation factor like GTPase 6 interacting protein 5	-0.16094443699
complement C3a receptor 1	-0.32393429785
BCL3 transcription coactivator	-0.31429326982
chromosome 16 open reading frame 74	0.21309554284
TAFA chemokine like family member 2	0.23462072982
ankyrin repeat domain 34B	-0.43490465987
sulfide quinone oxidoreductase	-0.2105088168
CD82 molecule	-0.23150490715
ETS proto-oncogene 2, transcription factor	-0.22059282275
CD79b molecule	0.37218298846

5'-nucleotidase domain containing 1	0.09667307199
uridine phosphorylase 1	-0.25588664377
THO complex 5	-0.1652297948
CD36 molecule	-0.28925640238
adhesion G protein-coupled receptor G3	-0.33573826871
perilipin 5	-0.29276507936
C-type lectin like 1	0.27406753795
interferon alpha and beta receptor subunit 1	-0.18416347279
niban apoptosis regulator 1	-0.26713768853
zinc finger and BTB domain containing 7B	-0.19470679065
torsin family 4 member A	-0.23331697369
cAMP-dependent protein kinase inhibitor gamma	0.21667523301
CD14 molecule	-0.3039207649
enolase 1	-0.2039077505
EF-hand domain family member D2	-0.21470594105
hook microtubule tethering protein 2	-0.18343557033
DENN domain containing 5A	-0.1805838385
NEDD4 binding protein 1	-0.18212469524
myotubularin related protein 11	-0.25680665022
UDP glycosyltransferase 8	0.35728259831
solute carrier family 22 member 4	-0.26449006464
lysophosphatidylcholine acyltransferase 3	-0.17177366319
beta-1,4-galactosyltransferase 5	-0.26064977232
RAB30, member RAS oncogene family	0.25784729212
fucosyltransferase 7	-0.32541659677
cytochrome P450 family 1 subfamily B member 1	-0.31136313644
pyruvate kinase M1/2	-0.21480089114
family with sequence similarity 151 member B	-0.22956130574
formyl peptide receptor 2	-0.26823761127
tumor protein D52	0.24772343482
leukocyte immunoglobulin like receptor B2	-0.16110203642
signal transducer and activator of transcription 5B	-0.17726687473
matrix metalloproteinase 9	-0.52588336586
plexin C1	-0.20477577301
vav guanine nucleotide exchange factor 2	0.16581328966
ATPase phospholipid transporting 11B (putative)	-0.19315241344
TNF alpha induced protein 3	-0.22265138911
quiescin sulfhydryl oxidase 2	0.14161300556
VAMP associated protein A	-0.17715637391
GTP cyclohydrolase 1	-0.31296918898
PHD finger protein 21A	-0.19398180231
phosphoinositide-3-kinase adaptor protein 1	-0.25367257579
TNF receptor associated factor 3	-0.14676800342
RUNX family transcription factor 2	0.17569152685
multiple C2 and transmembrane domain containing 2	-0.24742989259
tropomodulin 3	-0.08982783235

docking protein 3	-0.26682756834
nuclear factor, erythroid 2 like 2	-0.1383237717
tetratricopeptide repeat domain 9	0.18121056789
solute carrier family 51 subunit alpha	-0.46895652177
potassium voltage-gated channel subfamily Q member 5	0.1897421032
proline-serine-threonine phosphatase interacting protein 2	-0.34604645531
katanin catalytic subunit A1 like 1	0.18686422351
coiled-coil serine rich protein 1	0.31158736636
TBC1 domain family member 8	-0.26130462306
prolyl 4-hydroxylase subunit alpha 2	-0.28598771165
fem-1 homolog C	-0.18485875608
ZFP36 ring finger protein like 1	-0.22144673757
SH3KBP1 binding protein 1	-0.22539145254
potassium inwardly rectifying channel subfamily J member 2	-0.29648883397
docking protein 7	0.43151827794
endoplasmic reticulum oxidoreductase 1 alpha	-0.12993275821
neuregulin 1	-0.38858391656
interleukin 17 receptor A	-0.18252479674
zinc finger protein 532	0.17712755192
TBC1 domain family member 2B	-0.13919542053
RAB27A, member RAS oncogene family	-0.14649126051
dishevelled associated activator of morphogenesis 2	0.88114881176
complement C3b/C4b receptor 1 (Knops blood group)	-0.31450905704
programmed cell death 1 ligand 2	-0.67570736358
superoxide dismutase 2	-0.27159753308
glycosyltransferase 1 domain containing 1	-0.23639013468
protein-L-isoaspartate (D-aspartate) O-methyltransferase	-0.14904808471
monooxygenase DBH like 1	0.41054229447
caspase 4	-0.22543329528
ADAM metallopeptidase domain 9	-0.21338218171
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1N (putative)	-0.25582738478
calpain 13	-0.61636008339
integrin subunit alpha M	-0.22351475018
mannose receptor C-type 1	0.44066131141
plasminogen activator, urokinase	-0.39841203875
Rab interacting lysosomal protein like 2	-0.15814688513
ADP ribosylation factor GTPase activating protein 3	-0.11555268842
BCAR3 adaptor protein, NSP family member	0.21581692119
thyroid hormone receptor beta	0.3811656564
V-set pre-B cell surrogate light chain 3	0.35803774267
multiple EGF like domains 6	0.21544258113
neutrophil cytosolic factor 4	-0.21202301429
RAB20, member RAS oncogene family	-0.33043541367
vanin 1	-0.34707900144
low density lipoprotein receptor	-0.23629032513
C-type lectin domain family 4 member D	-0.40019086352

C-type lectin domain containing 17A	0.23206881178
ghrelin and obestatin prepropeptide	-0.28109396651
regulator of G protein signaling 3	-0.180573566
protein phosphatase 1 regulatory subunit 3B	-0.2702271681
interleukin 1 receptor antagonist	-0.39015500958
golgi associated, gamma adaptin ear containing, ARF binding protein 2	0.10814110833
C-type lectin domain containing 5A	-0.34343547113
marginal zone B and B1 cell specific protein	0.43873085699
inositol 1,4,5-trisphosphate receptor type 1	0.15870873685
Rap guanine nucleotide exchange factor 5	0.49880004358
X-C motif chemokine receptor 1	0.55033697953
TNF receptor associated factor 5	0.1677747736
solute carrier family 49 member 4	-0.20275496689
cortactin binding protein 2	0.62382171602
lysyl oxidase like 1	-0.30834921871
SET binding factor 2	-0.19594529055
kinesin family member 1B	-0.22829632806
lysophosphatidylcholine acyltransferase 2	-0.22600844597
TNF receptor associated factor 4	0.21021095271
FERM domain containing 4B	-0.18466113616
NCK associated protein 5 like	-0.16481501288
palmitoyl-protein thioesterase 1	-0.15548990043
LIM domain kinase 1	-0.2561926547
uronyl 2-sulfotransferase	0.16496715739
zinc finger protein 606	0.13893122571
cyclin L2	0.11139233289
transmembrane protein 170B	-0.19632098611
N-terminal EF-hand calcium binding protein 1	-1.23621267763
copine 5	0.25909793788
spermatogenesis and centriole associated 1	-0.39763598015
prolyl 4-hydroxylase subunit alpha 1	-0.1030511721
HORMA domain containing 1	-0.29689108988
cathepsin Z	-0.17152504604
desmocollin 2	-0.29256855951
grancalcin	-0.26684143958
BICD cargo adaptor 1	0.14363990076
myosin IB	0.41385392286
RPGR interacting protein 1	0.28931714177
prostate transmembrane protein, androgen induced 1	0.22186904874
cytochrome b-245 chaperone 1	-0.15127593952
cellular communication network factor 3	0.43399486859
sine oculis binding protein homolog	0.40295003844
quiescin sulfhydryl oxidase 1	-0.17433046789
migration and invasion inhibitory protein	-0.19188047572
mucolipin 2	0.20247809516
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	-0.23963366694

aldehyde dehydrogenase 1 family member A2	-0.31086568097
SH3 domain binding protein 4	0.29090898434
TNF superfamily member 13b	-0.29654495012
paternally expressed 10	0.34944965982
zinc finger protein 319	-0.20053737131
nicotinamide nucleotide adenylyltransferase 1	-0.13357487665
galactosylceramidase	-0.14478612048
succinyl-CoA:glutarate-CoA transferase	0.34296397971
phosphoglucomutase 1	-0.17354946857
solute carrier family 16 member 6	-0.13930979114
ATPase H ⁺ transporting V1 subunit C1	-0.16873998464
lymphocyte cytosolic protein 1	-0.16639579942
DSN1 component of MIS12 kinetochore complex	0.15369661553
ADAM metallopeptidase domain 8	-0.17179603278
heat shock protein family A (Hsp70) member 12A	0.36971069771
SKI like proto-oncogene	-0.16877379665
signal regulatory protein alpha	-0.20125564893
TNF receptor superfamily member 17	0.56543117156
macrophage receptor with collagenous structure	-0.36983356345
tropomyosin 3	-0.11943028651
ubiquitin associated protein 1	-0.16442736476
piwi like RNA-mediated gene silencing 4	-0.21547563576
sorting nexin 20	-0.15675176147
syndecan 2	0.48120718567
novel protein	-0.20785097493
ATPase phospholipid transporting 9A (putative)	-0.42089524614
myosin binding protein H	0.48036673528
CST telomere replication complex component 1	0.1135883611
family with sequence similarity 200 member B	-0.15534631104
dehydrogenase/reductase 7	-0.18037994629
zinc finger protein 318	0.13155221403
solute carrier family 2 member 6	-0.2176919308
mitogen-activated protein kinase kinase kinase 9	0.16254835015
nuclear prelamin A recognition factor	-0.16569907126
G protein-coupled receptor 65	-0.18697601939
tetraspanin 3	0.13453504139
LARGE xylosyl- and glucuronyltransferase 2	0.23429574535
transcription factor 7 like 2	-0.22191697431
sorting nexin 25	0.14860407046
zinc finger protein 860	0.37361235605
serine carboxypeptidase 1	-0.14468880913
lin-7 homolog A, crumbs cell polarity complex component	-0.18701778544
annexin A5	-0.17588121475
diacylglycerol O-acyltransferase 2	-0.26565288075
clathrin heavy chain linker domain containing 1	0.1703731084
tectonic family member 1	0.18947867554

myosin VC	0.31415184447
amyloid beta precursor protein binding family B member 1 interacting pi-	-0.16193899953
solute carrier family 2 member 14	-0.38450915861
nucleoporin 160	0.11767954605
F-box and WD repeat domain containing 8	0.13875020947
RAB31, member RAS oncogene family	-0.18700772831
ectodermal-neural cortex 1	-0.18908893465
dysbindin domain containing 1	0.27942186604
E2F transcription factor 5	0.20119454342
cathepsin A	-0.2106506445
alanyl aminopeptidase, membrane	-0.26146874113
zinc finger DHHC-type palmitoyltransferase 20	-0.16481307479
PX domain containing 1	0.28399221348
serglycin	-0.23335687735
microtubule crosslinking factor 1	0.3647560002
Fc fragment of IgM receptor	0.14835496026
sialic acid binding Ig like lectin 5	-0.28894058154
chromosome 16 open reading frame 72	-0.16644394293
thioredoxin reductase 1	-0.13545158196
ribonuclease A family member k6	0.24611624464
switching B cell complex subunit SWAP70	0.13395471016
mediator complex subunit 12L	-0.35854674846
G protein subunit beta 5	0.11264857918
fibulin 2	0.26069152415
selectin L	-0.21998563113
MYD88 innate immune signal transduction adaptor	-0.19797556568
IKAROS family zinc finger 3	0.12761227052
vasodilator stimulated phosphoprotein	-0.22369129098
KIAA0930	-0.18780044577
serpin family B member 8	-0.15419700959
calcium/calmodulin dependent protein kinase kinase 2	-0.16331438511
glutathione S-transferase kappa 1	-0.12385001367
UEV and lactate/malate dehydrogenase domains	-0.09135844196
myosin phosphatase Rho interacting protein	0.12372573311
fucosyltransferase 8	0.1391578236
collagen type XIX alpha 1 chain	0.22747877788
nicastatin	-0.12369734981
TNF superfamily member 15	-0.38898323012
collagen beta(1-O)galactosyltransferase 1	-0.12944756806
S100 calcium binding protein A8	-0.44045633844
protein phosphatase 4 regulatory subunit 2	-0.16505830918
mitogen-activated protein kinase kinase kinase kinase 1	0.13426684029
chitinase 3 like 1	0.42981087096
LIM domains containing 1	0.10007133226
tumor protein p53 inducible protein 11	-0.28898679804
integrin subunit beta 4	-0.45873661109

VPS9 domain containing 1	-0.21285118896
carbonic anhydrase 4	-0.32957423233
glutamate ionotropic receptor NMDA type subunit associated protein 1	-0.33441358914
peroxiredoxin 3	-0.13717244963
tyrosylprotein sulfotransferase 1	0.4601141689
paxillin	-0.16155987797
class II major histocompatibility complex transactivator	0.19376215763
growth arrest and DNA damage inducible beta	-0.23941967533
reticulon 3	-0.1909030377
putative homeodomain transcription factor 1	-0.21042929254
acetyl-CoA acyltransferase 1	-0.11316153261
adaptor related protein complex 3 subunit sigma 2	-0.15847724821
1-acylglycerol-3-phosphate O-acyltransferase 2	-0.18112642563
FYN binding protein 1	-0.1345680122
IQ motif containing N	0.18767944267
CDC42 effector protein 3	-0.20395123561
novel protein	-0.39084031948
family with sequence similarity 126 member B	-0.21535750688
dedicator of cytokinesis 4	-0.38140575248
NFKB inhibitor alpha	-0.24268567808
Jupiter microtubule associated homolog 1	-0.21170840879
LY6/PLAUR domain containing 6B	0.48805881222
ankyrin repeat domain 22	-0.66041814696
signal induced proliferation associated 1 like 3	0.13447824205
C9orf72-SMCR8 complex subunit	-0.1845096886
secreted and transmembrane 1	-0.33793320778
solute carrier family 16 member 3	-0.19269234122
PDZ and LIM domain 5	-0.08891396444
myocyte enhancer factor 2C	0.1287680722
small integral membrane protein 35	0.27322349794
ADP ribosylation factor like GTPase 8A	-0.14667269374
protein phosphatase 1 regulatory subunit 3D	-0.18533180562
solute carrier family 8 member B1	-0.09304217638
tetratricopeptide repeat domain 34	0.24586396036
zinc finger protein 875	0.10553493355
major histocompatibility complex, class II, DQ alpha 1	0.20532360754
transmembrane protein 165	-0.15766339132
SRY-box transcription factor 5	0.41545359067
capping actin protein of muscle Z-line subunit alpha 1	-0.13936047883
formin homology 2 domain containing 1	-0.12018437592
FOS like 2, AP-1 transcription factor subunit	-0.21284747405
protocadherin 9	0.29101109061
glutathione S-transferase omega 1	-0.17015077424
P2RX5-TAX1BP3 readthrough (NMD candidate)	0.31295529288
brain protein I3	-0.17121875609
tumor protein p53 inducible protein 3	-0.25312577917

granule associated Rac and RHOG effector 1	0.11120191816
phospholipid scramblase 1	-0.38229480839
hematopoietically expressed homeobox	-0.18595378198
capping actin protein, gelsolin like	-0.21441773
fms related receptor tyrosine kinase 3	0.44284703528
SOS Ras/Rho guanine nucleotide exchange factor 2	-0.14678832025
erythroblast membrane associated protein (Scianna blood group)	-0.1204782196
reticulon 4 interacting protein 1	0.14916585031
cathepsin H	-0.16675414747
delta 4-desaturase, sphingolipid 1	-0.13239514113
cytohesin 4	-0.16032499626
solute carrier family 24 member 4	-0.19560855195
derlin 3	0.31964152768
RAS like proto-oncogene B	-0.1990441014
transcription termination factor 1	0.09828311314
solute carrier family 12 member 9	-0.15513833189
laminin subunit gamma 1	0.22623007435
cytoplasmic FMR1 interacting protein 1	-0.18279482225
ER degradation enhancing alpha-mannosidase like protein 2	-0.10671863989
	0.56242072933
NGFI-A binding protein 1	-0.15418665146
signal transducer and activator of transcription 5A	-0.13384769496
lactate dehydrogenase A	-0.16622723781
solute carrier family 9 member A1	-0.15332071067
SH3 domain containing GRB2 like, endophilin B1	-0.16365578818
nuclear transcription factor, X-box binding 1	0.07190386053
WD repeat and SOCS box containing 2	-0.1923746856
transmembrane protein 273	0.20112282788
BEN domain containing 4	0.28104458032
leukocyte immunoglobulin like receptor B4	-0.23747594544
proteasome 20S subunit beta 3	-0.20763841624
ArfGAP with GTPase domain, ankyrin repeat and PH domain 3	-0.13917793053
chromosome 4 open reading frame 3	-0.17728130192
immunoglobulin heavy variable 4-38-2-like	0.52303499853
methyl-CpG binding domain protein 2	-0.09839844196
cyclase associated actin cytoskeleton regulatory protein 1	-0.15668871204
ADP ribosylation factor like GTPase 11	-0.15412475511
polypeptide N-acetylgalactosaminyltransferase 3	-0.18128964422
major vault protein	-0.15112183499
protein kinase cAMP-dependent type II regulatory subunit alpha	-0.10049019038
deltex E3 ubiquitin ligase 4	0.25601496582
lysophosphatidic acid receptor 5	0.13572203914
CCAAT enhancer binding protein alpha	-0.25332252321
arachidonate 5-lipoxygenase	-0.17923230285
glycolipid transfer protein	-0.11968931684
galectin 2	-0.27322541284

single stranded DNA binding protein 2	0.10806108907
cyclic GMP-AMP synthase	-0.16209486493
immunoglobulin superfamily member 6	-0.18505871712
oviductal glycoprotein 1	0.20256016295
mono-ADP ribosylhydrolase 2	0.42093638057
interleukin 1 receptor associated kinase 3	-0.25667860635
transmembrane protein 121B	-0.23619795246
F-box protein 10	0.28928500822
coiled-coil domain containing 50	0.17103018733
junction adhesion molecule like	-0.13496003968
niban apoptosis regulator 2	-0.20983523632
EPM2A glucan phosphatase, laforin	0.14816299712
sortilin 1	-0.23344761849
C-terminal Src kinase	-0.13336267281
EH domain binding protein 1 like 1	-0.14619919301
thrombospondin type laminin G domain and EAR repeats	0.45275216603
dihydropyrimidine dehydrogenase	-0.13852432032
transmembrane protein 33	-0.11197456647
slingshot protein phosphatase 1	-0.16566821133
phospholipase A2 group VII	-0.28416432887
glycine decarboxylase	0.54882680418
adaptor related protein complex 5 subunit beta 1	-0.21688061311
thymidine phosphorylase	-0.24525174504
nectin cell adhesion molecule 2	-0.2539666976
integral membrane protein 2C	0.27635276534
adenosine kinase	0.15712592985
zinc finger protein 281	-0.16044152505
NADH:ubiquinone oxidoreductase complex assembly factor 6	0.10410180816
CD55 molecule (Cromer blood group)	-0.19385389839
xylosyltransferase 1	0.14151428979
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation prc	-0.1276777593
GM2 ganglioside activator	-0.16963847087
Fc receptor like 1	0.26983260153
chondroadherin	0.41313975251
protein kinase C epsilon	0.22411533805
growth factor receptor bound protein 2	-0.1245196723
complement C1r subcomponent like	-0.14604622584
cell cycle progression 1	-0.16781202355
RAS guanyl releasing protein 4	-0.17292061929
cathepsin B	-0.20658881103
transmembrane protein 260	-0.16507147528
cAMP responsive element binding protein 5	-0.2063440955
cathepsin K	-0.13056789492
interferon regulatory factor 4	0.20374212761
solute carrier family 46 member 2	-0.23107717638
MYCL proto-oncogene, bHLH transcription factor	-0.21968391707

toll like receptor 1	-0.17838993256
glutathione S-transferase C-terminal domain containing	0.14390170537
PHD finger protein 24	0.55414953567
stomatin	-0.24196281597
poly(ADP-ribose) polymerase family member 15	0.18994523846
INSC spindle orientation adaptor protein	-0.38201325074
ubiquitin like with PHD and ring finger domains 2	0.11448737976
catenin alpha 1	-0.12906437675
C-X-C motif chemokine receptor 5	0.20107832268
patatin like phospholipase domain containing 7	0.19291190743
family with sequence similarity 160 member A2	-0.13467448235
kinesin family member 27	0.2787785615
microsomal glutathione S-transferase 1	-0.19942741753
golgi membrane protein 2	-0.09162940682
teashirt zinc finger homeobox 3	-0.17818545516
sulfotransferase family 1B member 1	-0.2398121693
isocitrate dehydrogenase (NADP(+)) 1	-0.1397003507
dual specificity tyrosine phosphorylation regulated kinase 4	0.31157517123
solute carrier family 5 member 9	0.41439244039
myosin XIX	0.10288421467
vitamin D receptor	-0.16124159443
PDZ domain containing 8	-0.17395132757
lymphotoxin beta	-0.15107434433
WD repeat and FYVE domain containing 3	-0.21977844166
CKLF like MARVEL transmembrane domain containing 3	-0.1402817619
signaling lymphocytic activation molecule family member 1	0.14137997192
zinc finger DHHC-type palmitoyltransferase 3	-0.12378271071
CRACD like	0.27731441059
harakiri, BCL2 interacting protein	0.40074732497
glucosylceramidase beta	-0.16377452231
centrosomal protein 128	0.14529250768
NFAT activating protein with ITAM motif 1	-0.17806377357
coenzyme Q2, polyprenyltransferase	-0.14305116576
stromal antigen 3	0.25753670948
interleukin 27	-0.43358487944
zinc finger and SCAN domain containing 18	0.14405522391
DNA polymerase delta 3, accessory subunit	-0.09627501326
CDP-diacylglycerol synthase 2	-0.11140603787
lymphotoxin beta receptor	-0.16242855406
Wnt family member 10B	0.21065104811
STEAP4 metalloreductase	-0.22868615364
solute carrier family 15 member 3	-0.17576784789
DS cell adhesion molecule like 1	0.30929075959
NLR family pyrin domain containing 1	0.12658034643
zinc finger protein 467	-0.20778398502
ATP binding cassette subfamily C member 3	-0.23635572493

solute carrier family 39 member 8	-0.14254836113
platelet activating factor acetylhydrolase 1b catalytic subunit 2	-0.09147464468
CTD nuclear envelope phosphatase 1 regulatory subunit 1	-0.12678961422
KIAA0825	-0.21047973745
CD151 molecule (Raph blood group)	-0.22493192734
zinc finger protein 654	-0.09614457775
RIC3 acetylcholine receptor chaperone	0.14473195607
serine/threonine kinase 3	-0.19957886927
regulator of G protein signaling 19	-0.16430429686
ring finger protein 149	-0.14726030252
ankyrin and armadillo repeat containing	0.10553049873
ring finger protein 24	-0.19302759746
TNF receptor superfamily member 1B	-0.14374531927
secretory leukocyte peptidase inhibitor	-0.39931277339
granulin precursor	-0.21375211564
sorcin	-0.10377231425
phospholipase D family member 4	0.23825063404
transmembrane immune signaling adaptor TYROBP	-0.18680944123
oxysterol binding protein like 3	0.11773180201
major histocompatibility complex, class I-related	-0.11843482187
glutaredoxin	-0.15175601113
ZFP36 ring finger protein	-0.1744870324
Spi-1 proto-oncogene	-0.19207207384
POM121 transmembrane nucleoporin	0.09292908512
integrin linked kinase	-0.13394001578
gelsolin	-0.19549402448
PTTG1 interacting protein	-0.09377759524
solute carrier family 12 member 3	0.38189485752
versican	-0.24455563116
FLVCR heme transporter 2	-0.26594558951
RNA polymerase II subunit C	-0.12445820688
desmoplakin	0.33831293668
CAP-Gly domain containing linker protein 1	-0.10686586779
formin 1	0.30672030782
chromosome 20 open reading frame 204	0.2877913454
RAB8B, member RAS oncogene family	-0.11412589032
SPG21 abhydrolase domain containing, maspardin	-0.12309374562
selenophosphate synthetase 2	-0.13884796133
strawberry notch homolog 2	-0.1790684465
zyxin	-0.21429023051
N-acetylneuraminate synthase	-0.13099200393
SID1 transmembrane family member 1	0.10883136673
G protein subunit alpha i3	-0.10637800827
chromosome 16 open reading frame 70	-0.08910044945
testis specific 10	0.14807841622
CD300e molecule	-0.26481994869

signal peptide peptidase like 2B	0.11373759233
S100 calcium binding protein A11	-0.27035235162
transcriptional repressor GATA binding 1	-0.17597064799
doublecortin like kinase 2	0.40965330001
nuclear factor, erythroid 2 like 3	-0.16500187792
basic leucine zipper ATF-like transcription factor	-0.15132985487
E1A binding protein p400	0.13390463163
MAPK interacting serine/threonine kinase 1	-0.1631661569
G protein-coupled receptor 108	-0.12403898205
matrix metalloproteinase 25	-0.20171039169
ERI1 exoribonuclease family member 3	0.09647893584
spermatogenesis associated 2 like	-0.1995031916
caspase 5	-0.37781731272
unc-5 family C-terminal like	0.16502500458
chimerin 1	0.23165186891
lipase maturation factor 1	0.11654407889
round spermatid basic protein 1	-0.1357273164
tigger transposable element derived 3	0.32566323925
potassium voltage-gated channel subfamily H member 8	0.23792389196
D-2-hydroxyglutarate dehydrogenase	0.11842235071
resistin	-0.38867730265
UTP6 small subunit processome component	0.10718496474
cytochrome p450 oxidoreductase	-0.17127832126
EF-hand calcium binding domain 2	-0.22290987088
Jun proto-oncogene, AP-1 transcription factor subunit	0.21358635256
huntingtin interacting protein 1 related	0.13400357368
cytochrome c oxidase assembly factor 1 homolog	0.12640465969
nuclear factor, erythroid 2	-0.24786553178
actin related protein 1A	-0.11547873805
aspartate beta-hydroxylase domain containing 2	-0.24142917612
heat shock protein family A (Hsp70) member 1A	-0.21925861052
desumoylating isopeptidase 1	-0.09851566743
dipeptidase 3	0.26397263034
malic enzyme 2	-0.08882490077
rabaptin, RAB GTPase binding effector protein 2	0.10786943511
VPS35 retromer complex component	-0.0897894216
phosphatidylglycerophosphate synthase 1	-0.18661908383
plexin B2	-0.20436753618
EvC ciliary complex subunit 2	0.26032173102
interleukin 15 receptor subunit alpha	-0.16609662194
cell division cycle associated 7 like	0.15078429683
vav guanine nucleotide exchange factor 1	-0.11011950647
RAP2B, member of RAS oncogene family	-0.10733096025
growth arrest specific 7	-0.18395406001
tumor protein p63	0.34756572864
immediate early response 3	-0.19710887343

oligodendrocyte myelin glycoprotein	-0.27510516841
galectin 8	-0.1203478905
DNA ligase 1	0.10227354022
capping protein regulator and myosin 1 linker 1	0.14302657619
leucine rich repeat containing 56	0.19733857399
protein phosphatase 1 regulatory subunit 12A	-0.11094904469
inositol polyphosphate phosphatase like 1	-0.10124082956
midasin AAA ATPase 1	0.14259269087
NOP2/Sun RNA methyltransferase 3	-0.09729588583
WDFY family member 4	0.15528180299
OTU deubiquitinase with linear linkage specificity like	-0.11796968619
purinergic receptor P2Y14	-0.37748106383
WRN RecQ like helicase	0.10661032665
deoxyribonuclease 1 like 3	0.34331657088
tripartite motif containing 9	-0.29641378019
carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and d	0.09613440383
solute carrier family 9 member A8	-0.15371169988
prosaposin	-0.14499780507
fatty acid desaturase 1	-0.1865746846
PHD finger protein 23	-0.12991518478
uridine-cytidine kinase 1 like 1	0.10826540176
WD repeat domain 59	0.07187216747
scavenger receptor family member expressed on T cells 1	0.19731382819
transmembrane and immunoglobulin domain containing 3	0.39497321695
purinergic receptor P2X 7	-0.17787816482
COPI coat complex subunit beta 1	-0.09223485371
glutamate-cysteine ligase modifier subunit	-0.13236918316
twinfilin actin binding protein 2	-0.15209431136
cell division cycle 42	-0.09716223217
myocyte enhancer factor 2A	-0.16209774641
syndecan binding protein	-0.17680160011
sterol O-acyltransferase 2	0.27724127125
sorting nexin 22	0.1870620459
kizuna centrosomal protein	0.08847042771
leucine rich repeat containing 25	-0.17634512343
ankyrin repeat domain 50	-0.16072667742
transmembrane protein 144	-0.23351245012
coiled-coil domain containing 88C	0.0929649381
syntaxin 11	-0.23494908635
BAF chromatin remodeling complex subunit BCL7A	0.15803220096
G protein-coupled receptor 27	-0.23848389262
interleukin 17 receptor E	0.2511048898
TRAF interacting protein	0.25178972254
tribbles pseudokinase 2	0.15720553518
hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex sul-	0.06499605842
phosphoribosylformylglycinamidase synthase	0.11449468136

ubiquitin conjugating enzyme E2 R2	-0.15769162814
COPI coat complex subunit alpha	-0.07566146873
exostosin glycosyltransferase 1	-0.19999761648
tyrosylprotein sulfotransferase 2	-0.12898823663
kallikrein 1	0.3749535795
C-type lectin domain containing 9A	0.2986625946
methyltransferase like 8	0.09781334655
perilipin 4	-0.23799526521
TATA-box binding protein associated factor 4b	0.13473399709
cyclin dependent kinase 2 interacting protein	-0.10417349648
death effector domain containing	-0.10137778285
leucine rich single-pass membrane protein 1	-0.21951773493
PR/SET domain 5	-0.21570359646
transketolase	-0.17211606497
discoidin domain receptor tyrosine kinase 1	0.17034907063
poly(ADP-ribose) polymerase 1	0.09988743007
Ras protein specific guanine nucleotide releasing factor 1	0.36113375526
interleukin 7	0.19590628777
beta-secretase 2	0.18479627219
membrane spanning 4-domains A6A	-0.18915043224
C-type lectin domain containing 6A	-0.3099325863
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation prc	-0.10659521289
abhydrolase domain containing 12B	-0.43594006138
cadherin 2	0.41603171211
mannosidase alpha class 2B member 1	-0.1023713352
calcineurin binding protein 1	0.12939622195
caspase 1	-0.17523483504
MOB kinase activator 1A	-0.11027040877
tripartite motif containing 21	-0.19404956557
microtubule associated protein RP/EB family member 1	-0.09993432027
Scm polycomb group protein like 4	0.12411649543
ubiquitin specific peptidase 24	0.10886987246
transforming growth factor beta receptor 1	-0.11859066139
solute carrier family 4 member 3	0.38373919909
novel protein	0.19663771729
MCF.2 cell line derived transforming sequence-like 2	0.16734818822
NCK associated protein 1 like	-0.08242960872
solute carrier family 40 member 1	-0.19635141011
recombination signal binding protein for immunoglobulin kappa J region	-0.112308654
ras homolog family member G	-0.22234594817
ret finger protein like 2	0.21732126996
adenosine deaminase RNA specific B1	0.11896296296
CKLF like MARVEL transmembrane domain containing 6	-0.14107604727
guanosine monophosphate reductase 2	-0.1033603902
CD58 molecule	-0.12002130292
tubulin folding cofactor D	0.09622092693

sorting nexin 3	-0.20150168868
inosine monophosphate dehydrogenase 1	-0.15389393459
RAB5A, member RAS oncogene family	-0.10170322054
MCF.2 cell line derived transforming sequence like	0.14505257885
transmembrane protein 134	0.1147915613
sorting nexin 18	-0.15599567612
transmembrane protein 64	-0.16411664557
endoplasmic reticulum to nucleus signaling 1	0.16496387268
tubulin polymerization promoting protein	0.24531998361
histamine receptor H2	-0.19800924576
phospholipase B1	-0.22832248667
triosephosphate isomerase 1	-0.1533336352
NLR family pyrin domain containing 12	-0.16652731086
chloride intracellular channel 4	-0.13402193618
S100 calcium binding protein A6	-0.20288882172
spermatogenesis associated serine rich 2	0.15052301391
unk zinc finger	0.08987702869
succinate dehydrogenase complex subunit C	-0.07260298191
ArfGAP with FG repeats 1	-0.13042814202
zinc finger CCHC-type containing 7	0.12908231802
caspase recruitment domain family member 11	0.11214109202
LRR binding FLII interacting protein 2	-0.11158478658
zinc finger and BTB domain containing 32	0.27647939988
triple QxxK/R motif containing	-0.14960687298
transmembrane protein 63A	0.09836796631
leucine rich repeat kinase 2	-0.17673692521
RELT like 1	0.22017721469
RAS related	-0.21413568573
proliferation and apoptosis adaptor protein 15	-0.1628740293
actin related protein 2/3 complex subunit 5	-0.13971941374
glutathione-disulfide reductase	-0.11230536503
phosphoglycerate mutase 1	-0.13936966161
myelin protein zero like 1	0.23947275028
FUS RNA binding protein	0.07265169167
cysteine and serine rich nuclear protein 1	-0.2329674602
cytidine deaminase	-0.22269588954
syntaxin binding protein 2	-0.16366707067
RP9 pre-mRNA splicing factor	0.12016063342
coiled-coil domain containing 9B	0.19788520711
NUMB endocytic adaptor protein	-0.12674733623
DDB1 and CUL4 associated factor 10	-0.0815818139
arrestin beta 2	-0.14300807333
PRELI domain containing 1	-0.1586395571
ATP/GTP binding protein like 2	0.18009669292
guanylate cyclase activator 1B	0.1162104027
phospholipase A2 group VI	0.10163172606

myosin XVI	0.319908944
chromosome 8 open reading frame 88	-0.31901704492
novel protein, SIRPB1-SIRPD readthrough	-0.14467367888
eukaryotic translation initiation factor 2 alpha kinase 3	0.09804710881
protein phosphatase 1 regulatory subunit 3E	0.10236787567
bromodomain adjacent to zinc finger domain 1A	-0.14370189359
sterile alpha motif domain containing 12	0.14659352008
zinc finger protein 814	0.10304485647
methionine sulfoxide reductase B1	-0.23359775508
coactosin like F-actin binding protein 1	-0.16906248256
methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, meth-	-0.1880463276
pecanex 2	0.10601375377
inositol 1,4,5-trisphosphate receptor type 3	0.12384221851
CD180 molecule	0.1719136911
cysteinyl-tRNA synthetase 2, mitochondrial	-0.11408474619
novel protein, DEPDC5-YWHAH readthrough	0.16665214235
F-box protein 6	-0.30779500803
myosin ID	0.13820133681
solute carrier family 11 member 1	-0.20468314454
exoribonuclease 1	-0.15791347186
exocyst complex component 6	-0.13327202098
pyruvate dehydrogenase phosphatase regulatory subunit	0.06531206536
HECT and RLD domain containing E3 ubiquitin protein ligase 2	0.11340191044
autophagy related 3	-0.16216074031
histone deacetylase 9	0.1660440654
cathepsin C	-0.10030020436
leucine rich repeat containing 4	-0.24052888276
nuclear receptor subfamily 6 group A member 1	-0.1863328483
pseudouridine synthase 7	0.12572319122
G protein-coupled receptor 19	0.19094788706
novel protein	0.19594085763
leukocyte immunoglobulin like receptor B5	-0.23255163664
acidic nuclear phosphoprotein 32 family member A	-0.09429850181
sirtuin 3	0.08303900838
TEK receptor tyrosine kinase	0.45204195138
vesicle associated membrane protein 3	-0.13078269072
nucleobindin 1	-0.20030881479
insulin like growth factor binding protein 7	-0.15110977988
orosomucoid 1	-0.43998053149
family with sequence similarity 160 member B1	-0.15489764497
valyl-tRNA synthetase 1	0.10732881466
protein inhibitor of activated STAT 2	0.16192877945
zinc finger DHHC-type palmitoyltransferase 7	-0.08588451855
transmembrane protein 167B	-0.11282179335
capping actin protein of muscle Z-line subunit alpha 2	-0.12472293898
alpha kinase 1	-0.17394883228

NFKB activating protein like	0.30371618674
netrin G1	0.52427904483
zinc finger protein 254	-0.17086072697
serine incorporator 2	-0.22898971726
cyclin dependent kinase inhibitor 1C	-0.36260335837
G protein-coupled receptor kinase 5	0.08649532065
zinc finger protein 787	-0.13235817936
mechanistic target of rapamycin kinase	0.08181838186
PR/SET domain 11	0.11202290972
cytochrome P450 family 2 subfamily E member 1	0.25985848224
ETS repressor factor like	0.1619695253
KH domain containing 4, pre-mRNA splicing factor	0.07984019753
tumor necrosis factor	-0.18287422625
kinesin family member 5C	0.14099698046
family with sequence similarity 81 member A	0.24756441158
protein interacting with PRKCA 1	0.1166990948
guanylate binding protein 2	-0.21820941055
homer scaffold protein 3	-0.1805338753
solute carrier family 38 member 1	0.13992933158
ring finger protein 19B	-0.1581846435
torsin 1A interacting protein 2	-0.08188151379
heme binding protein 1	-0.21664373723
C-X3-C motif chemokine receptor 1	-0.20299466389
SH2B adaptor protein 1	0.07293441121
TAM41 mitochondrial translocator assembly and maintenance homolog	0.09264047248
prostate androgen-regulated mucin-like protein 1	0.2220170138
dehydrogenase/reductase 7B	-0.09078519994
serpin family B member 6	-0.08122429844
solute carrier family 30 member 1	-0.15540736851
MORN repeat containing 1	0.11533352765
ring finger protein 144B	-0.15814823064
breast carcinoma amplified sequence 4	0.12057690585
ring finger protein 135	-0.10596665792
WD repeat domain 77	0.10430174056
ribosomal protein S6 kinase A1	-0.12415467818
SLAM family member 6	0.10842366652
ADP ribosylation factor like GTPase 8B	-0.07782304277
colony stimulating factor 2 receptor subunit beta	-0.17110968239
translocase of outer mitochondrial membrane 40 like	-0.13269164227
WD repeat domain, phosphoinositide interacting 1	-0.14003606919
carboxylesterase 1	-0.25476883418
charged multivesicular body protein 2B	-0.11631384296
BCL2 interacting protein 2	-0.11441928009
Fc receptor like 3	0.14532539613
integrin subunit alpha X	-0.16622291879
prostaglandin I2 receptor	-0.18378761427

phosphomannomutase 2	0.09008282714
potassium voltage-gated channel interacting protein 2	0.15188620517
mitochondrial rRNA methyltransferase 1	0.11394046351
actin related protein 3	-0.09132332213
absent in melanoma 2	-0.31486263962
transforming growth factor beta 1	-0.15910620831
major facilitator superfamily domain containing 2A	-0.21122411657
dynein axonemal heavy chain 8	0.30591861289
potassium channel modulatory factor 1	-0.0782505951
nuclear factor, interleukin 3 regulated	-0.19898502754
ATPase copper transporting beta	-0.20190603958
CCAAT enhancer binding protein beta	-0.20106592293
kinase suppressor of ras 1	0.12812994681
FRAT regulator of WNT signaling pathway 2	-0.19427851984
microtubule associated protein 2	0.34661433725
Ras and Rab interactor 1	-0.19592363974
formin binding protein 4	0.08525754135
microtubule associated monooxygenase, calponin and LIM domain con	-0.11026288142
tropomyosin 4	-0.10028096949
CDK5 regulatory subunit associated protein 2	-0.13907548027
galactokinase 1	-0.15824488861
UBE2F-SCLY readthrough (NMD candidate)	-0.12211380247
tubulin alpha 1a	-0.19496687279
casein kinase 1 alpha 1	-0.06647291846
SURP and G-patch domain containing 2	0.0789931482
matrix metalloproteinase 8	-0.54223437561
chromosome 12 open reading frame 42	0.14502578266
tetratricopeptide repeat domain 21A	0.24354390431
maltase-glucoamylase	-0.25740585123
citramalyl-CoA lyase	0.12999795678
TNF receptor superfamily member 1A	-0.14606742106
TNF receptor superfamily member 21	0.26656703647
ATPase family AAA domain containing 3B	0.10883404519
zinc finger and BTB domain containing 7A	-0.10280092006
CD300c molecule	-0.19304355089
interferon regulatory factor 8	0.11529780451
sterol O-acyltransferase 1	-0.08226115774
FKBP prolyl isomerase 15	-0.09655056529
potassium channel tetramerization domain containing 21	-0.11054256173
DDHD domain containing 2	0.10967570007
protein tyrosine phosphatase receptor type J	-0.14665432885
elongator acetyltransferase complex subunit 2	0.08925545349
protein phosphatase 3 catalytic subunit gamma	0.09564861192
activating transcription factor 6	-0.12241992263
TLE family member 1, transcriptional corepressor	0.18096234009
thymocyte selection associated family member 2	-0.12282088149

KIT proto-oncogene, receptor tyrosine kinase	0.27974421791
sialic acid binding Ig like lectin 10	-0.18171736654
phospholipid scramblase 2	-0.32101817384
anoctamin 9	0.138596419
zinc finger protein 331	0.09522421505
rhomboid 5 homolog 2	-0.17730244349
novel protein	-0.159163926
FES proto-oncogene, tyrosine kinase	-0.12842143509
tripartite motif containing 8	-0.13114105337
trio Rho guanine nucleotide exchange factor	0.12880312778
synoviolin 1	0.08149866334
TEF transcription factor, PAR bZIP family member	0.14035134687
Fc fragment of IgG receptor IIIb	-0.18690215816
RNA binding motif protein 19	0.08210458458
Ras and Rab interactor 3	-0.11107849495
C1q and TNF related 6	0.10673563165
zinc finger protein 441	0.17585078598
tetratricopeptide repeat domain 12	0.11569412938
hepsin	-0.34957426383
cilia and flagella associated protein 54	0.27160436995
cyclin and CBS domain divalent metal cation transport mediator 4	0.07937357549
5'-aminolevulinate synthase 1	-0.10675278933
chromosome transmission fidelity factor 18	0.13888455006
protein kinase C and casein kinase substrate in neurons 1	0.19940029863
novel transcript	-0.16750996858
interferon induced transmembrane protein 2	-0.26993146881
exonuclease 3'-5' domain containing 3	0.09596420693
activating transcription factor 7 interacting protein 2	0.1028471036
fatty acyl-CoA reductase 1	-0.13617281554
G protein subunit beta 2	-0.17860998505
growth arrest and DNA damage inducible alpha	-0.24286964772
EF-hand domain containing 1	0.11788692344
bone morphogenetic protein 8a	0.34570162071
yippee like 1	0.13806489653
WD repeat domain 34	0.19132567079
ras homolog family member U	-0.14498182257
RAS related 2	0.12399733911
nicotinate phosphoribosyltransferase	-0.13215496808
CDC42 small effector 2	-0.06000256479
kynureninase	-0.17836420072
isoleucyl-tRNA synthetase 1	0.08296773151
ATPase H ⁺ transporting accessory protein 1 like	0.1385270481
DISC1 scaffold protein	-0.17562196005
ATP/GTP binding protein 1	-0.13109277961
novel protein	0.13628795588
actin beta	-0.17112095224

cytochrome b-245 alpha chain	-0.11638721443
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta	-0.08505418352
OS9 endoplasmic reticulum lectin	-0.09264803086
CD48 molecule	-0.1249662567
synaptic Ras GTPase activating protein 1	0.10828491889
eva-1 homolog C	0.12534681731
myosin IE	0.13857802466
replication factor C subunit 5	0.09548254057
kelch like family member 32	0.1814371881
Scm like with four mbt domains 1	0.10284159616
kelch like family member 2	-0.1849355675
pseudouridine synthase 1	0.08947842583
HIV-1 Tat interactive protein 2	-0.11743594433
synaptosome associated protein 23	-0.10708323277
midnolin	-0.16103911062
myosin heavy chain 3	0.12373548878
calcineurin like EF-hand protein 1	-0.12304434759
MYC associated factor X	-0.10047125437
LYN proto-oncogene, Src family tyrosine kinase	-0.13048445393
neutrophil cytosolic factor 2	-0.120392451
presenilin 1	-0.07871774663
discs large MAGUK scaffold protein 4	-0.14299937306
PLAG1 like zinc finger 2	-0.12753839407
epsin 2	0.14982538564
Fc fragment of IgG receptor IIb	0.14681963359
transmembrane protein 243	0.08992049836
DNA polymerase delta 4, accessory subunit	0.19380773591
LDL receptor related protein 5	0.19639664047
Rap1 GTPase-GDP dissociation stimulator 1	0.07214774468
adenosine deaminase like	0.12997806086
YEATS domain containing 2	0.08269127827
cofilin 1	-0.16905740365
cytochrome b5 reductase 1	-0.12162298101
lysine acetyltransferase 2A	0.09695268911
insulin like 3	-0.2040379986
ubiquitin conjugating enzyme E2 D3	-0.10394615952
jumonji and AT-rich interaction domain containing 2	0.12763290448
interferon regulatory factor 1	-0.18931864971
interleukin 10 receptor subunit beta	-0.1581932384
small nuclear ribonucleoprotein U11/U12 subunit 35	-0.06569028476
dual adaptor of phosphotyrosine and 3-phosphoinositides 1	-0.155781951
family with sequence similarity 53 member C	-0.14728616289
SEC22 homolog B, vesicle trafficking protein (gene/pseudogene)	-0.09082466421
WD repeat domain 86	0.15839605032
complement C5a receptor 1	-0.1891390761
serine/threonine/tyrosine kinase 1	0.2071965103

transmembrane and coiled-coil domains 3	-0.14019283132
BCL10 immune signaling adaptor	-0.10620642258
centrosomal protein 72	0.13003382644
G-patch domain containing 4	0.12028449216
endosome-lysosome associated apoptosis and autophagy regulator fan0.13330225757	
semaphorin 3C	0.13982969082
serpin family B member 10	-0.38676039814
solute carrier organic anion transporter family member 3A1	-0.10953752514
poly(ADP-ribose) polymerase 2	0.12976215061
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation prc-0.06650605345	
cut like homeobox 2	0.24611012948
solute carrier family 15 member 2	0.15145039289
zinc finger protein 135	0.15253434009
dual specificity phosphatase 10	-0.12162608754
thyroglobulin	-0.19300349648
5'-nucleotidase ecto	0.14505210605
farnesyl-diphosphate farnesyltransferase 1	-0.09112490934
WASP family member 1	-0.21793320221
INO80 complex subunit E	0.07029998222
THADA armadillo repeat containing	0.07074863256
UBX domain protein 11	-0.11662162622
negative elongation factor complex member A	0.06783468474
fibronectin type III domain containing 3B	-0.14417490634
mitochondrial ribosome recycling factor	0.08084958133
capping actin protein of muscle Z-line subunit beta	-0.10402364255
nucleotide binding oligomerization domain containing 2	-0.14870552748
nuclear GTPase, germinal center associated	0.1638036742
carnosine synthase 1	0.13848595894
sorting nexin 29	0.09609139034
mitogen-activated protein kinase kinase 6	-0.16335813814
bromodomain containing 9	0.06582730977
joining chain of multimeric IgA and IgM	0.43652347431
NEDD4 binding protein 3	0.18593925518
B9 domain containing 2	-0.11460535515
ATPase H ⁺ transporting V0 subunit d1	-0.13108251276
macrophage erythroblast attacher, E3 ubiquitin ligase	-0.09688177747
solute carrier family 6 member 12	-0.21400436464
complement factor H	0.16659745567
zinc finger DHHC-type palmitoyltransferase 18	-0.15323630875
deleted in azoospermia like	0.36428881954
serum/glucocorticoid regulated kinase 1	0.21715921868
coiled-coil domain containing 32	0.06226415738
dimethylarginine dimethylaminohydrolase 2	-0.15616759532
interleukin 1 receptor associated kinase 4	-0.09194353902
histamine N-methyltransferase	-0.17174892918
angiotensin I converting enzyme	0.25915387744

sodium voltage-gated channel beta subunit 1	-0.21512177719
polypeptide N-acetylgalactosaminyltransferase 1	-0.08495626153
glutamate rich 1	-0.09214227074
Rho GTPase activating protein 30	-0.08693190296
ATPase 13A3	-0.13836093619
arachidonate 15-lipoxygenase type B	0.51255115158
transmembrane protein 159	-0.11132763506
acyl-CoA dehydrogenase family member 10	0.06848512787
protein arginine methyltransferase 5	-0.11918439536
diphthamine biosynthesis 6	0.11518344511
AT-rich interaction domain 1B	0.07627504085
ataxin 7 like 3	-0.10007667926
ALG14 UDP-N-acetylglucosaminyltransferase subunit	0.12350118318
tubulin epsilon and delta complex 1	0.14809783696
ral guanine nucleotide dissociation stimulator like 3	0.27349770363
tripartite motif containing 66	0.11483803428
TAR (HIV-1) RNA binding protein 1	0.12739847335
actin related protein 2	-0.09989052071
ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	-0.09859938079
family with sequence similarity 177 member B	0.18976087903
SH3 domain binding protein 2	-0.08268521226
elongator complex protein 1	0.08181890456
GDP dissociation inhibitor 2	-0.08805285915
potassium voltage-gated channel subfamily Q member 3	0.37684664318
target of myb1 membrane trafficking protein	-0.10756774779
gon-4 like	0.06911309761
TEA domain transcription factor 2	0.30335587974
Ras association domain family member 4	-0.13494561454
zinc finger protein 391	0.170568791
whirlin	0.16749448845
ubiquitin specific peptidase 40	0.09555359885
zinc finger FYVE-type containing 27	0.06931025722
inositol 1,4,5-trisphosphate receptor interacting protein	-0.14879674685
poly(A) specific ribonuclease subunit PAN2	0.0987481475
nuclear pore complex interacting protein family member B4	0.10120576986
mitogen-activated protein kinase kinase kinase 4	0.09076641276
proprotein convertase subtilisin/kexin type 7	0.07706702877
TIMP metalloproteinase inhibitor 2	-0.13223381793
LIM and SH3 protein 1	-0.13121601241
cytochrome b5 domain containing 2	0.08126827969
cyclin dependent kinase 15	0.34061020552
tetratricopeptide repeat domain 28	0.22578006946
caveolin 1	0.43923434415
HLF transcription factor, PAR bZIP family member	0.21227659396
kinesin family member 3C	-0.18944269842
ferritin heavy chain 1	-0.2321263984

family with sequence similarity 117 member B	0.09240751241
periphilin 1	0.06732409483
hepatitis A virus cellular receptor 2	-0.10410442875
kelch repeat and BTB domain containing 8	0.1694735239
disco interacting protein 2 homolog A	0.11721710228
zinc finger protein 154	0.14658100012
beta-1,3-galactosyltransferase 2	0.25887836939
CD302 molecule	-0.12367733256
cyclin dependent kinase inhibitor 2D	-0.18641017217
solute carrier family 9 member B1	0.15697701448
exosome component 4	-0.21987082443
sphingosine-1-phosphate receptor 3	-0.1966369012
immediate early response 2	-0.15185242481
calmin	-0.12548565407
nuclear receptor binding protein 1	-0.06838363621
LDL receptor related protein 10	-0.15787720073
FAD dependent oxidoreductase domain containing 1	0.08926000526
zinc finger protein 107	0.17376831125
steroid 5 alpha-reductase 1	-0.11268368497
folistatin like 3	-0.18017481831
protein kinase C zeta	0.1037486554
TOX high mobility group box family member 2	0.16833593592
sterile alpha motif domain containing 8	-0.08758060831
ankyrin repeat and SOCS box containing 7	-0.08805169057
RAB24, member RAS oncogene family	-0.2643886916
DnaJ heat shock protein family (Hsp40) member B5	0.24174429509
ataxin 1	-0.10844279686
EYA transcriptional coactivator and phosphatase 2	0.45866460392
transient receptor potential cation channel subfamily M member 2	-0.17445489569
amyloid beta precursor like protein 2	-0.09963032391
minichromosome maintenance complex component 2	0.16178199645
enoyl-CoA hydratase domain containing 2	0.09640337742
annexin A7	-0.07879535094
centrosomal protein 131	0.10873240704
prolyl 4-hydroxylase, transmembrane	0.07988991556
ubiquitin domain containing 1	-0.15342493664
ankyrin repeat and SOCS box containing 8	-0.09095077393
lectin, mannose binding 2	-0.09121470857
fibrosin like 1	0.06895976131
mitogen-activated protein kinase kinase kinase 4	-0.10935468143
FA complementation group M	0.11410185386
zinc finger CW-type and PWWP domain containing 1	0.1067447485
sodium channel modifier 1	-0.07843631468
PNKD metallo-beta-lactamase domain containing	-0.12414632639
phosphatidylinositol binding clathrin assembly protein	-0.10655784427
chromosome 1 open reading frame 112	-0.21981528329

late endosomal/lysosomal adaptor, MAPK and MTOR activator 1	-0.10053663214
tenascin R	0.29768093958
SH2B adaptor protein 2	-0.13325965688
NFKB inhibitor beta	-0.10469997662
integrin alpha FG-GAP repeat containing 2	0.07932061621
proline rich coiled-coil 2B	0.07498161697
transforming growth factor alpha	-0.18572127051
zinc finger protein 292	-0.11210130051
DENN domain containing 4A	0.08439429252
ring finger protein, transmembrane 2	0.13893175468
G protein-coupled receptor kinase 6	-0.11493634836
zinc finger protein 580	0.15938998392
lipopolysaccharide induced TNF factor	-0.18234973549
torsin 1A interacting protein 1	-0.09703181888
proteasome 20S subunit beta 4	-0.0978174738
galectin 9C	-0.27090683858
SMG7 nonsense mediated mRNA decay factor	-0.09368258084
HMG-box containing 4	-0.06196628434
VOPP1 WW domain binding protein	-0.07213959454
RCC1 and BTB domain containing protein 2	-0.11169060442
ETS proto-oncogene 1, transcription factor	0.11238022114
protein phosphatase 1 regulatory subunit 18	-0.16111198713
GTPase activating Rap/RanGAP domain like 3	0.13355195811
leucine rich repeat neuronal 1	-0.2421286822
chromatin assembly factor 1 subunit A	0.09877903163
zinc finger protein 117	0.21672294447
C-X-C motif chemokine receptor 1	-0.20537419683
glycerophosphodiester phosphodiesterase 1	-0.1653528222
pterin-4 alpha-carbinolamine dehydratase 2	0.0872648416
rhomboid domain containing 1	0.06664044992
transmembrane protein 163	0.23669834399
furin, paired basic amino acid cleaving enzyme	-0.18469867522
HIVEP zinc finger 1	-0.10813681869
kinesin light chain 2	0.10558652346
Gse1 coiled-coil protein	0.0990444074
calcium binding protein 39	-0.09843734412
ATPase secretory pathway Ca ²⁺ transporting 2	-0.32538491834
tetratricopeptide repeat domain 17	0.05978274709
shootin 1	-0.15324405979
coenzyme Q9	0.06457520431
YLP motif containing 1	0.08372178951
influenza virus NS1A binding protein	-0.11648465529
SERTA domain containing 3	-0.13400942643
DEAH-box helicase 37	0.08115311079
CASP8 and FADD like apoptosis regulator	-0.11616745668
transmembrane protein 117	0.12173285211

diphthamide biosynthesis 1	0.09333194228
single-pass membrane protein with coiled-coil domains 4	-0.15924560698
copine 3	-0.09751292079
apoptosis resistant E3 ubiquitin protein ligase 1	-0.08594035629
WD repeat and SOCS box containing 1	-0.13312126155
H3.3 histone A	-0.13960775243
gasdermin D	-0.13057281334
kinesin family member C3	-0.2005154368
MLLT1 super elongation complex subunit	-0.12193725692
sorting nexin 6	-0.08173569276
integrin subunit alpha 1	-0.16774883247
eukaryotic translation initiation factor 4H	-0.06540286812
EF-hand calcium binding domain 13	0.14072864804
SAP30 like	-0.0757621753
protein C, inactivator of coagulation factors Va and VIIIa	0.29928983761
fukutin related protein	-0.06696360245
taspase 1	0.09991353516
synaptonemal complex protein 2	-0.18401815788
LHFPL tetraspan subfamily member 5	-0.39195787329
G kinase anchoring protein 1	0.13175791692
glycosylated lysosomal membrane protein	-0.12646835668
ring finger protein 217	-0.16128868772
Rho/Rac guanine nucleotide exchange factor 2	-0.07427000448
decapping mRNA 2	-0.08833570786
beta-ureidopropionase 1	-0.23041923785
family with sequence similarity 241 member A	-0.11682137062
transmembrane protein 88	-0.17744533017
torsin family 1 member A	-0.09005876234
solute carrier family 41 member 2	0.21706090656
URB1 ribosome biogenesis homolog	0.09065275812
jumonji domain containing 6, arginine demethylase and lysine hydroxyl	-0.09002928578
N-acylsphingosine amidohydrolase 1	-0.11315857841
EPH receptor A4	0.107208244
serine and arginine rich splicing factor 9	-0.06952851746
T cell immune regulator 1, ATPase H ⁺ transporting V0 subunit a3	-0.1118743779
zinc finger protein 710	-0.09904903234
ras homolog family member T1	-0.08889553294
major histocompatibility complex, class I, A	-0.15107840485
NODAL modulator 1	0.08420946089
cytoplasmic polyadenylation element binding protein 4	-0.139339218
queuine tRNA-ribosyltransferase catalytic subunit 1	0.10780992685
Rac family small GTPase 2	-0.1364466608
lymphocyte antigen 96	-0.15353878981
egl-9 family hypoxia inducible factor 3	0.12782726779
transaldolase 1	-0.16721505409
lon peptidase 2, peroxisomal	0.08677915156

solute carrier family 25 member 40	-0.1242107887
transmembrane channel like 6	0.07824378541
acylphosphatase 2	0.11249780847
interferon regulatory factor 2	-0.11407022661
serum response factor	-0.11293357772
mitochondrial trans-2-enoyl-CoA reductase	0.09914180072
TBC1 domain family member 10B	-0.10839812125
Fas cell surface death receptor	-0.16870138861
diphthamide biosynthesis 7	0.07810057581
apolipoprotein L6	-0.24639253533
5-methyltetrahydrofolate-homocysteine methyltransferase	0.10429624558
netrin G2	-0.20532818966
Ras association domain family member 6	0.27508557041
DNA polymerase gamma 2, accessory subunit	0.09576260143
Scm polycomb group protein homolog 1	0.07593016561
legumain	0.13702459595
embigin	-0.11853309171
NIMA related kinase 8	0.11448953974
TBC1 domain family member 7	0.13240933354
ADAM metallopeptidase with thrombospondin type 1 motif 6	0.19972759442
ependymin related 1	-0.1867998725
F11 receptor	-0.12878586368
PBX/knotted 1 homeobox 1	-0.08828935645
RAB GTPase activating protein 1 like	0.08036751963
C-type lectin domain containing 16A	0.06433404411
MYC binding protein 2	0.09612094111
sphingosine kinase 1	-0.22892775336
TPD52 like 2	-0.09622495532
procollagen-lysine,2-oxoglutarate 5-dioxygenase 2	-0.34555655986
zinc finger protein 717	0.09550290265
programmed cell death 11	0.07339989317
histidyl-tRNA synthetase 1	0.05509643874
mitochondrial ribosomal protein S25	0.10026977741
nucleolar protein 3	-0.18411482936
LPS responsive beige-like anchor protein	0.07766989174
COMM domain containing 9	-0.10921511994
ankyrin repeat domain 13A	-0.09856978969
ST6 beta-galactoside alpha-2,6-sialyltransferase 1	0.06542806259
natural cytotoxicity triggering receptor 1	-0.19508434424
GEN1 Holliday junction 5' flap endonuclease	0.12499530991
ring finger protein 122	0.12479145038
CD53 molecule	-0.07739121891
testis expressed 101	0.47128296891
SFI1 centrin binding protein	0.09723714067
hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit 1	-0.07223721499
holocarboxylase synthetase	0.09201235551

family with sequence similarity 167 member A	0.18695333734
shortage in chiasmata 1	-0.40820623173
nucleoporin 210	0.08316558434
phosphatidylinositol glycan anchor biosynthesis class G	0.07131268597
G protein subunit alpha i2	-0.13760444684
solute carrier family 22 member 16	-0.21839302645
family with sequence similarity 214 member B	-0.13775651671
CD1a molecule	0.20152451526
lemur tyrosine kinase 2	-0.14051797533
anaphase promoting complex subunit 5	0.05873833136
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1K	0.13112852353
NK3 homeobox 1	0.28707302725
NDRG family member 2	0.12186816124
sideroflexin 5	-0.11657790875
proline rich 11	-0.1826479814
transmembrane p24 trafficking protein 1	-0.13672236946
TNF superfamily member 14	-0.15506669692
calmodulin binding transcription activator 1	0.08522840958
ubiquitin conjugating enzyme E2 G2	0.0673830361
PAT1 homolog 2	0.1062650773
ankyrin repeat and sterile alpha motif domain containing 3	0.09936074598
zinc finger E-box binding homeobox 2	-0.09071522667
replication factor C subunit 4	0.12606478322
proteasome activator subunit 1	-0.15879893357
lysosomal associated membrane protein 1	-0.10104808744
ARV1 homolog, fatty acid homeostasis modulator	0.09400681222
taste 1 receptor member 3	0.24768556793
Suv3 like RNA helicase	0.07908486933
PR/SET domain 15	0.08291988248
transmembrane and coiled-coil domain family 1	0.15476683564
H3.3 histone B	-0.15625956228
nucleolar protein 9	0.06966859368
annexin A2	-0.14300801947
potassium channel tetramerization domain containing 5	-0.07162027147
heat shock protein family A (Hsp70) member 1 like	-0.11237645473
GIT ArfGAP 2	-0.06723370415
DEAD-box helicase 27	0.06281618345
solute carrier family 66 member 2	-0.14097042197
calpain 1	-0.10716556103
MYB proto-oncogene like 2	0.28045192487
Rho GTPase activating protein 15	-0.10949907857
DNA topoisomerase III alpha	-0.06833795648
N-sulfoglucosamine sulfohydrolase	-0.11170795196
TATA-box binding protein associated factor 13	-0.10051866189
interleukin 6 receptor	-0.11525705518
cytochrome c oxidase assembly factor COX20	0.09277636728

piezo type mechanosensitive ion channel component 1	0.09074205276
protein tyrosine phosphatase receptor type E	-0.09638513249
RAD51 associated protein 1	0.24172394589
PYD and CARD domain containing	-0.17376488996
mitotic arrest deficient 2 like 2	-0.13031101216
small nuclear ribonucleoprotein U1 subunit 70	0.0652745984
calcium voltage-gated channel subunit alpha1 I	0.13890751831
AE binding protein 1	0.1418689274
mitogen-activated protein kinase kinase kinase 8	-0.07434432533
cytochrome P450 family 46 subfamily A member 1	0.24540383631
RFX family member 8, lacking RFX DNA binding domain	0.2468037054
F-box and leucine rich repeat protein 19	-0.09135513385
NEDD4 E3 ubiquitin protein ligase	-0.12470873773
Kruppel like factor 4	-0.16345624051
transporter 1, ATP binding cassette subfamily B member	-0.17515408684
transmembrane protein 238	0.19721538465
WD repeat domain 4	0.08289683555
SEC11 homolog C, signal peptidase complex subunit	0.14024111755
ribonuclease L	-0.10922713908
intraflagellar transport 27	0.07647476443
novel protein	0.09040778731
PTPRF interacting protein alpha 3	0.19479018228
DEAD-box helicase 31	0.08971909114
lysophosphatidic acid receptor 1	-0.16165173633
ring finger and WD repeat domain 3	0.05356550649
solute carrier family 44 member 5	0.2767260462
alanyl-tRNA synthetase 2, mitochondrial	0.08813348202
NBPF member 14	-0.11864537891
RAD51 paralog C	0.10194841211
lysocardiolipin acyltransferase 1	0.0711654837
olfactomedin 1	-0.23461819335
large tumor suppressor kinase 2	-0.0918901428
G protein signaling modulator 3	-0.16111996743
acid phosphatase 3	-0.11468095182
cathepsin S	-0.10085566936
valosin containing protein interacting protein 1	-0.12350723744
long intergenic non-protein coding RNA 2218	0.22075771573
zinc finger and BTB domain containing 22	-0.09855872056
solute carrier family 25 member 37	-0.20243848269
BAG cochaperone 4	-0.06034025703
DLG associated protein 3	0.20483782212
divergent protein kinase domain 1A	0.10309926433
acyl-CoA dehydrogenase family member 9	0.07233620314
novel transcript	0.11685737896
dynein axonemal heavy chain 17	-0.2769923852
RAB1A, member RAS oncogene family	-0.07041472614

zinc finger protein 202	0.0864989009
testis associated actin remodelling kinase 2	-0.09823377366
TNF receptor superfamily member 8	-0.1252586774
small integral membrane protein 20	0.09110232359
amine oxidase copper containing 3	0.19201445681
TATA-box binding protein associated factor 11	0.08431571189
sequestosome 1	-0.11148388263
elongator acetyltransferase complex subunit 3	0.06757885331
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase	-0.21496322715
metaxin 1	-0.12042775091
S100 calcium binding protein A4	-0.15205226115
transportin 1	-0.08441392736
zinc finger protein 33B	0.07358783152
transmembrane protein 8B	0.11511761529
potassium voltage-gated channel subfamily H member 7	-0.49118389872
immediate early response 5	-0.10928284877
zinc finger and BTB domain containing 47	-0.13319608825
transmembrane BAX inhibitor motif containing 6	-0.09185281195
musashi RNA binding protein 2	0.07553357536
ERCC excision repair 1, endonuclease non-catalytic subunit	0.07636826446
bestrophin 1	-0.16894167353
melanocyte inducing transcription factor	-0.17685448769
CEBPZ opposite strand	-0.08849411765
proteasome 20S subunit beta 9	-0.14632312502
NOP2/Sun RNA methyltransferase 6	0.08625871314
G-patch domain containing 1	0.0623535357
siah E3 ubiquitin protein ligase 2	-0.24075010808
coiled-coil domain containing 7	0.11777612281
syntaxin 10	-0.1033403527
matrix metalloproteinase 11	0.23005576122
ribosomal protein S6 kinase A5	0.12198908273
capicua transcriptional repressor	-0.10800606869
ankyrin repeat domain 16	0.09525799886
metabolism of cobalamin associated D	-0.10036177883
myelin protein zero	-0.10840770333
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma	-0.09774565306
nucleic acid binding protein 1	-0.14906694988
C-X-C motif chemokine ligand 16	-0.17710902462
sestrin 1	0.1299335543
osteoclast stimulating factor 1	-0.08414589666
Ral GTPase activating protein catalytic subunit alpha 1	0.09964637869
cellular repressor of E1A stimulated genes 1	-0.17565454069
WW domain binding protein 1 like	-0.07209459999
zinc finger protein 264	0.06682731103
MIS18 kinetochore protein A	0.1443689143
zinc finger protein 90	0.17911247408

olfactomedin 4	-0.49982331739
activin A receptor type 1B	-0.11156094976
actin binding LIM protein family member 2	0.12702898009
leucine rich repeats and immunoglobulin like domains 1	0.0981401115
WW domain containing adaptor with coiled-coil	-0.07407612269
mannosidase alpha class 1A member 1	-0.11983130763
KIAA1328	0.09598379254
ankyrin repeat and MYND domain containing 1	0.07467608583
autophagy related 7	-0.11327130547
serine/threonine kinase 33	0.23956578765
clathrin heavy chain	-0.07133075615
major facilitator superfamily domain containing 13A	-0.12968060707
1-acylglycerol-3-phosphate O-acyltransferase 3	-0.09521867
RNF103-CHMP3 readthrough	0.16438699348
pericentriolar material 1	0.09460926913
CXXC finger protein 5	0.09884892922
formimidoyltransferase cyclodeaminase	0.26493507134
nuclear factor of activated T cells 1	0.06215190587
stromal cell derived factor 2	-0.06823487879
novel protein	0.2222257456
fibronectin 1	0.38727523647
NADH:ubiquinone oxidoreductase subunit A10	0.05200028059
aminopeptidase puromycin sensitive	-0.06994175069
TRAF-type zinc finger domain containing 1	-0.15569893922
calcium binding tyrosine phosphorylation regulated	0.2120886324
pyrroline-5-carboxylate reductase 3	0.16392813311
sorting nexin 10	-0.11210492734
neurofibromin 1	-0.08749385951
C-X-C motif chemokine ligand 10	-0.57694044333
homeostatic iron regulator	-0.13463440763
coiled-coil domain containing 84	0.09200406128
MET transcriptional regulator MACC1	0.23665660423
karyopherin subunit beta 1	-0.09812528435
armadillo repeat containing 8	-0.07642746084
galectin 1	-0.16233626507
UBX domain protein 2B	-0.11530543396
formyl peptide receptor 3	0.24950913452
phospholipase D family member 5	0.32428051927
complement C3b/C4b receptor 1 like	-0.20679324234
zinc finger and BTB domain containing 34	-0.12196331271
membrane bound O-acyltransferase domain containing 1	-0.08798668289
poly(A)-specific ribonuclease	0.04910529158
Janus kinase 2	-0.13245440018
retinol dehydrogenase 10	-0.12436228996
X-ray radiation resistance associated 1	0.08426779111
SPT3 homolog, SAGA and STAGA complex component	0.11077949391

StAR related lipid transfer domain containing 13	0.25238997209
Bardet-Biedl syndrome 2	0.07629581977
ubiquitin specific peptidase 38	-0.10264325872
myeloid zinc finger 1	0.07743455781
POC1 centriolar protein B	-0.09209353279
zinc finger protein 91	0.08266472196
NFKB inhibitor delta	-0.07879888549
centriolar coiled-coil protein 110	-0.09900468775
heterogeneous nuclear ribonucleoprotein H1	0.10481722759
leukocyte receptor cluster member 8	0.07504361686
zinc finger protein 93	0.10738178759
BLM RecQ like helicase	0.10519309373
MAX dimerization protein MGA	0.07686199794
proteasome 20S subunit beta 8	-0.12118879916
mortality factor 4 like 1	-0.07370306617
SREBF chaperone	0.09514432363
FGGY carbohydrate kinase domain containing	0.12927992029
exonuclease 5	0.14532069227
solute carrier family 35 member F2	0.12598208685
H4 clustered histone 8	0.15481387299
caspase recruitment domain family member 16	-0.22385929078
TNFRSF1A associated via death domain	0.06463061302
DAZ interacting zinc finger protein 3	0.10947744548
cut like homeobox 1	-0.11123000915
meiotic double-stranded break formation protein 1	0.08173877865
ORAI calcium release-activated calcium modulator 2	-0.12337840052
regulator of G protein signaling 1	-0.33890083658
Ras like without CAAX 1	-0.10039474961
zinc finger protein 18	0.07869569365
RNA binding motif protein 28	0.06816842683
C-C motif chemokine receptor 1	-0.19656227287
protein phosphatase 4 catalytic subunit	-0.10843129758
DGCR8 microprocessor complex subunit	0.067823096
ring finger protein 145	-0.06841795359
NUMB like endocytic adaptor protein	0.09341967992
integrin subunit alpha E	0.07677393638
PYM homolog 1, exon junction complex associated factor	0.07147851249
leucyl-tRNA synthetase 2, mitochondrial	0.07013525739
leukocyte specific transcript 1	-0.13099812746
cytochrome b5 reductase 3	-0.15113638828
heat shock transcription factor 5	0.15154780976
inositol polyphosphate-5-phosphatase F	0.09151805617
MAX network transcriptional repressor	-0.08566098261
pericentrin	0.07279975179
RAB33B, member RAS oncogene family	-0.13961230723
mitogen-activated protein kinase 3	-0.14398129273

anoctamin 10	-0.10647786926
lunapark, ER junction formation factor	-0.08354944665
solute carrier organic anion transporter family member 4C1	-0.17763568183
F-box protein 41	0.0777952737
DAB adaptor protein 1	0.15365097498
post-glycosylphosphatidylinositol attachment to proteins 6	-0.12721522134
plexin A2	0.16408425518
chromosome 1 open reading frame 162	-0.12392458166
kinesin family member 13A	-0.11247233396
nipsnap homolog 3B	0.15191734036
serine hydroxymethyltransferase 1	0.09538275541
dachshund family transcription factor 1	-0.1787634973
late endosomal/lysosomal adaptor, MAPK and MTOR activator 5	-0.15561185526
DOP1 leucine zipper like protein B	0.07885346594
family with sequence similarity 228 member B	-0.07557689294
family with sequence similarity 136 member A	0.08656919213
transmembrane protein 50A	-0.07664218734
cyclin D1 binding protein 1	-0.10308551632
ATP synthase inhibitory factor subunit 1	0.06735991688
alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase	-0.11298517958
myosin light chain 12A	-0.12074392573
Rho GDP dissociation inhibitor beta	-0.12200050381
thimet oligopeptidase 1	0.08920743016
aminopeptidase O (putative)	0.09887799889
death effector domain containing 2	-0.10929552155
erythroferrone	-0.6212626398
RNA polymerase III subunit E	0.06609975809
methionyl aminopeptidase type 1D, mitochondrial	0.10762437551
STE20 related adaptor alpha	-0.11882996644
novel protein	0.11741218106
interleukin 18 binding protein	0.08065423354
intraflagellar transport 57	0.13157436077
ArfGAP with GTPase domain, ankyrin repeat and PH domain 9	0.14948856002
nucleoporin 88	0.07198915433
cysteine rich secretory protein LCCL domain containing 2	-0.17347444795
tRNA splicing endonuclease subunit 2	0.08699705887
CD80 molecule	0.2598640159
histone deacetylase 4	-0.12184691207
transmembrane and ubiquitin like domain containing 2	-0.07872003964
filamin B	0.09553168744
ubiquitin associated protein 2	0.07729616325
RUN and SH3 domain containing 2	-0.14029089781
solute carrier family 20 member 1	-0.08738684926
endosome associated trafficking regulator 1	0.07207773021
zinc finger CCCH-type containing, antiviral 1 like	0.26316613809
solute carrier family 25 member 42	0.07973725339

MHC class I polypeptide-related sequence B	-0.1193852903
proteasome 20S subunit alpha 8	0.25133352489
programmed cell death 1	0.16240203878
plexin D1	-0.11566109392
TIR domain containing adaptor protein	-0.06562498651
coiled-coil domain containing 73	-0.18721466676
poly(ADP-ribose) polymerase family member 10	-0.16794349408
zinc finger protein 316	-0.082060925
PDZ and LIM domain 7	-0.14780964296
zinc finger MIZ-type containing 1	0.10831088517
out at first homolog	-0.14080941197
atlastin GTPase 3	-0.06436968791
cell division cycle associated 8	0.16958472593
phosphatidylinositol glycan anchor biosynthesis class U	0.0757144375
WD repeat domain 78	0.12529176004
thyroid hormone receptor interactor 13	0.29223059404
O-sialoglycoprotein endopeptidase like 1	0.10255434107
tRNA splicing endonuclease subunit 34	-0.1405296868
zinc finger SWIM-type containing 6	-0.10390513349
ATPase 13A4	0.16566774639
leukotriene B4 receptor	-0.11445472417
microtubule interacting and trafficking domain containing 1	-0.10256210578
cytoplasmic FMR1 interacting protein 2	-0.06448107826
coiled-coil domain containing 58	0.13522790123
MANSC domain containing 1	-0.19486586168
nitrilase family member 2	0.0952161397
cysteine rich protein 3	0.17111716278
MTOR associated protein, eak-7 homolog	0.07872847739
zinc finger protein 549	0.09128266287
membrane spanning 4-domains A14	-0.17309017105
SECIS binding protein 2	0.07281069699
complement C1r	-0.15442201692
methyltransferase like 3	0.07853635625
charged multivesicular body protein 4B	-0.11083929761
phosphatidylinositol glycan anchor biosynthesis class H	0.07237230122
proline rich and Gla domain 4	-0.19028600993
peptidyl arginine deiminase 4	-0.19000095128
transcriptional adaptor 3	-0.09346158098
JNK1/MAPK8 associated membrane protein	-0.09257086259
DIS3 like 3'-5' exoribonuclease 2	0.07668470201
SEC31 homolog B, COPII coat complex component	0.09301898532
BCL2 related protein A1	-0.22628189046
nei like DNA glycosylase 1	0.12807282802
YTH N6-methyladenosine RNA binding protein 3	-0.07988273251
outer dense fiber of sperm tails 3B	-0.24068537689
isovaleryl-CoA dehydrogenase	0.06512843623

RAB7A, member RAS oncogene family	-0.09457821413
sorting nexin 1	-0.04542821942
growth hormone inducible transmembrane protein	-0.09688854261
solute carrier family 7 member 7	-0.10608850511
WD repeat containing planar cell polarity effector	0.08287118953
proteasome 20S subunit beta 10	-0.13909908771
protein tyrosine kinase 2	0.09461602274
succinate dehydrogenase complex iron sulfur subunit B	-0.05682621374
OTU deubiquitinase 3	0.09709667473
RNA binding motif protein 4	0.0774920518
protein phosphatase 6 catalytic subunit	-0.05518658607
transmembrane O-mannosyltransferase targeting cadherins 2	-0.13167426747
nuclear receptor subfamily 1 group D member 1	0.12181578933
leukocyte immunoglobulin like receptor A4	0.24830053777
THAP domain containing 8	0.10719270994
peptidylprolyl isomerase like 2	0.04879868647
hexosaminidase subunit beta	-0.07465755649
regulatory factor X2	-0.19129596208
DAB2 interacting protein	0.30517932757
golgi phosphoprotein 3 like	-0.09680435685
intraflagellar transport 172	0.10389345711
XPC complex subunit, DNA damage recognition and repair factor	0.07023379529
adducin 2	0.12606451341
sorting nexin 32	-0.24564247627
zinc finger protein 83	0.09099079197
endosulfine alpha	-0.05726858281
Bcl2 modifying factor	-0.08940312298
ATP binding cassette subfamily G member 1	0.16405469594
cyclin J like	-0.18816186995
mediator of DNA damage checkpoint 1	0.07773030982
spectrin alpha, non-erythrocytic 1	0.08294172992
tetratricopeptide repeat domain 27	0.0790219351
retinoic acid receptor alpha	-0.12244987236
family with sequence similarity 111 member B	0.24141982324
histone deacetylase 7	-0.07508890913
apoptosis associated tyrosine kinase	-0.1554434724
protein arginine methyltransferase 7	0.07663662322
protein tyrosine phosphatase non-receptor type 6	-0.09532616896
calpain 12	0.1212301296
coiled-coil domain containing 24	0.16910246164
GEM interacting protein	-0.09499821357
UHRF1 binding protein 1 like	-0.07926671665
carboxypeptidase vitellogenic like	-0.15071619944
arginyl-tRNA synthetase 2, mitochondrial	0.07391923334
ASXL transcriptional regulator 1	0.05453163558
glutaminy-peptide cyclotransferase like	0.10931381929

ubiquitin specific peptidase 45	0.11442818656
family with sequence similarity 207 member A	0.08880098017
glutamic--pyruvic transaminase 2	0.17163224783
NECAP endocytosis associated 2	-0.07386361939
golgin A7	-0.08182764476
selenoprotein F	-0.08205990056
tweety family member 3	-0.11361622494
cell adhesion molecule 4	-0.16325297511
sialic acid acetyltransferase	-0.09620232052
novel protein	-0.11780313884
death inducer-obliterator 1	0.06084628252
zinc finger protein 76	0.06759869873
pleckstrin homology and RhoGEF domain containing G3	0.13278252247
solute carrier family 25 member 17	0.07751967949
afadin, adherens junction formation factor	0.12579675667
RELT like 2	0.08756658002
putative homeodomain transcription factor 2	0.09351421355
chondroitin sulfate synthase 1	-0.14353493736
zinc finger CCCH-type containing 12D	0.09316824579
phospholipase A2 group IVC	-0.1607949475
biphenyl hydrolase like	0.10891861211
cathepsin L	-0.21957451809
acyl-CoA synthetase short chain family member 2	-0.07978197539
inositol polyphosphate multikinase	-0.11439657326
DNA topoisomerase I mitochondrial	0.08543691676
Abelson helper integration site 1	0.10470125062
apolipoprotein L1	-0.21717884398
inosine triphosphatase	0.06954611861
novel transcript	0.1269696339
PHD finger protein 7	0.08425331463
BMS1 ribosome biogenesis factor	0.0726552709
phosphodiesterase 6B	0.09961997599
pleckstrin homology domain containing B2	-0.06694531375
proteasome 20S subunit alpha 1	0.11292450943
CDK5 regulatory subunit associated protein 1	0.06733988908
transmembrane protein 45B	-0.14950718047
jagunal homolog 1	-0.09897766542
G protein-coupled receptor 183	0.12920187444
A-kinase anchoring protein 5	-0.26096115191
gasdermin E	0.26766912597
zinc finger protein 85	0.12883119913
chromosome 10 open reading frame 105	0.17807714892
PX domain containing serine/threonine kinase like	-0.11371180232
solute carrier family 49 member 3	-0.1320308515
NBPF member 26	-0.13650245237
centromere protein H	0.14544036663

coiled-coil domain containing 69	-0.07320038022
pellino E3 ubiquitin protein ligase family member 3	-0.13455103417
ring finger protein 167	-0.09372655777
profilin 1	-0.1380073638
opioid growth factor receptor like 1	0.12870497812
epithelial cell adhesion molecule	0.44869048126
heterogeneous nuclear ribonucleoprotein A1 like 2	0.16478187268
Rho guanine nucleotide exchange factor 17	-0.21008940402
potassium channel tetramerization domain containing 2	-0.08448484874
serine/threonine kinase 38	-0.05623507312
retinoid X receptor alpha	-0.11187852654
uveal autoantigen with coiled-coil domains and ankyrin repeats	0.17301463726
N-myc and STAT interactor	-0.12622222348
purinergic receptor P2Y13	-0.11893096642
hexokinase 1	-0.11396842629
potassium voltage-gated channel subfamily H member 3	-0.15736774474
solute carrier family 23 member 2	0.08525230715
COPI coat complex subunit beta 2	-0.06174731667
Kruppel like factor 16	-0.12611648978
regulator of G protein signaling 7	0.21898042428
thioesterase superfamily member 4	0.09518411769
nuclear factor of activated T cells 2 interacting protein	0.05327949809
neurobeachin like 2	-0.11004967133
TSC complex subunit 1	0.06797627392
ADAM metallopeptidase domain 23	0.14854382508
ubiquitin conjugating enzyme E2 G1	-0.05007311505
tyrosyl-DNA phosphodiesterase 2	-0.10863362045
zinc finger DHHC-type palmitoyltransferase 14	0.08816443563
protein tyrosine phosphatase receptor type S	0.16375318125
ETS variant transcription factor 6	-0.09684985905
adenosine monophosphate deaminase 3	-0.0871048081
HID1 domain containing	0.18089160173
PEAK1 related, kinase-activating pseudokinase 1	0.0845206803
N-acetyltransferase 10	0.06970933717
ribosomal protein S9	-0.08880067183
NBPF member 11	0.08188013924
glycerol-3-phosphate acyltransferase 4	-0.06534663386
sec1 family domain containing 2	0.07521150444
lipoic acid synthetase	0.0740694606
rotatin	0.080868035
DEP domain containing MTOR interacting protein	0.24545113349
EMAP like 4	0.07628800119
ADAM metallopeptidase with thrombospondin type 1 motif 2	0.61721676161
meteorin like, glial cell differentiation regulator	-0.13561649553
aryl hydrocarbon receptor nuclear translocator like 2	-0.22011715721
ankyrin repeat and zinc finger peptidyl tRNA hydrolase 1	0.07336563741

trypsin domain containing 1	0.06915229134
HEAT repeat containing 1	0.06865940862
zinc finger protein 251	0.07119893757
long intergenic non-protein coding RNA 672	-0.110161453
G protein regulated inducer of neurite outgrowth 1	-0.25085677198
cell division cycle 73	-0.06976815032
notch receptor 4	0.23232461953
PBX homeobox 4	0.11584776906
ribonuclease H2 subunit B	0.09089115456
zinc finger protein 266	0.07252011286
peroxidase like	0.10306767148
HAUS augmin like complex subunit 5	0.08796192117
pleckstrin homology domain containing A7	0.13880033675
RAB11 family interacting protein 3	0.08209410547
purinergic receptor P2X 1	-0.11415256091
TSC22 domain family member 4	-0.09595144838
tec protein tyrosine kinase	0.11093719072
DDB1 and CUL4 associated factor 4	0.09475355403
mitogen-activated protein kinase kinase kinase 10	0.08000834358
neuraminidase 1	-0.09134647646
t-SNARE domain containing 1	0.077042331
cation channel sperm associated 1	-0.17067451957
NudC domain containing 3	0.05352770078
novel protein	-0.14054432701
eukaryotic translation initiation factor 4 gamma 2	-0.08283159911
stress associated endoplasmic reticulum protein 1	-0.0798611917
RAB3A, member RAS oncogene family	-0.15030359776
dynein axonemal heavy chain 1	0.09579867858
frizzled class receptor 6	0.16204310912
selectin P ligand	-0.13123516019
interleukin 11 receptor subunit alpha	0.10667391561
ecotropic viral integration site 2B	-0.11049941499
SAM domain, SH3 domain and nuclear localization signals 1	-0.18643284143
GRB10 interacting GYF protein 1	0.06405627075
novel protein, TPD52-MRPS28 readthrough	0.22892553624
NPC intracellular cholesterol transporter 2	-0.14509325674
cilia and flagella associated protein 44	0.1048978827
interferon induced protein 35	-0.25013045463
ADP ribosylation factor 4	-0.06915060799
N-myristoyltransferase 1	-0.05604235855
G protein subunit alpha o1	0.12962962201
ATPase phospholipid transporting 8B2	0.08405014825
acyl-CoA synthetase short chain family member 3	-0.1344942186
ATP synthase F1 subunit beta	-0.08565978729
base methyltransferase of 25S rRNA 2 homolog	-0.07857893783
transmembrane protein 127	-0.10919947559

solute carrier family 35 member A5	-0.08656409047
potassium calcium-activated channel subfamily N member 4	0.09179304639
upstream transcription factor 1	-0.08559564023
nudix hydrolase 6	0.15310314506
glutamyl-tRNA synthetase 2, mitochondrial	0.0729916336
NLR family CARD domain containing 3	0.09083994115
centrosomal protein 95	0.09882218105
kinesin family member 1C	-0.09025495617
regulatory factor X7	0.06641105262
mitochondrial ribosomal protein L39	0.11492686172
kelch domain containing 8B	0.18393878877
keratin 23	-0.17120717684
endoplasmic reticulum protein 44	-0.07295538603
BTB domain and CNC homolog 2	0.1152378245
EvC ciliary complex subunit 1	0.18297373761
lymphocyte transmembrane adaptor 1	0.08679706256
ADP ribosylation factor 5	-0.10197642836
cathelicidin antimicrobial peptide	-0.28382742377
valyl-tRNA synthetase 2, mitochondrial	0.08424507067
TNF receptor superfamily member 10c	-0.16237081577
citrate synthase	-0.06996369317
V-set and transmembrane domain containing 1	-0.13580454397
zinc finger family member 783	0.06575390913
sushi domain containing 2	0.22253020506
crystallin beta-gamma domain containing 1	-0.06610609695
1-aminocyclopropane-1-carboxylate synthase homolog (inactive)	0.08738260548
family with sequence similarity 214 member A	0.10653685287
zinc finger DHHC-type palmitoyltransferase 2	-0.11400477524
NFKB inhibitor interacting Ras like 2	-0.10313368853
family with sequence similarity 78 member B	0.23121940608
thiosulfate sulfurtransferase like domain containing 3	0.09506640908
RCC1 domain containing 1	0.10356367521
zinc finger protein 665	0.11271597193
aldehyde dehydrogenase 16 family member A1	0.09008299469
zinc finger DHHC-type palmitoyltransferase 23	0.13680439303
interferon induced transmembrane protein 3	-0.32770136996
coiled-coil and C2 domain containing 1B	0.04922761542
WD repeat domain 92	0.12806127496
autophagy related 4B cysteine peptidase	0.05816892508
ELOVL fatty acid elongase 1	-0.07886722907
novel protein	-0.12945110583
dipeptidyl peptidase 4	0.09995168716
senataxin	0.07574874462
zinc finger protein 827	0.0855769845
DiGeorge syndrome critical region gene 2	-0.07853378441
SMAD family member 3	0.0929693137

transmembrane protein 167A	-0.09461122239
proteasome maturation protein	-0.10915286065
nebulin	0.14316828721
engulfment and cell motility 1	0.08851518491
replication factor C subunit 3	0.08987169392
hexokinase domain containing 1	0.12846490372
nurim	-0.12783986549
ERCC excision repair 3, TFIIH core complex helicase subunit	0.04623847807
HEAT repeat containing 5B	0.06831726782
mastermind like transcriptional coactivator 2	0.11146775789
TERF1 interacting nuclear factor 2	-0.09038091496
SH2 domain containing 3C	-0.08046011908
asialoglycoprotein receptor 1	-0.15867370788
ribosomal RNA processing 12 homolog	-0.11083775632
zinc finger protein 706	0.05532083393
argininosuccinate lyase	0.10252899991
exportin 1	0.08189450277
ubiquinol-cytochrome c reductase hinge protein like	0.16635878982
protein kinase cAMP-activated catalytic subunit alpha	-0.11222424049
RNA polymerase I subunit A	0.08070296506
prickle planar cell polarity protein 2	0.41801011758
cms1 ribosomal small subunit homolog	0.10076026965
transforming growth factor beta induced	-0.13106920604
dermatan sulfate epimerase like	0.19102040638
zinc finger RANBP2-type containing 3	0.09170882292
colony stimulating factor 3 receptor	-0.12095769786
lysine methyltransferase 2A	0.088265577
mitochondrial ribosomal protein L44	-0.11104125709
phospholipase C delta 3	-0.18166308764
DEAD/H-box helicase 11	0.08610831454
cell adhesion molecule L1 like	0.26257048185
phosphatidylinositol 4-kinase alpha	0.06213739651
centriolin	0.09982004504
solute carrier family 26 member 6	-0.11682891178
protein tyrosine kinase 7 (inactive)	0.16369655464
BCL2 like 11	-0.09043007967
sorting nexin family member 21	-0.12993226183
tripartite motif containing 25	-0.13770987372
GCN1 activator of EIF2AK4	0.07001226423
interleukin 18 receptor accessory protein	-0.18243812118
XK related 6	0.09562711807
suppressor of glucose, autophagy associated 1	0.10912909206
testin LIM domain protein	-0.06768487306
fucosyltransferase 10	0.10623825919
C-C motif chemokine receptor 3	0.13957442899
solute carrier family 4 member 1 adaptor protein	-0.06308967837

splicing factor SWAP	0.04896070375
POU class 6 homeobox 1	0.09497957371
dihydropyrimidinase like 2	-0.11306600933
calmodulin 1	-0.0571430977
family with sequence similarity 117 member A	-0.12590027144
zinc finger protein 718	0.08290965234
EMAP like 5	0.11408988888
potassium voltage-gated channel subfamily A member 2	0.13611295494
5-azacytidine induced 2	-0.11511561266
autocrine motility factor receptor	-0.07213766239
SH3 domain binding glutamate rich protein like 3	-0.17301360494
1,4-alpha-glucan branching enzyme 1	-0.07857135413
cilia and flagella associated protein 410	0.09006814758
scribble planar cell polarity protein	0.07862655186
FAM20C golgi associated secretory pathway kinase	-0.16145531366
zinc finger protein 571	0.10371243142
hexokinase 2	-0.11731699807
receptor interacting serine/threonine kinase 1	-0.06806507952
O-sialoglycoprotein endopeptidase	0.07090384497
LysM domain containing 2	-0.13296134922
acetyl-CoA carboxylase beta	0.07742833423
calpain small subunit 1	-0.12508606152
phosphatase and actin regulator 1	0.13857704218
ring finger protein 2	-0.06435519631
solute carrier family 25 member 45	0.07762235245
MAX dimerization protein 1	-0.12411754955
VENT homeobox	-0.13595069632
NBPF member 15	0.09911950906
uromodulin like 1	0.17860104398
O-6-methylguanine-DNA methyltransferase	0.0953371389
pejvakin	0.18882226486
nuclear envelope integral membrane protein 1	0.09266671697
mitogen-activated protein kinase kinase kinase 14	0.05933738575
GABA type A receptor associated protein like 2	-0.10707935199
AT-rich interaction domain 5A	-0.10634660047
GRAM domain containing 2B	0.10702751908
alpha-N-acetylgalactosaminidase	-0.11423900495
CDC42 effector protein 1	-0.21262571133
ciliary rootlet coiled-coil, rootletin	0.0716779188
leucine zipper tumor suppressor 2	0.08183661977
toll like receptor adaptor molecule 1	-0.09541330226
phospholipase C delta 1	0.08744498604
zinc finger and BTB domain containing 16	0.33534671017
zinc finger DHHC-type palmitoyltransferase 21	0.1249425613
acid sensing ion channel subunit 3	0.16385262061
regulator of microtubule dynamics 2	0.09964599372

defensin alpha 3	-0.43436226087
zinc finger protein 627	0.06590857823
RTF1 homolog, Paf1/RNA polymerase II complex component	-0.06198130664
consortin, connexin sorting protein	0.0585021974
phosphodiesterase 7B	0.14189192637
signal peptidase complex subunit 2	0.06051016409
guanylate binding protein 1	-0.30012477439
nuclear transcription factor, X-box binding like 1	-0.13299637399
terminal nucleotidyltransferase 4A	0.07678006503
autophagy related 9A	-0.09930364208
EF-hand calcium binding domain 12	-0.12425406955
apolipoprotein B mRNA editing enzyme catalytic subunit 3A	-0.1401105457
eukaryotic translation initiation factor 1B	-0.15712016103
tRNA phosphotransferase 1	0.08945072781
prostaglandin E receptor 4	0.10884025443
heparan sulfate proteoglycan 2	0.15703091781
rabaptin, RAB GTPase binding effector protein 1	0.04700587945
speedy/RINGO cell cycle regulator family member A	-0.13935385379
phosphodiesterase 9A	0.12686059079
BCL6 antisense 1	-0.30686755286
CCR4-NOT transcription complex subunit 8	-0.06026948797
tumor protein p53 inducible nuclear protein 2	0.20476203422
Cbl proto-oncogene B	0.07408595454
coiled-coil alpha-helical rod protein 1	0.07673256571
methyltransferase like 17	0.0755797223
sorting nexin 8	0.10115546497
ring finger protein 146	-0.09988936708
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2	-0.10995426921
kelch like family member 23	0.09076461801
VRK serine/threonine kinase 1	0.10133964916
G protein-coupled receptor class C group 5 member D	0.34747114609
family with sequence similarity 219 member B	0.05266989593
ubiquitin C	-0.12262256938
cation channel sperm associated 2	0.09739660921
castor zinc finger 1	-0.09370563753
cap binding complex dependent translation initiation factor	-0.09257540399
vesicle transport through interaction with t-SNAREs 1B	-0.12337408879
erythrocyte membrane protein band 4.1 like 4A	0.1541157424
ring finger protein 214	0.05967341941
SEC13 homolog, nuclear pore and COPII coat complex component	-0.05314238478
oxysterol binding protein like 8	-0.08957838943
novel transcript	0.08900484321
CYFIP related Rac1 interactor B	-0.07919265921
isopentenyl-diphosphate delta isomerase 1	-0.14510048616
latent transforming growth factor beta binding protein 4	0.08409759056
G protein-coupled receptor 25	0.26058989059

myosin light chain 9	-0.33538828715
solute carrier family 4 member 10	0.18623369367
solute carrier family 38 member 2	-0.12146309675
ChaC glutathione specific gamma-glutamylcyclotransferase 2	0.1628525118
MSL complex subunit 1	-0.10548759206
family with sequence similarity 110 member B	-0.21010192212
ATPase H ⁺ transporting V0 subunit e1	-0.09387003653
oxysterol binding protein	0.04144047345
dephospho-CoA kinase domain containing	0.06532301422
SR-related CTD associated factor 4	0.05274836755
SET and MYND domain containing 3	0.09519074569
GSG1 like	0.21301210393
zinc finger protein 33A	0.08936164954
Rac family small GTPase 1	-0.08136013061
DBF4 zinc finger B	0.11140272729
syntaxin binding protein 4	0.08336265761
transforming growth factor beta regulator 1	0.05135812697
IQ motif containing GTPase activating protein 1	-0.09457709862
G-patch domain containing 8	0.04866544386
polypeptide N-acetylgalactosaminyltransferase 2	-0.07371418058
protein kinase cAMP-dependent type I regulatory subunit alpha	-0.09895352206
origin recognition complex subunit 3	0.0736065478
ring finger protein 138	-0.09018950106
testis expressed metallothionein like protein	-0.09560576577
C-type lectin domain family 1 member A	-0.13106777724
cytidine and dCMP deaminase domain containing 1	-0.08910714755
zinc finger protein 737	0.10618116329
zinc finger protein 239	0.14238358317
G-patch domain containing 11	0.09436217214
SKI proto-oncogene	0.09614007246
solute carrier family 16 member 4	-0.15533020944
roundabout guidance receptor 1	0.31434833124
leukocyte immunoglobulin like receptor B1	-0.10929657441
SEC24 homolog A, COPII coat complex component	-0.07776516115
novel protein	0.20453596537
praja ring finger ubiquitin ligase 2	-0.10024636713
bone morphogenetic protein 8b	0.16754301338
endonuclease V	0.07323928711
secretory carrier membrane protein 5	0.18661783965
corin, serine peptidase	-0.24333273411
zinc finger CCCH-type containing 6	0.08344079331
nuclear receptor binding factor 2	-0.13159249339
chromatin assembly factor 1 subunit B	-0.11477543449
argonaute RISC catalytic component 3	0.06777960453
hydroxyacylglutathione hydrolase like	0.14905621375
TERF2 interacting protein	-0.0755358406

zinc finger protein 420	0.08530046704
COP9 signalosome subunit 7B	0.05292085461
N-acetyltransferase domain containing 1	-0.17065083544
dipeptidase 2	0.12249796914
testis specific serine kinase 6	0.13334417248
acyl-CoA synthetase family member 3	0.05108774086
fuzzy planar cell polarity protein	0.10729079035
ITPR interacting domain containing 2	-0.1072609629
novel protein	0.09448674884
hydroxysteroid 17-beta dehydrogenase 4	0.06425661749
5'-nucleotidase, cytosolic IIIA	-0.13472149418
protein tyrosine phosphatase receptor type G	0.34772364526
tripartite motif containing 46	0.10059262956
zinc finger protein 382	0.11892714191
nuclear factor I C	-0.0778116945
basic leucine zipper ATF-like transcription factor 3	0.17740515937
actin related protein 2/3 complex subunit 2	-0.07412371703
tripartite motif containing 69	-0.12718833394
proteasome 26S subunit, non-ATPase 4	-0.07530333923
TATA-box binding protein associated factor 4	0.0770751278
major histocompatibility complex, class I, E	-0.11421973147
pyroglutamyl-peptidase I	-0.06251302283
major histocompatibility complex, class I, B	-0.12008022696
golgi phosphoprotein 3	-0.06082151116
FKBP prolyl isomerase 7	0.20311009486
oxysterol binding protein like 7	0.08398632249
eyes shut homolog	0.21552631069
sphingomyelin phosphodiesterase acid like 3B	0.1662628992
sphingosine-1-phosphate receptor 4	-0.12512509614
dynamitin 2	-0.05930431028
peptidase, mitochondrial processing subunit alpha	0.05765092457
allograft inflammatory factor 1	-0.1542946813
CTD small phosphatase 1	-0.11325994781
tubulin gamma complex associated protein 5	0.08211040263
G protein-coupled receptor 107	-0.05738329827
MRE11 homolog, double strand break repair nuclease	0.07512766056
GLIS family zinc finger 3	0.19639154668
cell division cycle 123	-0.07197062126
dynein axonemal assembly factor 5	0.07206285496
p21 (RAC1) activated kinase 1	-0.09484654569
nardilysin convertase	-0.06981117627
RAB2B, member RAS oncogene family	-0.10782086254
TNF superfamily member 10	-0.16068031954
aspartate beta-hydroxylase	-0.16416613804
outer dense fiber of sperm tails 2	0.05487875494
heat shock protein family A (Hsp70) member 5	-0.07989597366

syntaxin 12	-0.05180245158
aph-1 homolog A, gamma-secretase subunit	-0.08774200522
rhophilin Rho GTPase binding protein 2	0.26658390433
fukutin	0.08641037717
RUS family member 1	0.06449990387
coenzyme Q4	0.06498764719
proteasome 20S subunit beta 7	-0.06352773588
caspase recruitment domain family member 19	-0.08076037303
neurobeachin	0.12771508547
WD repeat domain 26	-0.0808188867
F-box protein 9	-0.11931812663
WD repeat domain 41	-0.06599158017
AFG1 like ATPase	0.11442485498
DNA cross-link repair 1B	-0.1006417335
TBC1 domain family member 2	-0.08433114452
neural proliferation, differentiation and control 1	0.11403160321
gamma-aminobutyric acid type A receptor subunit rho2	-0.18842736805
MORN repeat containing 3	0.11367768125
non-SMC condensin II complex subunit G2	0.08948707341
L3MBTL histone methyl-lysine binding protein 1	0.08224324423
actinin alpha 1	-0.11738439332
cilia and flagella associated protein 251	0.15212465378
dishevelled associated activator of morphogenesis 1	0.06761313658
clock circadian regulator	0.06227350341
C-C motif chemokine receptor 2	-0.15070415
basic leucine zipper ATF-like transcription factor 2	-0.45400919086
protein tyrosine phosphatase receptor type M	0.11351040383
glutamate-ammonia ligase	-0.14759264506
acyl-CoA binding domain containing 3	0.04402055504
mitogen-activated protein kinase kinase 3	-0.15550534423
lipid droplet associated hydrolase	0.07016424228
SET and MYND domain containing 4	0.05917804064
helicase, lymphoid specific	0.12388565103
glycogen synthase kinase 3 beta	-0.06536260927
kelch repeat and BTB domain containing 4	-0.0758118313
3-hydroxybutyrate dehydrogenase 1	0.0829702555
TraB domain containing	-0.06468305148
thymidine kinase 2	-0.09549407321
capping protein regulator and myosin 1 linker 2	0.08904368594
TBC1 domain family member 9	0.10092560566
GRB2 related adaptor protein like	0.15478401052
RAN binding protein 9	-0.04729748781
clavesin 1	0.19797069459
acyl-CoA synthetase family member 2	0.07907616496
estrogen receptor 1	0.12149252442
dystrotelin	-0.29554871923

N-acetylneuraminate pyruvate lyase	-0.10359098457
trichoplein keratin filament binding	-0.05752356841
mitochondrial intermediate peptidase	0.08412228305
VPS26 endosomal protein sorting factor C	-0.04695664659
intraflagellar transport 122	0.06832424063
cell death inducing DFFA like effector b	-0.09139495938
DDB1 and CUL4 associated factor 11	-0.09303735477
dystrobrevin alpha	0.20165252297
CD244 molecule	-0.09335339425
Rho GTPase activating protein 17	0.07487651096
F-box protein 34	-0.06191132774
pyridine nucleotide-disulphide oxidoreductase domain 2	0.07529748351
transmembrane protein 38A	-0.11776383629
cytochrome P450 family 26 subfamily B member 1	-0.28764060179
insulin like 6	-0.34852204438
testis expressed 22	0.08263044467
TUB like protein 4	0.06786620133
calpain 10	0.06301234332
dual specificity phosphatase 28	0.08000252527
cysteine rich secretory protein 3	-0.31853566026
myocardin related transcription factor B	0.07677517959
ring finger protein 227	0.11974554858
akirin 2	-0.09020404757
CBFA2/RUNX1 partner transcriptional co-repressor 2	0.05161731681
cysteinyl-tRNA synthetase 1	-0.05567522542
phosphatidylinositol glycan anchor biosynthesis class N	0.04919075501
atlastin GTPase 1	0.09491429065
Sp4 transcription factor	0.07218199658
G protein-coupled receptor 132	-0.07713007726
interferon gamma inducible protein 16	-0.13723852185
down-regulator of transcription 1	-0.07277665476
AHNAK nucleoprotein	0.11598924104
insulin like growth factor 2 mRNA binding protein 3	-0.21098075676
SCY1 like pseudokinase 2	-0.0799088466
dual specificity phosphatase 19	-0.15217810188
ryanodine receptor 1	0.14921192471
adaptor related protein complex 5 subunit sigma 1	-0.08879092186
multiple EGF like domains 9	-0.11902546913
hepatitis A virus cellular receptor 1	0.15367981631
CTP synthase 1	0.07505692873
autophagy related 4C cysteine peptidase	0.07175325779
XK related 7	-0.17940663916
NIMA related kinase 1	0.07467875987
dedicator of cytokinesis 7	0.11060931826
ubiquitin specific peptidase 53	0.11130518071
ATPase plasma membrane Ca ²⁺ transporting 4	-0.08980441657

mediator complex subunit 11	-0.07416665671
nidogen 1	-0.15951382538
chromosome 19 open reading frame 71	0.11355543654
exportin 4	0.06763483415
small ArfGAP 1	-0.03826511323
mitogen-activated protein kinase kinase kinase 11	-0.09838691915
RAD54 like 2	0.08193242549
G protein-coupled receptor 137	-0.08174228287
kelch domain containing 4	0.07693244291
mitochondrial contact site and cristae organizing system subunit 10	0.1334046511
LLLL and CFNLAS motif containing 1	0.25433099701
maestro heat like repeat family member 6	-0.13629503442
KRI1 homolog	0.06869566468
zinc finger and SCAN domain containing 9	0.08662946121
zinc finger protein 398	0.06343572202
Rho GTPase activating protein 42	0.213935035
calponin 2	-0.12604859516
fructose-bisphosphatase 1	-0.12247910461
RNA guanylyltransferase and 5'-phosphatase	0.05192708682
H2B clustered histone 15	0.14166350257
eukaryotic translation initiation factor 1	-0.13652754171
spectrin beta, non-erythrocytic 1	0.08619679537
Kruppel like factor 9	0.15628949652
G protein subunit beta 1	-0.0662849938
male germ cell associated kinase	-0.166352989
La ribonucleoprotein 1, translational regulator	-0.07409395512
cryptochrome circadian regulator 2	0.05343553584
noggin	-0.15010244749
nucleus accumbens associated 1	-0.08930621855
SH3 binding domain protein 5 like	-0.09609653224
DNA methyltransferase 1 associated protein 1	0.04982247912
leukocyte immunoglobulin like receptor A2	-0.10888379356
IQ motif containing B1	0.07739375679
EARP complex and GARP complex interacting protein 1	0.05440152034
RAP1A, member of RAS oncogene family	-0.05640681594
solute carrier family 18 member A1	-0.24386262478
lysosomal protein transmembrane 5	-0.09481798199
mitogen-activated protein kinase kinase kinase kinase 2	0.06664603367
SEC24 homolog D, COPII coat complex component	-0.08577286312
protein phosphatase 2 regulatory subunit B'alpha	-0.08495302328
phosphatidylinositol glycan anchor biosynthesis class L	0.08638345756
membrane palmitoylated protein 6	0.09083859804
TATA-box binding protein associated factor, RNA polymerase I subunit	0.06563883284
cyclin and CBS domain divalent metal cation transport mediator 3	0.06582495081
transmembrane serine protease 5	0.17245778394
karyopherin subunit alpha 1	-0.06193473528

scaffold protein involved in DNA repair	0.07973750291
stabilin 1	-0.14163307866
branched chain keto acid dehydrogenase E1 subunit beta	0.07755254348
FLVCR heme transporter 1	-0.09046491645
myotubularin related protein 3	-0.09213950005
calcium binding and coiled-coil domain 2	-0.07282509357
C-C motif chemokine receptor like 2	-0.16336081486
centrosomal protein 164	0.05952696773
terminal uridylyl transferase 4	0.06864231212
phospholipase C gamma 1	0.0806913157
c-Maf inducing protein	-0.0870881088
Dmx like 1	0.08064276808
neuralized E3 ubiquitin protein ligase 1	-0.17413548183
interleukin 31 receptor A	-0.28277320285
ATPase H ⁺ transporting V1 subunit F	-0.11439670822
G protein-coupled receptor 155	-0.09074200195
EPH receptor B1	0.15983154087
transmembrane 9 superfamily member 2	-0.07014845484
C-C motif chemokine ligand 3 like 3	0.28441938706
thyroid peroxidase	0.26891655935
casein kinase 2 alpha 2	-0.04943519981
mitochondrial transcription termination factor 4	0.05843714066
AT-rich interaction domain 3A	-0.09484910777
ubiquitin specific peptidase like 1	0.07692770942
C1QTNF3-AMACR readthrough (NMD candidate)	0.08678148136
exocyst complex component 5	-0.06740510274
zinc finger protein 7	0.05634253985
neuronal cell adhesion molecule	0.17357551791
inner mitochondrial membrane peptidase subunit 2	0.10958561995
PDX1 C-terminal inhibiting factor 1	-0.08099856816
F-box protein 30	-0.09138389501
phospholipase C eta 2	0.10547754576
membrane metalloendopeptidase	-0.17842002981
coiled-coil domain containing 130	0.05130016596
bridging integrator 2	-0.05748669233
chromosome 15 open reading frame 40	0.05520615104
PBX homeobox interacting protein 1	0.08873199049
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8	-0.17661413587
ubiquitin like modifier activating enzyme 3	-0.08002996055
zinc finger protein 66	0.12186958422
high mobility group nucleosome binding domain 1	0.08224186126
zinc finger protein 766	0.05200998804
dedicator of cytokinesis 9	0.07394048765
TBL1X receptor 1	-0.05483758927
cyclin dependent kinase 10	0.06951639276
proline, glutamate and leucine rich protein 1	0.06618096226

IST1 factor associated with ESCRT-III	-0.04801870436
coiled-coil domain containing 154	0.15340124268
kynurenine 3-monooxygenase	0.10474782311
AP2 associated kinase 1	0.05969123128
chromosome 12 open reading frame 60	0.21726439146
nucleoporin 155	0.05590828776
diphosphoinositol pentakisphosphate kinase 1	0.07845014975
COMM domain containing 5	-0.05972864211
lensin, lens protein with glutamine synthetase domain	-0.28462509515
transmembrane BAX inhibitor motif containing 1	-0.07774159361
G protein subunit alpha 13	-0.09254673618
SLIT-ROBO Rho GTPase activating protein 3	0.12452078245
Rap guanine nucleotide exchange factor 1	0.06241474767
alpha tubulin acetyltransferase 1	0.07408538178
low density lipoprotein receptor class A domain containing 4	0.07688810735
Bardet-Biedl syndrome 4	0.07312069963
ubiquitin conjugating enzyme E2 Z	-0.04717849631
RAB, member of RAS oncogene family like 2A	0.0650877565
H1.4 linker histone, cluster member	0.22643008446
frizzled class receptor 1	-0.13770943149
COP1 E3 ubiquitin ligase	-0.08857669015
coiled-coil domain containing 102A	0.10523243778
chromosome 5 open reading frame 63	0.09441262514
dimethylglycine dehydrogenase	0.19231430552
chromosome 14 open reading frame 119	-0.0678333761
protein phosphatase 1 regulatory inhibitor subunit 14A	0.20303670039
signal sequence receptor subunit 2	-0.08143098633
potassium channel tetramerization domain containing 12	-0.11128270252
zinc finger protein 552	-0.08358511749
tumor suppressor 2, mitochondrial calcium regulator	-0.08245025645
casein kinase 1 delta	-0.06959864321
O-acyl-ADP-ribose deacylase 1	0.05350643432
ubiquitin protein ligase E3D	0.08154783625
sideroflexin 2	0.08262021836
transmembrane protein 182	0.10609880378
serpin family I member 1	0.10263334132
NADH:ubiquinone oxidoreductase subunit B6	-0.07411851024
zinc finger protein 385A	-0.12640716734
LSM6 homolog, U6 small nuclear RNA and mRNA degradation associa	-0.07683344795
DEAD-box helicase 55	0.06582470876
HECT domain E3 ubiquitin protein ligase 4	0.07161049979
SLAM family member 7	-0.13972188792
vesicle amine transport 1	-0.10398742783
chromosome 11 open reading frame 1	0.13994534188
carboxymethylenebutenolidase homolog	-0.30622008595
FA core complex associated protein 24	0.14943090991

cystatin B	-0.11024808247
mitogen-activated protein kinase 9	0.05038570234
inhibitor of nuclear factor kappa B kinase subunit beta	0.05722036959
thioredoxin	-0.15289065627
potassium voltage-gated channel subfamily E regulatory subunit 3	-0.098636824
heterogeneous nuclear ribonucleoprotein K	-0.06285728409
thioredoxin domain containing 16	0.07378788344
VPS52 subunit of GARP complex	0.04730060614
solute carrier family 35 member E3	0.11126790318
leucine rich repeats and calponin homology domain containing 1	0.06475442463
cleavage and polyadenylation specific factor 4	0.05205240358
PPFIA binding protein 1	0.10908708194
chromodomain helicase DNA binding protein 6	0.07238532225
spermatogenesis associated 6 like	0.14781604271
transmembrane channel like 8	0.06637318862
heterogeneous nuclear ribonucleoprotein A3	0.04005119068
zinc finger protein 641	-0.06040903984
CKLF like MARVEL transmembrane domain containing 5	-0.27690333116
sushi domain containing 6	-0.0823843029
signal-induced proliferation-associated 1	-0.09080219611
Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal	-0.18719193949
primase and DNA directed polymerase	0.08662834705
nischarin	0.05236792971
BTB domain and CNC homolog 1	-0.08712943179
major histocompatibility complex, class II, DQ beta 2	0.1343411347
non-SMC condensin II complex subunit D3	0.06537528858
poly(ADP-ribose) polymerase family member 9	-0.17117529208
zinc finger protein interacting with K protein 1	0.10152023974
serpin family G member 1	-0.400725295
dynactin subunit 4	-0.06063032571
apolipoprotein B receptor	-0.12095164392
MOB kinase activator 3A	-0.1163526081
post-GPI attachment to proteins phospholipase 3	0.07172142819
arginase 2	-0.27605724411
transmembrane protein 120A	-0.11838944505
major histocompatibility complex, class I, C	-0.1306762448
karyopherin subunit alpha 4	-0.05460671814
solute carrier family 4 member 7	0.10015344512
PPARG related coactivator 1	0.06826822583
coenzyme Q6, monooxygenase	0.07273976196
lipocalin 2	-0.33245075397
methylcrotonoyl-CoA carboxylase 2	0.05821589082
ubiquitin specific peptidase 39	-0.0511196436
glia maturation factor gamma	-0.09077039217
hypoxia inducible factor 1 subunit alpha	-0.09175473583
tetratricopeptide repeat domain 3	0.06460675752

proteasome 26S subunit, non-ATPase 7	-0.05852934143
protein phosphatase 4 regulatory subunit 1	-0.10433878475
zinc finger protein 235	0.07994342147
zinc finger protein 790	0.08054639511
transmembrane protein 94	0.0543918028
SWT1 RNA endoribonuclease homolog	-0.06411504492
sphingomyelin synthase 2	-0.13841161103
glutaryl-CoA dehydrogenase	0.06234059354
UDP-glucose pyrophosphorylase 2	-0.06542534303
oxysterol binding protein like 9	-0.07706329332
heme oxygenase 1	-0.13747016383
Rap guanine nucleotide exchange factor like 1	-0.09781527199
Ras association domain family member 2	-0.09273430151
lysyl oxidase like 2	0.088499773
zinc finger protein 215	0.254437693
zinc finger protein 79	0.06039342085
tetratricopeptide repeat domain 24	0.12794002202
proteasome 26S subunit, non-ATPase 6	-0.05767137641
microtubule affinity regulating kinase 3	-0.06863311743
AKT serine/threonine kinase 3	0.07347417209
nitrilase 1	-0.05325336473
interleukin 27 receptor subunit alpha	-0.06982612011
DnaJ heat shock protein family (Hsp40) member B12	-0.07279156016
lysophosphatidylglycerol acyltransferase 1	-0.07849044986
UDP-glucose ceramide glucosyltransferase	-0.12188296475
centromere protein P	0.11338313086
zinc finger GRF-type containing 1	0.10127104573
MYCBP associated protein	0.16239027184
katanin catalytic subunit A1 like 2	0.17041940328
coiled-coil domain containing 122	0.10777802522
alpha kinase 2	0.26367229958
family with sequence similarity 217 member B	-0.08418598408
chromodomain helicase DNA binding protein 4	0.18315803891
ubiquitin specific peptidase 32	-0.08076091959
villin 1	-0.25053081046
ring finger protein 130	-0.06328078139
GTP binding protein 4	0.05820921753
small integral membrane protein 27	-0.10623775415
transmembrane protein 30A	-0.09075915519
septin 4	-0.38088078261
microfibril associated protein 3	-0.07209841874
F-box and leucine rich repeat protein 8	0.10220603139
GTP binding protein 3, mitochondrial	0.08153116349
glycogen synthase kinase 3 alpha	-0.11440937594
novel protein	-0.21037542075
NLR family member X1	-0.1053678304

protein phosphatase 1 regulatory subunit 10	-0.06478795109
zinc finger protein 439	0.08945498892
dynein cytoplasmic 1 intermediate chain 1	0.32941575681
leucine zipper tumor suppressor 1	0.22332874721
plakophilin 4	0.07752780591
TNF receptor superfamily member 10a	0.07385088167
nuclear pore complex interacting protein family, member B13	0.14992927879
family with sequence similarity 89 member B	-0.1448966772
DLEC1 cilia and flagella associated protein	0.08905083877
solute carrier family 38 member 10	0.0634196634
DNA polymerase epsilon, catalytic subunit	0.06408359255
transmembrane and coiled-coil domains 4	0.05740599059
solute carrier organic anion transporter family member 5A1	0.23669749125
centromere protein F	0.16739194663
C-type lectin domain family 12 member A	-0.1144751419
prenylcysteine oxidase 1 like	0.07148839764
trafficking protein particle complex 6A	0.07830864561
intercellular adhesion molecule 3	-0.12355343799
SP100 nuclear antigen	-0.09183332453
jagged canonical Notch ligand 1	-0.11088142976
SRY-box transcription factor 13	0.11489545407
prostaglandin D2 synthase	0.13610302389
novel readthrough transcript	0.10014702658
family with sequence similarity 227 member B	0.10498704675
oxoeicosanoid receptor 1	-0.15982520088
transient receptor potential cation channel subfamily V member 4	-0.2036302646
coagulation factor XIII A chain	-0.17216327656
general transcription factor IIIC subunit 2	0.04375072734
metastasis associated 1 family member 3	0.07764523551
V-set immunoregulatory receptor	-0.10400174301
glycerol-3-phosphate dehydrogenase 1 like	0.06319853409
neutral cholesterol ester hydrolase 1	-0.07406781701
ankyrin 3	0.09727356275
integrin subunit alpha 4	0.09608343877
GRB2 associated binding protein 1	0.09882019095
protein phosphatase 2C like domain containing 1	-0.2779240987
autophagy related 2A	0.13115246471
tetratricopeptide repeat domain 39C	0.08210540933
ganglioside induced differentiation associated protein 1	0.08891839873
solute carrier family 31 member 1	-0.07839138974
RasGEF domain family member 1A	0.12471896414
ArfGAP with dual PH domains 2	-0.11553620894
dynein heavy chain domain 1	0.09008453319
heat shock factor binding protein 1	-0.08561771505
SH2 domain containing 3A	0.08601623521
sulfatase modifying factor 1	-0.06935315124

zinc finger with KRAB and SCAN domains 8	0.07203200045
dpy-19 like C-mannosyltransferase 3	-0.10699401818
leucyl-tRNA synthetase 1	0.06426586213
PRKR interacting protein 1	0.05433779349
reeler domain containing 1	0.15905072049
methylcrotonoyl-CoA carboxylase 1	0.05716120871
proline rich nuclear receptor coactivator 1	-0.10400832878
sterile alpha motif domain containing 14	-0.28741728629
notch receptor 2	-0.09673450351
cramped chromatin regulator homolog 1	0.12594443349
zinc finger MYND-type containing 10	0.16275942961
golgin A3	0.04987975654
solute carrier family 16 member 5	-0.07709733865
amine oxidase copper containing 2	0.14109245172
NBPF member 9	0.09067708268
protein kinase AMP-activated non-catalytic subunit gamma 1	-0.05070021304
thyroid hormone receptor interactor 11	0.05321561578
lysine demethylase 4C	0.05528407248
integrator complex subunit 4	0.03661426527
interferon induced with helicase C domain 1	-0.19780190657
staufen double-stranded RNA binding protein 1	-0.06142499522
HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2	0.14977768123
novel transcript	0.18377273483
phosphatase and actin regulator 2	0.08640578214
cytokine induced apoptosis inhibitor 1	0.06087263824
CTD phosphatase subunit 1	-0.07744463958
VPS41 subunit of HOPS complex	0.05688304102
solute carrier family 39 member 10	0.09438203579
syndecan 4	-0.16532021673
secreted phosphoprotein 1	0.29114822277
proteasome activator subunit 2	-0.14039527076
cytoplasmic polyadenylation element binding protein 3	-0.0962774559
PITPNM family member 3	0.20281948968
CKLF like MARVEL transmembrane domain containing 4	-0.10349715673
TNF receptor superfamily member 9	-0.1470988047
drosha ribonuclease III	0.05941657882
Rho GTPase activating protein 44	0.3695887697
potassium calcium-activated channel subfamily N member 3	0.22620799991
NOP2/Sun RNA methyltransferase 2	0.05647629538
cullin 9	0.06876195859
Rho related BTB domain containing 2	0.09319500122
FKBP prolyl isomerase 14	0.11248528013
zinc finger MYND-type containing 19	0.08311215766
phosphorylase kinase regulatory subunit beta	0.04796993877
trans-L-3-hydroxyproline dehydratase	0.08890720992
SHOC2 leucine rich repeat scaffold protein	-0.07294879019

WD repeat domain 60	0.06928927481
protein kinase, DNA-activated, catalytic subunit	0.11142367202
nuclear receptor subfamily 4 group A member 1	-0.20323440683
EDAR associated death domain	0.13254141216
zinc fingers and homeoboxes 3	0.06586862556
centrosomal protein 295	0.06867727918
WBP2 N-terminal like	0.0900380479
phospholipase C like 2	-0.06563550966
kazrin, periplakin interacting protein	-0.1380557423
ubiquitin specific peptidase 54	0.11099304762
bromodomain containing 1	0.07183323635
ATP binding cassette subfamily C member 10	0.07023771921
G protein-coupled receptor kinase 3	-0.0792182706
proteasome 26S subunit, non-ATPase 2	-0.06553754884
baculoviral IAP repeat containing 6	0.06127463217
placenta associated 8	-0.11056969415
acetyl-CoA carboxylase alpha	0.06808236025
signal transducer and activator of transcription 1	-0.1820914416
RCSD domain containing 1	0.05507139037
minichromosome maintenance complex component 5	0.06858438446
checkpoint kinase 2	0.08395270218
adhesion G protein-coupled receptor B3	0.24217981531
centrosomal protein 192	0.0698343896
amnion associated transmembrane protein	0.13771005392
ALMS1 centrosome and basal body associated protein	0.07051611836
Fas associated via death domain	-0.11609535797
lysine demethylase 2A	-0.0639055305
aldehyde dehydrogenase 1 family member A1	-0.14468980692
coiled-coil domain containing 163	0.12175482713
guanylate binding protein 3	-0.15860697314
SERTA domain containing 2	0.06700572021
cAMP responsive element binding protein like 2	-0.06218323186
prickle planar cell polarity protein 1	0.12610777196
extra spindle pole bodies like 1, separase	0.22060779742
ribosomal modification protein rimK like family member B	0.10132289194
phosphatase domain containing paladin 1	0.19323185994
transmembrane protein 150B	-0.15030626697
BLCAP apoptosis inducing factor	0.03442651381
sialic acid binding Ig like lectin 7	-0.08630781981
codanin 1	0.06214930994
kelch like family member 29	0.11416902862
signal transducer and activator of transcription 3	-0.08520527343
chromosome 11 open reading frame 24	0.08015838456
transmembrane protein 11	-0.07403261709
ubiquitin specific peptidase 48	0.06202566448
zinc finger MIZ-type containing 2	0.06411893131

cyclin B1 interacting protein 1	0.07927823561
ubiquitin conjugating enzyme E2 L6	-0.20596879403
natural killer cell triggering receptor	0.08260693035
protein kinase C and casein kinase substrate in neurons 2	-0.08783010236
immunoglobulin superfamily member 9B	0.1297984254
nuclear factor of activated T cells 3	0.05350181568
coiled-coil domain containing 6	0.05441219469
calpain 7	0.06435992463
PC-esterase domain containing 1A	0.06409657948
activating transcription factor 7 interacting protein	0.05692926464
proliferation-associated 2G4	-0.12430833199
IGF like family receptor 1	-0.12736017083
lactotransferrin	-0.33952250546
golgi membrane protein 1	-0.10223122611
NOP10 ribonucleoprotein	-0.13813427508
acyl-CoA synthetase long chain family member 3	-0.0770748365
ADAM metallopeptidase domain 10	-0.06180588574
titin	0.14917364517
SPG7 matrix AAA peptidase subunit, paraplegin	0.05193008333
rhomboid domain containing 2	-0.07957057187
ATM serine/threonine kinase	0.09241304326
modulator of smoothened	0.05167889122
zinc finger and SCAN domain containing 32	0.04865359282
ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	-0.05581062017
von Willebrand factor A domain containing 5A	-0.08198267021
integrin subunit beta 8	0.30383962843
Dmx like 2	-0.12768928815
chromosome 18 open reading frame 21	-0.0872494703
adaptor related protein complex 1 subunit sigma 3	0.12748365922
glutamate ionotropic receptor kainate type subunit 5	0.18188208577
myosin XVA	0.16247155609
suppressor of variegation 3-9 homolog 2	0.14615012225
fibroblast growth factor receptor 1	0.08600630627
ubiquitin associated protein 2 like	0.04933172274
stathmin 3	0.08384264942
membrane spanning 4-domains A4A	-0.1870852243
C2 calcium dependent domain containing 5	0.08687353695
thioredoxin like 1	-0.06061707205
myosin IXA	0.05546302631
chromodomain helicase DNA binding protein 9	0.06288859192
NADH:ubiquinone oxidoreductase complex assembly factor 1	-0.06326312592
LIM zinc finger domain containing 1	-0.06565743426
major histocompatibility complex, class II, DQ alpha 2	0.13173510107
zinc fingers and homeoboxes 2	0.05791671231
TOX high mobility group box family member 4	-0.05390457017
caspase 9	-0.06186609063

troponin I2, fast skeletal type	-0.14075744085
solute carrier family 25 member 26	0.06742522357
chromosome 21 open reading frame 58	0.08965648527
cyclin Y	-0.05948817085
RPA interacting protein	0.06497977809
ubiquitin like 3	-0.06490401448
charged multivesicular body protein 2A	-0.12431826678
threonine synthase like 2	0.17314238784
NME/NM23 nucleoside diphosphate kinase 6	-0.05542644672
ubiquitin specific peptidase 28	0.07429149805
ras homolog family member A	-0.09028885436
galectin 3	-0.2063199543
egl-9 family hypoxia inducible factor 1	-0.11222794244
proteasome assembly chaperone 4	0.06798868452
ankyrin repeat and ubiquitin domain containing 1	0.14284058304
glucosidase alpha, neutral C	0.06757152682
ER membrane associated RNA degradation	0.07764574174
coiled-coil domain containing 149	-0.09125935944
FER tyrosine kinase	0.07256655048
mutS homolog 2	0.06636994368
photoreceptor disc component	0.21084493266
MYB binding protein 1a	0.06660392898
short chain dehydrogenase/reductase family 39U member 1	0.06025433808
aprataxin	0.05088180522
dynein axonemal light chain 1	0.09010250477
chromosome 2 open reading frame 42	0.04524569523
microtubule affinity regulating kinase 2	-0.06830741492
transcription termination factor 2	0.0739511899
thrombospondin type 1 domain containing 7A	0.30654243617
chromosome 6 open reading frame 136	0.06114293667
hydroxysteroid 17-beta dehydrogenase 6	0.18654310177
zinc finger MYND-type containing 8	0.05680679037
lymphocyte specific protein 1	-0.11454209458
methionine adenosyltransferase 2B	-0.07540942705
leishmanolysin like peptidase	0.10659939675
protein tyrosine kinase 2 beta	-0.07071119997
G protein-coupled receptor 137B	-0.07264318325
trafficking protein particle complex 1	-0.11810334432
zinc finger ZZ-type containing 3	0.05787630941
PHD finger protein 13	-0.08457281373
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta	-0.07364228481
complement C1s	0.08036361996
zinc finger protein 250	-0.08453040885
ERGIC and golgi 2	-0.09600127734
A-kinase anchoring protein 8	0.04060047035
very low density lipoprotein receptor	-0.15443707009

patatin like phospholipase domain containing 6	-0.07540463938
docking protein 1	-0.09742036277
A-kinase anchoring protein 1	0.06569535907
mitochondrial fission factor	-0.05052960352
apoptosis inducing factor mitochondria associated 2	0.07919536947
S-phase kinase associated protein 1	-0.08409527779
milk fat globule EGF and factor V/VIII domain containing	0.09237868642
diacylglycerol kinase eta	0.14991065749
RAB34, member RAS oncogene family	-0.12403440342
DENN domain containing 6A	0.05624238979
phospholipase A2 group IVA	-0.09318354472
biliverdin reductase A	-0.11868006652
storkhead box 1	0.23181383949
interleukin 4 induced 1	-0.18139088255
eukaryotic translation initiation factor 4E binding protein 1	-0.1164942631
CDK5 regulatory subunit associated protein 1 like 1	0.06892412489
small ubiquitin like modifier 3	-0.08251925604
Rho GTPase activating protein 27	-0.06524938452
mannosidase alpha class 1B member 1	0.05170960375
signal transducing adaptor molecule	-0.04851855674
structural maintenance of chromosomes 6	0.09499652118
mitogen-activated protein kinase kinase kinase 3	-0.07140607245
ubiquitin conjugating enzyme E2 L3	-0.05474630588
integrin subunit alpha 2b	-0.25133432978
CDGSH iron sulfur domain 1	-0.0875425011
thymocyte selection associated high mobility group box	0.08737168013
placental growth factor	-0.47554818448
zinc finger protein 394	-0.04059504739
NLR family pyrin domain containing 3	-0.09846649126
deoxynucleotidyltransferase terminal interacting protein 1	-0.06753087023
zinc finger protein 138	0.09705110389
EMAP like 2	-0.0546918034
neuronal vesicle trafficking associated 1	0.0897509529
THO complex 1	0.08106796421
B cell linker	0.44230684166
Fc receptor like A	0.60793110557
BLK proto-oncogene, Src family tyrosine kinase	0.49333754554
B cell scaffold protein with ankyrin repeats 1	0.45542626472
sialic acid binding Ig like lectin 6	0.59148538302
TNF receptor superfamily member 13C	0.48553925148
kringle containing transmembrane protein 1	-0.84434585982
Fc receptor like 5	0.54868918851
CD72 molecule	0.33027317588
collagen type IV alpha 3 chain	0.59523830079
paired box 5	0.46283838994
oxysterol binding protein like 10	0.49430728145

growth differentiation factor 7	0.72431649877
RELB proto-oncogene, NF-kB subunit	-0.39872775268
cordon-bleu WH2 repeat protein like 1	0.40849582573
prepronociceptin	0.44158534145
BAF chromatin remodeling complex subunit BCL11A	0.28290654927
interferon lambda receptor 1	0.32743052286
solute carrier family 38 member 11	0.50368445714
multiple C2 and transmembrane domain containing 1	-0.3239206302
TNF receptor superfamily member 13B	0.57939105324
Spi-B transcription factor	0.48914331558
reticulon 2	-0.45838289136
CD22 molecule	0.43998531026
intercellular adhesion molecule 1	-0.40625383832
tetraspanin 3	0.24600536125
calcium voltage-gated channel subunit alpha1 E	-0.68039572737
STEAP family member 1B	0.37776294413
LIM domain kinase 2	-0.44086586618
synaptopodin	0.49812975845
G protein-coupled receptor 84	-1.04032516116
POU class 2 homeobox associating factor 1	0.43422668033
coronin 2B	0.59011906667
Pim-3 proto-oncogene, serine/threonine kinase	-0.36935913298
scavenger receptor class F member 1	-0.58971631662
niban apoptosis regulator 3	0.39155012169
CD19 molecule	0.40707147934
complement C3	-0.55545922521
adrenomedullin	-0.65815763254
Fc receptor like 2	0.47199516326
glutaminyI-tRNA amidotransferase subunit QRSL1	0.22392998367
T cell leukemia/lymphoma 1A	0.47689666769
membrane spanning 4-domains A1	0.49660812286
ATP binding cassette subfamily B member 4	0.40905482129
collagen type IV alpha 4 chain	0.55466273238
U6 snRNA biogenesis phosphodiesterase 1	-0.35117349137
cadherin EGF LAG seven-pass G-type receptor 1	0.38738170075
Janus kinase 3	-0.29596670729
potassium inwardly rectifying channel subfamily J member 15	-0.48048360135
Ral GEF with PH domain and SH3 binding motif 2	0.27951194357
solute carrier family 26 member 8	-0.64768393936
annexin A3	-0.71937593602
basic helix-loop-helix family member e41	0.64088450911
zinc finger protein 438	-0.38005627661
tetraspanin 13	0.38845718229
CD79a molecule	0.47362312342
ring finger protein 207	-0.48287646042
DENN domain containing 5B	0.39326102416

AF4/FMR2 family member 3	0.35053022127
major histocompatibility complex, class II, DO alpha	0.34691563477
SEL1L family member 3	0.22608990369
ADAM metallopeptidase domain 28	0.36394576006
LARGE xylosyl- and glucuronyltransferase 1	0.3748020856
toll like receptor 5	-0.50563657575
ArfGAP with SH3 domain, ankyrin repeat and PH domain 1	-0.27191119705
CD1c molecule	0.4586016876
alkaline phosphatase, biomineralization associated	-0.73058027858
glycine amidinotransferase	0.37877693029
transcription factor 4	0.28440362138
tectonin beta-propeller repeat containing 2	-0.36264941581
polypeptide N-acetylgalactosaminyltransferase 14	-0.71702151493
sodium voltage-gated channel alpha subunit 3	0.43564916121
mitogen-activated protein kinase 14	-0.34936778649
interleukin 1 beta	-0.49829794628
Fc fragment of IgA receptor	-0.45062342289
pleckstrin homology and RhoGEF domain containing G7	0.60741379151
ST3 beta-galactoside alpha-2,3-sialyltransferase 4	-0.43747853143
hydroxycarboxylic acid receptor 3	-0.47661883158
solute carrier family 2 member 3	-0.4066776833
nuclear factor kappa B subunit 2	-0.26544990017
phospholipid phosphatase 5	0.25690363677
B and T lymphocyte associated	0.29406647729
major histocompatibility complex, class II, DO beta	0.34564804361
cannabinoid receptor 2	0.28064179028
folate receptor gamma	-0.4737815589
signal transducing adaptor family member 1	0.31765029097
membrane bound O-acyltransferase domain containing 2	-0.3304698352
prokineticin 2	-0.55288295573
cAMP responsive element binding protein 5	-0.34203923411
SRSF protein kinase 1	-0.33181627439
Fc fragment of IgE receptor Ig	-0.40219658008
nuclear factor kappa B subunit 1	-0.15759838458
5-oxoprolinase, ATP-hydrolysing	-0.61643378474
TNF alpha induced protein 6	-0.66629227508
mast cell expressed membrane protein 1	-0.75846530869
dysferlin	-0.42936985579
sialic acid binding Ig like lectin 9	-0.27204768551
RAS guanyl releasing protein 3	0.30229423202
CD177 molecule	-1.49122283438
complement C3d receptor 2	0.34944098241
lysyl oxidase like 1	-0.45989914781
ST3 beta-galactoside alpha-2,3-sialyltransferase 2	-0.27271922806
Fc fragment of IgG receptor Ib	-0.6811234124
F-box and leucine rich repeat protein 5	-0.24146519197

Fc fragment of IgG receptor Ia	-0.85421683865
HCK proto-oncogene, Src family tyrosine kinase	-0.24985763734
BCL6 transcription repressor	-0.43120015232
CEA cell adhesion molecule 3	-0.31562788526
CD200 molecule	0.38621445607
fatty acid 2-hydroxylase	0.53200246198
EBF transcription factor 1	0.38878723564
SWI/SNF related, matrix associated, actin dependent regulator of chro	-0.31859008343
laminin subunit alpha 5	0.32399457767
neuropilin and tolloid like 1	0.58426719025
DNA damage induced apoptosis suppressor	-0.40859587667
N-ribosyldihydronicotinamide:quinone reductase 2	-0.29998600729
adaptor related protein complex 3 subunit beta 2	-0.80153119116
interferon regulatory factor 8	0.21424574193
glycogen phosphorylase L	-0.35469291755
pro-apoptotic WT1 regulator	0.29580364343
leukocyte immunoglobulin like receptor A6	-0.32136630725
adhesion G protein-coupled receptor G3	-0.41843558622
glycoprotein M6A	0.51426286471
calpain 13	-0.87632561396
rhophilin associated tail protein 1 like	-0.32865122279
protein tyrosine phosphatase receptor type K	0.35904262842
cysteine rich transmembrane module containing 1	-0.40016238754
tetratricopeptide repeat domain 9	0.23392809206
heparanase	-0.32677011172
spermatid perinuclear RNA binding protein	0.22698577238
transmembrane protein 176B	-0.40600782012
multiple C2 and transmembrane domain containing 2	-0.31322536519
adhesion G protein-coupled receptor E2	-0.27877424181
hydroxycarboxylic acid receptor 2	-0.3988425798
G0/G1 switch 2	-0.85172082082
Fc fragment of IgG receptor IIa	-0.29816569416
heparan sulfate-glucosamine 3-sulfotransferase 1	0.44559057096
regulator of hemoglobinization and erythroid cell expansion	0.3575955279
BH3 interacting domain death agonist	-0.20619424107
RAB10, member RAS oncogene family	-0.13246884982
cystatin F	-0.52349376638
DNA damage regulated autophagy modulator 1	-0.19867883389
leukotriene A4 hydrolase	-0.24868709096
P2RX5-TAX1BP3 readthrough (NMD candidate)	0.44901308786
interleukin 4 receptor	-0.34145775765
dehydrogenase/reductase 13	-0.39133093487
kazrin, periplakin interacting protein	-0.36424472504
kallikrein 1	0.59528234072
pleckstrin	-0.21876124055
transmembrane protein 176A	-0.41341437226

cytokine dependent hematopoietic cell linker	0.36643444634
zinc finger DHHC-type palmitoyltransferase 19	-0.83173787298
NLR family CARD domain containing 4	-0.315464564
flotillin 1	-0.27137062764
CD79b molecule	0.45117094127
mitogen-activated protein kinase kinase kinase 20	-0.32313255649
SRY-box transcription factor 5	0.580229534
MAX dimerization protein 3	-0.26412188488
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta	0.21443346248
microtubule associated monooxygenase, calponin and LIM domain con	0.21165261057
cochlin	0.43052728261
cAMP-dependent protein kinase inhibitor gamma	0.26235228819
aquaporin 9	-0.34549833304
BCL3 transcription coactivator	-0.36957321694
semaphorin 4A	-0.27118893922
acyl-CoA synthetase long chain family member 1	-0.39690885718
dysbindin domain containing 1	0.37249156282
PHD finger protein 21A	-0.23292661954
pleckstrin homology and RhoGEF domain containing G1	0.30358956506
peptidyl arginine deiminase 2	-0.33309267657
S100 calcium binding protein A9	-0.40058915768
C-type lectin domain containing 17A	0.29280827034
hexokinase 3	-0.31589428209
CD44 molecule (Indian blood group)	-0.22401099656
copine 5	0.32686994303
hydrogen voltage gated channel 1	0.18120761796
oncostatin M	-0.54879662854
maltase-glucoamylase 2 (putative)	-0.47323281963
docking protein 4	-0.48906371073
dedicator of cytokinesis 4	-0.50964457391
interferon gamma receptor 2	-0.19093092727
lamin B1	-0.34425789429
GRAM domain containing 1A	-0.21187787391
superoxide dismutase 2	-0.33589595847
chondroadherin	0.58346370308
NLR family apoptosis inhibitory protein	-0.39635946452
coiled-coil domain containing 50	0.2390630134
nicotinamide phosphoribosyltransferase	-0.33339620476
TNF receptor associated factor 3	-0.17271420379
testis expressed 9	0.31909533146
beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferas	0.30637628604
FGR proto-oncogene, Src family tyrosine kinase	-0.20735832225
NFKB inhibitor zeta	-0.25200037672
Fc fragment of IgE receptor II	0.31687936521
nibrin	-0.25266935115
plexin C1	-0.23589376341

cell division cycle associated 7 like	0.22633204204
WEE1 G2 checkpoint kinase	0.25687742277
suppressor of cytokine signaling 3	-0.54289892359
integrin subunit alpha X	-0.26700044418
desmocollin 2	-0.36391197767
neutrophil cytosolic factor 4	-0.25118927637
glycosyltransferase 1 domain containing 1	-0.27612809687
zinc finger CCCH-type containing 12A	-0.18398140313
C-type lectin like 1	0.31506883902
KH RNA binding domain containing, signal transduction associated 2	0.29206007655
GDNF family receptor alpha 2	0.41271322908
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	-0.35725531515
golgi associated, gamma adaptin ear containing, ARF binding protein 2	0.12971161295
perilipin 5	-0.33899798053
junction adhesion molecule like	-0.18205669159
flotillin 2	-0.27210889735
kinesin family member C3	-0.37315650947
LIM domains containing 1	0.12844306721
solute carrier family 2 member 14	-0.50032662034
tudor domain containing 9	-0.48902270177
mast cell immunoglobulin like receptor 1	-0.25879701486
DnaJ heat shock protein family (Hsp40) member C3	-0.20486396919
switching B cell complex subunit SWAP70	0.17057741424
alpha kinase 1	-0.26928736417
haptoglobin	-0.70781292845
SET binding factor 2	-0.23209488409
heat shock protein family A (Hsp70) member 12A	0.45626778069
kelch like family member 14	0.3754756425
collagen type IX alpha 2 chain	0.4796555962
S100 calcium binding protein A12	-0.57078401252
signal transducer and activator of transcription 5B	-0.19748629968
perilipin 4	-0.36173216659
immunoglobulin like domain containing receptor 1	0.50984801206
sarcospan	0.31886263652
LIM domain kinase 1	-0.30447862128
FERM, ARH/RhoGEF and pleckstrin domain protein 2	0.14324156964
teashirt zinc finger homeobox 3	-0.24362429016
RAR related orphan receptor C	0.28721018178
TLE family member 1, transcriptional corepressor	0.29080487817
myristoylated alanine rich protein kinase C substrate	-0.33071080098
RAB20, member RAS oncogene family	-0.39129290582
osteoclast associated Ig-like receptor	-0.24046518153
leukocyte immunoglobulin like receptor A5	-0.39122048945
integrin subunit beta 4	-0.60721698492
UDP glycosyltransferase 8	0.39765173291
double PHD fingers 3	0.3047589225

G protein subunit gamma 7	0.2401835584
mitochondrial calcium uptake 1	-0.1502906401
neuritin 1	-0.6938822041
FA complementation group D2	0.15085876109
niban apoptosis regulator 1	-0.28668864896
sorting nexin 22	0.26935721627
desmoplakin	0.46376120685
TNF receptor associated factor 4	0.24656727328
solute carrier family 17 member 9	0.21784929145
lysophosphatidylcholine acyltransferase 3	-0.18846465102
leukocyte receptor tyrosine kinase	0.30958878324
chromosome 11 open reading frame 80	0.20385694734
aldehyde dehydrogenase 1 family member A2	-0.37084294092
ankyrin repeat domain 34B	-0.47998785641
INSC spindle orientation adaptor protein	-0.53863401793
prostate transmembrane protein, androgen induced 1	0.26279298789
metal regulatory transcription factor 1	-0.206012631
bone marrow stromal cell antigen 1	-0.23802947496
transmembrane and immunoglobulin domain containing 3	0.57219432868
butyrophilin like 9	0.53272643309
protein tyrosine phosphatase receptor type E	-0.16921125138
ral guanine nucleotide dissociation stimulator like 4	-0.33171045101
complement C3b/C4b receptor 1 (Knops blood group)	-0.3467831491
USP6 N-terminal like	0.16785229901
fibronectin type III domain containing 3B	-0.23048487447
harakiri, BCL2 interacting protein	0.53819396467
asialoglycoprotein receptor 2	-0.34022077629
solute carrier family 22 member 4	-0.28602781901
sphingomyelin phosphodiesterase acid like 3A	-0.27785364717
endothelin converting enzyme 1	-0.21221453893
transmembrane protein 156	0.17220128906
CD58 molecule	-0.17197648978
zinc finger protein 860	0.44693860603
dual specificity phosphatase 3	-0.27631943889
solute carrier family 49 member 4	-0.23161977702
CD274 molecule	-0.65849697632
caspase 4	-0.24700758793
STEAP4 metalloreductase	-0.29998208379
programmed cell death 1 ligand 2	-0.76096455486
ubiquitin conjugating enzyme E2 D1	-0.24298183141
neurotensin receptor 1	-0.42828840367
coagulation factor V	-0.34547326971
interleukin 1 receptor associated kinase 2	-0.19414894443
vanin 2	-0.29966884064
quiescin sulfhydryl oxidase 2	0.1532726331
ezrin	0.1222768976

BAI1 associated protein 3	0.36526549812
SET binding protein 1	0.1841938305
fatty acid desaturase 3	0.21556909699
phospholipase B domain containing 1	-0.24082968499
C-type lectin domain family 4 member F	0.64958637151
solute carrier organic anion transporter family member 3A1	-0.16925179909
lin-7 homolog A, crumbs cell polarity complex component	-0.21746326817
VPS9 domain containing 1	-0.25394892083
angiotensin II receptor associated protein	-0.20076520213
docking protein 7	0.46549851288
BEN domain containing 4	0.34689414457
major histocompatibility complex, class II, DQ alpha 1	0.24957247308
phospholipase D family member 4	0.31329789818
WD repeat and FYVE domain containing 3	-0.28114833036
solute carrier family 25 member 44	-0.21422059255
plasminogen activator, urokinase receptor	-0.24217769748
angiopoietin 1	0.45196114051
lysophospholipase 1	-0.1536694956
glycogenin 1	-0.349907792
SH3KBP1 binding protein 1	-0.23903673744
DENN domain containing 5A	-0.18607734423
C-X-C motif chemokine receptor 5	0.25733126866
free fatty acid receptor 2	-0.32597218819
tribbles pseudokinase 2	0.21502135933
Yip1 domain family member 1	-0.16675731873
prolyl 4-hydroxylase subunit alpha 2	-0.31048442507
E2F transcription factor 5	0.23599017391
signal peptide peptidase like 2A	-0.125126279
strawberry notch homolog 2	-0.23264540112
5'-3' exoribonuclease 2	-0.14047756207
C9orf72-SMCR8 complex subunit	-0.21907191696
fms related receptor tyrosine kinase 3	0.53930560013
EMAP like 6	0.31349922879
acyloxyacyl hydrolase	-0.15139477692
dishevelled associated activator of morphogenesis 2	0.97094794254
adipocyte plasma membrane associated protein	-0.26966927643
paternally expressed 10	0.39700286747
vav guanine nucleotide exchange factor 1	-0.14539422858
serine/threonine kinase 3	-0.25922573629
Rho guanine nucleotide exchange factor 4	0.33427601009
EF-hand calcium binding domain 2	-0.29888201346
lysophosphatidic acid receptor 1	-0.2791950864
chromosome 16 open reading frame 74	0.2172425954
diacylglycerol O-acyltransferase 2	-0.30149057239
JunB proto-oncogene, AP-1 transcription factor subunit	-0.27181878585
novel protein	-0.2585163406

phosphate cytidyltransferase 1, choline, alpha	-0.14101096289
carbonic anhydrase 4	-0.39016751481
translocator protein	-0.2791586244
brain abundant membrane attached signal protein 1	-0.35401061286
chromosome 19 open reading frame 38	-0.21533761102
plasminogen activator, urokinase	-0.43874295098
vav guanine nucleotide exchange factor 2	0.17114651075
ring finger protein 24	-0.2409546672
myosin X	-0.43429152155
integrin subunit alpha 7	-0.60840961297
solute carrier family 9 member A1	-0.18211091078
docking protein 3	-0.27087549852
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1K	0.21413980043
transmembrane O-mannosyltransferase targeting cadherins 1	-0.39923170921
FAM20A golgi associated secretory pathway pseudokinase	-0.80418600125
immunoglobulin lambda like polypeptide 5	0.35636344143
integrin subunit alpha M	-0.23053860383
family with sequence similarity 151 member B	-0.23805463209
perilipin 3	-0.2422614311
alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase	0.14440328899
collagen type V alpha 3 chain	0.35229008127
alanyl aminopeptidase, membrane	-0.28864877021
protein tyrosine phosphatase receptor type J	-0.20709035396
LDL receptor related protein associated protein 1	-0.15827498619
folliculin like 4	-0.82741251022
TNF receptor associated factor 5	0.17695179515
solute carrier family 37 member 3	-0.30800848067
nuclear prelamin A recognition factor	-0.1815375941
thyroid hormone receptor beta	0.40145454554
sodium voltage-gated channel beta subunit 1	-0.33942546763
S100 calcium binding protein A8	-0.48453971515
lysophosphatidic acid receptor 5	0.16032610047
DSN1 component of MIS12 kinetochore complex	0.16813826804
complement C1r subcomponent like	-0.17422666291
myosin VC	0.35300793367
zinc finger protein 532	0.18189558087
myelin protein zero like 1	0.32038122219
ADAM metalloproteinase domain 9	-0.22034275439
cornichon family AMPA receptor auxiliary protein 4	-0.20696354691
G protein subunit alpha 15	-0.21954102073
SH3 domain binding protein 4	0.31187481357
myocyte enhancer factor 2C	0.14519053103
steroid receptor RNA activator 1	-0.15723876741
target of myb1 membrane trafficking protein	-0.16009131356
leukocyte immunoglobulin like receptor B3	-0.2157033853
FYN binding protein 1	-0.14880542578

kinesin family member 1B	-0.23728613389
kelch like family member 5	-0.13149445219
glycerol-3-phosphate acyltransferase 3	-0.20324515516
novel protein	-0.22630460601
neurobeachin like 2	-0.19038698669
KIAA0825	-0.25500433458
tumor protein D52	0.24641216332
interleukin 10 receptor subunit beta	-0.23524212375
GRAM domain containing 1C	0.44876826661
protein kinase C delta	-0.1715653987
grancalcin	-0.27430841449
dual specificity tyrosine phosphorylation regulated kinase 4	0.37432901995
BAF chromatin remodeling complex subunit BCL7A	0.2030033528
V-set pre-B cell surrogate light chain 3	0.36550902388
phosphatidylglycerophosphate synthase 1	-0.23073138745
katanin catalytic subunit A1 like 1	0.18724329177
NOP2/Sun RNA methyltransferase 3	-0.12226024336
potassium voltage-gated channel subfamily H member 8	0.29627616407
Fc receptor like 1	0.31495604375
glutaminyI-peptide cyclotransferase	-0.29694536571
ADAM metallopeptidase domain 8	-0.17889875031
THO complex 5	-0.15778001303
serpin family B member 1	-0.20726236398
insulin like 3	-0.30310001483
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1N (putative)	-0.25868380068
cytoskeleton associated protein 4	-0.27145349263
serpin family A member 1	-0.2290891804
CD14 molecule	-0.28685529094
TRAF interacting protein with forkhead associated domain	-0.31381708164
dihydropyrimidine dehydrogenase	-0.1572228959
adhesion G protein-coupled receptor E1	-0.29454911131
zinc finger protein 318	0.13846206633
cytohesin 4	-0.17627971958
amine oxidase copper containing 1	-0.4751498675
deltex E3 ubiquitin ligase 4	0.29167991634
granule associated Rac and RHOG effector 1	0.12290312075
tetratricopeptide repeat domain 21A	0.33295838313
family with sequence similarity 126 member B	-0.23122318304
KIT proto-oncogene, receptor tyrosine kinase	0.38463622926
zinc finger DHHC-type palmitoyltransferase 23	0.23832356909
protocadherin 9	0.32396229223
protein phosphatase 1 regulatory subunit 3B	-0.26729308829
ribonuclease A family member k6	0.26107920995
phospholipase B1	-0.28925611715
major facilitator superfamily domain containing 14B	-0.16945406045
peptidoglycan recognition protein 1	-0.44489946406

ring finger protein 149	-0.17077017909
solute carrier family 2 member 6	-0.22871627274
CD180 molecule	0.22330575797
muscle RAS oncogene homolog	-0.31326131651
GLI pathogenesis related 2	-0.16546777398
proline-serine-threonine phosphatase interacting protein 2	-0.33106462492
syndecan 2	0.50810062219
EH domain containing 1	-0.22091466555
TBC1 domain family member 8	-0.24969503912
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta	-0.11595848385
androgen induced 1	-0.16513751802
EH domain binding protein 1 like 1	-0.16247031165
guanylate binding protein 2	-0.28136495144
GEN1 Holliday junction 5' flap endonuclease	0.18943670389
amyloid beta precursor protein binding family B member 1 interacting pr	-0.16575398331
phosphatidylinositol binding clathrin assembly protein	-0.15143737505
C-type lectin domain family 4 member D	-0.40206962707
RAS guanyl releasing protein 4	-0.19335716093
ring finger protein 122	0.18828853183
protein kinase C and casein kinase substrate in neurons 1	0.26949207495
FERM domain containing 4B	-0.18332367962
myelin protein zero	-0.1725932634
poly(ADP-ribose) polymerase 1	0.12273092989
integrin subunit beta 2	-0.16109079003
lysophosphatidylcholine acyltransferase 2	-0.22084407123
interferon alpha and beta receptor subunit 1	-0.16774513795
ZFP36 ring finger protein like 1	-0.20753968168
solute carrier family 16 member 6	-0.14094691843
beta-1,4-galactosyltransferase 5	-0.23979488654
coiled-coil domain containing 6	0.10591420891
transcription termination factor 1	0.10658974468
VAMP associated protein A	-0.164087761
G protein subunit beta 5	0.11677232324
synapsin III	0.36191003035
transforming growth factor alpha	-0.26743002282
ADP ribosylation factor GTPase activating protein 3	-0.11011136149
family with sequence similarity 200 member B	-0.15808210383
arachidonate 15-lipoxygenase type B	0.72597727546
IKAROS family zinc finger 3	0.13052411323
formin homology 2 domain containing 1	-0.12806505464
ribosomal RNA processing 12 homolog	-0.18686425873
peptidase inhibitor 3	-0.55794317474
small glutamine rich tetratricopeptide repeat containing beta	-0.13694163472
microtubule crosslinking factor 1	0.37440495521
ataxin 1	-0.1508748217
TNFAIP3 interacting protein 1	-0.21380668129

zinc finger protein 671	0.10320609608
ATP/GTP binding protein 1	-0.17197797725
stromal antigen 3	0.29396796863
coiled-coil domain containing 24	0.27121823502
fibulin 2	0.26614559001
solute carrier family 5 member 9	0.47437940559
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1M	-0.1535895465
protein tyrosine phosphatase non-receptor type 13	0.24541647155
lactamase beta	-0.18499857865
sialic acid binding Ig like lectin 5	-0.30164606052
NFKB inhibitor epsilon	-0.20788853222
phospholipid scramblase 1	-0.4017648486
CD36 molecule	-0.25769234338
RAB27A, member RAS oncogene family	-0.13541021972
Rap guanine nucleotide exchange factor 5	0.47941057678
interleukin 17 receptor A	-0.16781844306
cyclin and CBS domain divalent metal cation transport mediator 4	0.10472448532
methyltransferase like 9	-0.21242432269
prolylcarboxypeptidase	-0.14454504013
cytochrome P450 family 27 subfamily A member 1	-0.25584876911
solute carrier family 9 member A8	-0.17902819729
zinc finger and BTB domain containing 32	0.33952659516
fermitin family member 3	-0.17258149643
toll like receptor 1	-0.19337554263
RAB32, member RAS oncogene family	-0.21943956929
purinergic receptor P2X 1	-0.18415473024
DnaJ heat shock protein family (Hsp40) member C5	-0.12386492132
carbohydrate sulfotransferase 2	-0.27141058681
myosin IB	0.40254437565
formyl peptide receptor 1	-0.25146049602
nuclear receptor subfamily 6 group A member 1	-0.2318838964
PDZ and LIM domain 5	-0.0916430835
cytochrome P450 family 26 subfamily B member 1	-0.49974791681
matrix metalloproteinase 25	-0.22614913462
SOS Ras/Rho guanine nucleotide exchange factor 2	-0.15111830817
RAB31, member RAS oncogene family	-0.18437860829
myosin binding protein C3	-0.24058567531
RNA binding motif single stranded interacting protein 1	-0.10017913692
membrane associated ring-CH-type finger 5	-0.11106336004
tripartite motif containing 9	-0.35673793318
clathrin heavy chain linker domain containing 1	0.17176788209
lemur tyrosine kinase 2	-0.20147560509
novel protein	0.23730997599
coiled-coil serine rich protein 1	0.2846304468
thymidine phosphorylase	-0.26064038138
putative homeodomain transcription factor 1	-0.21459150186

ubiquitin associated protein 1	-0.15872373219
RELT TNF receptor	-0.13482781698
elastin microfibril interfacier 2	-0.20657654767
dehydrogenase/reductase 7B	-0.11261054877
acetyl-CoA acyltransferase 1	-0.11360719453
histone deacetylase 4	-0.1845607387
interleukin 17 receptor E	0.29439231225
N-terminal EF-hand calcium binding protein 1	-1.15449456157
mannose receptor C-type 1	0.40910283132
ubiquitin specific peptidase 32	-0.14335236916
nuclear factor, erythroid 2 like 2	-0.12300958178
ATP binding cassette subfamily C member 3	-0.26033378526
sulfotransferase family 1B member 1	-0.25681113443
vanin 1	-0.32126504912
ubiquitin domain containing 1	-0.21170113531
hyaluronidase 2	-0.23132839988
interleukin 7	0.22967582501
LARGE xylosyl- and glucuronyltransferase 2	0.22917959379
mitogen-activated protein kinase kinase kinase kinase 1	0.13213795963
G protein-coupled receptor 65	-0.1807165597
hedgehog acyltransferase	0.17185241075
ras homolog family member Q	-0.11420091737
colony stimulating factor 2 receptor subunit beta	-0.20769951704
activator of transcription and developmental regulator AUTS2	0.17580630667
kelch repeat and BTB domain containing 8	0.22771859118
lymphotoxin beta receptor	-0.17476184452
guanylate cyclase 2D, retinal	0.42511056724
methyltransferase like 8	0.11279776999
transcription factor 7 like 2	-0.21267358151
RNA polymerase II subunit C	-0.13641775991
SLAM family member 6	0.13223482041
arachidonate 5-lipoxygenase	-0.18221345901
capping protein regulator and myosin 1 linker 1	0.162010349
neuregulin 1	-0.34654501258
potassium inwardly rectifying channel subfamily J member 2	-0.26266999201
adenosine monophosphate deaminase 3	-0.13462808224
class II major histocompatibility complex transactivator	0.1893662601
transmembrane protein 165	-0.15700486826
leucine rich single-pass membrane protein 1	-0.25593356209
complement C3a receptor 1	-0.27540597447
CAP-Gly domain containing linker protein 1	-0.1155236885
DnaJ heat shock protein family (Hsp40) member B5	0.32287288543
lymphocyte antigen 96	-0.20898370722
adaptor protein, phosphotyrosine interacting with PH domain and leucin	0.12419082179
G protein-coupled receptor 108	-0.13567824071
prostaglandin I2 receptor	-0.22654387252

acyl-CoA synthetase short chain family member 2	-0.12175512576
zinc finger SWIM-type containing 6	-0.15343545263
thioredoxin reductase 1	-0.12909304482
kinesin family member 27	0.29306424589
exoribonuclease 1	-0.18729191182
large tumor suppressor kinase 2	-0.13028817965
Fc fragment of IgM receptor	0.14029586824
solute carrier family 8 member B1	-0.09116375397
Spi-1 proto-oncogene	-0.20180422749
vitamin D receptor	-0.16916654524
ATPase phospholipid transporting 11B (putative)	-0.16440175995
RAD23 homolog B, nucleotide excision repair protein	-0.13037907239
zinc finger and BTB domain containing 7B	-0.1628074731
solute carrier family 12 member 9	-0.15303266565
CD24 molecule	0.33141294395
tubulin polymerization promoting protein	0.28020584194
slingshot protein phosphatase 1	-0.16807091073
laminin subunit gamma 1	0.22866187636
tectonic family member 1	0.18004883633
pyruvate dehydrogenase phosphatase regulatory subunit	0.07598828637
sorting nexin 10	-0.15797093804
sorting nexin 25	0.1403599822
NEDD4 binding protein 3	0.23600288451
selenoprotein T	-0.13513373884
TAP binding protein	-0.14558571112
low density lipoprotein receptor	-0.21023005415
CXXC finger protein 5	0.14002784571
HORMA domain containing 1	-0.27305140359
autophagy related 7	-0.15715622157
NFKB inhibitor delta	-0.11263769373
zinc finger protein 135	0.19102070877
X-C motif chemokine receptor 1	0.48840427651
influenza virus NS1A binding protein	-0.15142631
eukaryotic translation initiation factor 2 alpha kinase 3	0.11267325217
CASP8 and FADD like apoptosis regulator	-0.15002847348
RNA binding motif protein 47	-0.22084021495
zinc finger protein 875	0.10215989104
uridine phosphorylase 1	-0.21024688767
ATPase phospholipid transporting 9A (putative)	-0.39255972126
zinc finger protein 106	-0.1168488603
brain protein I3	-0.16438444896
mannosidase alpha class 1A member 1	-0.16612622348
serglycin	-0.21396732282
ficolin 1	-0.1760129429
calcium voltage-gated channel auxiliary subunit beta 4	0.38429680942
mitogen-activated protein kinase kinase kinase 9	0.15080323114

Scm polycomb group protein like 4	0.13657693977
checkpoint kinase 2	0.14615342519
guanosine monophosphate reductase 2	-0.11474948835
solute carrier family 12 member 3	0.4010953691
growth arrest specific 7	-0.19537293031
sidekick cell adhesion molecule 2	0.18959782009
matrix metalloproteinase 9	-0.43821649766
activating transcription factor 6	-0.14403356281
G protein-coupled receptor 19	0.21986082067
calcium/calmodulin dependent protein kinase kinase 2	-0.15047054051
deoxyribonuclease 1 like 3	0.37337195753
family with sequence similarity 160 member A2	-0.13567602925
HIVEP zinc finger 1	-0.1394551554
maltase-glucoamylase	-0.29912497545
coiled-coil domain containing 106	0.20065657408
F-box and leucine rich repeat protein 13	-0.24899891147
sine oculis binding protein homolog	0.36074306067
glutathione S-transferase omega 1	-0.16335918043
NLR family pyrin domain containing 12	-0.18367383922
NUMB endocytic adaptor protein	-0.14058883646
EF-hand calcium binding domain 12	-0.19940602194
LYN proto-oncogene, Src family tyrosine kinase	-0.15488534068
glutamic--pyruvic transaminase 2	0.25019625131
WD repeat domain 34	0.22963169964
myotubularin related protein 11	-0.21206082392
protein phosphatase 4 regulatory subunit 2	-0.15318800889
pseudouridine synthase 7	0.1439202968
family with sequence similarity 177 member B	0.24265981585
EF-hand domain family member D2	-0.17386549233
RAB30, member RAS oncogene family	0.21623959726
secreted phosphoprotein 1	0.50435969307
golgi associated kinase 1B	-0.24680712156
cut like homeobox 1	-0.15335927041
formyl peptide receptor 2	-0.21952577733
rabaptin, RAB GTPase binding effector protein 2	0.11363472741
phosphoinositide-3-kinase adaptor protein 1	-0.20799461801
ADP ribosylation factor like GTPase 11	-0.14938004687
nucleoporin 160	0.10660859346
coenzyme Q2, polyprenyltransferase	-0.14639795996
Rho GTPase activating protein 17	0.11804876528
NBPF member 26	-0.20299603708
leukocyte immunoglobulin like receptor B2	-0.13084499376
reticulon 4	-0.10215325202
Ras association domain family member 6	0.35520348072
galactosylceramidase	-0.12764376887
N-acetylneuraminase pyruvate lyase	-0.1610731209

doublecortin like kinase 2	0.41579815969
cellular communication network factor 3	0.384657881
transmembrane protein 185B	-0.13925347592
transmembrane protein 260	-0.16259369827
kinase non-catalytic C-lobe domain containing 1	-0.31096264847
ArfGAP with GTPase domain, ankyrin repeat and PH domain 3	-0.13324991063
afadin, adherens junction formation factor	0.18227829585
secreted and transmembrane 1	-0.31156446783
tumor protein p53 inducible protein 11	-0.26351038925
regulatory factor X2	-0.27065706202
leucine rich repeat kinase 2	-0.19094627657
novel protein, SIRPB1-SIRPD readthrough	-0.15955139378
PHD finger protein 24	0.55618181337
solute carrier family 11 member 1	-0.22357109873
LRR binding FLII interacting protein 2	-0.12181821103
myosin phosphatase Rho interacting protein	0.11132471579
epsin 2	0.17884608693
nuclear factor, erythroid 2	-0.25228026895
zinc finger protein 606	0.12049413059
minichromosome maintenance complex binding protein	-0.10848602498
COP1 E3 ubiquitin ligase	-0.14061398714
phosphogluconate dehydrogenase	-0.21133061175
acyl-CoA synthetase short chain family member 3	-0.19937516543
adaptor related protein complex 5 subunit beta 1	-0.20930535809
paxillin	-0.1451813821
nectin cell adhesion molecule 2	-0.25185636406
collagen type XIX alpha 1 chain	0.20739790841
CD244 molecule	-0.14569661534
cytochrome P450 family 1 subfamily B member 1	-0.25117231335
cathepsin A	-0.18641767285
tyrosyl-DNA phosphodiesterase 2	-0.15432682313
CD80 molecule	0.35588769266
N-sulfoglucosamine sulfohydrolase	-0.14580288709
beta-secretase 2	0.19656150809
transmembrane protein 45B	-0.21577988031
signaling lymphocytic activation molecule family member 1	0.13856326114
protein phosphatase 1 regulatory subunit 12A	-0.11260730236
ETS variant transcription factor 6	-0.13596191898
Ras protein specific guanine nucleotide releasing factor 1	0.37952160079
CYFIP related Rac1 interactor B	-0.11688122611
ETS proto-oncogene 2, transcription factor	-0.17183770281
signal induced proliferation associated 1 like 3	0.12150187743
sterile alpha motif domain containing 8	-0.106452008
FLVCR heme transporter 2	-0.2694187001
major histocompatibility complex, class II, DQ beta 2	0.21618695429
transcriptional repressor GATA binding 1	-0.17627391205

protein kinase C epsilon	0.21467627379
kelch like family member 2	-0.21326966726
fatty acyl-CoA reductase 1	-0.15472546456
angiopoietin like 6	0.28801839558
ADAM metallopeptidase domain 12	0.23889212889
MTSS I-BAR domain containing 1	0.14320753411
CD63 molecule	-0.18650701219
regulator of G protein signaling 3	-0.14906820064
MAPK interacting serine/threonine kinase 1	-0.16160064341
zinc finger protein 710	-0.12252495549
Kruppel like factor 9	0.24245507188
base methyltransferase of 25S rRNA 2 homolog	-0.11281487517
golgi membrane protein 2	-0.08744782422
chondroitin sulfate synthase 1	-0.19929324225
NEDD4 binding protein 1	-0.14176092779
ubiquitin like with PHD and ring finger domains 2	0.10954599154
exostosin glycosyltransferase 1	-0.2060964729
UTP6 small subunit processome component	0.10715418745
recombination signal binding protein for immunoglobulin kappa J region	-0.11589601072
ubiquitin associated and SH3 domain containing B	-0.11776993823
RAS like proto-oncogene B	-0.18011545661
N-acetylneuraminate synthase	-0.13039339263
SKI like proto-oncogene	-0.14487587834
TAFA chemokine like family member 2	0.17976264582
signal transducer and activator of transcription 5A	-0.1217390896
mucolipin 2	0.17196792979
transmembrane protein 273	0.18515315812
transforming growth factor beta receptor 1	-0.12237506818
interferon regulatory factor 4	0.19306876148
metaxin 1	-0.15723478932
lon peptidase 2, peroxisomal	0.10666961553
POC1 centriolar protein B	-0.12149745526
TEK receptor tyrosine kinase	0.48771456467
thioredoxin interacting protein	0.18533814267
apoptosis associated tyrosine kinase	-0.21237182223
tyrosylprotein sulfotransferase 2	-0.13127522225
RPGR interacting protein 1	0.24498907588
RELT like 1	0.23108978315
sulfide quinone oxidoreductase	-0.16123141192
zinc finger protein 467	-0.1989824438
glucosamine (N-acetyl)-6-sulfatase	-0.13718052964
nucleic acid binding protein 1	-0.18956370894
cell cycle progression 1	-0.16004533231
tyrosylprotein sulfotransferase 1	0.40712854533
inositol 1,4,5-trisphosphate receptor type 1	0.12845190572
acyl-CoA binding domain containing 3	0.06591879393

novel transcript	-0.18992077411
Dmx like 2	-0.20601404944
secretory leukocyte peptidase inhibitor	-0.3986815942
oxysterol binding protein like 8	-0.12884932429
syntaxin 11	-0.2360702514
BTB domain containing 11	0.13977111839
TNF alpha induced protein 3	-0.17282675222
CD82 molecule	-0.17443575069
zinc finger protein 814	0.10967153424
BTB domain and CNC homolog 1	-0.1335174203
basic leucine zipper ATF-like transcription factor	-0.14894102634
solute carrier family 35 member F2	0.16496238116
ribonuclease P/MRP subunit p38	0.09551209289
fucosyltransferase 7	-0.25255122861
zinc finger and SCAN domain containing 18	0.13800834691
signal regulatory protein alpha	-0.16667558814
RP9 pre-mRNA splicing factor	0.12672249243
potassium voltage-gated channel subfamily H member 3	-0.22131141266
Fc fragment of IgG receptor IIb	0.1673321253
caspase recruitment domain family member 19	-0.11961758456
tet methylcytosine dioxygenase 3	-0.10891184857
lysine acetyltransferase 2A	0.10966089024
novel protein	-0.17863411321
PDZ and LIM domain 7	-0.19418540569
TNF superfamily member 13b	-0.24291088209
cytochrome P450 family 4 subfamily F member 12	-0.24290526746
dystrotelin	-0.45467117725
single-pass membrane protein with coiled-coil domains 4	-0.19214358782
DLG associated protein 3	0.25690013863
G protein-coupled receptor 27	-0.23967071105
neutrophil cytosolic factor 2	-0.13165749252
kynurenine 3-monooxygenase	0.15929877479
ankyrin repeat domain 22	-0.58753593518
SWT1 RNA endoribonuclease homolog	-0.09957348772
insulin like growth factor binding protein 7	-0.16018935769
sorting nexin 18	-0.1573161857
dynein axonemal heavy chain 8	0.32818888443
protein interacting with cyclin A1	0.1213653291
nei like DNA glycosylase 1	0.17042164025
FOS like 2, AP-1 transcription factor subunit	-0.18441599869
autophagy related 3	-0.16723997598
Scm like with four mbt domains 1	0.11407239187
zinc finger protein 366	0.27459241681
DENN domain containing 4A	0.09838866777
absent in melanoma 2	-0.34145562528
vasodilator stimulated phosphoprotein	-0.1870521892

growth arrest and DNA damage inducible beta	-0.20563953074
TNF receptor superfamily member 8	-0.15824421037
calcineurin binding protein 1	0.12826186582
transmembrane protein 243	0.099737651
tubulin beta 6 class V	0.17118434353
solute carrier family 16 member 3	-0.16537941381
Rho related BTB domain containing 2	0.14593089918
desumoylating isopeptidase 1	-0.09476870428
mono-ADP ribosylhydrolase 2	0.38161701707
quiescin sulfhydryl oxidase 1	-0.14100846097
DEAD-box helicase 27	0.07693747126
GTP cyclohydrolase 1	-0.23764714723
ghrelin and obestatin prepropeptide	-0.22387317932
NFAT activating protein with ITAM motif 1	-0.16309227614
alkaline ceramidase 3	-0.13038517861
C-type lectin domain family 1 member A	-0.19294427459
major vault protein	-0.13268579446
GIT ArfGAP 2	-0.08101919544
chromosome 16 open reading frame 72	-0.1384038806
cyclin dependent kinase 2 interacting protein	-0.10404110689
leukocyte immunoglobulin like receptor A4	0.32457371692
major histocompatibility complex, class II, DQ beta 1	0.17188873689
family with sequence similarity 167 member A	0.22978451802
chloride intracellular channel 1	-0.16589035954
PR/SET domain 5	-0.21826177089
migration and invasion inhibitory protein	-0.15511974217
ras homolog family member T1	-0.10410315343
glutamate ionotropic receptor NMDA type subunit associated protein 1	-0.28107980193
mitochondrial rRNA methyltransferase 1	0.120715205
5'-nucleotidase domain containing 1	0.07101986477
CD55 molecule (Cromer blood group)	-0.17260422386
protein kinase C and casein kinase substrate in neurons 2	-0.13533714419
family with sequence similarity 117 member B	0.1046594817
novel protein	-0.34335032287
histamine receptor H2	-0.19496865222
nuclear factor of activated T cells 1	0.07742453663
HLF transcription factor, PAR bZIP family member	0.24287255318
major histocompatibility complex, class II, DQ alpha 2	0.20658907405
glucosylceramidase beta	-0.15009165358
beta-ureidopropionase 1	-0.27824577012
caspase 5	-0.36501627073
nucleotide binding oligomerization domain containing 2	-0.16432542724
zinc finger protein 418	0.16969175361
valyl-tRNA synthetase 1	0.11031043915
elongator acetyltransferase complex subunit 2	0.09459078172
ankyrin repeat and ubiquitin domain containing 1	0.22519166302

methionine adenosyltransferase 2A	0.09128443119
thrombospondin type laminin G domain and EAR repeats	0.40937146108
solute carrier family 39 member 8	-0.13156937717
TEA domain transcription factor 2	0.3385128628
nescient helix-loop-helix 1	-0.24001677516
protein inhibitor of activated STAT 2	0.16693543959
cytochrome b-245 chaperone 1	-0.11924350138
F-box protein 10	0.25762177184
TBC1 domain family member 9	0.14448850471
coiled-coil domain containing 9B	0.20169790578
zinc finger DHHC-type palmitoyltransferase 18	-0.16729832404
FRAT regulator of WNT signaling pathway 2	-0.2012870054
TBC1 domain family member 2B	-0.1047581029
mitogen-activated protein kinase kinase kinase 4	-0.12284920008
cofilin 2	0.15876284177
SLIT-ROBO Rho GTPase activating protein 2	0.20061981726
NADH:ubiquinone oxidoreductase complex assembly factor 6	0.09340354496
dachshund family transcription factor 1	-0.23083985252
photoreceptor disc component	0.33268095384
zinc finger protein 319	-0.16088441348
Rab interacting lysosomal protein like 2	-0.1198462564
zinc finger protein 516	-0.15946088283
marginal zone B and B1 cell specific protein	0.34511401987
spermatogenesis and centriole associated 1	-0.31883066707
SH2B adaptor protein 2	-0.15188304408
aldehyde dehydrogenase 2 family member	-0.15349005471
FES proto-oncogene, tyrosine kinase	-0.13484287286
PDZ domain containing 8	-0.15653775095
huntingtin interacting protein 1 related	0.12638654983
polypeptide N-acetylgalactosaminyltransferase 3	-0.15802790977
histone deacetylase 7	-0.09628107997
glutathione S-transferase kappa 1	-0.10131987106
lymphatic vessel endothelial hyaluronan receptor 1	-0.22814190776
galectin 2	-0.23836108355
DISC1 scaffold protein	-0.18639592634
ornithine aminotransferase	-0.14315497096
divergent protein kinase domain 1A	0.12421631665
formin 1	0.28829961848
family with sequence similarity 160 member B1	-0.15657937094
F-box and WD repeat domain containing 7	-0.09569786647
RUN and SH3 domain containing 2	-0.1800615352
nuclear transcription factor, X-box binding 1	0.0613934398
glutamine-fructose-6-phosphate transaminase 2	0.38178254164
macrophage erythroblast attacher, E3 ubiquitin ligase	-0.10484289326
reticulon 3	-0.15608971985
phosphoribosylformylglycinamide synthase	0.11027712693

lysosomal protein transmembrane 4 alpha	-0.10907230655
sirtuin 5	0.12393591467
protein interacting with PRKCA 1	0.11950888144
sorting nexin 20	-0.1238113932
transmembrane protein 121B	-0.20803046215
DExH-box helicase 34	-0.14727501762
G protein subunit alpha q	-0.13430108938
gasdermin E	0.34392340428
versican	-0.22070357536
kinesin family member 13A	-0.1381646896
CDC42 small effector 2	-0.06242224595
zinc finger CCCH-type containing 12D	0.11969093934
taste 1 receptor member 3	0.2920497404
	0.48411580325
microsomal glutathione S-transferase 1	-0.17836293178
TSPY like 1	0.07919760973
transient receptor potential cation channel subfamily M member 2	-0.19546149483
potassium channel modulatory factor 1	-0.07946281174
deleted in azoospermia like	0.4002415629
ST6 beta-galactoside alpha-2,6-sialyltransferase 1	0.07532535119
cytoplasmic polyadenylation element binding protein 4	-0.15854817305
solute carrier family 24 member 4	-0.16416590684
tropomodulin 3	-0.06516724471
TNF receptor superfamily member 1B	-0.12765938762
sestrin 1	0.15603977807
breast carcinoma amplified sequence 4	0.12303164543
transmembrane and coiled-coil domains 3	-0.14949084155
nicastatin	-0.0995445081
NBPF member 14	-0.14200542684
serine palmitoyltransferase small subunit B	0.30589826546
isovaleryl-CoA dehydrogenase	0.0817586459
yippee like 1	0.14428433479
RNA binding motif protein 8A	0.07528284875
zinc finger protein 292	-0.12389015467
TNFRSF1A associated via death domain	0.07840914247
ATPase copper transporting beta	-0.21073702881
Rap1 GTPase-GDP dissociation stimulator 1	0.07559004789
cortactin binding protein 2	0.48057161361
zinc finger protein 274	0.07973579828
epoxide hydrolase 1	0.16467992499
glutaredoxin	-0.13439642762
small integral membrane protein 14	0.07836233434
MET transcriptional regulator MACC1	0.28492500363
piwi like RNA-mediated gene silencing 4	-0.1699093465
cytidine deaminase	-0.21436250244
lysozyme	-0.16865032914

poly(ADP-ribose) polymerase family member 15	0.1633889863
colony stimulating factor 3 receptor	-0.15565782077
integrator complex subunit 4	0.05379809029
nuclear receptor subfamily 1 group D member 1	0.15174404566
MIA SH3 domain ER export factor 2	-0.07341910617
PX domain containing 1	0.22980424065
5'-nucleotidase ecto	0.1539877273
ribonuclease H2 subunit B	0.11586801116
discs large MAGUK scaffold protein 4	-0.14957422857
Rap guanine nucleotide exchange factor like 1	-0.14424900401
syntaxin binding protein 2	-0.15724679544
capping actin protein of muscle Z-line subunit alpha 2	-0.12127301195
spermatogenesis associated 2 like	-0.18212568868
caspase recruitment domain family member 6	-0.17272310001
G3BP stress granule assembly factor 1	0.07206431603
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	-0.18527845458
BCAR3 adaptor protein, NSP family member	0.16001047704
NEDD4 E3 ubiquitin protein ligase	-0.14637876923
TNF superfamily member 15	-0.31237577503
sodium channel modifier 1	-0.08563432286
junction plakoglobin	0.24841311675
MLLT1 super elongation complex subunit	-0.13440226708
oxysterol binding protein	0.05513535392
cyclin L2	0.08298776349
transmembrane O-mannosyltransferase targeting cadherins 2	-0.16256092601
HEAT repeat containing 5B	0.08781760098
dehydrogenase/reductase 7	-0.13913538417
ring finger protein 19B	-0.15453207496
solute carrier family 46 member 2	-0.19841183457
mitochondrial calcium uniporter	-0.09928994963
major histocompatibility complex, class II, DP beta 1	0.16468660622
X-ray repair cross complementing 4	-0.10185800996
endosome associated trafficking regulator 1	0.08779315807
pseudouridine synthase 1	0.09198312252
C-terminal binding protein 2	-0.11891310191
interleukin 1 receptor antagonist	-0.2853689701
chromosome 4 open reading frame 3	-0.14526371614
secernin 1	0.11750666421
purinergic receptor P2X 7	-0.16194012641
CDC42 effector protein 3	-0.16104209788
G-patch domain containing 1	0.07277799992
AE binding protein 1	0.16278272726
protein inhibitor of activated STAT 1	-0.0712651747
SH3 domain binding protein 2	-0.0864183573
nicotinamide nucleotide adenylyltransferase 1	-0.10217269439
TBL1X receptor 1	-0.0753083755

cytochrome p450 oxidoreductase	-0.15198651814
pleckstrin homology domain containing M3	-0.08965076017
adaptor related protein complex 1 subunit sigma 3	0.18786013707
kelch repeat and BTB domain containing 6	0.16586873343
speckle type BTB/POZ protein like	-0.12018430858
transient receptor potential cation channel subfamily M member 6	-0.20216668754
zinc finger DHHC-type palmitoyltransferase 21	0.16303557768
xylosyltransferase 1	0.11774012868
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta	-0.10736631921
basic leucine zipper ATF-like transcription factor 3	0.23756582786
ATPase phospholipid transporting 11A	-0.12466491777
nuclear factor, erythroid 2 like 3	-0.14522633586
sulfatase modifying factor 1	-0.09915186442
Fas cell surface death receptor	-0.18572557585
microtubule associated monooxygenase, calponin and LIM domain con	-0.10747024309
glycerol-3-phosphate dehydrogenase 1 like	0.09047438949
outer dense fiber of sperm tails 2	0.07296253504
TOX high mobility group box family member 2	0.18072799232
caspase 1	-0.15920791796
cytochrome b5 reductase 1	-0.12449107041
novel protein	-0.1674068389
ankyrin repeat domain 16	0.1100553261
fibroblast growth factor receptor substrate 3	0.1161020652
SEC22 homolog B, vesicle trafficking protein (gene/pseudogene)	-0.09283430558
discoidin domain receptor tyrosine kinase 1	0.1568194071
exonuclease 5	0.17138024803
malic enzyme 2	-0.07793117415
transmembrane immune signaling adaptor TYROBP	-0.15866810812
integral membrane protein 2C	0.23066658637
EYA transcriptional coactivator and phosphatase 2	0.48203688526
complement C3b/C4b receptor 1 like	-0.24744662427
mitogen-activated protein kinase kinase 1	0.06768483542
transmembrane protein 19	0.11876141647
ring finger and WD repeat domain 3	0.06060032805
DDHD domain containing 2	0.10795557772
ubiquitin specific peptidase like 1	0.10459714452
coagulation factor XIII A chain	-0.24067965723
F-box and WD repeat domain containing 8	0.10672540718
zinc finger protein 737	0.13932331624
zinc finger protein 383	0.09030164993
beta-1,3-galactosyltransferase 2	0.27387481093
interleukin 15 receptor subunit alpha	-0.14731277586
CDK5 regulatory subunit associated protein 2	-0.13482148996
PHD finger protein 12	-0.10976151359
prostate androgen-regulated mucin-like protein 1	0.21373464814
heat shock protein family A (Hsp70) member 4	0.06161931699

arrestin beta 2	-0.13186222579
zinc finger protein 706	0.06954474187
phospholipase C like 2	-0.09253558745
chromosome 8 open reading frame 88	-0.30555937054
major facilitator superfamily domain containing 2A	-0.2060484119
solute carrier family 4 member 3	0.35337621395
tigger transposable element derived 3	0.28813503488
glycogen synthase kinase 3 beta	-0.0854496095
macrophage receptor with collagenous structure	-0.27373791045
lipase C, hepatic type	-0.14408370026
isoleucyl-tRNA synthetase 1	0.08193779353
inositol polyphosphate multikinase	-0.137663327
inosine triphosphatase	0.08417305121
selenophosphate synthetase 2	-0.1193022444
dpy-19 like C-mannosyltransferase 3	-0.15086417562
SH3 domain containing GRB2 like, endophilin B1	-0.1295647638
reticulon 4 interacting protein 1	0.11964444699
SID1 transmembrane family member 2	0.10992893097
RUNX family transcription factor 2	0.12022274007
TPD52 like 2	-0.10358610176
RIC3 acetylcholine receptor chaperone	0.12332524847
intraflagellar transport 57	0.15505721936
interferon regulatory factor 1	-0.18651435003
cyclin B1 interacting protein 1	0.11345506205
acidic nuclear phosphoprotein 32 family member A	-0.087044400644
transmembrane protein 163	0.25156539603
glycogen phosphorylase, muscle associated	-0.1394249617
RCSD domain containing 1	0.07686424652
polyamine oxidase	0.13423420676
melanocyte inducing transcription factor	-0.20160316632
solute carrier family 15 member 2	0.15371049637
serine/threonine kinase 33	0.27009196721
methionine sulfoxide reductase B1	-0.21402646816
castor zinc finger 1	-0.12073474374
glyceraldehyde-3-phosphate dehydrogenase	-0.17169729534
complement C1r	-0.18719832427
zinc finger AN1-type containing 3	-0.1069693439
zinc finger protein 518B	0.09923730296
thiosulfate sulfurtransferase like domain containing 3	0.11796001278
G protein subunit alpha i3	-0.08962471224
chromosome 11 open reading frame 24	0.1131768795
ectodermal-neural cortex 1	-0.14317982549
signal peptide, CUB domain and EGF like domain containing 2	-0.26713374138
synaptophysin like 1	0.09278508925
ER degradation enhancing alpha-mannosidase like protein 2	-0.08378655149
C-type lectin domain containing 9A	0.2715376564

transmembrane protein 88	-0.19293482421
ubiquitin conjugating enzyme E2 R2	-0.13730950964
serine/threonine kinase 38 like	-0.10219647382
derlin 3	0.25523020803
orosomuroid 1	-0.42368951041
lipopolysaccharide induced TNF factor	-0.18708098439
MAF bZIP transcription factor F	-0.19671298782
lipocalin 8	0.36153838207
chromosome 16 open reading frame 70	-0.07555441032
regulating synaptic membrane exocytosis 3	0.15468831635
Ras association domain family member 3	-0.09957727809
serine hydroxymethyltransferase 1	0.1098943731
period circadian regulator 1	0.34947720671
TATA-box binding protein associated factor 4b	0.12022714432
anoctamin 10	-0.12171501523
SLIT-ROBO Rho GTPase activating protein 2C	0.17801404772
YEATS domain containing 2	0.08075198681
inositol polyphosphate phosphatase like 1	-0.08665599892
SID1 transmembrane family member 1	0.09160335879
PML-RARA regulated adaptor molecule 1	-0.13003352373
proline rich and Gla domain 4	-0.22223063268
pellino E3 ubiquitin protein ligase family member 2	-0.11746342691
repulsive guidance molecule BMP co-receptor b	0.14716460403
NGFI-A binding protein 1	-0.12118360419
RAB8B, member RAS oncogene family	-0.0947967559
dynammin 2	-0.07490348729
selectin L	-0.16204973832
exportin 1	0.09944031677
interleukin 1 receptor associated kinase 3	-0.20152902128
PRELI domain containing 1	-0.14354657866
cytochrome P450 family 2 subfamily U member 1	0.12244593903
nipsnap homolog 3B	0.1746100594
histone deacetylase 9	0.15128941818
G protein-coupled receptor class C group 5 member B	-0.31475937924
NCK associated protein 5 like	-0.11654923968
transmembrane protein 144	-0.20584785951
GRB2 associated binding protein 2	-0.14596978379
uronyl 2-sulfotransferase	0.11730726359
ATPase H ⁺ transporting V1 subunit C1	-0.12135927694
ADP ribosylation factor like GTPase 6 interacting protein 5	-0.10356976673
RCC1 and BTB domain containing protein 2	-0.11429408863
kinesin family member 5C	0.13137284682
EF-hand domain containing 1	0.11409737776
fucosyltransferase 8	0.10415059424
cytochrome b-245 alpha chain	-0.11099600624
Rho GTPase activating protein 44	0.49740758777

jade family PHD finger 2	0.09744138305
growth hormone regulated TBC protein 1	-0.29879194675
RAB24, member RAS oncogene family	-0.27499462262
leucine rich repeat containing 56	0.17011021313
CDP-diacylglycerol synthase 2	-0.0903669921
immunoglobulin heavy variable 4-38-2-like	0.41081481971
Ras like without CAAX 1	-0.11242073035
carbohydrate sulfotransferase 15	-0.13902095864
HRas proto-oncogene, GTPase	0.14293223751
zinc finger protein 787	-0.12098622548
late endosomal/lysosomal adaptor, MAPK and MTOR activator 1	-0.10217460632
Rho GTPase activating protein 26	-0.14985976203
glutamate rich 1	-0.09039399449
solute carrier family 25 member 42	0.0910498018
TNF receptor superfamily member 1A	-0.13540509068
tripartite motif containing 25	-0.16464908459
solute carrier family 44 member 5	0.29878773913
notch receptor 4	0.27548972836
lymphocyte antigen 86	0.11029169725
MORN repeat containing 1	0.10727837332
family with sequence similarity 43 member A	0.13209346219
myosin binding protein H	0.36288115344
drosha ribonuclease III	0.08061451056
radial spoke head component 9	-0.35708159299
UHRF1 binding protein 1 like	-0.09132524381
T cell immune regulator 1, ATPase H ⁺ transporting V0 subunit a3	-0.11445616842
rhomboid 5 homolog 2	-0.16525604755
RAB1A, member RAS oncogene family	-0.07531590744
WD repeat domain 77	0.09646795794
C-type lectin domain containing 6A	-0.27146716801
limb and CNS expressed 1 like	0.0830465486
Janus kinase 2	-0.14474379507
BICD cargo adaptor 1	0.10098121769
apolipoprotein B mRNA editing enzyme catalytic subunit 3A	-0.16863478562
Fc receptor like 3	0.13381371158
serine/threonine kinase 38	-0.06479644882
fem-1 homolog C	-0.1232506163
nuclear factor I C	-0.09653780029
nicotinate phosphoribosyltransferase	-0.12585002015
transmembrane protein 170B	-0.13577959422
regulator of G protein signaling 14	-0.0988629278
transmembrane and ubiquitin like domain containing 2	-0.08797675269
protein phosphatase 1 regulatory subunit 16B	0.09283186595
secretory carrier membrane protein 5	0.23128512435
Fc fragment of IgG receptor IIIb	-0.17221731955
novel lipoprotein amino terminal region containing protein	-0.22754201349

c-Maf inducing protein	-0.11032960166
complement C5a receptor 1	-0.17879037823
thymocyte selection associated family member 2	-0.11283828462
enoyl-CoA hydratase domain containing 3	0.35333099431
ubiquitin specific peptidase 46	0.11784185874
NIMA related kinase 8	0.11949029592
bromodomain adjacent to zinc finger domain 1A	-0.12573109515
E74 like ETS transcription factor 2	-0.11129112987
estrogen receptor 2	0.22121358933
CD300a molecule	-0.10171065696
SMAD family member 3	0.10958453176
formyl peptide receptor 3	0.26994857032
microtubule interacting and trafficking domain containing 1	-0.11542278682
frizzled class receptor 6	0.19264437618
retinoic acid receptor alpha	-0.13798784161
cyclin dependent kinase inhibitor 2D	-0.18453951115
matrix metalloproteinase 8	-0.51226257212
transmembrane protein 64	-0.14298680153
MAX network transcriptional repressor	-0.09402532405
novel protein, DEPDC5-YWHAH readthrough	0.14951955443
ATPase secretory pathway Ca ²⁺ transporting 2	-0.33961445859
F-box protein 32	0.13280183583
oligodendrocyte myelin glycoprotein	-0.23472293231
5'-nucleotidase domain containing 4	-0.24307525478
AT-rich interaction domain 3A	-0.12028639255
protein-L-isoaspartate (D-aspartate) O-methyltransferase	-0.09857582663
transmembrane protein 62	0.12138968934
inosine monophosphate dehydrogenase 1	-0.13133112644
proline-serine-threonine phosphatase interacting protein 1	-0.08375338594
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1	-0.10850931068
actinin alpha 1	-0.14325152131
C-type lectin domain containing 5A	-0.23429600005
long intergenic non-protein coding RNA 672	-0.12933295205
ATPase 13A3	-0.13338267025
minichromosome maintenance complex component 5	0.09145252934
nucleolar and coiled-body phosphoprotein 1	0.0827028152
zinc finger protein 281	-0.12402069672
zinc finger E-box binding homeobox 2	-0.09319095901
rabphilin 3A	-0.30963772091
zinc finger protein 623	0.06274693307
major histocompatibility complex, class II, DR beta 1	0.15664822087
C-type lectin domain containing 10A	0.20635413982
coiled-coil domain containing 122	0.14192288254
TEF transcription factor, PAR bZIP family member	0.12983577037
oxysterol binding protein like 3	0.09380662232
lymphotoxin beta	-0.11798883916

testis associated actin remodelling kinase 2	-0.10352051359
histamine N-methyltransferase	-0.16580239755
nucleolar protein 9	0.07228613506
ubiquitin specific peptidase 28	0.10037892963
zinc finger protein 654	-0.0760401428
RAB GTPase activating protein 1 like	0.08100666711
cytochrome b561 family member A3	0.10191890359
solute carrier family 12 member 6	-0.10486072563
apoptosis resistant E3 ubiquitin protein ligase 1	-0.0848986501
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase	-0.23327582885
family with sequence similarity 81 member A	0.22142315434
MDM2 proto-oncogene	0.13791758505
sushi domain containing 6	-0.10420436094
eva-1 homolog C	0.11630577145
bone morphogenetic protein 8a	0.31990444552
GEM interacting protein	-0.10496377658
WNK lysine deficient protein kinase 2	0.28618405347
exocyst complex component 6	-0.11546505254
solute carrier family 24 member 1	0.1103581385
phosphatidylinositol glycan anchor biosynthesis class H	0.08045777344
COP9 signalosome subunit 7B	0.0639816769
ATP synthase inhibitory factor subunit 1	0.07318777532
MAX dimerization protein 1	-0.14343074449
OTU deubiquitinase with linear linkage specificity like	-0.09669915192
family with sequence similarity 117 member A	-0.14610772258
leucine rich repeat containing 25	-0.14439660992
hepsin	-0.32923563744
1-acylglycerol-3-phosphate O-acyltransferase 2	-0.13094233324
MYD88 innate immune signal transduction adaptor	-0.13858205014
zinc finger and BTB domain containing 16	0.3971578835
purinergic receptor P2Y14	-0.30765900267
CCAAT enhancer binding protein beta	-0.17778621959
F-box protein 6	-0.26864090738
tenascin R	0.29173067447
timeless circadian regulator	0.11520012214
spermatogenesis associated 6	0.18724949849
KIAA0556	-0.08085195003
leucine rich repeat containing 4	-0.20874671555
transmembrane protein 8B	0.1206978715
TAM41 mitochondrial translocator assembly and maintenance homolog	0.08183793918
syndecan binding protein	-0.1429246045
nucleolar protein with MIF4G domain 1	0.08182654281
sorting nexin 3	-0.16804390599
Ral GTPase activating protein catalytic subunit alpha 2	-0.12533881951
leukocyte immunoglobulin like receptor B4	-0.17565596378
Ras association domain family member 4	-0.12828826045

UBX domain protein 2B	-0.12046693463
plexin B2	-0.16379206411
pygopus family PHD finger 2	0.07720969545
sorting nexin 13	-0.10636928548
family with sequence similarity 219 member B	0.06223505721
cathepsin K	-0.10097396698
immediate early response 3	-0.16122861704
calcium binding protein 39	-0.09509040697
ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	-0.09274316552
DBF4 zinc finger B	0.13333009517
TBC1 domain family member 14	-0.11793755821
N-acylsphingosine amidohydrolase 1	-0.11042493108
chromosome 12 open reading frame 42	0.13056268503
nuclear cap binding protein subunit 2	0.07971069351
phospholipase A2 group VII	-0.21514437919
zinc finger protein 543	0.14572075278
zinc finger DHHC-type containing 11B	0.27038780525
cysteinyl-tRNA synthetase 2, mitochondrial	-0.09698772235
zinc finger protein 107	0.16625951231
elongation factor for RNA polymerase II	-0.11261574363
myosin IF	-0.10759328435
nardilysin convertase	-0.08259514678
zinc finger protein 316	-0.08854290176
novel transcript	-0.13086992362
solute carrier family 6 member 6	-0.11950057544
B9 domain containing 2	-0.10813021816
mitogen-activated protein kinase kinase kinase 2	-0.10544480812
tumor protein p53 inducible nuclear protein 2	0.24106297396
NFKB inhibitor beta	-0.10174255997
threonine synthase like 2	0.22649518118
solute carrier family 41 member 2	0.21564741925
C-X3-C motif chemokine receptor 1	-0.17546065267
netrin G1	0.44877937738
S100 calcium binding protein A6	-0.16845958
sideroflexin 5	-0.11729456074
F-box protein 34	-0.07487019431
CD1a molecule	0.20543163757
solute carrier family 25 member 37	-0.20420045324
Rho GTPase activating protein 15	-0.10920341073
signal transducing adaptor molecule	-0.06481310789
calpain 12	0.13445268181
CAP-Gly domain containing linker protein 3	0.15879596333
PTTG1 interacting protein	-0.0722419721
caspase recruitment domain family member 16	-0.23677932649
heparan-alpha-glucosaminide N-acetyltransferase	0.07343421099
zinc finger protein 718	0.09524285691

DS cell adhesion molecule like 1	0.24121676511
TNF receptor superfamily member 21	0.2383084907
family with sequence similarity 53 member C	-0.13320695208
nuclear factor of activated T cells 2 interacting protein	0.05848549371
brain enriched myelin associated protein 1	0.28798475032
major histocompatibility complex, class II, DP alpha 1	0.1619052417
ankyrin and armadillo repeat containing	0.08157221476
ETS proto-oncogene 1, transcription factor	0.1070081044
CKLF like MARVEL transmembrane domain containing 7	0.06776692696
zinc finger protein 90	0.1871064754
synoviolin 1	0.07197074765
DEAH-box helicase 37	0.07855192608
asialoglycoprotein receptor 1	-0.1820488616
G protein-coupled estrogen receptor 1	0.37781053166
solute carrier family 35 member E3	0.13784545768
chromosome 17 open reading frame 67	0.110597689
cell division cycle associated 7	0.22290243219
family with sequence similarity 8 member A1	-0.15489797719
netrin G2	-0.19960120695
signal induced proliferation associated 1 like 1	-0.13958809601
stomatin	-0.18013884951
zinc finger FYVE-type containing 16	-0.12375082608
phosphoglucomutase 1	-0.11587319724
pecanex 1	-0.11492913344
argininosuccinate lyase	0.11720374909
solute carrier family 30 member 5	0.06147483145
coiled-coil and C2 domain containing 2B	-0.15291859014
zinc finger protein 296	0.16560664117
phospholipase A2 group IVA	-0.12397715592
erythrocyte membrane protein band 4.1 like 5	0.1047721498
KIAA0319	-0.20243570913
DENN domain containing 1A	-0.12701684782
membrane metalloendopeptidase	-0.21322723564
WDFY family member 4	0.12157204145
cut like homeobox 2	0.22600368097
UDP-N-acetylglucosamine pyrophosphorylase 1 like 1	-0.10718796008
ankyrin repeat domain 13D	-0.07826944722
capicua transcriptional repressor	-0.10884294093
solute carrier family 15 member 3	-0.1323307289
formin binding protein 4	0.0732380776
MAK16 homolog	0.09949976895
sirtuin 3	0.07027156688
endosome-lysosome associated apoptosis and autophagy regulator 1	-0.15300393559
serine and arginine repetitive matrix 1	0.04698586127
leucine rich melanocyte differentiation associated	-0.22327164385
FUS RNA binding protein	0.0595684515

zinc finger protein 264	0.06777074544
abhydrolase domain containing 15	0.09286461448
EPM2A glucan phosphatase, laforin	0.10910225555
TRAF interacting protein	0.20343495065
proteasome maturation protein	-0.12241005182
ubiquitin interaction motif containing 1	-0.09587114706
RNA polymerase I and III subunit C	0.08359837329
speedy/RINGO cell cycle regulator family member A	-0.16271054762
serine racemase	0.10642463855
DiGeorge syndrome critical region gene 2	-0.08635468546
armadillo repeat containing 12	0.25609714284
endoplasmic reticulum to nucleus signaling 1	0.13264213094
nuclear receptor coactivator 1	-0.08673481959
ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	-0.07024592924
phospholipase A2 group IVC	-0.17517247538
polycystin 2, transient receptor potential cation channel	0.08055840642
solute carrier family 38 member 1	0.11745366764
immunoglobulin superfamily member 6	-0.13163423393
NUAK family kinase 1	-0.29594655079
CD48 molecule	-0.10904040657
MYC associated factor X	-0.08796740017
zyxin	-0.16171460882
vav guanine nucleotide exchange factor 3	-0.10276640157
novel protein	0.14388361882
osteoclast stimulating factor 1	-0.08392262633
transmembrane protein 33	-0.08086407186
leukocyte immunoglobulin like receptor B5	-0.19804348373
leptin receptor	-0.10488303424
mitochondrial fission regulator 2	0.18058643106
zinc finger protein 254	-0.1435160564
dynamin binding protein	0.08666346171
zinc finger DHHC-type palmitoyltransferase 20	-0.10997450198
KIAA0319 like	0.11390007807
nicotinamide nucleotide adenylyltransferase 3	-0.13066513393
syntaxin 3	-0.11947465735
BCL2 interacting protein 2	-0.09815468923
capping actin protein of muscle Z-line subunit alpha 1	-0.09581124776
Jun proto-oncogene, AP-1 transcription factor subunit	0.1674796675
zinc finger DHHC-type palmitoyltransferase 3	-0.09146540499
pyruvate kinase M1/2	-0.1288904545
single stranded DNA binding protein 2	0.07700471771
TGFB induced factor homeobox 1	0.08288647206
HMG-box containing 4	-0.05822730217
novel twinfilin, actin-binding protein, homolog 2 (Drosophila) (TWF2) an	-0.1924449847
adaptor related protein complex 3 subunit sigma 2	-0.10873386203
zinc finger BED-type containing 4	0.06521441699

PBX/knotted 1 homeobox 1	-0.08516047255
oocyte secreted protein family member 3	-0.26414377402
protein kinase cAMP-dependent type II regulatory subunit alpha	-0.07093037789
protein phosphatase 3 catalytic subunit gamma	0.08178694339
galectin 8	-0.09237596047
small nuclear ribonucleoprotein U11/U12 subunit 25	0.13615573059
fatty acid desaturase 1	-0.14616648738
cyclin Y	-0.0746080467
thimet oligopeptidase 1	0.09213432711
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma	-0.09684543245
proteasome 20S subunit beta 3	-0.14574130582
GPN-loop GTPase 2	0.06078210131
BCL2 related protein A1	-0.23723457556
succinate dehydrogenase complex subunit C	-0.05870251905
synaptojanin 2	0.08491464574
caspase recruitment domain family member 11	0.09022420876
tetratricopeptide repeat domain 7A	0.0824388951
uveal autoantigen with coiled-coil domains and ankyrin repeats	0.18836143719
RPA interacting protein	0.08228883866
immediate early response 5 like	-0.20413129508
N-acetyltransferase domain containing 1	-0.19390544668
CD151 molecule (Raph blood group)	-0.16755804004
ring finger protein 144B	-0.13155567337
complement C1s	0.10271554544
TNF superfamily member 8	0.11029816728
tripartite motif containing 21	-0.1529636825
5'-aminolevulinate synthase 1	-0.09192492531
macrophage immunometabolism regulator	0.22283842588
zinc finger protein 33B	0.07258515385
chromosome 1 open reading frame 74	0.18342259308
WD repeat domain 4	0.08130131495
RAD51 associated protein 1	0.23846676601
exosome component 6	0.08513708603
uridine-cytidine kinase 1 like 1	0.08401650934
SEC31 homolog A, COPII coat complex component	0.06251936035
family with sequence similarity 214 member B	-0.13175358868
protein phosphatase 1 regulatory subunit 3D	-0.12730365562
cytochrome b5 domain containing 2	0.07407319502
RAP1A, member of RAS oncogene family	-0.06520678385
RCC1 domain containing 1	0.11307178627
PWP1 homolog, endonuclein	0.08441360102
MALT1 paracaspase	0.06678740195
ring finger protein, transmembrane 2	0.12891536466
folliculin like 3	-0.16552124394
EF-hand calcium binding domain 13	0.13331532612
guanylate binding protein family member 6	-0.4370171776

acyl-CoA synthetase family member 2	0.09166063438
synaptotagmin 1	0.32132485819
TNF receptor superfamily member 10c	-0.17330290126
syntaxin 10	-0.10148201805
pipecolic acid and sarcosine oxidase	-0.09411086888
IQ motif containing N	0.12808229926
inhibitor of nuclear factor kappa B kinase subunit epsilon	-0.08703167523
abhydrolase domain containing 2, acylglycerol lipase	-0.12446855697
BRI3 binding protein	0.07762390108
ZFP36 ring finger protein	-0.12785477627
troponin T1, slow skeletal type	-0.26044771944
CCR4-NOT transcription complex subunit 11	0.05369253009
leukocyte specific transcript 1	-0.13057218296
interleukin 27	-0.31827651372
dual specificity phosphatase 10	-0.10758135669
novel protein	-0.13554325716
abhydrolase domain containing 6, acylglycerol lipase	0.09039199633
ATPase H ⁺ transporting accessory protein 1 like	0.11984931363
cell division cycle 123	-0.08112232936
StAR related lipid transfer domain containing 5	0.14825312409
tumor protein p63	0.26914121007
WD repeat domain 86	0.13796027561
GATA zinc finger domain containing 2A	-0.07458045748
amine oxidase copper containing 2	0.173612112
multiple coagulation factor deficiency 2, ER cargo receptor complex subunit 1	0.07284409185
ADAM metallopeptidase domain 23	0.15819102945
chondroitin sulfate N-acetylgalactosaminyltransferase 1	-0.13639428541
adenosine kinase	0.11065249036
N-acyl ethanolamine acid amidase	0.08847115118
piggyBac transposable element derived 4	0.13049905257
autophagy related 4D cysteine peptidase	-0.08498025477
chromosome 4 open reading frame 19	0.34505732719
torsin family 4 member A	-0.13614252607
bleomycin hydrolase	0.06963067226
zinc finger protein 627	0.07294534807
inosine monophosphate dehydrogenase 2	0.09333636017
MYC binding protein 2	0.08947506326
midnolin	-0.13693137383
leucine rich repeat containing 47	0.06453127061
dual adaptor of phosphotyrosine and 3-phosphoinositides 1	-0.13373374306
guanylate binding protein 5	-0.33810742994
Rho/Rac guanine nucleotide exchange factor 2	-0.06781714228
NOP10 ribonucleoprotein	-0.17033288892
RAB5A, member RAS oncogene family	-0.07928622938
programmed cell death 11	0.06901924522
ribosomal protein S6 kinase A1	-0.1010838486

inositol 1,4,5-trisphosphate receptor interacting protein	-0.13163630035
zinc finger CW-type and PWWP domain containing 1	0.09794769432
cysteinyl-tRNA synthetase 1	-0.06308965199
sushi domain containing 2	0.23922642001
RAB3A interacting protein	-0.11566749106
exosome component 9	0.1171528584
ZFP36 ring finger protein like 2	0.0995737087
DDB1 and CUL4 associated factor 4	0.1005995
zinc finger protein 230	-0.11691101191
mitochondrial amidoxime reducing component 2	0.24801993469
glutamate-cysteine ligase modifier subunit	-0.1015528548
dermatan sulfate epimerase like	0.20867249699
lysophosphatidylglycerol acyltransferase 1	-0.09217540999
dimethylarginine dimethylaminohydrolase 2	-0.1391150969
Rho GTPase activating protein 11A	0.15938752771
lymphocyte cytosolic protein 1	-0.10425633204
CST telomere replication complex component 1	0.07234613979
DOP1 leucine zipper like protein B	0.0783325999
DDB1 and CUL4 associated factor 7	0.04580038584
nucleobindin 1	-0.16040471676
FKBP prolyl isomerase 15	-0.07982891491
mitochondrial ribosome recycling factor	0.07048299467
opioid growth factor receptor like 1	0.13238912474
integrin linked kinase	-0.09700568275
myotubularin related protein 3	-0.10438095276
piezo type mechanosensitive ion channel component 1	0.08548983881
huntingtin interacting protein 1	-0.12296125979
C-type lectin domain family 2 member B	-0.2150119339
thrombospondin type 1 domain containing 1	0.16570930365
potassium voltage-gated channel subfamily Q member 5	0.11371056299
WD repeat and SOCS box containing 1	-0.12019638078
NOP2/Sun RNA methyltransferase 6	0.08374372383
GRB2 related adaptor protein like	0.17483891606
PR/SET domain 15	0.07849753602
tet methylcytosine dioxygenase 2	-0.12741070668
zinc finger and BTB domain containing 47	-0.12950674622
cadherin 2	0.3280879695
gamma-aminobutyric acid type A receptor subunit rho2	-0.21789067673
TNF superfamily member 14	-0.14509102011
solute carrier family 25 member 35	0.09916209356
cytochrome c oxidase assembly factor 1 homolog	0.09315531441
transducer of ERBB2, 1	0.13725334519
BRD3 opposite strand	0.09439715733
cytochrome P450 family 2 subfamily E member 1	0.21293450172
neuronal cell adhesion molecule	0.20113756102
membrane spanning 4-domains A6A	-0.14384710507

valosin containing protein interacting protein 1	-0.11713128351
interleukin 6 receptor	-0.1073378731
SR-related CTD associated factor 4	0.05752747937
methylcrotonoyl-CoA carboxylase 2	0.06821866504
zinc finger protein 589	0.07401254201
G-patch domain containing 4	0.10372196272
serpin family F member 1	0.17227865086
interleukin 1 receptor associated kinase 4	-0.07922745215
TAR (HIV-1) RNA binding protein 1	0.1116896754
kynureninase	-0.14971080105
myosin IE	0.11769871247
zinc finger DHHC-type palmitoyltransferase 14	0.09153289664
CD74 molecule	0.14897213869
regulator of G protein signaling 1	-0.33553261936
2-oxoglutarate and iron dependent oxygenase domain containing 1	0.06512069508
synaptosome associated protein 23	-0.08935180502
outer dense fiber of sperm tails 3B	-0.24370404226
basic leucine zipper ATF-like transcription factor 2	-0.51541778558
ankyrin repeat domain 50	-0.12244120232
plexin D1	-0.11520704083
C-C motif chemokine receptor 1	-0.19104022741
minichromosome maintenance complex component 2	0.14465551313
RAD17 checkpoint clamp loader component	0.0752018649
patatin like phospholipase domain containing 7	0.13762478466
CTD nuclear envelope phosphatase 1 regulatory subunit 1	-0.09074670205
transcription termination factor 2	0.09114977521
carboxypeptidase Q	-0.12118384439
testis specific serine kinase 6	0.14755250468
leptin receptor overlapping transcript like 1	0.0651972858
APC regulator of WNT signaling pathway	-0.09815441192
G kinase anchoring protein 1	0.12099504674
ADP-ribosylserine hydrolase	0.09946950795
F-box protein 38	-0.09709662007
TBC1 domain family member 2	-0.09337089386
maestro heat like repeat family member 6	-0.15733663202
NHL repeat containing 2	0.10384064556
proteasome 26S subunit, non-ATPase 4	-0.08251920278
Sin3A associated protein 30	0.24840128404
myosin light chain 9	-0.36761573714
scavenger receptor class B member 1	0.10184079662
signal induced proliferation associated 1 like 2	-0.20154836702
NBPF member 9	0.10839534252
ATPase H ⁺ transporting V0 subunit d1	-0.11186675669
SLAM family member 7	-0.16137572428
DNA topoisomerase III alpha	-0.06369583744
lysine demethylase 6B	-0.14155072809

mediator complex subunit 11	-0.08428708027
small integral membrane protein 35	0.18423732361
phosphatidylinositol-4,5-bisphosphate 4-phosphatase 2	-0.12028184155
proprotein convertase subtilisin/kexin type 5	-0.09335761615
cadherin like and PC-esterase domain containing 1	0.14922958847
retinoic acid receptor gamma	-0.09638061901
casein kinase 1 alpha 1	-0.05385572197
hexokinase domain containing 1	0.13599960642
zinc finger and SCAN domain containing 9	0.09854425245
SH2 domain containing 3C	-0.08358285128
deoxyribose-phosphate aldolase	-0.07094256493
zinc finger protein 155	0.07658863056
aspartate beta-hydroxylase	-0.18086951236
C2 calcium dependent domain containing 5	0.10445756865
hypoxia inducible factor 1 subunit alpha	-0.10600579391
sorting nexin 16	-0.10970121124
erythroferrone	-0.60239826353
NIPA like domain containing 2	0.08964063794
WD repeat domain 26	-0.08792485629
glutaminyI-peptide cyclotransferase like	0.11093276899
KIAA0232	-0.0842146623
growth factor receptor bound protein 2	-0.08513968467
zinc finger protein 131	0.04970412076
CD300e molecule	-0.18988113645
chromosome 20 open reading frame 204	0.21241135635
F-box protein 41	0.07613950804
Jupiter microtubule associated homolog 2	0.07218645814
suppressor of variegation 3-9 homolog 2	0.17602814786
VPS8 subunit of CORVET complex	-0.082872555
regulator of G protein signaling 19	-0.11559750111
G protein-coupled receptor kinase 6	-0.10085793086
phosphoinositide-3-kinase regulatory subunit 4	0.05691282903
pro-platelet basic protein	-0.28129815879
ankyrin repeat domain 13A	-0.08913974833
protein phosphatase 4 regulatory subunit 1	-0.11919652002
guanylate binding protein 1	-0.3180402186
DEAD-box helicase 56	0.06379944891
WD repeat, sterile alpha motif and U-box domain containing 1	0.09508721189
phosphodiesterase 1B	-0.10144860688
dishevelled associated activator of morphogenesis 1	0.07465253246
solute carrier family 20 member 1	-0.08548060661
sterol O-acyltransferase 1	-0.06647446261
supervillin	-0.11056032138
multiple EGF like domains 6	0.12721278765
activator of HSP90 ATPase activity 1	0.07515830395
cellular repressor of E1A stimulated genes 1	-0.16506894953

FYVE, RhoGEF and PH domain containing 2	0.12526580653
catenin alpha 1	-0.08899872336
zinc finger protein 785	0.0774477369
STE20 like kinase	-0.10713512555
HPS5 biogenesis of lysosomal organelles complex 2 subunit 2	0.07047578229
replication factor C subunit 4	0.11735775671
translocase of outer mitochondrial membrane 40 like	-0.10689631196
niban apoptosis regulator 2	-0.14221883792
sortilin 1	-0.15773026796
URB2 ribosome biogenesis homolog	0.09523471076
decapping mRNA 2	-0.07794678066
glia maturation factor gamma	-0.10258071231
serine/threonine kinase 10	-0.06797011006
adenosine deaminase RNA specific B1	0.0895183438
interleukin 1 receptor associated kinase 1 binding protein 1	0.11177406824
lipin 2	0.11157556091
nucleoporin 205	0.08463867995
proprotein convertase subtilisin/kexin type 7	0.06560231492
TraB domain containing	-0.07037472096
methyltransferase like 7A	0.09915998365
exosome component 10	0.06222784788
bromodomain adjacent to zinc finger domain 2B	-0.1105680565
EPH receptor B4	-0.17435881089
EGF containing fibulin extracellular matrix protein 2	-0.11941236332
solute carrier family 27 member 2	0.20476672973
striatin 4	-0.08115108004
period circadian regulator 3	0.11873490207
aspartate beta-hydroxylase domain containing 2	-0.17385814805
cation channel sperm associated 1	-0.1765934131
forkhead box P1	0.07890858069
thyroid hormone receptor interactor 11	0.0618519102
ETS variant transcription factor 5	0.25824594992
collagen beta(1-O)galactosyltransferase 1	-0.08119068798
actin related protein 10	-0.0727663706
RAB6B, member RAS oncogene family	-0.29464117947
TIMP metalloproteinase inhibitor 2	-0.11179773364
cysteine and serine rich nuclear protein 1	-0.17844985121
serine/threonine/tyrosine kinase 1	0.17586543365
bridging integrator 3	-0.07000009524
galactokinase 1	-0.12734988221
sterol O-acyltransferase 2	0.20527740389
WASP family member 1	-0.18360137272
complement factor H	0.14251028179
WD repeat and SOCS box containing 2	-0.12609641351
zinc metalloproteinase STE24	0.08821672833
chromosome 12 open reading frame 73	0.11498848579

ATPase plasma membrane Ca ²⁺ transporting 4	-0.09699596168
transmembrane protein 11	-0.08749888074
ubiquitin specific peptidase 40	0.08173174242
oxidative stress induced growth inhibitor 1	-0.17243174759
methylcrotonoyl-CoA carboxylase 1	0.06577775841
DNA polymerase eta	0.0632104633
BCL2 like 11	-0.09259915728
ZFP82 zinc finger protein	0.09237889465
nuclear envelope integral membrane protein 1	0.09627888231
noggin	-0.16393902364
ring finger protein 130	-0.07077024614
cell division cycle associated 8	0.16564324148
trans-L-3-hydroxyproline dehydratase	0.10349335096
katanin catalytic subunit A1 like 2	0.19371366509
NudC domain containing 3	0.0534684016
solute carrier family 9 member B1	0.13441361116
OS9 endoplasmic reticulum lectin	-0.07417216375
HSPB1 associated protein 1	-0.09774078766
interleukin 17 receptor C	-0.18806749919
toll like receptor 10	0.13386197315
zinc finger protein 790	0.09132478071
dehydrogenase/reductase 3	-0.09867052192
transmembrane protein 167B	-0.08652094185
zinc finger and BTB domain containing 38	0.09069718649
C-C motif chemokine ligand 3 like 3	0.30774305584
protein tyrosine kinase 2 beta	-0.0822733359
synaptonemal complex protein 2	-0.16377101166
HIV-1 Tat interactive protein 2	-0.0953920124
protein phosphatase 1 regulatory inhibitor subunit 14A	0.22678166694
transmembrane protein 120A	-0.13361320546
syndecan 4	-0.19161422642
ring finger protein 217	-0.1423460868
chromatin target of PRMT1	0.05084501135
exportin 6	-0.11659968651
acyl-CoA oxidase 1	-0.10480287656
solute carrier family 4 member 1 adaptor protein	-0.06490309221
notch receptor 2	-0.10888496906
phosphatase and actin regulator 4	0.06719400546
small integral membrane protein 20	0.08394527959
methyl-CpG binding domain protein 2	-0.06353348439
MCF.2 cell line derived transforming sequence-like 2	0.12483881019
NDRG family member 2	0.10935170881
pleckstrin homology domain containing A7	0.139704991
Ras and Rab interactor 1	-0.15403008786
apolipoprotein L2	-0.14923328635
transporter 1, ATP binding cassette subfamily B member	-0.15662212414

minichromosome maintenance complex component 3	0.07626282926
apolipoprotein L1	-0.21269414714
guanine monophosphate synthase	0.06058494949
phospholipase C delta 1	0.0905857002
acid phosphatase 3	-0.10428800716
N-myc and STAT interactor	-0.12341585888
serpin family I member 1	0.11449448404
muskelin 1	-0.06466772629
dachsous cadherin-related 1	-0.1194028717
MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	0.07884568791
C1q and TNF related 6	0.08568499322
zinc finger MYND-type containing 15	-0.18044511264
nuclear factor, interleukin 3 regulated	-0.15512368817
solute carrier family 8 member A1	-0.16490360281
karyopherin subunit alpha 1	-0.06658763843
major histocompatibility complex, class I-related	-0.08091725119
BRICHOS domain containing 5	0.12276071877
RFT1 homolog	-0.0785968939
choline kinase alpha	0.11212758108
S100 calcium binding protein A11	-0.18637397222
cap binding complex dependent translation initiation factor	-0.09668555548
mitochondrial ribosomal protein S25	0.08849974377
serum response factor	-0.09858937035
importin 5	0.07395552421
peptidylprolyl isomerase F	-0.11602982527
eukaryotic translation initiation factor 4E nuclear import factor 1	0.05153244522
regulator of calcineurin 1	-0.07998228247
cathepsin H	-0.1058946493
leukotriene B4 receptor	-0.10849099047
endosome-lysosome associated apoptosis and autophagy regulator fan	0.11002530388
LDL receptor related protein 10	-0.13111820265
interferon induced transmembrane protein 2	-0.21109580898
kinesin family member 3C	-0.15997556373
NOP2/Sun RNA methyltransferase 2	0.06414057217
jagged canonical Notch ligand 1	-0.12729585204
hook microtubule tethering protein 2	-0.10020502111
FAT atypical cadherin 4	-0.34506499621
F-box protein 45	0.08713769231
calpastatin	-0.06372201324
BRISC and BRCA1 A complex member 2	-0.0616836541
calmin	-0.10533039196
cell death inducing DFFA like effector b	-0.09679815274
cyclin D1 binding protein 1	-0.09565526615
ORAI calcium release-activated calcium modulator 2	-0.11388401299
pyruvate dehydrogenase kinase 1	-0.09090029226
solute carrier family 12 member 2	0.09437217709

LUC7 like 2, pre-mRNA splicing factor	0.06742505113
zinc finger CCCH-type containing 3	-0.09499918252
ICOS ligand	0.21331938072
NIPA magnesium transporter 1	0.08239477211
suppressor of glucose, autophagy associated 1	0.11053297031
nucleoporin 88	0.06766601861
folistatin like 1	-0.25051995012
ribosomal modification protein rimK like family member B	0.11630826461
plexin A2	0.15484077254
prickle planar cell polarity protein 1	0.14428916735
carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and d	0.06809980412
transforming acidic coiled-coil containing protein 3	-0.0828850127
zinc fingers and homeoboxes 3	0.07501204278
NLR family pyrin domain containing 1	0.08404085467
heat shock transcription factor 5	0.14122946164
PHD finger protein 20 like 1	-0.09272472559
ribosomal RNA processing 1	0.08506605769
ABL proto-oncogene 2, non-receptor tyrosine kinase	-0.06917144705
potassium calcium-activated channel subfamily N member 4	0.0911110559
mitogen-activated protein kinase 3	-0.13272913447
LDL receptor related protein 5	0.15839698228
small ArfGAP2	0.1565933515
protein tyrosine phosphatase receptor type S	0.16050570881
myosin IC	0.09246308957
KIAA0930	-0.11350897599
MSL complex subunit 1	-0.1067640651
CRACD like	0.18983680787
transmembrane p24 trafficking protein 1	-0.12153611927
notch receptor 1	-0.11648368307
protein tyrosine kinase 2	0.09048164833
DEAD-box helicase 20	0.06694346495
HEAT repeat containing 1	0.06679652174
DNA cross-link repair 1C	0.04785582649
H2B clustered histone 12	-0.2081677549
protein tyrosine phosphatase non-receptor type 12	-0.08420187183
peptidyl arginine deiminase 4	-0.1774206855
early growth response 1	0.26097165357
thioredoxin	-0.16681560409
cytoplasmic FMR1 interacting protein 1	-0.11555727043
interferon stimulated exonuclease gene 20	0.12379955622
double PHD fingers 2	0.07020450109
phosphatase and actin regulator 1	0.14054323613
ubiquitin conjugating enzyme E2 D4 (putative)	0.08610717436
solute carrier organic anion transporter family member 4C1	-0.16529745318
tRNA splicing endonuclease subunit 34	-0.13198688075
amine oxidase copper containing 3	0.17452490538

TATA-box binding protein	0.05804827724
PBX homeobox interacting protein 1	0.09421839697
lipoic acid synthetase	0.07215470081
chromodomain helicase DNA binding protein 4	0.20084138386
resistin	-0.26850229346
membrane bound O-acyltransferase domain containing 7	-0.12961172869
zinc finger protein 701	0.0608849413
bridging integrator 1	0.0915440375
solute carrier family 19 member 1	-0.11175023339
enolase 1	-0.10828132376
ubiquitin specific peptidase 3	-0.06293703861
solute carrier organic anion transporter family member 4A1	0.20890010616
aminopeptidase puromycin sensitive	-0.06256258693
RAB2B, member RAS oncogene family	-0.11127200812
REST corepressor 1	-0.07988766428
neuraminidase 1	-0.08886324925
zinc finger protein 267	-0.12672623418
zinc finger protein 528	0.10740752467
large 60S subunit nuclear export GTPase 1	0.0620773833
novel transcript	0.14142242472
WD repeat domain 78	0.11764446218
mechanistic target of rapamycin kinase	0.06053795323
microtubule affinity regulating kinase 2	-0.07693732904
translation machinery associated 16 homolog	0.10270524868
zinc finger CCHC-type containing 3	0.06319731332
nuclear GTPase, germinal center associated	0.13308407283
PAT1 homolog 2	0.0916513542
AKT serine/threonine kinase 1	0.08878979147
endoplasmic reticulum protein 29	0.08058265963
periphilin 1	0.05473425362
polyamine modulated factor 1 binding protein 1	0.14301450039
DAB2 interacting protein	0.28869781329
centrosomal protein 19	-0.13506321266
solute carrier family 6 member 12	-0.17329521429
microtubule associated protein 2	0.26239791697
transketolase	-0.12013976263
replication factor C subunit 5	0.07522255409
family with sequence similarity 89 member B	-0.16068207304
Scm polycomb group protein homolog 1	0.06471641601
GTF2I repeat domain containing 2	0.11444542562
NLR family member X1	-0.11550598209
ISY1-RAB43 readthrough	-0.14461175129
RAS related	-0.15460140599
small cell adhesion glycoprotein	0.10438503371
CD40 molecule	0.12706190071
required for meiotic nuclear division 5 homolog B	0.0565513428

KH RNA binding domain containing, signal transduction associated 1	0.04266880458
cytochrome c oxidase assembly factor COX20	0.08074872539
ATP/GTP binding protein like 2	0.13271141064
ubiquitin like with PHD and ring finger domains 1	0.17457119806
DNA damage inducible transcript 4	0.25515310699
WRN RecQ like helicase	0.07417958682
serine peptidase inhibitor, Kunitz type 1	0.13411756603
methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase	0.07858767163
lysosomal trafficking regulator	-0.08351574264
transient receptor potential cation channel subfamily V member 4	-0.22452217787
mannosidase alpha class 2B member 1	-0.07168133975
zinc finger protein 665	0.10989696679
dynein regulatory complex subunit 7	-0.19848102629
KH domain containing 4, pre-mRNA splicing factor	0.05881102965
fibroblast growth factor receptor 1	0.09682309054
UEV and lactate/malate dehydrogenase domains	-0.0547059296
DnaJ heat shock protein family (Hsp40) member C9	0.06906867664
RAS p21 protein activator 2	-0.0738412439
glycerophosphodiester phosphodiesterase domain containing 3	-0.11358087602
component of oligomeric golgi complex 1	0.05843020548
glycine decarboxylase	0.35952261471
phosphoglycerate mutase 1	-0.10086777771
death effector domain containing 2	-0.09868337076
CRK proto-oncogene, adaptor protein	-0.07472785642
glutamyl-tRNA synthetase 2, mitochondrial	0.07032917193
myosin XVI	0.23518251342
adaptor related protein complex 4 subunit beta 1	0.06827653149
negative elongation factor complex member A	0.05361684573
5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase	0.07567837726
DENN domain containing 2A	0.17904864671
cytochrome b5 reductase 4	-0.08116318756
rabaptin, RAB GTPase binding effector protein 1	0.04631514185
poly(ADP-ribose) polymerase family member 9	-0.18052588515
novel transcript, METTL10-FAM53B readthrough	0.1352533841
phosphatase domain containing paladin 1	0.21634390578
G-patch domain containing 11	0.09531630448
novel transcript	0.10790166995
H2B clustered histone 21	-0.16675566058
PARN like, ribonuclease domain containing 1	-0.23103270441
trimethylguanosine synthase 1	0.05238255123
Jrk helix-turn-helix protein	0.0635766586
plasmolipin	0.19906196557
trio Rho guanine nucleotide exchange factor	0.09720480416
integrin subunit alpha 1	-0.14051801773
POU class 5 homeobox 1	-0.16764455855
V-set and transmembrane domain containing 1	-0.13159969239

SMAD specific E3 ubiquitin protein ligase 1	-0.06436705008
natural cytotoxicity triggering receptor 1	-0.16544939326
NIMA related kinase 3	0.10957045648
FA complementation group I	0.09436684107
CD1e molecule	0.23930773781
rogdi atypical leucine zipper	-0.16014412638
LETM1 domain containing 1	0.04948968738
allograft inflammatory factor 1	-0.15448603955
post-glycosylphosphatidylinositol attachment to proteins 6	-0.11375964217
tropomyosin 3	-0.06791347851
insulin like growth factor 2 mRNA binding protein 3	-0.2189727205
interleukin 1 receptor type 1	-0.20061804842
Rho GTPase activating protein 9	-0.09696498215
synaptotagmin like 3	0.11296182238
stromal antigen 1	-0.06841520624
upstream binding protein 1	0.0557828972
ELAV like RNA binding protein 1	0.05010448279
SPOC domain containing 1	-0.29699658061
zinc finger protein interacting with K protein 1	0.10868339593
tumor necrosis factor	-0.13357767836
protein tyrosine kinase 7 (inactive)	0.16018928636
kinesin light chain 2	0.08693632235
transcription factor 7 like 1	0.27205918532
1,4-alpha-glucan branching enzyme 1	-0.07644765906
integrin subunit alpha 2b	-0.28390207388
G protein-coupled receptor kinase 5	0.06254987453
septin 4	-0.41814259612
IMP U3 small nucleolar ribonucleoprotein 4	0.0761106297
G protein-coupled receptor 183	0.12018243454
mitochondrial ribosomal protein L39	0.11013732634
MYC proto-oncogene, bHLH transcription factor	0.09930597645
interleukin 15	-0.14621404507
inhibitor of growth family member 5	0.06356963536
phosphatidylinositol glycan anchor biosynthesis class V	0.06499733775
RAB33B, member RAS oncogene family	-0.12546827939
sterol regulatory element binding transcription factor 1	-0.08060576845
novel protein	-0.14914174186
serine hydrolase like 2	0.22301506542
GTP binding protein 4	0.06212799339
myocardin related transcription factor B	0.07831008469
C-type lectin domain family 12 member B	-0.15685506987
pecanex 2	0.07563763393
novel protein	0.14303320459
DAZ interacting zinc finger protein 3	0.09748756198
transportin 1	-0.07220358481
chaperonin containing TCP1 subunit 6B	0.15671132821

WD repeat domain 5	0.06060336412
zinc finger protein 583	0.10483738805
serine hydroxymethyltransferase 2	0.10136959635
Rho associated coiled-coil containing protein kinase 1	-0.07726752523
trans-golgi network vesicle protein 23 homolog A	0.26969009394
CTP synthase 1	0.07652123188
myocardin related transcription factor A	-0.06248768445
potassium channel tetramerization domain containing 21	-0.08243846091
YTH N6-methyladenosine RNA binding protein 3	-0.07201787312
cathepsin Z	-0.09433150817
NADH:ubiquinone oxidoreductase subunit B3	-0.18966846495
coiled-coil domain containing 32	0.04858509824
activating transcription factor 7 interacting protein 2	0.07730937457
G protein-coupled receptor 135	0.10294444258
A-kinase anchoring protein 5	-0.24411274648
granulin precursor	-0.13674730316
kinesin family member 2C	0.25118672751
diphosphoinositol pentakisphosphate kinase 1	0.08147937749
tubulin alpha 1a	-0.14254078769
ATR interacting protein	0.06648455555
peptidylprolyl isomerase like 2	0.04406247663
CEA cell adhesion molecule 1	-0.2062180584
nei like DNA glycosylase 2	0.08944583089
nitrilase family member 2	0.08630354992
cyclin J like	-0.17033605093
signal peptide peptidase like 2B	0.07476072818
transmembrane protein 123	0.13059178464
terminal nucleotidyltransferase 4A	0.07414654312
TATA-box binding protein like 1	-0.06691383389
monoglyceride lipase	-0.16536210529
centrosomal protein 68	0.06808375919
elaC ribonuclease Z 2	0.06139936045
methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, meth-	-0.13360291641
N-acetyltransferase 10	0.06441244083
RNA polymerase I subunit B	0.0683279721
centlein	-0.11785860832
tripartite motif containing 4	0.04417448954
twinfilin actin binding protein 2	-0.10266250928
tripartite motif containing 47	0.16902227173
coiled-coil domain containing 163	0.13226472813
WW domain binding protein 11	0.06794153836
TUB like protein 3	0.07851062529
coiled-coil domain containing 149	-0.10062229182
methylthioribose-1-phosphate isomerase 1	0.06746448424
NLR family CARD domain containing 5	-0.11142512673
transmembrane anterior posterior transformation 1	0.06795914459

C-terminal Src kinase	-0.08152900061
KAT8 regulatory NSL complex subunit 1	-0.06102073737
hydroxysteroid 17-beta dehydrogenase 4	0.06306373522
EvC ciliary complex subunit 2	0.17399869027
proline rich 11	-0.15253728197
ectopic P-granules autophagy protein 5 homolog	-0.09453918848
CCM2 scaffold protein	-0.0537600434
RAS related 2	0.09332518623
erythroblast membrane associated protein (Scianna blood group)	-0.07210020624
ubiquitin specific peptidase 53	0.11290464109
solute carrier family 26 member 5	0.23092765294
coiled-coil domain containing 57	-0.07581512221
cysteine rich secretory protein LCCL domain containing 2	-0.15243928153
myosin XIX	0.06496155594
H4 clustered histone 5	0.19644180683
centriolin	0.09366536591
inositol 1,4,5-trisphosphate receptor type 3	0.08689387403
family with sequence similarity 168 member B	0.05302031688
glutamine--fructose-6-phosphate transaminase 1	0.05981495499
spectrin beta, non-erythrocytic 4	0.27958216521
MOB kinase activator 3B	-0.09927617465
novel protein, TPD52-MRPS28 readthrough	0.21265461839
F-box protein 9	-0.11708259035
FA core complex associated protein 24	0.15630108953
TBC1 domain family member 3L	-0.12470470721
helicase, lymphoid specific	0.1236884344
chromosome 18 open reading frame 21	-0.09537306209
transmembrane 9 superfamily member 4	-0.05676941371
oxoeicosanoid receptor 1	-0.17115773483
ADAM metallopeptidase with thrombospondin type 1 motif 10	-0.10016133876
transforming growth factor beta receptor associated protein 1	0.05950908089
nudE neurodevelopment protein 1 like 1	-0.09705324425
myosin ID	0.09767871861
RIO kinase 3	-0.13913730917
proteasome 20S subunit beta 4	-0.0773794559
ADP ribosylation factor like GTPase 8A	-0.08586626966
inositol-pentakisphosphate 2-kinase	-0.0622040043
zinc finger protein 83	0.0814915264
solute carrier family 16 member 5	-0.08140097675
mannosidase alpha class 1B member 1	0.05646633578
spermatogenesis associated 24	0.12785789166
zinc finger protein 707	0.06544486908
glucosaminyl (N-acetyl) transferase 1	0.09115067062
kinase suppressor of ras 1	0.09218107747
kelch like family member 36	0.05867174812
patatin like phospholipase domain containing 1	-0.16211589199

C-C motif chemokine receptor 5 (gene/pseudogene)	0.12717717986
URB1 ribosome biogenesis homolog	0.07322351493
DENN domain containing 3	-0.10549788516
translocase of inner mitochondrial membrane 9	0.07844702376
furin, paired basic amino acid cleaving enzyme	-0.14554278728
GM2 ganglioside activator	-0.10459789599
SAS-6 centriolar assembly protein	0.10510058866
aldehyde dehydrogenase 18 family member A1	0.06979082331
BLCAP apoptosis inducing factor	0.03635024342
TNF receptor superfamily member 17	0.32899932929
eukaryotic translation initiation factor 2B subunit epsilon	0.05488180526
succinyl-CoA:glutarate-CoA transferase	0.19373303694
late endosomal/lysosomal adaptor, MAPK and MTOR activator 5	-0.13631346411
novel protein	0.20696761539
INO80 complex subunit E	0.0529820919
small nuclear ribonucleoprotein polypeptide F	0.09262122931
selenoprotein F	-0.07298088941
solute carrier family 40 member 1	-0.13193646243
TNF receptor associated protein 1	0.06641731551
NFKB inhibitor alpha	-0.13951932002
integrator complex subunit 6	-0.0538272626
C-type lectin domain family 12 member A	-0.11795089436
protein tyrosine phosphatase receptor type C	-0.09552985298
Src like adaptor 2	-0.10202923921
round spermatid basic protein 1	-0.08727618303
SH3 domain containing 19	0.24781521754
BMP2 inducible kinase	-0.08421347944
ankyrin repeat domain 44	-0.06755358975
serpin family G member 1	-0.41139575985
prolyl 4-hydroxylase, transmembrane	0.06243264438
interleukin 4 induced 1	-0.19777749446
striatin 3	-0.07939300001
formin like 1	-0.09116620454
ERGIC and golgi 2	-0.10379686164
ras homolog family member G	-0.14855039328
golgin A8 family member B	0.12286393065
IQ motif and Sec7 domain ArfGEF 1	-0.08030972991
zinc finger protein 717	0.07801487506
siah E3 ubiquitin protein ligase 2	-0.20106103602
tripartite motif containing 8	-0.0942187665
leucine rich repeat containing 3	0.15696969071
hydroxysteroid 17-beta dehydrogenase 7	0.07273060184
tectonin beta-propeller repeat containing 1	-0.05935602592
filamin A interacting protein 1 like	0.21942443032
coiled-coil and C2 domain containing 1B	0.04516386376
small integral membrane protein 4	0.07621086291

lectin, mannose binding 2	-0.0701924502
RAB2A, member RAS oncogene family	-0.05049888954
apolipoprotein L6	-0.195578194
WD repeat domain 53	0.06666475171
high mobility group nucleosome binding domain 1	0.08225859028
mitogen-activated protein kinase 1	-0.08111606723
Rho GTPase activating protein 27	-0.06935638432
lactate dehydrogenase A	-0.09747774407
Jupiter microtubule associated homolog 1	-0.12123404402
ubiquitin specific peptidase 37	0.05134192642
pre-mRNA processing factor 4	0.05730455687
retinoid X receptor alpha	-0.09935335415
purinergic receptor P2Y13	-0.10529265251
transmembrane protein 86B	-0.16243945419
lysophosphatidic acid receptor 2	-0.11236303345
interferon regulatory factor 2	-0.08985978606
growth hormone inducible transmembrane protein	-0.08449590636
ring finger protein 220	0.04688610924
alpha kinase 2	0.2689878854
solute carrier family 22 member 13	-0.22302264433
palmitoyl-protein thioesterase 1	-0.08221848134
myosin heavy chain 10	0.18518294259
myocyte enhancer factor 2A	-0.10483942368
ubiquitin specific peptidase 24	0.0717927798
ORMDL sphingolipid biosynthesis regulator 2	-0.08009514494
cyclin and CBS domain divalent metal cation transport mediator 3	0.06470925032
proline rich 5 like	-0.12056835836
argonaute RISC component 4	-0.08746810433
endoplasmic reticulum oxidoreductase 1 alpha	-0.06607760922
adenylate kinase 4	-0.26114038022
RTF1 homolog, Paf1/RNA polymerase II complex component	-0.0575398476
fatty acid desaturase 2	-0.11114907088
lymphocyte transmembrane adaptor 1	0.07901281349
ATPase H ⁺ transporting V1 subunit D	-0.06931506212
nuclear receptor subfamily 1 group D member 2	0.09278031315
DLC1 Rho GTPase activating protein	-0.31067731695
trypsin domain containing 1	0.06220261147
PLAG1 like zinc finger 1	-0.09659236887
ral guanine nucleotide dissociation stimulator like 3	0.21380553674
zinc finger protein 239	0.13560048787
Suv3 like RNA helicase	0.06429430634
integrin subunit beta 1 binding protein 1	0.04738335568
transmembrane p24 trafficking protein 4	0.04132483114
transmembrane protein 9	0.08632367032
chromosome 12 open reading frame 60	0.21736740878
basenuclin 2	-0.22235392235

AHNAK nucleoprotein	0.11112483861
guanylate cyclase activator 1B	0.08009151814
SET domain bifurcated histone lysine methyltransferase 1	-0.05252576812
ring finger protein 169	-0.05715554499
phosphomannomutase 2	0.06369499953
TSC22 domain family member 4	-0.0850511633
jumonji domain containing 6, arginine demethylase and lysine hydroxyl	-0.07110729744
KAT8 regulatory NSL complex subunit 1 like	-0.06624382067
solute carrier family 46 member 3	-0.07020679772
mitochondrial elongation factor 1	0.0603919475
calcium binding tyrosine phosphorylation regulated	0.17886403282
CDC28 protein kinase regulatory subunit 1B	0.14558049617
NAD kinase	-0.1013701647
ecdysoneless cell cycle regulator	0.04377580903
DNA ligase 1	0.06561694645
coenzyme Q4	0.06200074614
coiled-coil domain containing 73	-0.16267593661
interleukin 18 binding protein	0.06901629513
SUMO1 activating enzyme subunit 1	0.05500786335
calpain 14	0.17137455962
ribosomal protein S6 kinase C1	-0.06125803281
trinucleotide repeat containing 18	-0.07404870907
platelet activating factor acetylhydrolase 1b catalytic subunit 2	-0.0558490759
zinc finger protein 276	-0.05769613689
transducer of ERBB2, 2	0.07159388843
chromosome 12 open reading frame 49	0.0618327187
developmental pluripotency associated 4	0.21543520431
ring finger protein 181	-0.10674772166
zinc finger DHHC-type palmitoyltransferase 12	-0.11753723677
cold inducible RNA binding protein	0.05886844694
cyclin D3	0.15213889542
nucleoporin 43	0.05627519342
MYCL proto-oncogene, bHLH transcription factor	-0.13139700665
EEF1A lysine methyltransferase 1	0.08535013902
lysine acetyltransferase 14	0.06455914083
ubiquitin conjugating enzyme E2 D3	-0.07434524958
CCAAT enhancer binding protein alpha	-0.14768718622
zinc finger protein 132	0.11869100085
neuronal vesicle trafficking associated 1	0.09515033807
monooxygenase DBH like 1	0.21438110723
zinc finger protein 284	0.09590224136
testis expressed 2	0.07310529517
myosin light chain 6	-0.14759226053
DNA replication fork stabilization factor DONSON	0.09806441696
major facilitator superfamily domain containing 13A	-0.10783450404
olfactomedin 4	-0.41856209117

X-ray repair cross complementing 3	0.08639059841
STN1 subunit of CST complex	-0.09567499501
neurensin 2	0.18044425984
sarcolemma associated protein	-0.06166921727
collagen type XVII alpha 1 chain	-0.38592045915
SCY1 like pseudokinase 2	-0.07595910258
heat shock protein 90 alpha family class B member 1	0.07743533354
cell cycle and apoptosis regulator 2	0.05125601079
interferon related developmental regulator 1	-0.11276890887
proteasome 20S subunit beta 9	-0.11773685349
novel transcript	0.0955853492
CBFA2/RUNX1 partner transcriptional co-repressor 2	0.04895404106
zinc finger protein 641	-0.05928625129
component of oligomeric golgi complex 8	0.06411204436
zinc finger protein 439	0.09007715527
CKLF like MARVEL transmembrane domain containing 3	-0.08409383323
major histocompatibility complex, class I, F	-0.07348086464
sphingomyelin phosphodiesterase 4	0.0607638089
RAB3A, member RAS oncogene family	-0.13368839807
small nuclear ribonucleoprotein U5 subunit 200	0.05029144754
matrilin 2	0.26083857806
apoptosis enhancing nuclease	0.08909718783
lysine demethylase 2A	-0.06423755438
SH2B adaptor protein 1	0.04954790843
mitogen-activated protein kinase kinase 3	-0.14541310432
Ras association domain family member 2	-0.09038184516
vimentin	-0.10948540986
prolyl 4-hydroxylase subunit alpha 1	-0.05370452911
zinc finger protein 562	0.0517935284
lysosomal associated membrane protein family member 5	0.18469902514
small nuclear ribonucleoprotein U11/U12 subunit 35	-0.04732931807
meteorin like, glial cell differentiation regulator	-0.11904358627
regulatory factor X associated ankyrin containing protein	-0.09651086531
TATA-box binding protein associated factor, RNA polymerase I subunit	0.11450330784
mitotic spindle organizing protein 2A	0.07232124065
peroxiredoxin 3	-0.07561362408
Rho guanine nucleotide exchange factor 11	-0.08379059399
sequestosome 1	-0.0888041513
protein tyrosine phosphatase receptor type N2	0.11828850996
RAB38, member RAS oncogene family	-0.17546630631
H2B clustered histone 18	-0.14827648203
programmed cell death 1	0.13845063524
CXXC motif containing zinc binding protein	0.05587242933
C-X-C motif chemokine receptor 1	-0.15329868348
armadillo repeat containing 8	-0.06212183648
SP140 nuclear body protein like	0.07929300195

NCK associated protein 1	-0.14144402856
GCN1 activator of EIF2AK4	0.06227763553
TATA-box binding protein associated factor 8	0.0909608575
mal, T cell differentiation protein	-0.11449784179
trafficking protein particle complex 6A	0.07818964982
dystrobrevin binding protein 1	-0.07939152675
BTB domain containing 10	-0.07345912347
adducin 2	0.10813644052
CKLF like MARVEL transmembrane domain containing 6	-0.09017728359
transmembrane protein 53	0.10924504108
TLE family member 4, transcriptional corepressor	-0.07294811855
zinc finger protein 154	0.10998879994
ELL associated factor 2	0.100733179
mitochondrial transcription termination factor 4	0.05595246488
ubiquitin like modifier activating enzyme 3	-0.07626339208
KIAA1143	0.06746536397
Rh blood group CcEe antigens	-0.24074253665
AVL9 cell migration associated	-0.05190204358
TNF receptor superfamily member 9	-0.14949289416
transmembrane protein 71	-0.0921878237
ubiquitin protein ligase E3 component n-recognin 2	-0.07812399882
egl-9 family hypoxia inducible factor 1	-0.11355309137
tumor susceptibility 101	-0.0466536257
POM121 transmembrane nucleoporin	0.05600435433
ventricular zone expressed PH domain containing 1	-0.24422747903
DIMT1 rRNA methyltransferase and ribosome maturation factor	0.06624689357
zinc finger CCCH-type containing 7B	0.05752324801
RAB3C, member RAS oncogene family	0.2297103621
F-box and leucine rich repeat protein 2	0.29520382403
selectin P	-0.14897019954
C-X-C motif chemokine receptor 6	0.17820131531
nuclear receptor binding factor 2	-0.12057530634
WD repeat containing planar cell polarity effector	0.06996564791
zinc finger protein 571	0.093578616
ribonucleotide reductase catalytic subunit M1	0.06866344341
radial spoke head 3	0.08611890839
AFG3 like matrix AAA peptidase subunit 2	0.05620550151
chromosome 2 open reading frame 42	0.04642369977
CDC42 effector protein 1	-0.19288009258
RNA binding motif single stranded interacting protein 2	0.08899319144
debranching RNA lariats 1	0.07000153452
ATPase H ⁺ transporting V0 subunit e1	-0.0845704308
DExD/H-box 60 like	-0.1555435965
zinc finger and SCAN domain containing 21	0.08414591564
NOP56 ribonucleoprotein	0.06038347839
programmed cell death 4	0.04785264883

triggering receptor expressed on myeloid cells like 2	-0.12073469045
GRB2 related adaptor protein	0.0884844564
microtubule affinity regulating kinase 3	-0.06619785646
zinc finger DHHC-type containing 1	0.19686307243
zinc finger protein 391	0.12474414576
sorting nexin 9	0.06467289687
NIMA related kinase 6	-0.1025846746
cathepsin B	-0.11918300103
plasminogen receptor with a C-terminal lysine	-0.07656634709
protein tyrosine phosphatase receptor type O	0.12891172843
ATP synthase mitochondrial F1 complex assembly factor 1	0.04919990623
placental growth factor	-0.46710522072
pogo transposable element derived with ZNF domain	0.05463152298
Ras related GTP binding D	-0.10833299494
MYB proto-oncogene like 2	0.22096747903
solute carrier family 26 member 6	-0.1040015167
spectrin alpha, non-erythrocytic 1	0.06915717503
neurotensin receptor 1	-0.72374377476
sialic acid binding Ig like lectin 6	0.56797515432
C-type lectin domain family 4 member F	1.06465203841
sarcospan	0.48576326502
B cell linker	0.34817118644
Fc receptor like A	0.48329828458
matrix metalloproteinase 8	-1.40585035669
TNF receptor superfamily member 13B	0.58134470976
toll like receptor 5	-0.53384009147
protein kinase C and casein kinase substrate in neurons 1	0.47045932613
RAR related orphan receptor C	0.40809214728
Fc receptor like 5	0.46389442429
nuclear factor kappa B subunit 1	-0.17475341802
cordon-bleu WH2 repeat protein like 1	0.36973389593
complement C3	-0.53943648267
polypeptide N-acetylgalactosaminyltransferase 14	-0.69387627009
tudor domain containing 9	-0.60410327779
coiled-coil domain containing 50	0.30103278734
lactotransferrin	-1.07624559538
olfactomedin 4	-1.43081778812
transcription factor 4	0.28088199176
Spi-B transcription factor	0.44322295446
RELB proto-oncogene, NF-kB subunit	-0.32542257785
interleukin 12 receptor subunit beta 2	0.39816987808
G protein-coupled receptor 84	-0.85400993795
SRY-box transcription factor 5	0.6866826488
B cell scaffold protein with ankyrin repeats 1	0.33302086566
major histocompatibility complex, class II, DQ alpha 1	0.33863825542
microsomal glutathione S-transferase 1	-0.34827755026

collagen type IV alpha 4 chain	0.54206372565
INSC spindle orientation adaptor protein	-0.63719656158
interferon lambda receptor 1	0.28016594099
CEA cell adhesion molecule 8	-1.12204833539
pleckstrin homology and RhoGEF domain containing G7	0.61450753789
CD177 molecule	-1.34895973949
lipocalin 2	-0.96323634511
calpain 13	-0.87392616088
DENN domain containing 5B	0.363238356
oxysterol binding protein like 10	0.38688570683
major histocompatibility complex, class II, DO alpha	0.31071801867
defensin alpha 3	-1.23904800236
hexokinase 3	-0.35670145704
aldehyde dehydrogenase 1 family member A2	-0.44816298534
potassium voltage-gated channel subfamily H member 3	-0.3752304339
BAF chromatin remodeling complex subunit BCL11A	0.21961548374
POU class 2 homeobox associating factor 1	0.36189435859
synaptopodin	0.43357465837
collagen type IV alpha 3 chain	0.46768447534
leukocyte receptor tyrosine kinase	0.38601015031
adaptor related protein complex 3 subunit beta 2	-0.75835385127
secretory carrier membrane protein 5	0.47380603439
nuclear factor kappa B subunit 2	-0.24622683429
SWI/SNF related, matrix associated, actin dependent regulator of chro	-0.31401045836
SEL1L family member 3	0.1954454628
serpin family B member 10	-0.80069358724
tetraspanin 13	0.35017100128
CD72 molecule	0.23189057744
carnitine palmitoyltransferase 1A	0.42783806252
leukotriene A4 hydrolase	-0.26044233155
glycoprotein M6A	0.5371376849
mitogen-activated protein kinase kinase kinase 20	-0.32893974604
defensin alpha 4	-1.20354546036
reticulon 2	-0.33273476851
SET binding protein 1	0.22129909869
BLK proto-oncogene, Src family tyrosine kinase	0.3082382421
membrane spanning 4-domains A1	0.40237128149
bactericidal permeability increasing protein	-0.72117946396
phospholipase D family member 4	0.3781860251
kazrin, periplakin interacting protein	-0.35653722638
spermatogenesis and centriole associated 1	-0.52278103899
CEA cell adhesion molecule 6	-1.09338389649
ArfGAP with SH3 domain, ankyrin repeat and PH domain 1	-0.22604488472
methytransferase like 9	-0.28964878295
kringle containing transmembrane protein 1	-0.54759972957
ring finger protein 182	-1.02155342915

tetraspanin 3	0.18504250468
oxidized low density lipoprotein receptor 1	-0.91361872755
C-type lectin like 1	0.34019544084
pyruvate dehydrogenase kinase 4	0.58473051311
Pim-3 proto-oncogene, serine/threonine kinase	-0.27939670151
sphingomyelin phosphodiesterase acid like 3A	-0.30803507436
5-oxoprolinase, ATP-hydrolysing	-0.5004866956
asialoglycoprotein receptor 2	-0.36750375062
basic helix-loop-helix family member e41	0.54654584436
N-ribosyldihyronicotinamide:quinone reductase 2	-0.27868377409
phospholipase B1	-0.3693289706
cytochrome b561	0.28335031286
interleukin 7	0.32287610531
CD79a molecule	0.37516499911
solute carrier family 25 member 20	0.29957562863
adhesion G protein-coupled receptor E1	-0.36516616926
collagen type V alpha 3 chain	0.40452129483
DNA damage induced apoptosis suppressor	-0.35315850977
piwi like RNA-mediated gene silencing 4	-0.28015762913
mitogen-activated protein kinase 14	-0.28723186351
solute carrier family 26 member 8	-0.48058406336
annexin A3	-0.54046147067
HLF transcription factor, PAR bZIP family member	0.38925778626
interleukin 4 receptor	-0.32210842674
U6 snRNA biogenesis phosphodiesterase 1	-0.26162755636
E2F transcription factor 5	0.27327875303
alkaline phosphatase, biomineralization associated	-0.57346667133
integrin subunit alpha M	-0.26238570218
copine 5	0.32017754501
RAB10, member RAS oncogene family	-0.12019848262
folate receptor gamma	-0.37502779406
solute carrier family 2 member 3	-0.33103495101
resistin	-0.57153021421
CD1c molecule	0.35084929697
leukocyte immunoglobulin like receptor A4	0.50587649938
mast cell expressed membrane protein 1	-0.57574044452
GDNF family receptor alpha 2	0.39560642075
Janus kinase 3	-0.21785415926
neuregulin 1	-0.43512163628
C3 and PZP like alpha-2-macroglobulin domain containing 8	-0.29211831257
ring finger protein 207	-0.36931406488
major histocompatibility complex, class II, DQ beta 1	0.25729577712
glycogen phosphorylase L	-0.31013346362
beta-ureidopropionase 1	-0.40830421214
carboxylesterase 1	-0.39735584176
GEN1 Holliday junction 5' flap endonuclease	0.22835452294

cysteine rich transmembrane module containing 1	-0.3522653032
sialic acid binding Ig like lectin 9	-0.22420702225
major histocompatibility complex, class II, DP beta 1	0.2602219885
NLR family apoptosis inhibitory protein	-0.3629546948
ST3 beta-galactoside alpha-2,3-sialyltransferase 2	-0.22468832986
TNF receptor superfamily member 21	0.42296265653
elastase, neutrophil expressed	-0.96926726389
sterol regulatory element binding transcription factor 1	-0.17100744369
carbonic anhydrase 1	-0.96348377527
WEE1 G2 checkpoint kinase	0.25109870279
aldehyde dehydrogenase 2 family member	-0.22724269745
laminin subunit alpha 5	0.27954431471
ADAM metallopeptidase domain 12	0.33213018909
TNF receptor associated factor 3	-0.16081693665
transmembrane O-mannosyltransferase targeting cadherins 1	-0.38929791365
cyclin and CBS domain divalent metal cation transport mediator 4	0.12631536791
protein tyrosine phosphatase non-receptor type 13	0.29372707755
SLAM family member 6	0.16456051039
zinc finger and BTB domain containing 32	0.42429923129
adenosine monophosphate deaminase 3	-0.16776839863
cystatin F	-0.45783294255
myelin protein zero like 1	0.34952633269
STEAP family member 1B	0.2577275138
calcium/calmodulin dependent protein kinase kinase 2	-0.19692832644
zinc finger protein 683	0.39476653982
C-type lectin domain containing 5A	-0.38872796826
folliculin like 3	-0.29908728962
androgen dependent TFPI regulating protein	-0.28180139938
C-C motif chemokine receptor 4	0.26496973931
deoxyribonuclease 1 like 3	0.49949441598
choline phosphotransferase 1	-0.33624048427
prokineticin 2	-0.43315443561
CD19 molecule	0.28572113652
mannose receptor C-type 1	0.47742950749
chondroadherin	0.55646181078
myocyte enhancer factor 2C	0.15697795402
major histocompatibility complex, class II, DQ alpha 2	0.29738151119
mitogen-activated protein kinase kinase kinase kinase 1	0.15906396732
translocator protein	-0.29020208833
ST3 beta-galactoside alpha-2,3-sialyltransferase 4	-0.32015309044
G protein-coupled receptor 19	0.29323577957
solute carrier family 37 member 3	-0.32405794735
signaling lymphocytic activation molecule family member 1	0.18490169438
ADAM metallopeptidase domain 9	-0.22901192851
TNF receptor associated factor 4	0.24166073034
C-C motif chemokine receptor 5 (gene/pseudogene)	0.26881445198

niban apoptosis regulator 3	0.26252997105
Fc fragment of IgA receptor	-0.32247040462
hydroxycarboxylic acid receptor 3	-0.34734394347
transmembrane protein 176A	-0.36141711694
lymphocyte transmembrane adaptor 1	0.16904459163
lysyl oxidase like 1	-0.3320951339
FERM, ARH/RhoGEF and pleckstrin domain protein 2	0.1355127275
leukocyte immunoglobulin like receptor A6	-0.26543341241
LIM domains containing 1	0.11768995309
niban apoptosis regulator 2	-0.26026814574
small integral membrane protein 35	0.34910659081
whirlin	0.27852707975
integrin subunit beta 4	-0.52290692372
dehydrogenase/reductase 13	-0.32400428014
transient receptor potential cation channel subfamily M member 2	-0.27900199539
calcium voltage-gated channel subunit alpha1 E	-0.41404666413
transmembrane protein 176B	-0.33705763949
CDC42 effector protein 3	-0.23950921353
serine incorporator 2	-0.32785878075
CD22 molecule	0.27492369069
paired box 5	0.27193291421
ficolin 1	-0.22017379064
protein kinase C delta	-0.1823468521
CRACD like	0.37134657214
regulator of hemoglobinization and erythroid cell expansion	0.3035152797
CD44 molecule (Indian blood group)	-0.19326148246
transcription elongation factor A3	-0.232205868
dehydrogenase/reductase 9	0.3973771837
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	-0.32076499567
adrenomedullin	-0.41757332347
major histocompatibility complex, class II, DQ beta 2	0.28351370089
semaphorin 4A	-0.23115325075
major histocompatibility complex, class II, DP alpha 1	0.26795713601
interleukin 1 receptor associated kinase 3	-0.31025680542
solute carrier family 12 member 3	0.495511118
tectonin beta-propeller repeat containing 2	-0.25135227959
TNF receptor superfamily member 13C	0.26749729768
S100 calcium binding protein A12	-0.51539174746
fermitin family member 3	-0.19345019201
ubiquitin specific peptidase 28	0.16026477245
cell division cycle associated 7	0.36661294305
afadin, adherens junction formation factor	0.22930211513
AF4/FMR2 family member 3	0.23169249822
mal, T cell differentiation protein	-0.23888458568
NFKB inhibitor zeta	-0.21653811551
heparanase	-0.25699068053

glycophorin B (MNS blood group)	-0.76423740958
Fc receptor like 2	0.31152754306
RAP1 GTPase activating protein	-0.89769921534
tigger transposable element derived 3	0.43185004023
sodium voltage-gated channel alpha subunit 3	0.31479167415
ribonuclease A family member 2	-0.39695453265
syndecan 2	0.54192491951
docking protein 7	0.46152740471
HCK proto-oncogene, Src family tyrosine kinase	-0.18821154771
angiotensin II receptor associated protein	-0.18989178779
clathrin heavy chain like 1	-0.24029182069
major histocompatibility complex, class II, DO beta	0.2533800968
G protein subunit gamma 7	0.21772874904
coagulation factor V	-0.32297501872
haptoglobin	-0.59081608992
chromosome 16 open reading frame 70	-0.11092255495
interleukin 1 receptor associated kinase 2	-0.1816738487
immunoglobulin like domain containing receptor 1	0.46211903889
solute carrier family 25 member 37	-0.32639704468
tubulin beta 2A class IIa	-0.60810975141
Ral GEF with PH domain and SH3 binding motif 2	0.17975485789
DNA damage regulated autophagy modulator 1	-0.15521159317
adhesion G protein-coupled receptor E2	-0.21778745687
ADAM metallopeptidase with thrombospondin type 1 motif 2	-1.32881673159
carbonic anhydrase 6	-0.41372507957
electron transfer flavoprotein dehydrogenase	0.15595906693
ATP binding cassette subfamily A member 13	-0.60047602738
ATP binding cassette subfamily C member 3	-0.28839695689
multiple C2 and transmembrane domain containing 1	-0.18777503049
zinc finger protein 438	-0.24395444319
bone marrow stromal cell antigen 1	-0.21293929704
cysteine rich secretory protein 3	-0.64376671085
pleckstrin 2	-0.64841645185
transmembrane and coiled-coil domains 3	-0.20063965652
marginal zone B and B1 cell specific protein	0.46870266333
activator of transcription and developmental regulator AUTS2	0.19666774695
intercellular adhesion molecule 1	-0.23571538633
musculin	0.38422439253
formyl peptide receptor 3	0.3858425385
kallikrein 1	0.47711121672
latent transforming growth factor beta binding protein 2	-0.29420412455
myeloperoxidase	-0.59176943142
solute carrier family 4 member 10	0.34798424351
glutaminyI-tRNA amidotransferase subunit QRSL1	0.14180967276
F-box protein 9	-0.22091138265
LDL receptor related protein associated protein 1	-0.15286682122

protein tyrosine phosphatase receptor type S	0.28953767592
EBF transcription factor 1	0.29016062212
V-set and transmembrane domain containing 1	-0.24234810265
glutathione peroxidase 3	0.44280170161
pyruvate kinase M1/2	-0.20735125304
G protein subunit alpha 15	-0.2102529225
LIM domain kinase 2	-0.26365125912
flotillin 2	-0.23170149451
GRAM domain containing 1A	-0.17492246812
multiple C2 and transmembrane domain containing 2	-0.24142111679
ezrin	0.10965285297
integrin subunit alpha 2b	-0.51726150799
phospholipase B domain containing 1	-0.22074860126
glycogenin 1	-0.31648650627
phospholipid phosphatase 5	0.17695074541
cytoskeleton associated protein 4	-0.2683795951
fucosyltransferase 8	0.15080401322
prolyl 3-hydroxylase 2	0.51880539093
MICAL like 1	0.16905668605
SRSF protein kinase 1	-0.23177857823
cadherin EGF LAG seven-pass G-type receptor 1	0.25259269265
target of myb1 membrane trafficking protein	-0.15442187629
EMAP like 6	0.30507935337
complement C3a receptor 1	-0.30040516322
rhophilin associated tail protein 1 like	-0.24059986103
MAF bZIP transcription factor G	-0.22163189118
dysferlin	-0.30749463924
cAMP responsive element binding protein 5	-0.23793957962
fibrillin 2	-0.24526644952
folistatin like 4	-0.71388305662
cytokine dependent hematopoietic cell linker	0.29754602823
TNFAIP3 interacting protein 1	-0.22114434333
mast cell immunoglobulin like receptor 1	-0.21378113762
CXXC finger protein 5	0.15793477903
glutaredoxin 5	-0.54348536545
solute carrier family 17 member 9	0.19175132984
C-X-C motif chemokine receptor 6	0.35495246725
RAS guanyl releasing protein 3	0.2162643369
spectrin beta, erythrocytic	-0.67679585187
nucleolar protein 3	-0.27108569806
nuclear GTPase, germinal center associated	0.23848959924
signal transducer and activator of transcription 5B	-0.1659748122
RPGR interacting protein 1	0.29285294058
syndecan 4	-0.31535451274
CD80 molecule	0.42618372475
nuclear prelamin A recognition factor	-0.17008336677

peptidoglycan recognition protein 1	-0.42214253917
gamma-aminobutyric acid type A receptor subunit rho2	-0.35260093121
myosin VC	0.34394407118
family with sequence similarity 151 member B	-0.2140721726
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7	0.39808539453
erythroblast membrane associated protein (Scianna blood group)	-0.13018110137
interleukin 17 receptor A	-0.17344963424
zinc finger protein 697	-0.23059245169
myotubularin related protein 11	-0.23391145751
uridine phosphorylase 1	-0.23302643812
ADP ribosylation factor GTPase activating protein 3	-0.11034603781
zinc finger DHHC-type palmitoyltransferase 19	-0.59403402207
GRAM domain containing 1C	0.43549126096
EPH receptor A4	0.16071946182
fatty acid 2-hydroxylase	0.39217082306
desmoplakin	0.40814268648
MAX interactor 1, dimerization protein	-0.48917155858
zinc finger protein 860	0.42042394397
elastin microfibril interfacer 2	-0.21465507297
splA/ryanodine receptor domain and SOCS box containing 1	0.21460860427
notch receptor 4	0.38791739767
maltase-glucoamylase 2 (putative)	-0.35926134283
selenium binding protein 1	-0.73189471482
N-terminal EF-hand calcium binding protein 1	-1.12213917519
chromosome 8 open reading frame 88	-0.38933690242
aspartate beta-hydroxylase	-0.28903444646
desmocollin 2	-0.28682388424
glutamate ionotropic receptor NMDA type subunit associated protein 1	-0.34831362336
inhibitor of nuclear factor kappa B kinase subunit epsilon	-0.13444678875
integral membrane protein 2C	0.30913692406
solute carrier family 22 member 4	-0.24158454229
solute carrier family 6 member 9	-0.59207765644
prepronociceptin	0.24220407296
interferon regulatory factor 8	0.14961146242
mucolipin 2	0.20452883307
calcium voltage-gated channel auxiliary subunit beta 4	0.44009497223
oocyte secreted protein family member 3	-0.38800076905
MCF.2 cell line derived transforming sequence-like 2	0.20678779799
bisphosphoglycerate mutase	-0.49776234594
KIAA0319	-0.29597960428
KN motif and ankyrin repeat domains 2	-0.56344883553
ring finger protein 10	-0.37947376516
protein phosphatase, Mg2+/Mn2+ dependent 1N (putative)	-0.24514889038
F-box and leucine rich repeat protein 5	-0.16548459664
protein phosphatase 1 regulatory subunit 16B	0.12852352081
macrophage scavenger receptor 1	0.38373730436

5'-3' exoribonuclease 2	-0.12156423818
cytochrome b5 reductase 1	-0.16113249991
chromosome 11 open reading frame 80	0.17000898494
cathelicidin antimicrobial peptide	-0.48578660269
coiled-coil and C2 domain containing 2B	-0.21999130872
CAP-Gly domain containing linker protein 1	-0.12025237872
N-sulfoglucosamine sulfohydrolase	-0.16330429714
lysosomal associated membrane protein family member 5	0.34430928693
acyl-CoA dehydrogenase very long chain	0.12651870692
interferon gamma receptor 2	-0.14745386666
RUN and SH3 domain containing 2	-0.21613484266
plexin C1	-0.18395790327
cathepsin G	-0.82084439089
family with sequence similarity 111 member B	0.3977655591
IKAROS family zinc finger 3	0.12581928752
interleukin 17 receptor E	0.30159664023
lysozyme	-0.21555982053
testis expressed 9	0.25440908925
cut like homeobox 2	0.33841438391
Rh blood group D antigen	-0.43162244208
arachidonate 5-lipoxygenase	-0.18884433891
lamin B1	-0.26135639347
ankyrin repeat and ubiquitin domain containing 1	0.28109409637
S100 calcium binding protein A9	-0.30146794186
complement C3b/C4b receptor 1 (Knops blood group)	-0.2876372564
metal regulatory transcription factor 1	-0.16691914876
ubiquitin specific peptidase 46	0.16486741936
cathepsin A	-0.20810318189
low density lipoprotein receptor class A domain containing 3	-0.23761814825
coronin 2B	0.3461112676
osteoclast associated Ig-like receptor	-0.19182540993
ankyrin repeat domain 9	-0.51594273247
tripartite motif containing 58	-0.64371220703
siah E3 ubiquitin protein ligase 2	-0.35422104021
RNA binding motif single stranded interacting protein 1	-0.09868327595
solute carrier family 41 member 2	0.30997283971
poly(ADP-ribose) polymerase 1	0.11527070856
ATPase phospholipid transporting 9A (putative)	-0.39545127766
vanin 1	-0.31794052043
formin homology 2 domain containing 1	-0.12199058675
suppressor of cytokine signaling 3	-0.40326706767
dual specificity phosphatase 4	0.33291165408
glycerol-3-phosphate acyltransferase 3	-0.18006705016
calmin	-0.16714665554
signal regulatory protein alpha	-0.19141095246
tumor protein p53 inducible nuclear protein 2	0.33975048669

transient receptor potential cation channel subfamily M member 6	-0.25365420975
peptidase inhibitor 3	-0.52916167544
interleukin 23 receptor	0.396690569
tropomodulin 1	-0.55304836783
stromal interaction molecule 2	0.08290594677
low density lipoprotein receptor	-0.2195600499
growth arrest and DNA damage inducible alpha	-0.30376888654
MTSS I-BAR domain containing 1	0.15795771415
NCK associated protein 5 like	-0.15151796811
basic leucine zipper ATF-like transcription factor	-0.16731108952
myosin light chain 9	-0.54838376997
tectonic family member 1	0.19092267434
ArfGAP with GTPase domain, ankyrin repeat and PH domain 3	-0.14227807576
serine carboxypeptidase 1	-0.13888584805
C-type lectin domain containing 9A	0.36697517816
ISL LIM homeobox 2	0.31422121945
Kruppel like factor 1	-0.60860167174
solute carrier family 4 member 1 (Diego blood group)	-0.69231956349
prolyl 4-hydroxylase subunit alpha 2	-0.25070017183
VANGL planar cell polarity protein 1	0.18708462982
transcriptional repressor GATA binding 1	-0.19219405524
zinc finger DHHC-type palmitoyltransferase 23	0.22831153049
erythrocyte membrane protein band 4.2	-0.63917793513
dachshund family transcription factor 1	-0.26237289722
RAB44, member RAS oncogene family	-0.21607624059
guanosine monophosphate reductase	-0.59299483575
hydroxycarboxylic acid receptor 2	-0.27012651591
small glutamine rich tetratricopeptide repeat containing beta	-0.12849332262
tripartite motif containing 10	-0.56757006318
sphingosine-1-phosphate receptor 3	-0.25801187465
integrin subunit alpha X	-0.20200881091
ubiquitin associated protein 1	-0.15497724264
PHD finger protein 21A	-0.16865287712
RAB32, member RAS oncogene family	-0.20522040313
azurocidin 1	-0.64032042567
SH3GL interacting endocytic adaptor 1	-0.58666981863
butyrophilin subfamily 2 member A2	0.13321921036
transmembrane protein 156	0.13797954719
hydrogen voltage gated channel 1	0.13193614698
CD180 molecule	0.20413407485
Fc fragment of IgE receptor Ig	-0.25368025252
cell division cycle associated 7 like	0.17451333052
ribonuclease A family member 3	-0.56741712155
TBC1 domain family member 2	-0.13852874162
oligodendrocyte transcription factor 1	-0.25140647982
Rh blood group CcEe antigens	-0.42943125303

double PHD fingers 3	0.2423967423
G protein-coupled receptor 146	-0.47177815966
proprotein convertase subtilisin/kexin type 5	-0.1398109082
small integral membrane protein 14	0.09383862651
acetylcholinesterase (Cartwright blood group)	-0.72022642477
autophagy related 7	-0.16074444364
RUNX family transcription factor 2	0.15082176768
carboxymethylenebutenolidase homolog	-0.5496865894
sorting nexin family member 21	-0.19906726474
solute carrier organic anion transporter family member 3A1	-0.13762451939
niban apoptosis regulator 1	-0.22379557472
MAX dimerization protein 3	-0.18263097778
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase	-0.29903216611
SH3KBP1 binding protein 1	-0.197435448
mitogen-activated protein kinase kinase 3	-0.25617454071
myomesin 2	0.30513016787
kinesin family member 1B	-0.20590547879
granzyme B	0.35852629018
BAF chromatin remodeling complex subunit BCL7A	0.1822130352
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta	0.15144664024
secernin 1	0.14347171284
protein tyrosine phosphatase receptor type K	0.25341293766
serine palmitoyltransferase small subunit B	0.38803376678
NFKB inhibitor alpha	-0.23324226648
growth differentiation factor 7	0.37067734308
yippee like 1	0.17297829907
hyaluronidase 2	-0.21781006083
collagen type XVII alpha 1 chain	-0.69305891222
flotillin 1	-0.1886784437
phosphatidylglycerophosphate synthase 1	-0.20200639448
family with sequence similarity 210 member B	-0.53613398568
NLR family pyrin domain containing 12	-0.18935814862
interleukin 1 beta	-0.28936778226
acyl-CoA synthetase long chain family member 1	-0.28397615619
complement C3d receptor 2	0.23248330591
acetyl-CoA acyltransferase 2	0.15772566044
alpha hemoglobin stabilizing protein	-0.62820933284
novel protein	-0.42322121177
alanyl aminopeptidase, membrane	-0.24520418735
butyrophilin like 9	0.43555679102
HEPACAM family member 2	-0.6294583227
ring finger and WD repeat domain 3	0.07474150113
carbonic anhydrase 4	-0.30359363774
VPS41 subunit of HOPS complex	0.09833630632
solute carrier family 4 member 3	0.44229264647
LARGE xylosyl- and glucuronyltransferase 1	0.21556982231

transcobalamin 1	-0.37848181833
pleckstrin homology domain containing M3	-0.10715541686
tribbles pseudokinase 2	0.17144576729
nuclear factor, erythroid 2	-0.26491752052
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 1	0.23742731711
dehydrogenase/reductase 7B	-0.10578537685
transmembrane and coiled-coil domain family 2	-0.44623813325
calpain 12	0.19033550996
serpin family B member 1	-0.17942397238
MAPK interacting serine/threonine kinase 1	-0.17108572418
neutrophil cytosolic factor 4	-0.18278240121
UDP-N-acetylglucosamine pyrophosphorylase 1 like 1	-0.14490096518
neural proliferation, differentiation and control 1	0.18362883811
hematopoietic SH2 domain containing	0.21795171135
DSN1 component of MIS12 kinetochore complex	0.14241539893
coagulation factor XIII A chain	-0.29308823676
membrane bound O-acyltransferase domain containing 2	-0.1956778943
solute carrier family 12 member 9	-0.14873440852
NDC80 kinetochore complex component	0.25727692182
ferrochelatase	-0.44713942457
autophagy related 2A	0.21994181094
kelch like family member 2	-0.21989890662
RAB3A interacting protein like 1	-0.57553229488
NLR family CARD domain containing 4	-0.21021970798
insulin like growth factor binding protein 4	0.26906097023
nuclear factor, erythroid 2 like 2	-0.11441384142
prostate androgen-regulated mucin-like protein 1	0.27275755628
zinc finger CCCH-type containing 12C	-0.19458129232
solute carrier family 22 member 16	-0.28942582907
RAR related orphan receptor A	0.14120299405
neural EGFL like 2	-0.19294580485
ETS proto-oncogene 2, transcription factor	-0.17578790791
pro-apoptotic WT1 regulator	0.19598771811
TNF receptor associated factor 5	0.14423521254
killer cell lectin like receptor C1	0.31330304496
killer cell lectin like receptor B1	0.26800778833
oxysterol binding protein 2	-0.57055018192
galectin 3	-0.35459072017
long intergenic non-protein coding RNA 2218	0.30272352928
cytoplasmic FMR1 interacting protein 1	-0.17248969555
monooxygenase DBH like 1	0.3739557913
oncostatin M	-0.34671440231
RIO kinase 3	-0.22223597153
caveolin 1	0.55155651043
syntaxin binding protein 1	-0.18374309949
glutaminyI-peptide cyclotransferase	-0.25077120002

keratin 1	-0.60417934377
epidermal growth factor	-0.40164107913
basic leucine zipper ATF-like transcription factor 3	0.27973345195
amyloid beta precursor protein	-0.12274885508
STE20 related adaptor beta	-0.53957578161
ATP binding cassette subfamily B member 4	0.23065724703
pyridoxal kinase	-0.11748603862
signal peptide peptidase like 2A	-0.09632920521
deleted in azoospermia like	0.4774935528
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta	-0.09938992703
novel protein	-0.23551402675
sideroflexin 5	-0.15077058522
Kell metallo-endoropeptidase (Kell blood group)	-0.50055749366
olfactory receptor family 2 subfamily W member 3	-0.59296195405
OTU deubiquitinase with linear linkage specificity like	-0.12219226535
WD repeat domain 34	0.22875019937
transmembrane protein 121B	-0.22283563483
HtrA serine peptidase 1	-0.42832226232
microtubule associated protein 1 light chain 3 alpha	0.28566289145
transmembrane protein 45B	-0.21311291045
slingshot protein phosphatase 1	-0.15791202567
BAI1 associated protein 3	0.27753123124
ATPase H ⁺ transporting V1 subunit C1	-0.1454350256
biliverdin reductase B	-0.38084473445
solute carrier family 2 member 6	-0.18977305742
pro-platelet basic protein	-0.3950407138
interferon induced protein with tetratricopeptide repeats 1B	-0.56328507966
paternally expressed 10	0.32028301852
EF-hand calcium binding domain 12	-0.19055440308
STEAP4 metallo-reductase	-0.22462478209
cochlin	0.30254064907
glutamate rich 1	-0.11006127277
capping actin protein, gelsolin like	-0.19591731126
proteoglycan 4	0.31688276459
cell adhesion molecule 1	0.26709949303
class II major histocompatibility complex transactivator	0.17275076894
prostate transmembrane protein, androgen induced 1	0.19908603136
WD repeat and FYVE domain containing 3	-0.21324842226
sodium voltage-gated channel beta subunit 1	-0.25369495106
complement C3b/C4b receptor 1 like	-0.28379744031
sorting nexin 3	-0.21306581242
angiopoietin 1	0.3509214409
matrix metalloproteinase 9	-0.42027340526
catenin alpha like 1	-0.36382026075
Rh associated glycoprotein	-0.53865343432
DDB1 and CUL4 associated factor 12	-0.46074937653

follistatin like 1	-0.3579996846
Cbl proto-oncogene B	0.10908743661
transmembrane protein 158 (gene/pseudogene)	-0.49801170242
docking protein 3	-0.2139598603
spectrin alpha, erythrocytic 1	-0.46717481436
methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 7	0.11699856926
pseudouridine synthase 7	0.14266688092
BCL6 transcription repressor	-0.26100228858
TLE family member 1, transcriptional corepressor	0.21171529238
chitinase 3 like 1	0.38045644516
centromere protein F	0.28073106459
perilipin 4	-0.24713779487
ETS transcription factor ERG	-0.45681907883
transmembrane protein 38A	-0.17869714948
Ras protein specific guanine nucleotide releasing factor 1	0.41534425717
suppression of tumorigenicity 14	0.19610360433
epoxide hydrolase 2	-0.16132567218
proteinase 3	-0.74884961385
zinc finger protein 254	-0.18524613435
high mobility group nucleosomal binding domain 4	0.09292328718
G protein-coupled receptor 15	0.28311506854
quiescin sulfhydryl oxidase 2	0.11412835084
hemoglobin subunit delta	-0.57753185476
T cell leukemia/lymphoma 1A	0.24737951125
cathepsin E	-0.55289466284
microtubule affinity regulating kinase 3	-0.10829929388
cytotoxic T-lymphocyte associated protein 4	0.20741735813
insulin like growth factor 2 mRNA binding protein 2	-0.41513261683
quiescin sulfhydryl oxidase 1	-0.14615085724
RAS related 2	0.14560907243
TNF receptor superfamily member 10d	-0.13107359288
TNF superfamily member 15	-0.34208264104
cut like homeobox 1	-0.14645909735
ral guanine nucleotide dissociation stimulator like 4	-0.22918734646
myristoylated alanine rich protein kinase C substrate	-0.2333249706
ADAM metallopeptidase domain 28	0.18925882991
FA complementation group D2	0.10688803095
leucine rich repeat containing 36	0.4342951539
G protein-coupled receptor class C group 5 member B	-0.39347268863
golgi associated kinase 1B	-0.23017113511
solute carrier family 25 member 40	-0.15211808856
F-box and leucine rich repeat protein 13	-0.23260317202
cap binding complex dependent translation initiation factor	-0.13467663477
myosin X	-0.31748849053
TNF alpha induced protein 3	-0.17261790118
interferon regulatory factor 4	0.19318285031

dishevelled binding antagonist of beta catenin 1	-0.35585090294
tensin 1	-0.55529130727
alkaline ceramidase 3	-0.13327583004
synoviolin 1	0.09007859689
sorting nexin 25	0.13205485514
BCL2 like 1	-0.46945964471
integrin subunit alpha 4	0.15064163736
peptidyl arginine deiminase 2	-0.21613223242
integrin subunit beta 2	-0.13439654915
transmembrane serine protease 9	-0.44744266714
vimentin	-0.17437461706
ring finger protein 122	0.15452109615
RNA binding motif protein 38	-0.40560615216
versican	-0.23626826747
ryanodine receptor 1	0.22305821556
tropomyosin 1	-0.1780582129
major facilitator superfamily domain containing 2B	-0.43319773249
kinesin family member C3	-0.24379450508
zinc finger DHHC-type palmitoyltransferase 21	0.183057862
glycophorin A (MNS blood group)	-0.6164698254
shisa family member 7	-0.61245878901
PBX homeobox 1	-0.36790937642
Kruppel like factor 11	0.15476045936
asialoglycoprotein receptor 1	-0.21853299727
synuclein alpha	-0.52824620397
transmembrane protein 63B	-0.19807896182
plasminogen activator, urokinase	-0.32205985729
endothelin converting enzyme 1	-0.15003469415
TAL bHLH transcription factor 1, erythroid differentiation factor	-0.38299142417
histone deacetylase 4	-0.15930317602
NPR3 like, GATOR1 complex subunit	-0.36107618566
timeless circadian regulator	0.14292663477
Kruppel like factor 10	0.18605433493
transmembrane O-mannosyltransferase targeting cadherins 2	-0.17509141993
basal body orientation factor 1	-0.35794730735
TBC1 domain family member 8	-0.20160984934
protein S	-0.32677402687
killer cell immunoglobulin like receptor, two Ig domains and long cytoplasmic tail	0.40414054208
kinesin family member 3C	-0.21932262455
T-box transcription factor 21	0.23260836065
G protein-coupled receptor 25	0.38765463059
zinc finger protein 518B	0.11246179523
amine oxidase copper containing 1	-0.37539592444
dehydrogenase/reductase 3	-0.13827007403
ADP-ribosylserine hydrolase	0.1307640425
transmembrane channel like 5	-0.42822415879

NFKB inhibitor epsilon	-0.17181066248
serpin family F member 1	0.22640277071
programmed cell death 4	0.07518583322
NK3 homeobox 1	0.35693064738
caspase recruitment domain family member 6	-0.18153513451
cellular repressor of E1A stimulated genes 1	-0.22111941213
butyrophilin subfamily 3 member A1	0.15682903544
thioredoxin reductase 1	-0.11341597979
interleukin 1 receptor type 1	-0.28878509869
kelch domain containing 8A	-0.53923746902
phospholipase A2 group VII	-0.25401969421
glycosyltransferase 1 domain containing 1	-0.1826337498
phosphate cytidylyltransferase 1, choline, alpha	-0.10406613329
Y-box binding protein 3	-0.46658543468
abhydrolase domain containing 15	0.11644783906
myosin binding protein H	0.40266577508
CD151 molecule (Raph blood group)	-0.20788383575
TSPY like 1	0.08215249731
transmembrane protein 144	-0.22732875325
cytoplasmic polyadenylation element binding protein 4	-0.16498985633
insulin like 3	-0.22502617739
coiled-coil domain containing 167	0.15538271513
isthmin 1	-0.22141798124
RFX family member 8, lacking RFX DNA binding domain	0.30083217919
proprotein convertase subtilisin/kexin type 6	-0.33571420915
histamine receptor H2	-0.19828141693
RFT1 homolog	-0.10649558405
cytochrome P450 family 46 subfamily A member 1	0.31597263836
transmembrane protein 163	0.27636756285
ankyrin 1	-0.44398360861
secretory leukocyte peptidase inhibitor	-0.37129824131
fibroblast growth factor receptor 1	0.13737249299
EH domain binding protein 1 like 1	-0.12999997156
microtubule crosslinking factor 1	0.30825116824
sphingomyelin synthase 2	-0.20651899736
contactin associated protein 1	0.19180199735
enolase 1	-0.14987140125
solute carrier family 25 member 44	-0.15222823679
procollagen-lysine,2-oxoglutarate 5-dioxygenase 2	-0.40611596715
galectin 2	-0.25082128902
family with sequence similarity 228 member B	-0.09564545317
WNK lysine deficient protein kinase 2	0.34290331857
solute carrier family 25 member 42	0.10387329458
solute carrier family 8 member B1	-0.07910758913
transmembrane protein 135	0.12186039368
transmembrane protein 185B	-0.12601612556

Cdk5 and Abl enzyme substrate 2	0.12694751743
DnaJ heat shock protein family (Hsp40) member C5	-0.1020449139
neurocalcin delta	0.15523295531
POC1 centriolar protein B	-0.11488370897
interleukin 2 receptor subunit beta	0.20644932561
derlin 3	0.28722071199
leukocyte immunoglobulin like receptor A5	-0.25448995328
transgelin	0.14918564197
fumarylacetoacetate hydrolase	-0.17023222488
nuclear factor I X	-0.4228567656
ribonuclease H2 subunit B	0.12022330613
transmembrane protein 260	-0.14675789211
hepsin	-0.36538306514
replication factor C subunit 3	0.12514850253
CCR4-NOT transcription complex subunit 6 like	0.08534796835
CDK5 regulatory subunit associated protein 2	-0.14374987548
transcription termination factor 1	0.0846524035
clusterin	-0.3729401966
cortactin binding protein 2	0.47195723534
thioredoxin interacting protein	0.17428418869
WD repeat domain 26	-0.11339332997
UTP6 small subunit processome component	0.10014566753
perilipin 5	-0.21016956303
DNA polymerase eta	0.08394160595
SET binding factor 2	-0.15141285016
N-acetylneuraminate pyruvate lyase	-0.14680634605
triggering receptor expressed on myeloid cells like 1	-0.40352570934
protein phosphatase 1 regulatory subunit 3B	-0.20675089961
3-ketodihydrosphingosine reductase	0.10617943861
ring finger protein 11	-0.23847691657
dematin actin binding protein	-0.48096574781
intelectin 1	-0.52762801096
CD36 molecule	-0.20751061762
ADAM metallopeptidase domain 8	-0.13609846773
multimerin 1	-0.29227649837
adiponectin receptor 1	-0.38513266303
glutamic--pyruvic transaminase 2	0.22357538916
golgi associated, gamma adaptin ear containing, ARF binding protein 2	0.0818245777
tetratricopeptide repeat domain 9	0.13708680281
BLM RecQ like helicase	0.13297653017
homer scaffold protein 3	-0.18117382789
caspase recruitment domain family member 11	0.10861463952
steroid 5 alpha-reductase 1	-0.1248577647
abhydrolase domain containing 12B	-0.40489133324
ventricular zone expressed PH domain containing 1	-0.34909734061
cAMP regulated phosphoprotein 19	0.08814763426

claudin domain containing 1	0.12477589384
CDC28 protein kinase regulatory subunit 1B	0.22139359877
inositol polyphosphate-5-phosphatase F	0.11476269491
major histocompatibility complex, class II, DR alpha	0.19578273117
ITPRIP like 1	0.18771590396
ankyrin repeat domain 50	-0.15084604734
dual specificity tyrosine phosphorylation regulated kinase 4	0.29061429471
fatty acid hydroxylase domain containing 2	-0.42123133838
discs large MAGUK scaffold protein 5	0.20948391892
solute carrier family 38 member 11	0.22266021047
solute carrier family 36 member 1	-0.14154201287
pleckstrin homology and RhoGEF domain containing G1	0.1876556778
ankyrin repeat domain 33B	-0.1630369507
nei like DNA glycosylase 1	0.1682304372
interleukin 12 receptor subunit beta 1	0.12360001611
apolipoprotein B mRNA editing enzyme catalytic subunit 3G	0.14428673517
mitogen-activated protein kinase kinase 6	-0.17432401628
cathepsin B	-0.18111904095
kinesin family member 5C	0.14902503379
RAD23 homolog B, nucleotide excision repair protein	-0.11008482994
tumor associated calcium signal transducer 2	-0.40204877842
homocysteine inducible ER protein with ubiquitin like domain 1	0.08941890837
RAB6B, member RAS oncogene family	-0.36598575945
pipecolic acid and sarcosine oxidase	-0.11231293097
zinc finger protein 274	0.08015872136
major histocompatibility complex, class II, DR beta 1	0.17667339041
G protein-coupled receptor 68	0.16257590556
solute carrier family 2 member 14	-0.30661820957
kelch like family member 14	0.25319266044
perforin 1	0.25163741954
solute carrier family 9 member A1	-0.12780101074
myosin phosphatase Rho interacting protein	0.09773163446
heparin binding growth factor	-0.2674469259
WD repeat domain 77	0.10609825055
tripartite motif containing 7	-0.22706461892
MET transcriptional regulator MACC1	0.30253387703
CD14 molecule	-0.21496876154
nudix hydrolase 4	-0.14440284326
anoctamin 10	-0.12884021128
leucine rich repeat neuronal 3	-0.1889127344
TBC1 domain family member 30	0.17731584298
FA complementation group I	0.12833892018
interleukin 18 binding protein	0.09941429136
hook microtubule tethering protein 2	-0.12883157873
EPH receptor B3	-0.33520109324
minichromosome maintenance complex component 4	0.19051160077

dynein axonemal heavy chain 8	0.31762636639
lactamase beta	-0.14174189834
activin A receptor type 1B	-0.1305163777
pyrin and HIN domain family member 1	0.16613835527
minichromosome maintenance complex binding protein	-0.09544388201
rabaptin, RAB GTPase binding effector protein 2	0.09945886809
membrane spanning 4-domains A3	-0.37953987777
CCAAT enhancer binding protein epsilon	-0.29281678709
immunoglobulin lambda like polypeptide 5	0.259043006
hexokinase 1	-0.14344668064
sialic acid binding Ig like lectin 15	-0.23953057356
MAF bZIP transcription factor	0.14503833558
adipocyte plasma membrane associated protein	-0.18571519197
spermatid perinuclear RNA binding protein	0.12775768869
PR/SET domain 8	0.12429982657
protein kinase cAMP-dependent type II regulatory subunit beta	-0.29904959171
kinesin family member 11	0.25204494568
Rho guanine nucleotide exchange factor 12	-0.26416914496
stabilin 1	-0.19493225716
beta-1,3-galactosyltransferase 2	0.29328935955
erythroferrone	-0.72569826821
small integral membrane protein 1 (Vel blood group)	-0.48118386772
KIAA0825	-0.18327596017
zinc finger protein 791	0.06566029581
Ras association domain family member 4	-0.14258401472
thyroid hormone receptor interactor 13	0.3663696466
aquaporin 3 (Gill blood group)	0.15567733125
arginase 2	-0.38211160834
secreted protein acidic and cysteine rich	-0.36493081698
glycine amidinotransferase	0.18925717911
SID1 transmembrane family member 2	0.11272167185
Jun proto-oncogene, AP-1 transcription factor subunit	0.19549041172
lin-7 homolog A, crumbs cell polarity complex component	-0.14415257241
RAB27A, member RAS oncogene family	-0.10441562882
oxysterol binding protein like 3	0.10253728391
radial spoke head component 9	-0.35483648417
VENT homeobox	-0.17445738386
acetyl-CoA acyltransferase 1	-0.08914904826
ubiquitin specific peptidase like 1	0.10561967039
transmembrane protein 268	0.16885483771
guanylate binding protein family member 6	0.45624057273
chromosome 19 open reading frame 38	-0.14622834866
steroid receptor RNA activator 1	-0.11019647256
CD82 molecule	-0.15682235291
sulfatase modifying factor 1	-0.09908063509
dual specificity phosphatase 3	-0.17472433179

minichromosome maintenance complex component 5	0.09916418053
glycoprotein VI platelet	-0.2955364863
phosphogluconate dehydrogenase	-0.18438804507
transient receptor potential cation channel subfamily V member 4	-0.27856405363
secreted frizzled related protein 2	-0.5288530744
zinc finger CCCH-type containing, antiviral 1 like	0.32497934708
complement C1r subcomponent like	-0.12187623643
solute carrier family 66 member 2	-0.15825536209
makorin ring finger protein 1	-0.26766851802
ring finger protein 157	-0.13388915607
patatin like phospholipase domain containing 1	-0.21275685338
DNA polymerase beta	0.15663636612
potassium two pore domain channel subfamily K member 10	0.43937612209
kelch like family member 5	-0.09215880883
family with sequence similarity 104 member A	-0.24816284848
cell cycle progression 1	-0.13986561346
galectin 12	-0.22211074107
heparan sulfate-glucosamine 3-sulfotransferase 1	0.26163959169
eukaryotic translation initiation factor 2 alpha kinase 1	-0.24192348028
cell division cycle associated 8	0.20565973849
chitinase 1	-0.25339988643
checkpoint kinase 1	0.27480248557
granulin precursor	-0.18305955668
SP140 nuclear body protein	0.18349631336
major histocompatibility complex, class II, DR beta 5	0.17048870851
PX domain containing serine/threonine kinase like	-0.13822068787
nicotinamide nucleotide adenylyltransferase 1	-0.09889878522
DLG associated protein 5	0.41387498047
novel protein	-0.22118069821
C-type lectin domain family 4 member C	0.26131297316
ATPase secretory pathway Ca ²⁺ transporting 2	-0.36086243782
ubiquitin specific peptidase 12	-0.16254556529
rhotekin	0.29223066751
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation prc	0.08494700517
collagen type XXVI alpha 1 chain	0.44106679631
Rho GTPase activating protein 17	0.09849269468
prostaglandin I2 receptor	-0.17871582549
brain enriched myelin associated protein 1	0.32503578015
SH2 domain containing 2A	0.17911381554
prostaglandin E receptor 4	0.13981819964
pentraxin 3	-0.31292089047
PBX homeobox interacting protein 1	0.1187317611
isocitrate dehydrogenase (NADP(+)) 1	-0.11559030625
ribosomal RNA processing 12 homolog	-0.13940001398
hydroxymethylbilane synthase	-0.26740203177
microtubule associated serine/threonine kinase family member 4	-0.15704196608

SDE2 telomere maintenance homolog	0.12171703853
ornithine aminotransferase	-0.13193643343
zinc finger DHHC-type palmitoyltransferase 20	-0.12409819836
tyrosylprotein sulfotransferase 2	-0.11478226292
BRCA2 DNA repair associated	0.23318782524
EvC ciliary complex subunit 2	0.23069905792
ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	-0.10059000498
glycerophosphodiester phosphodiesterase domain containing 5	0.11264915597
solute carrier family 2 member 1	-0.1674897005
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1A	-0.17370630314
ribonucleotide reductase catalytic subunit M1	0.09748778114
BCL3 transcription coactivator	-0.20830971273
pyruvate dehydrogenase phosphatase regulatory subunit	0.06084852318
zinc finger DHHC-type palmitoyltransferase 2	-0.14087624637
G1 to S phase transition 1	-0.2930439093
sterile alpha motif domain containing 4A	0.27316807952
alpha kinase 3	-0.21130546347
NEDD4 like E3 ubiquitin protein ligase	-0.24465164961
terminal nucleotidyltransferase 5C	-0.35895712551
GRB2 associated binding protein 1	0.13701469445
UDP-N-acetylglucosamine pyrophosphorylase 1	0.1368677782
NOP2/Sun RNA methyltransferase family member 7	-0.22757008648
ribose 5-phosphate isomerase A	-0.20437877118
killer cell lectin like receptor D1	0.1919152802
SH3 domain binding glutamate rich protein like 2	-0.31124091905
RNA polymerase I and III subunit D	-0.14664597898
Ras suppressor protein 1	-0.08831378566
transcription factor Dp-1	-0.18610885048
protein phosphatase 4 regulatory subunit 2	-0.12462787427
glucosylceramidase beta	-0.13502149886
jade family PHD finger 1	0.09744483922
apolipoprotein B mRNA editing enzyme catalytic subunit 3H	0.22221022697
jade family PHD finger 2	0.09842519166
tetraspanin 5	-0.2619544899
sterol regulatory element binding transcription factor 2	-0.08825352759
exostosin glycosyltransferase 1	-0.17607751798
exosome component 4	-0.22511978807
TBC1 domain family member 22B	-0.12165030686
TOG array regulator of axonemal microtubules 2	0.18933599576
cyclin F	0.17320839875
PTEN induced kinase 1	-0.21397542672
dual specificity phosphatase 10	-0.12024387941
kelch domain containing 8B	0.22201979734
glutamate-cysteine ligase modifier subunit	-0.11525328464
patatin like phospholipase domain containing 2	-0.16845081988
HPS1 biogenesis of lysosomal organelles complex 3 subunit 1	-0.1482250619

major histocompatibility complex, class II, DM beta	0.14265043024
base methyltransferase of 25S rRNA 2 homolog	-0.0950206433
cytochrome P450 family 26 subfamily B member 1	-0.33552262278
TBC1 domain family member 3L	-0.1586652406
two pore segment channel 1	-0.12188529065
granulysin	0.25265045496
fragile histidine triad diadenosine triphosphatase	-0.13641028872
USP6 N-terminal like	0.10360982709
dishevelled associated activator of morphogenesis 1	0.08881417074
centrosomal protein 128	0.12251021788
platelet factor 4 variant 1	-0.34358258794
PDZK1 interacting protein 1	-0.44252799298
adenosine deaminase	0.12963287128
aquaporin 1 (Colton blood group)	-0.46778931098
solute carrier family 51 subunit alpha	-0.30484449604
hemogen	-0.36963072317
cyclin dependent kinase inhibitor 2D	-0.18881640131
ankyrin repeat domain 34B	-0.27909212667
cation channel sperm associated 1	-0.20219891289
JAZF zinc finger 1	-0.12237061196
B and T lymphocyte associated	0.14181319266
hedgehog acyltransferase	0.13361252523
small integral membrane protein 5	-0.31733001619
apolipoprotein B mRNA editing enzyme catalytic subunit 3F	0.13778352262
solute carrier family 16 member 6	-0.1000537798
solute carrier family 22 member 23	-0.13388577968
RAD23 homolog A, nucleotide excision repair protein	-0.21388446567
RAB GTPase activating protein 1 like	0.0840720643
chromosome 1 open reading frame 116	-0.39897066028
chromosome 12 open reading frame 75	0.12698552129
carbohydrate sulfotransferase 13	-0.17672124836
RCC1 and BTB domain containing protein 2	-0.11445045982
ST6 beta-galactoside alpha-2,6-sialyltransferase 1	0.06831560357
pleckstrin homology and RhoGEF domain containing G3	0.15388684943
mono-ADP ribosylhydrolase 2	0.34432667001
DENN domain containing 5A	-0.11808504566
thymocyte selection associated high mobility group box	0.12627776415
membrane spanning 4-domains A6A	-0.16520421661
TNF receptor superfamily member 11a	0.21400526617
family with sequence similarity 117 member A	-0.15236066094
p53 apoptosis effector related to PMP22	0.22234151498
RUN domain containing 3A	-0.4651309151
family with sequence similarity 126 member B	-0.16105835367
short transmembrane mitochondrial protein 1	-0.17767982468
Fc receptor like 3	0.13656524852
sterile alpha motif domain containing 14	-0.39779060595

RWD domain containing 4	0.10236972499
vav guanine nucleotide exchange factor 2	0.11073962524
signal transducing adaptor family member 1	0.15579486412
eomesodermin	0.16296533962
androgen induced 1	-0.11490112298
putative homeodomain transcription factor 2	0.10864887512
TNF alpha induced protein 6	-0.3024447079
transmembrane 9 superfamily member 4	-0.07267333555
tumor protein p53 inducible protein 11	-0.21406523252
cyclin and CBS domain divalent metal cation transport mediator 3	0.08505191979
novel protein	-0.15041431435
replication factor C subunit 5	0.09413449709
regulatory factor X2	-0.21944958043
chromosome 9 open reading frame 78	-0.31811151802
latent transforming growth factor beta binding protein 1	-0.29233038985
transmembrane protein 86B	-0.21255175852
lipase C, hepatic type	-0.13623593532
joining chain of multimeric IgA and IgM	0.42122738372
nescient helix-loop-helix 1	-0.20619005125
solute carrier family 14 member 1 (Kidd blood group)	-0.21076517499
dual specificity phosphatase 5	0.2183519065
neogenin 1	0.13680261054
BEN domain containing 4	0.23174323006
CFAP97 domain containing 2	-0.16175754659
growth factor receptor bound protein 10	-0.30053896012
striated muscle enriched protein kinase	-0.17559054285
late endosomal/lysosomal adaptor, MAPK and MTOR activator 1	-0.10129323657
Rap guanine nucleotide exchange factor 5	0.35709745198
EF-hand domain containing 1	0.11537732367
calpastatin	-0.07608824702
TatD DNase domain containing 3	0.09876701361
non-SMC condensin II complex subunit H2	0.09369586844
eukaryotic translation initiation factor 2 alpha kinase 3	0.08831539754
sestrin 3	-0.15103894297
suppressor of cytokine signaling 2	-0.13052734151
interferon induced protein with tetratricopeptide repeats 1	0.55572832927
thrombospondin type laminin G domain and EAR repeats	0.35492838865
family with sequence similarity 81 member A	0.23607001275
ABO, alpha 1-3-N-acetylgalactosaminyltransferase and alpha 1-3-galac-	-0.19393265057
ubiquitin conjugating enzyme E2 D1	-0.14765548373
interferon alpha and beta receptor subunit 1	-0.11792052504
troponin T1, slow skeletal type	-0.27023742669
mannose receptor C type 2	-0.32107131698
decaprenyl diphosphate synthase subunit 1	-0.13596050321
SH3 domain containing GRB2 like, endophilin B1	-0.12460559823
hydroxyacylglutathione hydrolase	-0.23577829864

cytokine inducible SH2 containing protein	-0.15741355594
phosphatidylinositol specific phospholipase C X domain containing 2	0.13572014959
myotubularin related protein 12	0.08499230392
proline rich transmembrane protein 4	-0.44697150572
Rab interacting lysosomal protein	-0.31176740412
NPC intracellular cholesterol transporter 1	0.08890318645
kinesin family member 18A	0.31033416902
hemoglobin subunit theta 1	-0.4510050288
inosine monophosphate dehydrogenase 1	-0.13304629436
mitogen-activated protein kinase kinase kinase 14	0.07077331663
BORCS8-MEF2B readthrough	-0.11850353224
zinc finger DHHC-type palmitoyltransferase 3	-0.09845580471
GIT ArfGAP 2	-0.07025053125
BCL2 like 13	-0.09123049799
enhancer of zeste 2 polycomb repressive complex 2 subunit	0.1324595033
vesicle transport through interaction with t-SNAREs 1B	-0.15013603561
ring finger protein 123	-0.17478733425
lymphotoxin beta receptor	-0.1290787878
teashirt zinc finger homeobox 3	-0.14083905923
dermatan sulfate epimerase	-0.09535281647
chromosome 9 open reading frame 40	-0.13697327649
villin 1	-0.32638897722
putative homeodomain transcription factor 1	-0.1532919987
zinc finger protein 532	0.1204232856
centromere protein N	0.16440896992
prolylcarboxypeptidase	-0.10312854114
pyruvate carboxylase	-0.16912942156
kelch repeat and BTB domain containing 8	0.17386268655
aminopeptidase puromycin sensitive	-0.07502034756
LY6G6F-LY6G6D readthrough	-0.30933453039
embryonic ectoderm development	0.08114859824
family with sequence similarity 160 member A2	-0.1051541199
BTB domain containing 11	0.11738538209
homeobox C4	0.21653272763
phorbol-12-myristate-13-acetate-induced protein 1	0.21697847839
SREBF chaperone	0.10263227219
SRR1 domain containing	-0.2024802921
phosphoinositide-3-kinase regulatory subunit 4	0.06417606355
potassium inwardly rectifying channel subfamily J member 15	-0.20674749773
ArfGAP with FG repeats 2	0.10306123949
perilipin 3	-0.15338665993
establishment of sister chromatid cohesion N-acetyltransferase 2	0.33518046887
APC down-regulated 1	-0.25983728435
Fc fragment of IgG receptor IIa	-0.15302614052
zinc finger protein 93	0.11909887973
tripartite motif containing 27	0.07784639572

katanin catalytic subunit A1 like 1	0.12668283671
ATPase Na ⁺ /K ⁺ transporting subunit beta 2	-0.43357944665
amyloid beta precursor protein binding family B member 3	-0.10327899285
potassium voltage-gated channel subfamily H member 8	0.21400849873
macrophage receptor with collagenous structure	-0.24466612553
selectin P	-0.19347801585
1-acylglycerol-3-phosphate O-acyltransferase 2	-0.13057872517
zinc finger CCCH-type containing 12D	0.10695408839
tetraspanin 9	-0.24647491858
solute carrier family 2 member 8	0.17965251163
fibronectin type III domain containing 3B	-0.13610137201
amyloid beta precursor protein binding family B member 1 interacting pi	-0.11413269436
S100 calcium binding protein A8	-0.31593448978
brain abundant membrane attached signal protein 1	-0.22442442609
leucine rich melanocyte differentiation associated	-0.23197790628
transglutaminase 2	-0.37942519442
complement C1q A chain	0.3679019569
dolichyl-phosphate mannosyltransferase subunit 2, regulatory	-0.31521195291
opioid growth factor receptor like 1	0.14514008393
nicotinamide phosphoribosyltransferase	-0.18508697594
CD58 molecule	-0.1017516957
harakiri, BCL2 interacting protein	0.31313745426
trafficking kinesin protein 2	-0.14785419973
G protein nucleolar 1 (putative)	0.07554582492
RELT like 1	0.18820046446
Rho guanine nucleotide exchange factor 4	0.21705167452
interleukin 1 receptor antagonist	-0.25961306538
tripartite motif containing 25	-0.16081507186
N-acetyltransferase domain containing 1	-0.20626753083
novel protein	-0.27949781365
C-type lectin domain containing 17A	0.15952795543
membrane associated ring-CH-type finger 8	-0.27008106279
mitogen-activated protein kinase 13	-0.13852731318
dachsous cadherin-related 1	-0.14765283972
galectin 9B	0.33706741973
solute carrier family 24 member 4	-0.14525197506
speedy/RINGO cell cycle regulator family member A	-0.16697913678
ring finger protein 114	0.07728711268
RAN binding protein 10	-0.19639036087
eukaryotic translation initiation factor 1B	-0.18638458398
SAM domain, SH3 domain and nuclear localization signals 1	-0.21161435913
CD74 molecule	0.16422160746
TNF receptor superfamily member 17	0.42915079936
DDB1 and CUL4 associated factor 6	-0.09769939688
thromboxane A2 receptor	-0.20393882678
tissue specific transplantation antigen P35B	-0.2822036992

cell division cycle 20	0.41387468614
myocyte enhancer factor 2A	-0.1329632564
integrin subunit alpha 7	-0.3685184207
DnaJ heat shock protein family (Hsp40) member A4	-0.15988237069
novel protein, WDFY1-AP1S3 readthrough	0.17646971619
protocadherin 9	0.22519375538
EMI domain containing 1	-0.3457448366
vav guanine nucleotide exchange factor 1	-0.08898577904
exonuclease 5	0.16142945469
SRY-box transcription factor 13	0.15854446069
chloride intracellular channel 5	0.13005286562
docking protein 4	-0.24123051895
leukocyte immunoglobulin like receptor B3	-0.1397219437
centrosomal protein 55	0.35295920656
collagen beta(1-O)galactosyltransferase 1	-0.09102154183
protein-L-isoaspartate (D-aspartate) O-methyltransferase	-0.09586226551
killer cell immunoglobulin like receptor, three Ig domains and long cytop	0.25776119445
glycoprotein IX platelet	-0.33661579102
zinc finger SWIM-type containing 6	-0.11282301703
zinc finger DHHC-type palmitoyltransferase 14	0.10052891263
TBC1 domain family member 9	0.12239966234
tescalcin	-0.31589756136
TPX2 microtubule nucleation factor	0.2901948738
galactosidase beta 1 like 2	0.23604403312
regulator of cell cycle	-0.14545729808
histone deacetylase 7	-0.08231900347
platelet endothelial aggregation receptor 1	-0.28791464297
mannosidase alpha class 1C member 1	-0.11088801353
adhesion G protein-coupled receptor D1	-0.19124679115
stomatin	-0.18422314945
serpin family A member 1	-0.15137731528
5'-nucleotidase domain containing 4	-0.22585626556
Yip1 domain family member 1	-0.09940280983
adhesion G protein-coupled receptor G5	0.13655325422
galactokinase 1	-0.14036033564
spermatogenesis associated serine rich 2 like	0.34967556285
BLCAP apoptosis inducing factor	0.04457594545
kinesin light chain 3	-0.42106051055
coiled-coil domain containing 149	-0.12002491148
glyceraldehyde-3-phosphate dehydrogenase	-0.16111482767
interferon stimulated exonuclease gene 20	0.14266049689
hexosaminidase subunit beta	-0.08140938538
MYB proto-oncogene like 2	0.29804218813
small integral membrane protein 24	-0.42613158418
lymphocyte antigen 6 family member E	0.35497986429
novel protein, POLA2-CDC42EP2 readthrough	0.16742154278

poly(ADP-ribose) polymerase family member 15	0.14285721804
FA complementation group M	0.11406364142
huntingtin interacting protein 1 related	0.10983909065
T cell activation RhoGTPase activating protein	0.12530782783
solute carrier family 2 member 9	-0.10117768572
sulfotransferase family 1B member 1	-0.18275641803
protein tyrosine phosphatase receptor type J	-0.12976902553
DnaJ heat shock protein family (Hsp40) member C6	-0.28456525511
nuclear factor I A	-0.14874235164
yippee like 4	-0.29389618911
tumor protein p53 inducible protein 3	-0.17944308972
BCL2 interacting protein 3 like	-0.26038682044
sialic acid acetyltransferase	-0.10635923252
mitogen-activated protein kinase kinase kinase kinase 4	-0.10408544229
zinc finger FYVE-type containing 27	0.06500746588
Cbl proto-oncogene like 1	0.08876924143
methyltransferase like 22	-0.0677323123
adenosine monophosphate deaminase 2	0.15075911226
HEAT repeat containing 5A	0.10857245151
CKLF like MARVEL transmembrane domain containing 4	-0.1342452243
formin like 2	0.22521557522
Pim-1 proto-oncogene, serine/threonine kinase	-0.17533747476
F-box protein 7	-0.3357159003
megakaryocyte and platelet inhibitory receptor G6b	-0.31616731059
endoplasmic reticulum metalloproteinase 1	0.09827961113
ATP/GTP binding protein 1	-0.11755318387
tetratricopeptide repeat domain 7B	-0.16746374586
CKLF like MARVEL transmembrane domain containing 5	-0.34699079644
double PHD fingers 2	0.0803783859
protein disulfide isomerase family A member 4	0.1172874928
MX dynamin like GTPase 1	0.40112082016
inositol-tetrakisphosphate 1-kinase	0.14628131081
phospholipase B domain containing 2	-0.11205616023
cytochrome P450 family 1 subfamily B member 1	-0.19227458666
Ras and Rab interactor 1	-0.17152712603
ubiquitin specific peptidase 42	0.06849302568
neurobeachin like 2	-0.12128175902
lymphocyte activating 3	0.20081855065
Rho GTPase activating protein 25	0.08448428778
C-X-C motif chemokine receptor 5	0.15732703555
cold inducible RNA binding protein	0.07342809567
novel protein	-0.1570063618
spindle and kinetochore associated complex subunit 1	0.34342606036
TEF transcription factor, PAR bZIP family member	0.12961272817
maternal embryonic leucine zipper kinase	0.36037731256
family with sequence similarity 43 member A	0.1274521103

heme binding protein 1	-0.18477514172
coronin 2A	-0.0930911512
TIMP metalloproteinase inhibitor 2	-0.12435110054
grancalcin	-0.17548360112
solute carrier family 39 member 8	-0.11178831069
thyroid hormone receptor interactor 6	-0.13042642916
perilipin 2	0.13157934419
tumor protein p63	0.28501940884
5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP	0.08885802533
actin binding LIM protein family member 3	-0.32734757815
kinesin family member 19	0.22812537976
capping protein regulator and myosin 1 linker 3	0.23374077495
hippocalcin like 1	-0.08879270808
adaptor related protein complex 1 subunit sigma 3	0.17119990621
aquaporin 9	-0.17898567863
programmed cell death 1	0.17936046574
KIT proto-oncogene, receptor tyrosine kinase	0.25706790016
glutamate ionotropic receptor kainate type subunit 4	0.30917305008
tubulin beta 6 class V	0.13936804382
immediate early response 3	-0.15505066092
family with sequence similarity 214 member A	0.11824208371
glycine C-acetyltransferase	-0.32706876033
F-box protein 10	0.22035535462
cyclin dependent kinase inhibitor 2B	-0.18655997888
DnaJ heat shock protein family (Hsp40) member C3	-0.1109982533
CTD small phosphatase like	-0.26266012411
MYCL proto-oncogene, bHLH transcription factor	-0.16226595072
tripartite motif containing 62	0.06879523391
growth arrest specific 7	-0.14491760085
MANSC domain containing 1	-0.20649617469
atypical chemokine receptor 1 (Duffy blood group)	-0.45783552344
phospholipase C delta 3	-0.20335200421
leucine rich single-pass membrane protein 1	-0.17664088718
Fc fragment of IgM receptor	0.09955874889
semenogelin 1	-0.34348350395
solute carrier organic anion transporter family member 4C1	-0.18485063702
lysophosphatidic acid receptor 1	-0.16352786545
radial spoke head 3	0.10975900329
thioredoxin domain containing 11	0.08071913803
DISC1 scaffold protein	-0.15632405392
solute carrier family 35 member F2	0.13629158944
P2RX5-TAX1BP3 readthrough (NMD candidate)	0.23375341579
cell division cycle associated 5	0.33315459507
amyloid beta precursor like protein 2	-0.09317358008
intraflagellar transport 57	0.14382630412
JunB proto-oncogene, AP-1 transcription factor subunit	-0.16271376033

reticulon 4	-0.07711100976
Rap guanine nucleotide exchange factor like 1	-0.12162629681
CD79b molecule	0.23248361451
chondroitin polymerizing factor	0.22584612791
SOS Ras/Rho guanine nucleotide exchange factor 2	-0.10350963486
antagonist of mitotic exit network 1 homolog	-0.10941900984
ubiquitin like with PHD and ring finger domains 2	0.08470580546
dehydrogenase/reductase 7	-0.12053613407
peroxiredoxin 6	-0.20905257081
ariadne RBR E3 ubiquitin protein ligase 2	0.04634162859
LIM zinc finger domain containing 1	-0.08436904664
peptidyl arginine deiminase 4	-0.20265992122
strawberry notch homolog 2	-0.13743715301
transportin 1	-0.08440711778
ubiquitin B	-0.31423168207
jagged canonical Notch ligand 1	-0.13604826777
granzyme A	0.18972439285
assembly factor for spindle microtubules	0.30292383068
KIAA1671	0.16127736764
zinc finger protein 296	0.16710798284
novel transcript	-0.12563684061
von Willebrand factor A domain containing 5A	-0.10622914733
N-acetylneuraminate synthase	-0.1003931357
C-type lectin domain containing 10A	0.19448554968
ATP binding cassette subfamily B member 1	0.12906182536
nicotinamide nucleotide adenylyltransferase 3	-0.13804071821
coiled-coil serine rich protein 1	0.19640403223
protein phosphatase 2 regulatory subunit Bbeta	0.14583970968
LARGE xylosyl- and glucuronyltransferase 2	0.16914654395
signal peptidase complex subunit 2	0.06915051667
amine oxidase copper containing 2	0.17912144831
basal cell adhesion molecule (Lutheran blood group)	-0.52318885734
heparin binding EGF like growth factor	0.26749771231
latexin	0.12673603823
GLI pathogenesis related 2	-0.10732259459
espin	-0.36107465809
ubiquitin specific peptidase 32	-0.09892638855
glycoprotein V platelet	-0.17466693811
ring finger protein 24	-0.14506742604
butyrophilin subfamily 3 member A3	0.10227525192
solute carrier family 1 member 3	-0.40358271858
hemoglobin subunit mu	-0.39467422504
POU class 5 homeobox 1	-0.18869116694
uronyl 2-sulfotransferase	0.10898386282
acyl-CoA oxidase like	0.17795223833
palmitoyl-protein thioesterase 1	-0.0998718306

YOD1 deubiquitinase	-0.21939464458
coiled-coil domain containing 159	-0.0969228564
septin 11	0.08682404954
alpha-L-fucosidase 1	-0.10924022455
SH3 domain containing ring finger 3	-0.19897911267
polyamine oxidase	0.1234482198
Ras association domain family member 6	0.29441397816
BUB1 mitotic checkpoint serine/threonine kinase B	0.33633652744
transmembrane protein 165	-0.10905034643
zinc finger protein 469	0.18641893822
EBP like	-0.09365945806
ataxin 1	-0.09966212177
VPS9 domain containing 1	-0.1440849545
cytochrome p450 oxidoreductase	-0.13077682554
STEAP3 metalloreductase	-0.15882129238
TATA-box binding protein	0.06486902326
colony stimulating factor 1 receptor	0.1328559225
SID1 transmembrane family member 1	0.08283547177
C-C motif chemokine receptor 3	0.15514989503
DNA polymerase epsilon 2, accessory subunit	0.18868381843
ring finger protein 4	0.05528488555
aldehyde dehydrogenase 5 family member A1	-0.16252461949
PBX/knotted 1 homeobox 1	-0.08524261657
calcium voltage-gated channel auxiliary subunit beta 1	0.09690160727
H2A.Z variant histone 2	0.05700939989
solute carrier family 25 member 39	-0.40663750927
CEA cell adhesion molecule 3	-0.14320273316
ubiquitin protein ligase E3 component n-recognin 7	0.07611045493
N-terminal glutamine amidase 1	0.08921150325
pantothenate kinase 1	0.16719876795
periphilin 1	0.06085661061
chloride intracellular channel 4	-0.10826850062
fumarylacetoacetate hydrolase domain containing 1	-0.16042343357
calcium binding protein 39 like	0.07851877752
synaptotagmin like 2	0.13161383731
cache domain containing 1	-0.18222783837
calcium voltage-gated channel auxiliary subunit gamma 8	-0.259659178
pygopus family PHD finger 2	0.07351425777
Cdk5 and Abl enzyme substrate 1	0.29348182625
nuclear receptor subfamily 6 group A member 1	-0.15274869586
RAB20, member RAS oncogene family	-0.20034329216
SEC11 homolog C, signal peptidase complex subunit	0.13911168804
transforming growth factor beta receptor 3	0.1641714849
SR-related CTD associated factor 4	0.05883164506
deltex E3 ubiquitin ligase 4	0.18540693806
kinesin family member C1	0.27503145401

apical junction component 1 homolog	0.19933459784
N-alpha-acetyltransferase 40, NatD catalytic subunit	0.08656762805
H1.0 linker histone	-0.19259678433
beaded filament structural protein 1	0.23355133081
small vasohibin binding protein	-0.17008052107
PNKD metallo-beta-lactamase domain containing	-0.11384777001
acyl-CoA synthetase short chain family member 1	0.06220623785
fucosyltransferase 11	0.09010574197
dystrotelin	-0.33958736733
SPARC (osteonectin), cwcw and kazal like domains proteoglycan 1	-0.19555628546
FA core complex associated protein 24	0.18401855034
structural maintenance of chromosomes 4	0.13109401558
zinc finger CCCH-type containing 12A	-0.09426499514
cell division cycle 34, ubiquitin conjugating enzyme	-0.26098454188
zinc finger protein 18	0.07963720299
DnaJ heat shock protein family (Hsp40) member C1	0.11040358616
transmembrane protein 19	0.10452430845
activating signal cointegrator 1 complex subunit 2	-0.25392005817
acidic nuclear phosphoprotein 32 family member A	-0.07646292666
family with sequence similarity 160 member A1	0.18167617304
KN motif and ankyrin repeat domains 3	0.18262822585
family with sequence similarity 200 member B	-0.10024050125
phosphofructokinase, platelet	0.09145521293
tripartite motif containing 26	0.09204090951
BUB1 mitotic checkpoint serine/threonine kinase	0.26710172564
IQ motif containing N	0.12913585088
forkhead box M1	0.28302595506
C-type lectin domain containing 6A	-0.23238760137
zinc finger protein 620	0.09436951873
single stranded DNA binding protein 4	0.10509780795
DnaJ heat shock protein family (Hsp40) member B5	0.22452277354
glutamine-fructose-6-phosphate transaminase 2	0.32414988869
chromosome 16 open reading frame 74	0.12690077608
mitochondrial calcium uptake 1	-0.08077281802
zinc finger protein 200	0.10193000818
homeostatic iron regulator	-0.13282470374
maestro heat like repeat family member 6	-0.15624263622
RAS guanyl releasing protein 4	-0.12350273174
senataxin	0.08063298185
ZFP36 ring finger protein like 2	0.10017796511
G protein-coupled receptor class C group 5 member D	0.40777928126
activating transcription factor 7 interacting protein 2	0.08836517906
FKBP prolyl isomerase 15	-0.08073047759
SWT1 RNA endoribonuclease homolog	-0.07698882202
mannosidase alpha class 2B member 1	-0.07958487464
DNA polymerase lambda	-0.19053591507

out at first homolog	-0.14129620885
plexin D1	-0.11688850708
leptin receptor overlapping transcript like 1	0.06638661078
rabphilin 3A	-0.27467415423
basigin (Ok blood group)	-0.25255244347
endothelial cell adhesion molecule	-0.23788019875
G protein subunit gamma 11	-0.27531309944
hypoxia up-regulated 1	0.08834729861
protein phosphatase 2 regulatory subunit B'gamma	0.05862290978
novel protein, TPD52-MRPS28 readthrough	0.25731272874
FKBP prolyl isomerase 1B	-0.35745637794
ubiquitin associated and SH3 domain containing B	-0.08854885323
solute carrier family 2 member 5	-0.25122379401
peroxiredoxin 5	-0.18740384133
SWI/SNF related, matrix associated, actin dependent regulator of chro	0.06617448361
Rho GTPase activating protein 18	-0.09443762565
cytochrome b-245 chaperone 1	-0.09504697444
YY1 associated protein 1	-0.09671645491
islet cell autoantigen 1 like	0.13648468328
Rho guanine nucleotide exchange factor 17	-0.22677532256
sorting nexin 22	0.14743104971
tubulin beta 1 class VI	-0.25890872453
megakaryocyte-associated tyrosine kinase	0.16291940816
UBX domain protein 6	-0.31324380785
toll like receptor 1	-0.12621759205
NOP2/Sun RNA methyltransferase 3	-0.07322881664
discs large MAGUK scaffold protein 4	-0.12063130076
zinc finger and SCAN domain containing 32	0.05996197846
S100 calcium binding protein A6	-0.15898966143
furin, paired basic amino acid cleaving enzyme	-0.16803044426
glycerophosphodiester phosphodiesterase 1	-0.15012655774
VAMP associated protein A	-0.10428060262
zinc finger protein 106	-0.08175453701
acyl-CoA synthetase short chain family member 3	-0.14182853174
ring finger protein 175	-0.17948431905
Rac GTPase activating protein 1	0.09099819491
formiminotransferase cyclodeaminase N-terminal like	0.12856732478
ubiquitin conjugating enzyme E2 O	-0.15489856161
BAG cochaperone 5	0.06102522033
prostaglandin-endoperoxide synthase 1	-0.18262410698
TraB domain containing 2A	-0.10751866415
centrosomal protein 164	0.0684342084
CTP synthase 1	0.08692837971
MAM domain containing glycosylphosphatidylinositol anchor 1	0.12846976342
growth arrest specific 6	0.18034427056
coactivator associated arginine methyltransferase 1	-0.22858392256

arrestin domain containing 3	0.16460371382
calpain 5	-0.23034785652
CD248 molecule	-0.18715329431
CLN8 transmembrane ER and ERGIC protein	-0.34559860338
protein phosphatase 2 regulatory subunit B'beta	-0.17064573465
F-box protein 41	0.07775053583
immunoglobulin heavy variable 4-38-2-like	0.39120650086
diacylglycerol kinase theta	0.0880579029
transducer of ERBB2, 2	0.08389986909
histamine N-methyltransferase	-0.14680359906
uracil DNA glycosylase	0.10466683917
nipsnap homolog 3B	0.15792792254
receptor interacting serine/threonine kinase 2	0.10896564462
Rho guanine nucleotide exchange factor 37	-0.23832541623
activated leukocyte cell adhesion molecule	0.10984500014
cyclin B2	0.33041977954
ER membrane protein complex subunit 3	-0.17721409033
family with sequence similarity 153 member A	-0.15697840295
Fas ligand	0.19663238212
hes family bHLH transcription factor 4	0.4068192734
solute carrier family 1 member 4	0.13933071033
torsin family 4 member A	-0.13150407699
pleckstrin homology and FYVE domain containing 1	0.16001669879
NBPF member 26	-0.14082696619
secretogranin V	0.22860958421
store-operated calcium entry associated regulatory factor	0.06861891823
metaxin 1	-0.11432480363
tetratricopeptide repeat domain 21A	0.20207681315
Fc fragment of IgG receptor IIb	0.12578832873
dynein cytoplasmic 1 light intermediate chain 1	0.08261181263
pecanex 1	-0.10840876954
Fc fragment of IgG receptor Ib	-0.27013564679
ribonucleotide reductase regulatory subunit M2	0.26926918917
cathepsin H	-0.1110842239
FERM domain containing 4A	-0.23243392925
ATPase phospholipid transporting 8B4 (putative)	-0.1231153097
SH3 domain and tetratricopeptide repeats 2	-0.28380588509
aldehyde dehydrogenase 18 family member A1	0.08056267886
vinculin	-0.1004826978
HOP homeobox	0.17667929947
potassium voltage-gated channel subfamily A member 2	0.14937433401
granzyme K	0.16462869626
cytohesin 4	-0.10672348987
killer cell lectin like receptor G1	0.11582195194
CD55 molecule (Cromer blood group)	-0.13473513682
zinc finger protein 250	-0.10378016603

	0.40852964399
cathepsin K	-0.09143473034
actinin alpha 1	-0.12917887627
SET nuclear proto-oncogene	0.07398731376
ATPase Na ⁺ /K ⁺ transporting subunit beta 1	0.15676930762
cyclin B1	0.2247512706
RAB3A interacting protein	-0.11317029691
adenylate kinase 5	-0.11287561857
ring finger protein 144B	-0.12639990577
R3H domain containing 4	-0.21526870932
thrombospondin 1	-0.25840983151
nibrin	-0.12420035385
platelet factor 4	-0.29142405014
DEAD-box helicase 27	0.05853519848
exocyst complex component 6	-0.10437098252
cellular communication network factor 3	0.2726587801
lysine acetyltransferase 2A	0.08336302847
cytochrome b5 type B	0.05856458098
BCL2 apoptosis regulator	-0.1255114574
solute carrier family 26 member 11	-0.11212995043
natural killer cell granule protein 7	0.21304095012
solute carrier family 1 member 5	-0.2156157319
carnitine O-octanoyltransferase	0.09322419916
kinesin family member 27	0.19619053842
GIPC PDZ domain containing family member 3	-0.20159217907
chromatin assembly factor 1 subunit A	0.08915523393
phosphoglucomutase 1	-0.10690622918
lymphocyte antigen 96	-0.1381363067
cornichon family AMPA receptor auxiliary protein 4	-0.11783680745
ATP synthase inhibitory factor subunit 1	0.06605454983
desumoylating isopeptidase 2	0.06456652111
calcineurin binding protein 1	0.09597075315
NIMA related kinase 6	-0.12187016663
TBC1 domain family member 31	0.0975201368
LYL1 basic helix-loop-helix family member	-0.24158497619
phosphodiesterase 6D	0.05272831889
protein tyrosine phosphatase receptor type E	-0.08865413369
MYB proto-oncogene, transcription factor	-0.14232172467
paxillin	-0.10360862101
leptin receptor	-0.09804851888
ST13 Hsp70 interacting protein	-0.11465747301
galectin 1	-0.15375434794
fatty acid desaturase 1	-0.13626856515
saccharopine dehydrogenase (putative)	-0.11044998442
thioesterase superfamily member 5	-0.41883518313
growth arrest specific 2 like 1	-0.22115092747

Rho related BTB domain containing 2	0.11270880574
NLR family CARD domain containing 3	0.09187872305
membrane associated ring-CH-type finger 5	-0.06953024384
ADP ribosylation factor like GTPase 11	-0.10227760009
protein kinase C and casein kinase substrate in neurons 2	-0.10320950412
phospholipase C delta 1	0.09403095109
ectodysplasin A receptor	-0.1480239396
progesterin and adiponQ receptor family member 9	-0.43867972456
tyrosyl-DNA phosphodiesterase 2	-0.10917349279
chromosome 1 open reading frame 174	0.06322514002
zinc finger protein 875	0.06919337945
thioredoxin reductase 2	-0.0743593775
acyl-CoA synthetase family member 2	0.08733791262
solute carrier family 4 member 7	0.11450768125
tumor protein p53 binding protein 1	0.07053232123
SIGLEC family like 1	-0.24485167854
RAB2B, member RAS oncogene family	-0.11679187438
coiled-coil domain containing 146	0.11117776216
Fc fragment of IgE receptor II	0.15684576109
caseinolytic mitochondrial matrix peptidase chaperone subunit B	-0.0804997717
interleukin 27 receptor subunit alpha	-0.07940875985
protein kinase C alpha	-0.08434581578
reticulophagy regulator family member 2	-0.14101866008
THO complex 5	-0.09087143952
solute carrier family 9 member B2	0.08834719887
schlafen family member 5	0.10694052645
methyltransferase like 8	0.07372625485
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	-0.14357770965
proline-serine-threonine phosphatase interacting protein 1	-0.07317884114
nardilysin convertase	-0.07452271429
maltase-glucoamylase	-0.20544783132
seizure related 6 homolog like	0.19786199788
SEC14 like lipid binding 4	-0.41474003446
syntaxin binding protein 2	-0.12443838687
claspin	0.19798276225
mannosidase beta like	0.06625239426
sodium channel and clathrin linker 1	0.13637380154
cytochrome P450 family 4 subfamily F member 12	-0.17220563668
family with sequence similarity 214 member B	-0.12397590805
solute carrier family 27 member 1	-0.11047891526
MAF1 homolog, negative regulator of RNA polymerase III	-0.2094237817
spindlin interactor and repressor of chromatin binding	0.09723396342
caldesmon 1	-0.2648775408
serpin family B member 8	-0.09596868568
crystallin beta-gamma domain containing 2	0.17323340595
oxidoreductase NAD binding domain containing 1	-0.10524438285

minichromosome maintenance complex component 2	0.1435675774
shortage in chiasmata 1	-0.35456937687
CAP-Gly domain containing linker protein 3	0.1463057565
SH3 domain containing ring finger 2	0.27945733761
cadherin related family member 1	0.20050003966
ankyrin repeat domain 55	-0.1494525446
DNA topoisomerase II alpha	0.23919709078
vav guanine nucleotide exchange factor 3	-0.0947979147
RNA binding motif protein 47	-0.14841358462
diacylglycerol O-acyltransferase 2	-0.16379302798
sperm associated antigen 1	0.12406290412
beta-1,4-galactosyltransferase 2	0.21020697396
phosphodiesterase 4B	0.10911689137
histone deacetylase 9	0.12646722174
arachidonate 12-lipoxygenase, 12S type	-0.26033549016
integrin subunit beta 7	0.08231288479
X-C motif chemokine ligand 1	0.27195001877
G protein-coupled receptor 35	-0.10062977372
SprT-like N-terminal domain	0.07981799182
GRAM domain containing 1B	0.17130064858
tetratricopeptide repeat domain 22	0.09563511161
INO80 complex subunit E	0.05794932922
HECT domain E3 ubiquitin protein ligase 2	0.16815875796
coiled-coil domain containing 24	0.1674797159
ZFP36 ring finger protein like 1	-0.12473400056
RAS related	-0.15814312451
ADP ribosylation factor interacting protein 1	0.09448592189
envoplakin	-0.31590766195
LLGL scribble cell polarity complex component 2	0.10877654454
tumor protein D52	0.14435612166
methylcrotonoyl-CoA carboxylase 2	0.06530163485
autophagy related 9A	-0.10283931312
guanylate kinase 1	-0.25258735421
solute carrier family 27 member 2	0.20129121519
solute carrier family 12 member 2	0.09795613694
adhesion G protein-coupled receptor G1	0.2131212022
optineurin	-0.19241821696
pyroglutamyl-peptidase I	-0.06598418969
minichromosome maintenance complex component 7	0.06449143911
phosphoglucomutase 2	-0.10072942561
DnaJ heat shock protein family (Hsp40) member B2	-0.18249474657
family with sequence similarity 111 member A	0.11364957469
apoptosis associated tyrosine kinase	-0.151055299
tenascin R	0.27332415823
BCL2 interacting killer	-0.1730063886
ATPase phospholipid transporting 11B (putative)	-0.10677907957

amyloid beta precursor protein binding family A member 1	0.18141115297
leucine rich repeat containing G protein-coupled receptor 6	0.1906511814
lysine methyltransferase 5C	0.10723032045
zinc finger FYVE-type containing 28	0.09614720516
reticulon 3	-0.11922808964
fatty acyl-CoA reductase 1	-0.10793169563
microtubule associated monooxygenase, calponin and LIM domain con	-0.08555058019
pleckstrin and Sec7 domain containing	-0.18964435448
WD repeat domain 76	0.11450672859
poly(A)-specific ribonuclease	0.04533173746
cyclin dependent kinase 1	0.34408787585
RAB31, member RAS oncogene family	-0.11410192956
chromosome 1 open reading frame 198	-0.17733912041
copine 2	-0.11156274878
WD repeat domain 48	0.05844623218
ChaC glutathione specific gamma-glutamylcyclotransferase 2	0.17774772801
glycerol-3-phosphate dehydrogenase 1 like	0.07224713117
crystallin beta-gamma domain containing 1	-0.06539543574
solute carrier family 16 member 4	-0.15995921778
alpha kinase 1	-0.13177092501
LDL receptor related protein 5	0.1626226388
retinoid X receptor alpha	-0.10901121323
ISG15 ubiquitin like modifier	0.42434021192
TSPY like 5	0.17554787879
ELOVL fatty acid elongase 6	0.11891448035
kinesin family member 20B	0.12388334479
SHC binding and spindle associated 1	0.2189133265
tissue factor pathway inhibitor	-0.26598659522
non-SMC condensin II complex subunit G2	0.09726307676
vasoactive intestinal peptide receptor 1	-0.08734997303
serine/threonine kinase 24	0.07414302893
aquaporin 10	-0.30261497381
potassium inwardly rectifying channel subfamily J member 2	-0.1650702143
non-SMC condensin I complex subunit H	0.19557375401
interleukin 6 signal transducer	-0.11884299409
vesicle amine transport 1	-0.11382997333
Rho GTPase activating protein 31	-0.10194423042
inositol hexakisphosphate kinase 2	0.05130248224
piezo type mechanosensitive ion channel component 1	0.07969949261
Ras and Rab interactor 2	-0.13887504808
lysophosphatidylcholine acyltransferase 3	-0.09288368822
coiled-coil domain containing 57	-0.08017220683
superoxide dismutase 2	-0.15120385158
caspase 4	-0.12611739937
C9orf72-SMCR8 complex subunit	-0.11483773085
oligodendrocyte myelin glycoprotein	-0.19330428126

zinc finger protein 211	0.06737009165
oligodendrocyte transcription factor 2	-0.30307892882
golgi membrane protein 2	-0.06024206722
cadherin 26	-0.12888853307
natural cytotoxicity triggering receptor 3	0.14334424504
double C2 domain beta	-0.35431241321
proliferation-associated 2G4	-0.14134687153
transforming growth factor beta 1 induced transcript 1	-0.30875885883
zinc finger and SCAN domain containing 18	0.10051590066
chondroitin sulfate N-acetylgalactosaminyltransferase 1	-0.12611230731
ASXL transcriptional regulator 1	0.05160658278
FLVCR heme transporter 2	-0.17685450629
KIAA0319 like	0.10242825151
proline rich 5 like	0.13103447052
serine/threonine/tyrosine kinase 1	0.18165820691
CD63 molecule	-0.12768556329
cyclin A2	0.22242569176
kinesin family member 23	0.19721298303
WD repeat and SOCS box containing 1	-0.11238042963
marker of proliferation Ki-67	0.25519264192
inositol polyphosphate-5-phosphatase A	-0.09570778345
tripartite motif containing 47	0.1839204989
regulatory factor X5	0.07435027463
glycophorin C (Gerbich blood group)	-0.31928701906
zinc finger and BTB domain containing 7B	-0.10387210593
helicase, lymphoid specific	0.13368011048
potassium voltage-gated channel subfamily Q member 1	-0.08000132797
ras homolog family member Q	-0.07040283823
ribosomal protein S6 kinase A5	0.10797538401
G protein-coupled receptor 18	0.13534503308
H4 clustered histone 8	0.14260836709
phosphatidylinositol-5-phosphate 4-kinase type 2 alpha	-0.11093429019
ceramide synthase 4	-0.09112813051
neurogranin	-0.28936270993
PH domain and leucine rich repeat protein phosphatase 2	0.08496245562
solute carrier family 44 member 5	0.27595281011
kinesin family member 22	0.07459227538
nuclear factor, erythroid 2 like 3	-0.11337933936
TIFA inhibitor	0.24200679097
cyclin dependent kinase inhibitor 2A	0.11820959284
FAM20A golgi associated secretory pathway pseudokinase	-0.37327960103
ring finger protein 187	-0.17715692523
proprotein convertase subtilisin/kexin type 7	0.06197675533
non-SMC condensin I complex subunit G	0.28729391068
nucleotide binding oligomerization domain containing 1	0.0940336408
Rap guanine nucleotide exchange factor 1	0.06627111128

amine oxidase copper containing 3	0.17382440245
calcium binding protein 39	-0.08146733333
adenylate kinase 3	0.07726557719
zinc finger and SCAN domain containing 16	0.10411261017
X-C motif chemokine receptor 1	0.32770750057
synaptotagmin 11	0.08318035234
ArfGAP with GTPase domain, ankyrin repeat and PH domain 1	0.13799410262
valyl-tRNA synthetase 1	0.07970235338
CD33 molecule	-0.10426163639
asparaginase and isoaspartyl peptidase 1	-0.10259095182
spermine oxidase	-0.28588506622
zinc finger protein 316	-0.07560847774
solute carrier family 22 member 17	-0.15248300286
migration and invasion inhibitory protein	-0.10964458173
translocase of outer mitochondrial membrane 40 like	-0.10030375753
tripartite motif containing 32	0.1002660078
exportin 7	-0.07620463347
phospholipid scramblase 2	-0.23078064764
R3H domain containing 1	0.04591394099
phosphodiesterase 1B	-0.09397691578
acyloxyacyl hydrolase	-0.07840956907
ETS variant transcription factor 5	0.24726716552
hemoglobin subunit beta	-0.36036212248
PIF1 5'-to-3' DNA helicase	0.21607286673
potassium voltage-gated channel subfamily H member 2	-0.21088342219
ciliary rootlet coiled-coil, rootletin family member 2	0.28899176877
macrophage erythroblast attacher, E3 ubiquitin ligase	-0.07677083226
HECT and RLD domain containing E3 ubiquitin protein ligase 5	0.36186189525
NFKB inhibitor delta	-0.07065810948
HRas proto-oncogene, GTPase	0.1172674725
annexin A7	-0.06386213633
RecQ like helicase 4	0.19914374806
chromosome 11 open reading frame 24	0.09021501469
integrin subunit beta 5	-0.24220134119
alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase	0.07579366252
DDB1 and CUL4 associated factor 7	0.04136729195
glycoprotein Ib platelet subunit alpha	-0.24325673327
long intergenic non-protein coding RNA 672	-0.10506589907
jumonji domain containing 6, arginine demethylase and lysine hydroxylase	-0.07529265143
plakophilin 4	0.0844353601
ADAMTS like 5	-0.15541717019
centromere protein O	0.09613391356
STAM binding protein like 1	0.095728327
matrix metalloproteinase 25	-0.13553215935
killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail	0.24246428449
histone deacetylase 11	-0.11007499864

phosphatidylinositol glycan anchor biosynthesis class C	-0.13524860703
serine hydroxymethyltransferase 1	0.08859275516
vanin 2	-0.15102885309
chimerin 1	0.16000192148
rogdi atypical leucine zipper	-0.15885251941
heat shock protein family A (Hsp70) member 8	0.10794344783
ATPase 13A3	-0.1089430536
RIPOR family member 3	-0.27354120042
centrosomal protein 78	0.11832413477
trafficking protein particle complex 4	0.06597368022
embigin	-0.0987665545
RAD18 E3 ubiquitin protein ligase	0.06910124514
zinc finger protein 319	-0.11388564751
solute carrier family 9 member A8	-0.10457330209
PITH domain containing 1	-0.15865573996
Rab9 effector protein with kelch motifs	0.07433040212
striatin interacting protein 1	0.05091258854
cell migration inducing hyaluronidase 2	-0.07542497719
oleoyl-ACP hydrolase	-0.44576557569
glycogen phosphorylase, muscle associated	-0.10800716674
myotubularin related protein 3	-0.09465231865
potassium voltage-gated channel subfamily H member 7	-0.39081557985
phosphoribosylglycinamide formyltransferase, phosphoribosylglycinami	0.05776829239
glycine decarboxylase	0.36731534267
tet methylcytosine dioxygenase 3	-0.07481520264
G protein subunit alpha 12	-0.14117252988
NLR family pyrin domain containing 1	0.08117987703
armadillo like helical domain containing 1	-0.099808013
muscle RAS oncogene homolog	-0.16859700515
CEBPZ opposite strand	-0.07692359519
regulating synaptic membrane exocytosis 3	0.12538787141
protein tyrosine kinase 2 beta	-0.07865143589
solute carrier family 49 member 4	-0.1115138798
tRNA splicing endonuclease subunit 54	0.09813460595
Rho GTPase activating protein 11A	0.14269233363
interferon induced protein 44 like	0.4746282316
alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransfera	-0.10108805652
CD48 molecule	-0.09411282032
signal induced proliferation associated 1 like 2	-0.18127827746
ArfGAP with FG repeats 1	-0.09158627803
chromosome 4 open reading frame 46	0.0962708467
cathepsin Z	-0.09579896272
fission, mitochondrial 1	-0.14362873846
fucosyltransferase 10	0.10622557216
mucolipin 1	-0.15048815995
cadherin related family member 2	-0.10021993418

anti-silencing function 1B histone chaperone	0.16437384454
RNA binding motif protein 8A	0.05450391184
zeta chain of T cell receptor associated protein kinase 70	0.08896700636
lymphoid enhancer binding factor 1	-0.10028321435
small lysine rich protein 1	0.20575871745
Rap1 GTPase-GDP dissociation stimulator 1	0.05495993823
deleted in primary ciliary dyskinesia homolog (mouse)	-0.2263274676
family with sequence similarity 83 member G	0.11359928912
ADP ribosylation factor like GTPase 6 interacting protein 5	-0.08126541825
major facilitator superfamily domain containing 2A	-0.15428031905
ubiquitin conjugating enzyme E2 Q2	0.06927277078
myosin light chain 4	-0.33808098825
chromosome 14 open reading frame 28	0.11361438215
G-patch domain containing 11	0.09528214667
sialic acid binding Ig like lectin 5	-0.16621497164
lipocalin 8	0.26568659303
protein phosphatase 1 regulatory inhibitor subunit 14A	0.21912345392
cyclin Pas1/PHO80 domain containing 1	-0.16973811997
fibrinogen like 2	0.14081271227
oncoprotein induced transcript 3	-0.22207118745
golgin B1	0.06000858526
angiotensin I converting enzyme	0.20595438154
protein phosphatase 3 catalytic subunit gamma	0.07045867786
chemerin chemokine-like receptor 1	0.14941077825
VPS8 subunit of CORVET complex	-0.07576422988
cannabinoid receptor 2	0.1051678248
solute carrier family 16 member 3	-0.11487713369
ubiquitin specific peptidase 19	0.0625963166
plectin	-0.08702786388
structural maintenance of chromosomes 6	0.10605902378
family with sequence similarity 83 member D	0.18033517183
mitogen-activated protein kinase kinase kinase 6	-0.12001621307
NEDD4 binding protein 1	-0.09344022909
LMBR1 domain containing 1	0.07403875821
villin like	-0.06736255501
single stranded DNA binding protein 2	0.06630884692
TTK protein kinase	0.28650475544
solute carrier family 26 member 6	-0.11172426566
kinesin family member 13A	-0.09926820421
kinase non-catalytic C-lobe domain containing 1	-0.2004923207
toll interacting protein	-0.09228191238
Cas scaffold protein family member 4	0.13302569129
NME/NM23 nucleoside diphosphate kinase 4	-0.1725548761
kinesin family member 2C	0.25357000546
novel protein	0.21183021083
DiGeorge syndrome critical region gene 2	-0.07375786141

coiled-coil serine rich protein 2	0.04261383427
neurolysin	-0.10534376623
nuclear envelope integral membrane protein 1	0.0908408841
ATP binding cassette subfamily G member 2 (Junior blood group)	-0.28812432894
mitogen-activated protein kinase kinase kinase 9	0.0968730672
BRCA1 interacting protein C-terminal helicase 1	0.15703553248
integrin subunit alpha 6	-0.08302120562
chromosome transmission fidelity factor 18	0.1078963299
neurofilament light	-0.15592781703
biotinidase	0.05616540755
glycosylated lysosomal membrane protein	-0.10329925883
endoplasmic reticulum to nucleus signaling 1	0.11265710797
protein tyrosine phosphatase receptor type F	-0.28591816109
cytochrome P450 family 2 subfamily E member 1	0.19670604815
plexin B2	-0.13484422736
ribosomal modification protein rimK like family member B	0.11230630266
zyxin	-0.13956075018
FAM3 metabolism regulating signaling molecule C	0.11492758503
WD repeat domain 86	0.12321785207
TSPY like 4	0.087312414
janus kinase and microtubule interacting protein 2	0.11195000871
translocation associated membrane protein 2	0.07837664104
CD274 molecule	-0.29996354703
bromo adjacent homology domain containing 1	0.05968681818
nuclear factor of activated T cells 2	0.08329884546
complement C1q B chain	0.35654549605
calcium voltage-gated channel auxiliary subunit alpha2delta 2	0.15497664176
erythrocyte membrane protein band 4.1 like 4A	0.157380611
small integral membrane protein 3	-0.12640730329
syntaxin 12	-0.05061489487
chromosome 16 open reading frame 72	-0.0949409537
fibronectin type III and SPRY domain containing 1	0.21536974237
purine nucleoside phosphorylase	-0.11630206027
immunoglobulin mu DNA binding protein 2	0.05860352696
nurim	-0.12003456054
zinc finger E-box binding homeobox 2	-0.07503478309
C2 domain containing 3 centriole elongation regulator	0.06120972651
cytochrome b5 reductase 3	-0.13130682645
HORMA domain containing 1	-0.1596832237
GID complex subunit 4 homolog	-0.11309047531
formyl peptide receptor 1	-0.14523340355
oxysterol binding protein like 8	-0.08581344377
BRCA1 associated RING domain 1	0.10484638002
netrin 4	0.20230722153
myocyte enhancer factor 2D	0.06416084027
protein kinase cAMP-dependent type I regulatory subunit beta	-0.08389374373

NLR family pyrin domain containing 2	0.11002984496
PARP1 binding protein	0.14516451582
bone morphogenetic protein 8a	0.27524491772
vascular endothelial growth factor A	-0.09996381394
TAFA chemokine like family member 2	0.11794395987
CD40 molecule	0.12383948429
cytosolic iron-sulfur assembly component 1	0.04140921249
von Willebrand factor C and EGF domains	-0.35444809875
ectonucleoside triphosphate diphosphohydrolase 5 (inactive)	-0.09404913225
RAB37, member RAS oncogene family	0.09343576446
ACD shelterin complex subunit and telomerase recruitment factor	0.08967416303
CST telomere replication complex component 1	0.06295569569
thioredoxin domain containing 16	0.07689391738
zinc finger protein 710	-0.07952952858
potassium calcium-activated channel subfamily N member 3	0.24865539583
1,4-alpha-glucan branching enzyme 1	-0.0739057958
integrin subunit alpha 1	-0.13270617568
junction adhesion molecule like	-0.08211241005
solute carrier family 6 member 4	-0.24950937397
brain protein I3	-0.1007168828
zinc finger CCHC-type containing 2	0.18846413542
acidic nuclear phosphoprotein 32 family member B	-0.10982519125
Fc receptor like 6	0.16110718058
sphingosine-1-phosphate receptor 1	0.08998555319
membrane associated ring-CH-type finger 2	-0.15615352843
WD repeat domain 62	0.15234429503
serpin family B member 6	-0.05776550131
ER degradation enhancing alpha-mannosidase like protein 1	0.0765524018
interleukin 10 receptor subunit beta	-0.11763509867
2'-5'-oligoadenylate synthetase 3	0.35906056312
hemoglobin subunit alpha 1	-0.41509896574
pleckstrin	-0.09035124215
regulator of G protein signaling 9	0.13877212071
serine and arginine repetitive matrix 1	0.03874919404
coiled-coil domain containing 107	0.09146006976
regulator of G protein signaling 10	-0.15439693035
Wnt family member 10A	-0.15613860209
CCAAT enhancer binding protein alpha	-0.14932539691
DEAH-box helicase 32 (putative)	-0.0627531072
lysine demethylase 3B	-0.06098204804
Rho GTPase activating protein 42	0.21729115455
carbohydrate sulfotransferase 12	0.10033583265
cap methyltransferase 1	0.12460818949
sushi domain containing 1	-0.06930819934
fuzzy planar cell polarity protein	0.10603890585
pre-mRNA processing factor 4	0.05773809992

RELT like 2	0.08007241662
opioid related nociceptin receptor 1	-0.0894575232
SLIT-ROBO Rho GTPase activating protein 2C	0.13521517518
CD320 molecule	0.11077988289
hippocalcin like 4	-0.1305193914
placental growth factor	-0.53137225019
EPH receptor A1	-0.13138750066
NIMA related kinase 4	-0.06233883222
WNK lysine deficient protein kinase 1	-0.11592955337
granule associated Rac and RHOG effector 1	0.06508356387
legumain	0.11464109576
nuclear factor I C	-0.07472632652
HIVEP zinc finger 1	-0.08447006388
karyopherin subunit alpha 2	0.10968626484
dual specificity tyrosine phosphorylation regulated kinase 3	-0.26303871467
synergin gamma	0.045162033
syndecan binding protein	-0.11521109651
FKBP prolyl isomerase 8	-0.28984933879
CD2 molecule	0.09105099679
solute carrier family 16 member 10	-0.12394350902
glycolipid transfer protein	-0.07093343683
ELOVL fatty acid elongase 4	0.16699850336
catechol-O-methyltransferase	-0.07145404453
PHD finger protein 24	0.35321106415
coiled-coil domain containing 6	0.05713344301
TATA-box binding protein associated factor 5	0.0694935899
leucine rich repeat neuronal 1	-0.18166363401
claudin domain containing 2	0.21870734601
stearoyl-CoA desaturase	-0.14305377329
membrane bound O-acyltransferase domain containing 1	-0.0740454841
N-alpha-acetyltransferase 50, NatE catalytic subunit	0.06565002679
YTH domain containing 1	0.05802136178
F-box protein 5	0.13990921404
collagen type VIII alpha 2 chain	-0.17614396552
AKT serine/threonine kinase 1	0.08298411043
zinc finger CCHC-type containing 3	0.05902430547
heat shock protein family A (Hsp70) member 12A	0.21802371354
adaptor related protein complex 3 subunit sigma 2	-0.08988358149
formyl peptide receptor 2	-0.13480119086
schlafen family member 14	-0.26482738746
thioredoxin domain containing 15	0.05327000595
endonuclease domain containing 1	-0.13450684091
G-patch domain containing 1	0.05254056362
regulator of G protein signaling 6	-0.23534095924
PDZ and LIM domain 7	-0.127442283
BH3 interacting domain death agonist	-0.0818347284

rubicon autophagy regulator	0.08940449063
zinc finger protein 85	0.11983733253
LON peptidase N-terminal domain and ring finger 1	0.08563026179
ubiquitin specific peptidase 3	-0.05848917565
intersectin 1	-0.10831927868
C-X-C motif chemokine ligand 5	-0.24799303211
novel protein	-0.10436277433
S100 calcium binding protein A4	-0.12478398261
MLLT3 super elongation complex subunit	-0.08214229754
neural cell adhesion molecule 1	0.16226234665
nuclear receptor subfamily 4 group A member 1	0.20938980575
teneurin transmembrane protein 4	0.25809915123
potassium calcium-activated channel subfamily M regulatory beta subunit	-0.12173735068
interleukin 21 receptor	0.07868211785
SEC14 like lipid binding 3	-0.40236344108
synaptojanin 2	0.0717841894
dihydropyrimidine dehydrogenase	-0.08226123279
G protein-coupled receptor 55	0.11358237168
tetratricopeptide repeat and ankyrin repeat containing 1	0.13105010134
interleukin 4 induced 1	-0.19806449542
interferon alpha inducible protein 6	0.35762632507
small ArfGAP2	0.14272637147
2'-5'-oligoadenylate synthetase 2	0.23047572882
ELOVL fatty acid elongase 7	-0.21284695486
RAB3A, member RAS oncogene family	-0.1345240769
ras homolog family member B	0.14135693453
integrin subunit alpha 3	0.11306241436
radical S-adenosyl methionine domain containing 2	0.4713709314
BRCA1 DNA repair associated	0.08459366788
stathmin 1	0.13887427579
LDL receptor related protein 3	-0.14506115596
cyclin dependent kinase inhibitor 3	0.24776538772
zinc finger protein 718	0.07724872168
dihydropyrimidinase like 2	-0.10240932871
cysteine rich transmembrane BMP regulator 1	0.10530043612
caspase recruitment domain family member 19	-0.0766321525
capping actin protein of muscle Z-line subunit alpha 2	-0.0847568432
RUNX family transcription factor 3	0.09921314365
spectrin alpha, non-erythrocytic 1	0.0711422067
regulatory factor X7	0.05913978875
CASP8 and FADD like apoptosis regulator	-0.08900630182
epsin 2	0.1111509987
heat shock protein family A (Hsp70) member 1A	-0.13820683349
WASP family member 2	-0.10284913442
S100 calcium binding protein A11	-0.169455484
non-SMC condensin II complex subunit D3	0.06584640905

RB binding protein 8, endonuclease	0.10214478827
cryptochrome circadian regulator 1	0.07107922666
serine/threonine kinase 3	-0.12133080076
acyl-CoA binding domain containing 3	0.0419496781
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1M	-0.08277861564
arginase 1	-0.29724899051
cryptochrome circadian regulator 2	0.05182781789
tubulin polyglutamylase complex subunit 2	-0.15301011747
chromosome 4 open reading frame 50	0.1540237299
endoplasmic reticulum aminopeptidase 2	0.08712852524
glyoxalase I	0.07014371108
INTS3 and NABP interacting protein	0.05177017297
phosphatidylethanolamine binding protein 4	0.22440483859
PHD finger protein 1	0.06982399025
proteasome inhibitor subunit 1	-0.1741005136
dedicator of cytokinesis 7	0.108138495
thyroglobulin	-0.13889473192
zinc finger protein 266	0.06369501308
syndecan 3	0.23802727389
CRK proto-oncogene, adaptor protein	-0.06906070588
chromosome 14 open reading frame 132	-0.14791067991
kinetochore scaffold 1	0.17763978903
transmembrane p24 trafficking protein 4	0.04047869954
ATP binding cassette subfamily C member 4	-0.11624801434
3-hydroxybutyrate dehydrogenase 1	-0.08131376792
WD repeat domain 31	-0.20791489217
leucine rich repeat containing 7	-0.1990645007
CGRP receptor component	0.07334665107
zinc finger protein 264	0.0544619045
RAD51 associated protein 1	0.1968422307
carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and d	0.0616776421
elongin B	-0.13888414946
interleukin 32	0.10369374295
leukocyte immunoglobulin like receptor B5	-0.15790584116
HERPUD family member 2	0.06212811136
lipase maturation factor 2	0.07063207857
taxilin alpha	0.05366039618
solute carrier family 48 member 1	-0.14120203835
lysozyme g1	-0.1136872602
translocase of outer mitochondrial membrane 34	0.07072806546
growth factor independent 1 transcriptional repressor	0.12254669623
secretion associated Ras related GTPase 1A	0.04651227357
very low density lipoprotein receptor	-0.16311746395
FA complementation group A	0.13049201454
cilia and flagella associated protein 70	-0.09775556307
C-terminal binding protein 2	-0.08281616449

centromere protein E	0.17524202405
zinc finger protein 595	0.09977194959
sterile alpha motif domain containing 3	0.10540227282
Ras like without CAAX 1	-0.08216867896
nuclear factor, interleukin 3 regulated	-0.13587214416
bridging integrator 1	0.08272037539
microtubule associated monooxygenase, calponin and LIM domain con	-0.14043437528
protein arginine methyltransferase 5	-0.08691722053
dipeptidase 3	0.16864339817
phospholipid phosphatase 1	-0.11218726959
protein disulfide isomerase family A member 6	0.0736543869
spermatogenesis associated serine rich 2	0.1005346942
Ly1 antibody reactive	0.06934153222
aldo-keto reductase family 1 member C3	0.18280188432
intercellular adhesion molecule 4 (Landsteiner-Wiener blood group)	-0.21645807756
transforming acidic coiled-coil containing protein 3	-0.07399131268
thyroid hormone receptor beta	0.19696870589
novel protein, ZNRF2-LINC01176 readthrough	0.05306294223
beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferas	0.12839368595
major facilitator superfamily domain containing 1	-0.07849736823
ubiquitin conjugating enzyme E2 H	-0.08192327049
membrane associated ring-CH-type finger 3	-0.09681658679
RCSD domain containing 1	0.05481021573
free fatty acid receptor 2	-0.15228473978
notch receptor 2	-0.09535542582
zinc finger and BTB domain containing 38	0.07915312611
scavenger receptor class F member 1	-0.17629317832
NIMA related kinase 10	0.17887960066
ABI family member 3	0.12379550821
phosphoribosylformylglycinamide synthase	0.07498073891
cadherin 2	0.28671040813
GH3 domain containing	-0.08019227418
glutathione S-transferase omega 1	-0.09445425728
Abelson helper integration site 1	0.0935383916
C-type lectin domain family 12 member B	-0.14187357728
G protein subunit alpha 11	-0.11693112902
tripartite motif containing 8	-0.09025558327
adenosine A2b receptor	-0.18289063387
EPH receptor B1	0.15023322889
zinc finger protein 467	-0.12342800479
novel protein	-0.20526595102
origin recognition complex subunit 3	0.06776325625
olfactomedin like 2B	0.22802480166
sphingomyelin phosphodiesterase acid like 3B	0.1601263088
zinc finger protein 215	0.27117570775
vasodilator stimulated phosphoprotein	-0.12037851213

cell division cycle 14B	-0.10650739072
Ral GTPase activating protein catalytic subunit alpha 2	-0.09639280485
solute carrier family 11 member 2	-0.06512983354
FIC domain protein adenylyltransferase	0.08673716626
inner centromere protein	0.07681886156
cytohesin 3	0.06686431621
ankyrin repeat domain 16	0.07888993165
transmembrane 6 superfamily member 1	-0.10888531986
PR/SET domain 4	0.05249964837
iron-sulfur cluster assembly 1	-0.12253630112
late endosomal/lysosomal adaptor, MAPK and MTOR activator 4	0.08398422928
deoxyguanosine kinase	0.03625056667
CD300c molecule	-0.12904008369
SEC14 like lipid binding 1	0.11896153844
polo like kinase 4	0.16053776936
SLIT-ROBO Rho GTPase activating protein 2	0.12944390692
family with sequence similarity 136 member A	0.07213235601
leucine rich repeat containing 56	0.12815178438
solute carrier family 38 member 6	-0.08317723021
heat shock protein family B (small) member 1	-0.16925223342
importin 5	0.06403675599
supervillin	-0.09369456679
transmembrane protein 123	0.12009980115
PC-esterase domain containing 1B	-0.0750092847
Rho guanine nucleotide exchange factor 11	-0.08272298248
MOB kinase activator 3B	-0.09215143659
BAG cochaperone 1	-0.24203205844
junctional sarcoplasmic reticulum protein 1	-0.21234637709
SUMO specific peptidase 5	0.0341657796
prostaglandin F2 receptor inhibitor	-0.19107848242
H2B clustered histone 8	-0.17483507579
solute carrier family 25 member 4	0.13364986236
lysosomal protein transmembrane 4 beta	-0.12316732755
GINS complex subunit 4	0.13535828823
PTTG1 interacting protein	-0.05582339732
Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal	-0.18259664546
UDP-glucose ceramide glucosyltransferase	-0.11738961958
FA complementation group G	0.08743139754
ubiquitin domain containing 1	-0.11191490375
zinc finger protein 3	0.04883368327
inositol polyphosphate phosphatase like 1	-0.06181360152
zinc finger protein 787	-0.08707007788
zinc finger protein 831	0.07969126443
RAS p21 protein activator 2	-0.06610063107
zinc finger protein 516	-0.10347129302
transmembrane protein 11	-0.07403968898

DENN domain containing 1B	0.06924289964
Mab-21 domain containing 2	-0.12463145777
CD226 molecule	0.07092747888
serum/glucocorticoid regulated kinase 1	0.15271910493
CREB regulated transcription coactivator 3	-0.05498575989
PBX homeobox 3	-0.06147708012
platelet derived growth factor D	0.14829651855
dual specificity phosphatase 16	0.0652139368
neuropilin 1	0.17120848356
chromosome 1 open reading frame 21	0.15218279232
KH RNA binding domain containing, signal transduction associated 2	0.12421711487
protein O-fucosyltransferase 2	0.05466727757
phosphodiesterase 2A	-0.14938376592
ras homolog family member T2	0.0574553255
SHANK associated RH domain interactor	-0.17027731392
Fc fragment of IgG receptor Ia	-0.27183335384
WW domain binding protein 11	0.06205732127
hydroxyacyl-CoA dehydrogenase	0.06892759431
cyclin E1	0.16598507556
calcium and integrin binding 1	0.06200604603
carnitine O-acetyltransferase	-0.1446964448
WD repeat domain, phosphoinositide interacting 1	-0.09285260248
anoctamin 6	-0.07662739818
BMP2 inducible kinase	-0.07879106275
zinc finger protein 703	0.18499922904
zinc finger protein 805	0.07270535659
tRNA aspartic acid methyltransferase 1	-0.07339369358
potassium channel tetramerization domain containing 12	-0.10467609308
thyroid stimulating hormone receptor	0.20912116742
NOC3 like DNA replication regulator	0.10539684214
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 4	-0.22642766658
poly(ADP-ribose) polymerase 2	0.09524961304
olfactomedin 1	-0.18354534833
NDC1 transmembrane nucleoporin	0.06542631958
TNF receptor superfamily member 18	0.16335597427
myosin ID	0.09136853738
nuclear receptor subfamily 4 group A member 2	0.1095918853
zinc finger CCCH-type containing 18	0.05343713549
minichromosome maintenance complex component 3	0.06494887487
cytidine/uridine monophosphate kinase 2	0.35263259863
origin recognition complex subunit 1	0.1740173033
CD28 molecule	0.1027141173
UBX domain protein 10	0.17246823215
abhydrolase domain containing 6, acylglycerol lipase	0.07174360158
growth factor independent 1B transcriptional repressor	-0.21250630334
chondroitin sulfate N-acetylgalactosaminyltransferase 2	-0.10271185583

THO complex 3	-0.10889405687
cell division cycle 25B	0.07280517034
methionine sulfoxide reductase B2	0.10626194885
hexokinase 2	-0.10129711451
Bardet-Biedl syndrome 4	0.07014779377
retinal outer segment membrane protein 1	-0.18899037319
chromosome 17 open reading frame 99	-0.24114604952
thrombospondin 3	-0.07715933507
galectin 8	-0.07206018368
WASP family member 1	-0.15044876541
zinc finger protein 142	0.05300285498
cleavage and polyadenylation specific factor 4	0.04952788715
solute carrier family 46 member 2	-0.12856115674
phosphoribosylaminoimidazole carboxylase and phosphoribosylaminoi	0.07408413806
CDC28 protein kinase regulatory subunit 2	0.1606809802
LYN proto-oncogene, Src family tyrosine kinase	-0.08833966619
RecQ mediated genome instability 2	0.25865519313
zinc finger DHHC-type palmitoyltransferase 7	-0.05529565897
coiled-coil domain containing 191	0.09322068031
heat shock protein family A (Hsp70) member 4	0.0417962408
par-6 family cell polarity regulator alpha	0.16505614856
calpain 15	0.07091867997
dynein axonemal heavy chain 17	-0.2061120008
arrestin beta 2	-0.09078623692
solute carrier family 30 member 5	0.04656937073
butyrophilin subfamily 3 member A2	0.07051957266
carnosine synthase 1	0.10216416799
zinc finger protein 737	0.09761209178
dysbindin domain containing 1	0.15577675551
kaptin, actin binding protein	0.14442729072
G protein-coupled receptor kinase 6	-0.08264991683
phospholipase D2	-0.07417940161
oxidation resistance 1	0.0477994698
MLLT1 super elongation complex subunit	-0.08863724454
polo like kinase 1	0.12629688807
spindle and kinetochore associated complex subunit 3	0.27186294114
X-C motif chemokine ligand 2	0.19281784205
kynureninase	-0.11952789504
inositol 1,4,5-trisphosphate receptor type 3	0.07883385259
mitochondrial fission regulator 2	0.13753330129
tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase	0.05479706602
makorin ring finger protein 2	0.05324719766
pleckstrin homology like domain family B member 2	0.12683742848
phosphoglycerate mutase 1	-0.08732512709
ATPase phospholipid transporting 11A	-0.08387590574
nuclear receptor subfamily 1 group D member 1	0.10427045429

Rho GTPase activating protein 22	-0.1139104557
cyclin L2	0.05426675111
coronin 1C	-0.07279277359
component of oligomeric golgi complex 1	0.05112220997
beta-1,3-N-acetylgalactosaminyltransferase 2	0.0598777631
galactose-3-O-sulfotransferase 4	-0.09057900796
cAMP responsive element binding protein 3 like 2	0.06112716509
reticulophagy regulator 1	-0.07417048704
metallothionein 1E	0.22218951285
LIM domain binding 2	0.21177329251
SP140 nuclear body protein like	0.07521245452
transmembrane protein 106C	0.07890674315
ependymin related 1	-0.1360002798
phosphatase and actin regulator 1	0.11965555011
MORN repeat containing 1	0.07754851891
isocitrate dehydrogenase (NAD(+)) 3 catalytic subunit alpha	0.07201368337
phospholipase A2 group VI	0.06419582694
cytochrome c oxidase assembly factor 1 homolog	0.0741750256
novel transcript	-0.12319870381
FERM domain containing 4B	-0.08989267245
coenzyme Q2, polyprenyltransferase	-0.08097743613
bleomycin hydrolase	0.05507262324
DDHD domain containing 1	0.07770787751
KIAA0930	-0.09699238019
membrane palmitoylated protein 7	-0.08409958874
xylulokinase	0.09718602705
protein kinase C zeta	0.07342698695
phosphodiesterase 3B	0.08840501424
septin 1	0.07988263485
ArfGAP with dual PH domains 2	-0.10825274809
protein phosphatase 1 catalytic subunit beta	-0.06428381565
corin, serine peptidase	-0.2111550957
activin A receptor like type 1	-0.21645892976
melanoregulin	0.10242593925
SH3 domain binding protein 4	0.14729915104
zinc finger protein 618	0.11693054567
CD101 molecule	-0.09896203121
armadillo like helical domain containing 4	-0.05253277495
gelsolin	-0.11262629693
myelin protein zero like 2	0.11960700088
MDM2 proto-oncogene	0.09955379723
ring finger protein 19A, RBR E3 ubiquitin protein ligase	0.06342367504
NUMB endocytic adaptor protein	-0.07850903992
transferrin receptor 2	-0.14661342104
nucleoporin 210 like	-0.19013835687
scavenger receptor class F member 2	0.16882841764

platelet derived growth factor receptor beta	0.19273960516
eukaryotic translation initiation factor 1A domain containing	0.05077442564
novel twinfilin, actin-binding protein, homolog 2 (Drosophila) (TWF2) an	-0.14237840957
ankyrin repeat and MYND domain containing 2	0.07817876821
Rab interacting lysosomal protein like 2	-0.07473920802
spexin hormone	-0.2273999198
FA complementation group L	0.13082832614
ZFP69 zinc finger protein	0.09017422305
cyclin dependent kinase inhibitor 1B	0.06756972897
5'-nucleotidase domain containing 1	0.04363653905
C-type lectin domain family 1 member B	-0.18157788586
PDZ and LIM domain 5	-0.04646397763
small EDRK-rich factor 2	-0.14660076687
Ras association domain family member 1	0.06016995202
signal induced proliferation associated 1 like 3	0.06974096423
ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	-0.05313313071
vanin 3	0.12733592277
tropomyosin 4	-0.06487742826
testis associated actin remodelling kinase 1	0.07768580852
baculoviral IAP repeat containing 5	0.27714575257
zinc finger MIZ-type containing 1	0.08475037645
cAMP responsive element modulator	0.06870066414
glucocorticoid induced 1	0.09036793908
Scm like with four mbt domains 1	0.07040177952
CD209 molecule	0.20109259167
granzyme H	0.16532980371
family with sequence similarity 168 member B	0.04686545728
round spermatid basic protein 1 like	0.05640213593
pleckstrin homology domain containing B1	-0.10520021374
siah E3 ubiquitin protein ligase 1	0.0720926081
synaptotagmin like 3	0.0977861207
lysosomal associated membrane protein 3	0.33928690483
peptidase, mitochondrial processing subunit alpha	0.05072150979
RAD50 interactor 1	0.06764959997
sorting nexin 16	-0.08616699456
aryl hydrocarbon receptor nuclear translocator	-0.03968725733
XK related 8	0.1015798023
phospholipase A2 group XIA	-0.09584273967
testis expressed metallothionein like protein	-0.08289137793
ubiquitin specific peptidase 36	0.05438699398
serpin family G member 1	0.36321592412
G2 and S-phase expressed 1	0.1794419191
MYD88 innate immune signal transduction adaptor	-0.10076580722
tetraspanin 4	-0.11869724084
regulator of microtubule dynamics 2	0.08627003641
AE binding protein 1	0.11182866262

BAG cochaperone 6	-0.12787400818
cysteine and serine rich nuclear protein 2	0.04415714886
signaling threshold regulating transmembrane adaptor 1	0.10175615055
membrane spanning 4-domains A14	-0.13484106371
SPOC domain containing 1	-0.23826370642
chromosome 2 open reading frame 42	0.0439482306
family with sequence similarity 76 member A	0.05449897807
zinc finger protein 701	0.05136918537
indoleamine 2,3-dioxygenase 2	0.20642405303
FAM20C golgi associated secretory pathway kinase	-0.13400826561
DEAD-box helicase 6	0.05618908827
potassium two pore domain channel subfamily K member 17	0.21564662841
zinc finger with KRAB and SCAN domains 2	0.08779791895
glutathione S-transferase mu 3	-0.13677478634
ankyrin repeat and death domain containing 1A	-0.0898550733
protein phosphatase 2 regulatory subunit B"gamma	-0.05824982326
switching B cell complex subunit SWAP70	0.0683538487
CD9 molecule	-0.13270155229
hyaluronidase 3	-0.16230043892
NDRG family member 3	0.05538690755
parathymosin	-0.207855808
BCL2 interacting protein 2	-0.072515667
potassium calcium-activated channel subfamily N member 4	0.0765335885
mannosidase alpha class 1B member 1	0.04978190875
zinc finger and BTB domain containing 21	0.081053246
PH domain and leucine rich repeat protein phosphatase 1	0.09281479902
cell division cycle 45	0.25666165199
chloride intracellular channel 3	0.19989591324
heparan sulfate 2-O-sulfotransferase 1	-0.11282501129
serine protease 21	-0.12958724507
hyperpolarization activated cyclic nucleotide gated potassium and sodi	0.11655826746
BEN domain containing 7	-0.16149659652
cleavage stimulation factor subunit 2 tau variant	0.05705175257
shootin 1	-0.10672211816
DExH-box helicase 58	0.17750402922
EH domain containing 1	-0.1062814299
anaphase promoting complex subunit 15	-0.10155654836
4-aminobutyrate aminotransferase	-0.07399001009
phospholipase A2 group IVC	-0.13328525721
adhesion G protein-coupled receptor G3	-0.14973860712
cortactin	-0.21334469132
C-C motif chemokine receptor 9	0.23104931148
DDB1 and CUL4 associated factor 10	-0.04961974833
family with sequence similarity 114 member A1	-0.08890477238
ADAM metallopeptidase with thrombospondin type 1 motif 6	0.14936402208
tetratricopeptide repeat domain 30B	0.12098521349

mitogen-activated protein kinase kinase kinase 2	-0.0761414852
NCK associated protein 1 like	-0.04881987666
nectin cell adhesion molecule 2	-0.13363852823
tyrosyl-DNA phosphodiesterase 1	0.05593140773
solute carrier family 22 member 14	-0.17334731534
SPRY domain containing 3	0.08306424312
extra spindle pole bodies like 1, separase	0.20385960438
DAZ interacting zinc finger protein 3	0.08574886671
GRIP and coiled-coil domain containing 1	0.07958407657
G protein-coupled receptor kinase 5	0.05348757172
PAT1 homolog 2	0.07647113351
tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2	-0.09064037328
dishevelled associated activator of morphogenesis 2	0.44798012954
ornithine decarboxylase 1	-0.13743743613
MYB binding protein 1a	0.06429277308
ZFP82 zinc finger protein	0.07759342639
CDC42 effector protein 1	-0.18100047727
ribosomal protein L39 like	0.18023439715
Wnt family member 7A	-0.13270983889
ADAM metallopeptidase domain 10	-0.05749976023
junctional adhesion molecule 3	-0.12143357012
family with sequence similarity 167 member A	0.14609575607
myosin binding protein C3	-0.11574047118
Spi-1 proto-oncogene	-0.10707183747
FERM domain containing 8	0.06013608364
zinc finger and SCAN domain containing 12	0.08366271856
autophagy related 4B cysteine peptidase	0.0472601557
inosine monophosphate dehydrogenase 2	0.07135245667
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1K	0.09400661454
RNA binding motif protein 18	0.05373979447
cell death inducing DFFA like effector b	-0.07870834447
N-acylethanolamine acid amidase	0.066978955
storkhead box 1	0.23310407151
protein phosphatase 2 regulatory subunit B'delta	0.05296990175
purinergic receptor P2X 1	-0.09215008178
tetratricopeptide repeat domain 39B	0.07713787359
solute carrier family 16 member 5	-0.07057025248
zinc finger with KRAB and SCAN domains 7	-0.10611662774
lymphotoxin beta	-0.08229824975
interferon induced protein 44	0.34464984336
solute carrier family 31 member 2	0.11340940385
sialic acid binding Ig like lectin 8	-0.22128012772
FYVE and coiled-coil domain autophagy adaptor 1	0.06724686903
family with sequence similarity 174 member A	0.10607407493
SECIS binding protein 2 like	0.05957419459
hematopoietically expressed homeobox	-0.09495960755

retrotransposon Gag like 6	0.07783363667
exoribonuclease 1	-0.09563105666
hydroxysteroid 17-beta dehydrogenase 13	-0.11420362969
mitochondrial genome maintenance exonuclease 1	0.04542283309
GNAS complex locus	-0.11529140703
novel protein, identical to neuroblastoma breakpoint family, member 1	-0.09865748336
ectonucleoside triphosphate diphosphohydrolase 7	-0.1339900008
zinc finger protein 292	-0.07615623143
zinc finger protein 684	0.17283436472
transforming growth factor beta receptor 1	-0.06939515907
transketolase	-0.1004837542
WD repeat domain 53	0.05900150894
nuclear transcription factor Y subunit alpha	0.06247641177
3'-phosphoadenosine 5'-phosphosulfate synthase 1	-0.07600251508
netrin G2	-0.1444061799
DExH-box helicase 57	-0.058331486
ADP ribosylation factor 6	0.05402107145
tropomodulin 3	-0.03981673208
mitochondrial carrier 1	0.03959551
calpain 14	0.16326504047
microtubule associated serine/threonine kinase 2	0.06501969284
WD repeat domain 82	0.04605619846
ADAM metallopeptidase with thrombospondin type 1 motif 10	-0.0883350196
NODAL modulator 1	0.06011503811
NUF2 component of NDC80 kinetochore complex	0.16825425545
transmembrane protein 97	0.12428350655
zinc finger protein 766	0.04587476246
tubulin alpha 1c	-0.08355711387
interleukin 10 receptor subunit alpha	0.06189230292
four and a half LIM domains 2	-0.21554327245
frizzled class receptor 6	0.13490091008
cactin, spliceosome C complex subunit	0.05453700721
pleckstrin homology like domain family A member 1	0.12401519935
Holliday junction recognition protein	0.24315206269
N-myristoyltransferase 2	0.06456864365
EGF containing fibulin extracellular matrix protein 2	-0.09332780965
cilia and flagella associated protein 97	0.08567539261
calcium/calmodulin dependent protein kinase II delta	0.06948015822
ATPase H ⁺ transporting V0 subunit d1	-0.08613588093
fem-1 homolog C	-0.08260284341
proline rich basic protein 1	0.19658027443
WD repeat domain 54	0.09507799199
solute carrier family 30 member 6	0.0469192805
SET domain containing 5	-0.04092862723
LRR binding FLII interacting protein 2	-0.06620198878
dynamin 2	-0.04950507558

Y-box binding protein 1	-0.16315835163
bromodomain and PHD finger containing 1	0.05170817157
polypeptide N-acetylgalactosaminyltransferase 6	-0.07360963917
kinesin family member 18B	0.25629994468
protein phosphatase targeting COQ7	0.07115670005
hyaluronan mediated motility receptor	0.25252161955
glucose-fructose oxidoreductase domain containing 2	-0.06664356189
transmembrane protein 241	0.07935985386
zinc finger protein 92	0.12195432965
SEC24 homolog C, COPII coat complex component	0.03937003787
islet cell autoantigen 1	0.08308463405
unc-5 family C-terminal like	0.09457204795
chromosome 3 open reading frame 14	0.19227965913
protein phosphatase 1 catalytic subunit gamma	0.05580242571
Rho guanine nucleotide exchange factor 5	0.13088093079
interleukin 5 receptor subunit alpha	-0.1645103135
CD2 associated protein	0.08585211328
adhesion G protein-coupled receptor A2	-0.12302906011
ankyrin and armadillo repeat containing	0.05816520569
transmembrane protein 214	0.06092025982
Ras and Rab interactor 3	-0.06939878762
mesencephalic astrocyte derived neurotrophic factor	0.08564956035
replication factor C subunit 1	0.0477190265
inhibitor of DNA binding 3, HLH protein	0.1270633311
coiled-coil-helix-coiled-coil-helix domain containing 4	0.0783698468
SPT2 chromatin protein domain containing 1	0.062523092
TRAF interacting protein	0.14910989666
ANKH inorganic pyrophosphate transport regulator	-0.1105053686
WD repeat domain 7	0.04707837053
GLIS family zinc finger 2	-0.25265013545
tubulin gamma complex associated protein 5	0.07093366191
neuromedin U receptor 1	0.16781320583
E2F transcription factor 8	0.27512737109
FES proto-oncogene, tyrosine kinase	-0.08017521608
guanylyl cyclase domain containing 1	-0.13370135394
trimethylguanosine synthase 1	0.04343575383
phosphodiesterase 5A	-0.15894686224
zinc finger protein 107	0.11608108858
pyruvate dehydrogenase kinase 1	-0.07217936906
GrpE like 2, mitochondrial	0.08243038734
interferon induced protein with tetratricopeptide repeats 3	0.28942485143
zinc finger CCCH-type containing 13	0.04099984904
zyg-11 related cell cycle regulator	-0.09944950527
zinc finger protein 614	0.08431212867
kynurenine 3-monooxygenase	0.09229513521
pleckstrin homology domain containing A5	0.09254918383

WD repeat domain 46	0.06191695885
apolipoprotein L4	0.29911873417
serine hydroxymethyltransferase 2	0.08472227876
TAP binding protein	-0.07508387698
C-C motif chemokine receptor 2	-0.12566720464
armadillo repeat containing 3	-0.21739387034
cornichon family AMPA receptor auxiliary protein 3	-0.07899396562
structural maintenance of chromosomes 2	0.09459743622
spliceosome associated factor 3, U4/U6 recycling protein	0.0371808094
USO1 vesicle transport factor	0.05884561174
serine/threonine kinase 11	-0.07999212061
aldehyde dehydrogenase 1 family member A1	-0.12925722638
neutrophil cytosolic factor 2	-0.07611122855
death domain containing 1	0.14541423703
serine protease 23	0.1704333915
dedicator of cytokinesis 4	-0.18877015048
estrogen related receptor alpha	0.0534967743
protein phosphatase 1 regulatory subunit 12A	-0.06143697375
early growth response 1	0.2080306334
glycerol-3-phosphate acyltransferase 4	-0.05005724221
fatty acid desaturase 2	-0.0948047594
transcription factor 19	0.09661995115
ankyrin repeat domain 52	0.04600435059
shiftless antiviral inhibitor of ribosomal frameshifting	0.09902643346
lysophospholipase 1	-0.0627961806
solute carrier family 5 member 9	0.22664490816
TNF receptor superfamily member 1A	-0.08958683599
guanylate cyclase 2D, retinal	0.21124592021
collagen like tail subunit of asymmetric acetylcholinesterase	0.07989231195
RNA binding protein with serine rich domain 1	0.04383359718
phospholipase C eta 2	0.09452673516
dorsal inhibitory axon guidance protein	0.13624438257
replication factor C subunit 2	0.06295013897
semaphorin 3C	0.08894265613
programmed cell death 2	0.05297227619
SOS Ras/Rac guanine nucleotide exchange factor 1	0.04665340152
carboxylesterase 4A	-0.08644126787
GIN5 complex subunit 1	0.15421981148
chromobox 7	0.06532603199
2'-5'-oligoadenylate synthetase like	0.24087926514
noggin	-0.14184404332
regulator of G protein signaling 3	-0.08117699522
heterogeneous nuclear ribonucleoprotein A1 like 2	0.13165490829
phospholipid transfer protein	-0.16257321753
annexin A2	-0.09931458944
RB binding protein 6, ubiquitin ligase	0.05111180136

sorbitol dehydrogenase	-0.0792265948
tousled like kinase 1	-0.06310098688
zinc finger CCCH-type containing 4	0.05115242406
zinc finger protein 335	0.04149483184
KLRC4-KLRK1 readthrough	0.14902704122
damage specific DNA binding protein 2	0.06291551249
UDP glycosyltransferase 8	0.16488699646
phospholipase D1	-0.07714267208
N-alpha-acetyltransferase 30, NatC catalytic subunit	0.06403246292
peptidylprolyl isomerase like 2	0.03627058297
GATA binding protein 3	0.07564577195
thiosulfate sulfurtransferase like domain containing 3	0.0738595066
DEAH-box helicase 16	0.0376488731
golgi SNAP receptor complex member 1	0.03345096165
C-C motif chemokine ligand 3 like 3	0.21478744083
minichromosome maintenance 10 replication initiation factor	0.26863268349
nuclear receptor binding SET domain protein 2	0.05569138769
CDP-diacylglycerol synthase 2	-0.05872901518
cyclin D1 binding protein 1	-0.07497179126
prostaglandin D2 synthase	0.1261633461
scavenger receptor family member expressed on T cells 1	0.11529704063
5'-aminolevulinate synthase 1	-0.06547660914
oxysterol binding protein like 7	0.06981028669
protein O-linked mannose N-acetylglucosaminyltransferase 1 (beta 1,2-	-0.06011401397
TOX high mobility group box family member 2	0.1111077336
Rho GTPase activating protein 44	0.3273310915
mitofusin 2	-0.08207250766
ADP ribosylation factor like GTPase 10	0.06832873644
CTD nuclear envelope phosphatase 1 regulatory subunit 1	-0.06668509358
RNF103-CHMP3 readthrough	0.12211302972
serine incorporator 5	-0.06336982621
inflammation and lipid regulator with UBA-like and NBR1-like domains	0.05146383598
BAG cochaperone 4	-0.04255374884
N-terminal EF-hand calcium binding protein 3	0.08871553819
sterile alpha motif domain containing 8	-0.05679328201
Yip1 interacting factor homolog B, membrane trafficking protein	-0.06377309109
dishevelled segment polarity protein 2	0.05427127677
solute carrier family 38 member 1	0.08173268125
RasGEF domain family member 1A	0.11391633527
post-GPI attachment to proteins phospholipase 3	0.06309813415
copine family member 9	-0.17920704922
sorting nexin 5	0.05762505548
cytochrome b561 family member A3	0.06836306161
zinc finger protein 136	0.0574071021
centromere protein J	0.08314608036
pecanex 3	0.04840437493

solute carrier organic anion transporter family member 5A1	0.21862828971
cadherin related family member 3	0.08941164597
chromosome 12 open reading frame 66	0.08139424787
TEK receptor tyrosine kinase	0.26716597661
ATPase family AAA domain containing 5	0.09562205041
abhydrolase domain containing 5, lysophosphatidic acid acyltransferase	0.10574527313
zinc finger and SCAN domain containing 9	0.07392528072
chromosome 12 open reading frame 45	0.0816577878
heat shock protein family B (small) member 11	0.06456192983
solute carrier family 30 member 4	0.08429540299
prostaglandin D2 receptor	0.13972582702
tripartite motif containing 46	0.08440145261
adaptor related protein complex 2 subunit mu 1	-0.10617134877
DENN domain containing 4C	0.04944639382
transmembrane protein 183A	-0.05453610763
fascin actin-bundling protein 1	-0.14054183818
spermatogenesis associated 1	-0.14263703659
RNA binding motif protein 4B	0.04740596906
leukocyte immunoglobulin like receptor B4	-0.1166656543
spermidine/spermine N1-acetyltransferase family member 2	-0.0804161118
NIPA magnesium transporter 1	0.06494977389
tetratricopeptide repeat domain 28	0.15024426943
transmembrane serine protease 3	0.13169074249
centrosomal protein 152	0.06861905948
transmembrane protein 64	-0.09477078109
homeobox A1	0.17692606778
origin recognition complex subunit 6	0.16114997049
mechanistic target of rapamycin kinase	0.04740804532
oxysterol binding protein	0.03278258576
ATM interactor	0.05531345743
solute carrier family 39 member 6	0.06171941591
E2F transcription factor 3	-0.08510071086
BCL9 transcription coactivator	-0.0605103337
laminin subunit alpha 2	0.20247798864
calcineurin like phosphoesterase domain containing 1	0.0921112855
cyclin G2	0.08515797531
cyclin T1	0.05265867212
proteasome 20S subunit alpha 1	0.08408094106
RNA exonuclease 1 homolog	0.04738629023
tet methylcytosine dioxygenase 1	0.1194812502
nicastatin	-0.05840488178
transmembrane protein 109	0.08048747534
acyl-CoA synthetase long chain family member 3	-0.06763846144
TNFRSF1A associated via death domain	0.0461664368
Smad nuclear interacting protein 1	0.04737338332
receptor transporter protein 4	0.22694231347

uridine-cytidine kinase 2	0.07723252342
MTOR associated protein, eak-7 homolog	0.05857871437
synapsin II	-0.24725003748
microtubule interacting and trafficking domain containing 1	-0.07455413828
zinc finger protein 317	0.03986925281
zinc finger RANBP2-type containing 1	-0.07576409597
cAMP-dependent protein kinase inhibitor gamma	0.09391511333
CD27 molecule	0.08689379017
mitochondrial translational initiation factor 3	0.05967981422
A-kinase anchoring protein 9	0.05687802329
RUNX family transcription factor 1	-0.05600488521
TXK tyrosine kinase	-0.07918368141
transcription activation suppressor family member 2	0.07008214719
poly(ADP-ribose) polymerase family member 12	0.14408268549
CD47 molecule	0.05885488214
TPD52 like 2	-0.06432798351
Rho GTPase activating protein 35	0.0451751812
flagellum associated containing coiled-coil domains 1	-0.10332176442
acyl-CoA synthetase medium chain family member 3	-0.11577486508
coiled-coil domain containing 125	0.0774344526
novel protein	0.18159303005
D-glutamate cyclase	0.07592562359
ECSIT signaling integrator	-0.10228117889
lysine demethylase 2A	-0.05527728692
succinate dehydrogenase complex assembly factor 3	-0.10626532528
dopamine receptor D4	0.17566051713
solute carrier family 44 member 1	-0.05502083657
zinc finger DHHC-type containing 11B	0.18818288564
ADP ribosylation factor guanine nucleotide exchange factor 1	-0.04298696622
DNA methyltransferase 3 alpha	-0.04148910906
plexin A2	0.11713530408
cyclase associated actin cytoskeleton regulatory protein 1	-0.07680767497
transforming growth factor alpha	-0.11963577721
PAXX non-homologous end joining factor	0.07550351705
Janus kinase 2	-0.09321290992
C-X-C motif chemokine ligand 8	0.25046220862
zinc finger CCHC-type containing 4	0.07156047583
fucosyltransferase 7	-0.13207068213
GTPase, IMAP family member 4	0.08802547456
kelch like family member 23	0.07464104871
syntaxin 10	-0.07133879469
TAO kinase 2	0.04385849855
H3 clustered histone 6	0.12457871929
protein tyrosine phosphatase receptor type N2	0.0993042291
purinergic receptor P2X 7	-0.09622274979
zinc finger protein 101	-0.04596236129

transmembrane protein 170B	-0.08661716559
phosphoinositide-3-kinase regulatory subunit 3	0.14218534309
clustered mitochondria homolog	0.06134634806
transport and golgi organization 2 homolog	-0.07214065086
catenin alpha 1	-0.06553501076
testis expressed 14, intercellular bridge forming factor	0.20234900841
integrator complex subunit 7	0.05826085111
phospholipase D family member 5	0.2505623154
DEP domain containing 1B	0.19404380901
exostosin like glycosyltransferase 2	0.11738435713
LHFPL tetraspan subfamily member 5	-0.2408951688
selenoprotein T	-0.06621788785
family with sequence similarity 209 member B	-0.15159642516
solute carrier family 24 member 3	-0.12642637165
CEA cell adhesion molecule 21	0.04668091434
zinc finger DHHC-type containing 24	0.04182240217
ADP ribosylation factor like GTPase 4C	0.07378000051
cysteine and serine rich nuclear protein 1	-0.13008364127
utrophin	0.07996714062
dimethylarginine dimethylaminohydrolase 2	-0.09648513715
yrdC N6-threonylcarbamoyltransferase domain containing	0.06375619203
achaete-scute family bHLH transcription factor 2	0.13218065717
myelin expression factor 2	0.13091787433
coiled-coil domain containing 194	0.21135685525
myosin XIX	0.05270531414
germinal center associated signaling and motility like	-0.19020796389
metal response element binding transcription factor 2	0.04968006613
shroom family member 1	-0.12231906796
lectin, mannose binding 1	0.07799692263
mucolipin 3	-0.14998917522
fibroblast growth factor receptor 2	-0.17773932458
selenoprotein K	-0.12829940718
lysophosphatidylcholine acyltransferase 1	0.06292577968
SH2 domain containing 1B	0.16943203238
transmembrane protein 40	-0.18897862837
CDC like kinase 3	-0.04599936851
prolyl 4-hydroxylase subunit alpha 1	-0.04549198502
PX domain containing 1	0.13253532809
tectonin beta-propeller repeat containing 1	-0.04873992643
SKI like proto-oncogene	-0.07619774681
24-dehydrocholesterol reductase	-0.1142931629
zinc finger protein 227	0.06177756277
2'-5'-oligoadenylate synthetase 1	0.2217910962
proline-serine-threonine phosphatase interacting protein 2	-0.14690501584
RNA binding motif protein 15	0.06924369117
poly(ADP-ribose) polymerase family member 3	0.0873251098

NFKB activating protein like	0.18021445964
spermatogenesis associated 6	0.12395723514
papilin, proteoglycan like sulfated glycoprotein	0.14865621362
phosphoenolpyruvate carboxykinase 2, mitochondrial	0.06862654367
DLG associated protein 3	0.14349279356
activating transcription factor 6	-0.07179247439
ankyrin repeat and SOCS box containing 13	-0.07778798205
NADH:ubiquinone oxidoreductase complex assembly factor 7	-0.07172293962
C-type lectin domain containing 11A	-0.15543918569
negative regulator of ubiquitin like proteins 1	0.09706134596
transforming growth factor beta regulator 1	0.03966229905
ganglioside induced differentiation associated protein 1	0.0775306277
G protein subunit alpha o1	0.1008368447
solute carrier family 35 member F3	0.12271004659
ADP ribosylation factor like GTPase 4A	-0.14459268018
ATPase phospholipid transporting 8B2	0.06189700016
inositol polyphosphate-5-phosphatase B	0.04349201321
cysteine rich with EGF like domains 2	0.06449605604
sprouty related EVH1 domain containing 1	0.1338128903
centrosomal protein 170	-0.06070563249
small nuclear ribonucleoprotein U5 subunit 200	0.04215985506
potassium channel modulatory factor 1	-0.0452546953
obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF	-0.08924238549
solute carrier family 6 member 6	-0.07939511372
SCY1 like pseudokinase 3	0.0472841467
microtubule associated monooxygenase, calponin and LIM domain con	0.07264977248
protein tyrosine phosphatase non-receptor type 1	0.05253152092
RAB8A, member RAS oncogene family	0.08166610124
ferritin heavy chain 1	-0.14553654367
BCL2 antagonist/killer 1	0.09030675274
solute carrier family 40 member 1	-0.10750717779
protein kinase C epsilon	0.11143257567
PHD finger protein 12	-0.06593138771
tubulin beta class I	0.07366964919
microsomal glutathione S-transferase 3	-0.05229510403
frizzled class receptor 3	0.10434007696
zinc finger protein 669	0.08029129698
protein phosphatase 1 regulatory subunit 9A	0.18759942303
chloride intracellular channel 1	-0.09177504996
solute carrier family 44 member 3	-0.16755924919
potassium voltage-gated channel subfamily A member 3	0.09412782486
GM2 ganglioside activator	-0.08426487582
ADP ribosylation factor like GTPase 17B	-0.08939199982
C-C motif chemokine receptor 8	0.17075594513
doublecortin like kinase 2	0.21680816248
PR/SET domain 1	0.08935134991

FGR proto-oncogene, Src family tyrosine kinase	0.08532766769
protein kinase cAMP-dependent type II regulatory subunit alpha	-0.07343780229
family with sequence similarity 71 member F2	-0.0481392129
5-phosphohydroxy-L-lysine phospho-lyase	-0.11185827024
dystonin	-0.05222825253
chromosome 13 open reading frame 46	0.1006325702
methyltransferase like 4	-0.12182166601
neuronal pentraxin receptor	0.07176169167
EF-hand domain family member D2	-0.09109133263
tet methylcytosine dioxygenase 2	-0.08691165682
aspartic peptidase retroviral like 1	-0.0897332607
histone deacetylase 3	0.13613656176
ghrelin and obestatin prepropeptide	0.03789223344
IQ motif containing D	-0.12118827706
alpha-N-acetylgalactosaminidase	-0.1929027444
phosphatidylinositol transfer protein membrane associated 2	-0.08594229621
suppression of tumorigenicity 7 like	-0.06285626255
kinesin family member 15	-0.05184473874
cyclic nucleotide gated channel subunit alpha 4	0.13518827956
interleukin 34	-0.13353386931
SEC22 homolog B, vesicle trafficking protein (gene/pseudogene)	-0.2186025962
transcription factor 7 like 1	-0.0542813431
serglycin	0.2127098582
round spermatid basic protein 1	-0.10533627699
dynactin subunit 4	-0.069905977
DBF4 zinc finger B	-0.04942395063
C2 calcium dependent domain containing 5	0.08733788454
zwilch kinetochore protein	0.07386008567
dipeptidase 2	0.08228466133
ras homolog family member T1	0.09357210801
NPL4 homolog, ubiquitin recognition factor	-0.05646906273
abhydrolase domain containing 17A, depalmitoylase	-0.03442561821
ZW10 interacting kinetochore protein	0.06577878314
zinc finger protein 66	0.18234351005
treacle ribosome biogenesis factor 1	0.10158892869
CCR4-NOT transcription complex subunit 10	0.05225267912
leukocyte immunoglobulin like receptor B2	0.0346607585
apoptosis antagonizing transcription factor	-0.06605811968
MOK protein kinase	0.04285041063
solute carrier family 23 member 2	0.1535408105
leucine rich repeat protein 1	0.06138786575
acylglycerol kinase	0.06883487695
crystallin zeta	0.05542830079
polyhomeotic homolog 1	0.10209753129
WD repeat containing antisense to TP53	0.06939709282
	0.07471659029

interleukin 1 receptor type 2	-0.17444073955
sphingosine-1-phosphate receptor 5	0.1502899964
glutathione peroxidase 7	0.07366145358
glycoprotein nmb	-0.191207831
DEK proto-oncogene	0.07830973501
FRAT regulator of WNT signaling pathway 2	-0.11135669869
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta	-0.06286329393
adaptor related protein complex 2 subunit alpha 1	-0.08394162693
DDB1 and CUL4 associated factor 16	0.06529237528
pecanex 2	0.05875732494
LDL receptor related protein 6	-0.1239475572
negative elongation factor complex member A	0.04106378699
integrin subunit alpha 9	-0.16820598127
MER proto-oncogene, tyrosine kinase	-0.13394373496
1-acylglycerol-3-phosphate O-acyltransferase 4	0.0751040753
arachidonate 15-lipoxygenase	-0.20510073332
NADH:ubiquinone oxidoreductase complex assembly factor 1	-0.05406498631
enoyl-CoA delta isomerase 2	0.05235242167
activating transcription factor 3	0.24026848234
ring finger protein 32	0.16059203911
6-pyruvoyltetrahydropterin synthase	0.06638194411
coiled-coil domain containing 102A	0.08874444575
coiled-coil domain containing 163	0.10784909366
pre T cell antigen receptor alpha	-0.1924096426
glycerophosphodiester phosphodiesterase domain containing 3	-0.08574312945
cilia and flagella associated protein 20	0.05343222536
actin related protein 2/3 complex subunit 5 like	0.05666833573
proteasome activator subunit 3	0.05812320084
serine/threonine kinase 39	0.06019955432
syntaphilin	-0.08382652879
ring finger protein 130	-0.05173350743
sideroflexin 3	0.04754665616
H2A.W histone	-0.16807893563
glutathione-disulfide reductase	-0.06109820224
derlin 1	0.04473552959
phospholipase A and acyltransferase 4	0.10829418723
DBF4 zinc finger	0.06676668901
3-hydroxybutyrate dehydrogenase 2	0.11307762576
sushi domain containing 4	-0.09774663611
adenosine kinase	0.07546382826
UBA domain containing 1	-0.0531321951
tubulin polymerization promoting protein	0.13612606759
protein tyrosine phosphatase receptor type M	0.09252737662
calcyphosine 2	0.09476977168
mercaptopyruvate sulfurtransferase	-0.08887548249
transmembrane 131 like	-0.05112903149

N-acetyltransferase 1	0.0888475613
HemK methyltransferase family member 1	-0.0564331572
endothelin 1	-0.14498988244
C-type lectin domain family 4 member D	-0.16291840694
BEN domain containing 3	0.13203153086
transmembrane protein 134	0.06286208404
mitogen-activated protein kinase 3	-0.09800678967
purine rich element binding protein B	0.05866550235
solute carrier family 18 member A2	-0.13559405592
endoplasmic reticulum protein 27	-0.06565825117
epidermal growth factor receptor pathway substrate 8	0.14604582708
proline rich transmembrane protein 3	-0.08371593918
acyl-CoA synthetase short chain family member 2	-0.05652299018
nudix hydrolase 5	0.0636485122
TBC1 domain family member 14	-0.07591334995
Charcot-Leyden crystal galectin	-0.16951791461
GIT ArfGAP 1	0.06156736689
malic enzyme 2	-0.04535561539
denticleless E3 ubiquitin protein ligase homolog	0.19372942042
enamelin	0.3285826852
sodium channel modifier 1	-0.04834943439
fatty acid desaturase 3	0.08370089597
acid phosphatase 1	-0.08227788194
ubiquitin domain containing 2	-0.06615131209
EF-hand calcium binding domain 2	-0.11261446218
decapping enzyme, scavenger	0.04791833937
MIS18 binding protein 1	0.07247939709
ral guanine nucleotide dissociation stimulator like 3	0.16335335061
HEAT repeat containing 5B	0.04953138573
transmembrane and coiled-coil domain family 1	0.09893707029
elongator acetyltransferase complex subunit 2	0.05083926995
PVR cell adhesion molecule	-0.08885479309
PLAG1 zinc finger	-0.07431237491
heat shock protein 90 beta family member 1	0.08815797922
coiled-coil domain containing 32	0.03755198414
UBX domain protein 2B	-0.07698813724
lysosomal associated membrane protein 1	-0.06494956283
glutamic-oxaloacetic transaminase 2	0.05222260022
lymphatic vessel endothelial hyaluronan receptor 1	-0.12170807854
glucosamine (N-acetyl)-6-sulfatase	-0.07078916232
synaptonemal complex protein 2	-0.11483205184
ubiquitin specific peptidase 1	0.067243657
phospholipase A2 group IVA	-0.0784720852
chitinase domain containing 1	-0.06413009115
novel lipoprotein amino terminal region containing protein	-0.14077525756
telomeric repeat binding factor 1	0.04452989004

bone morphogenetic protein 8b	0.13122612872
ADAM metallopeptidase domain 23	0.11001193908
pleckstrin homology domain containing O1	0.08061843544
Bcl2 modifying factor	-0.06234270443
solute carrier family 8 member A1	-0.12048803873
synaptotagmin 12	-0.25884042076
c-Maf inducing protein	-0.06801425651
high mobility group nucleosome binding domain 1	0.06496067585
aurora kinase B	0.1399902732
frizzled class receptor 5	-0.17542487734
G protein-coupled receptor 27	-0.12273119147
zinc finger protein like 1	0.05084272751
CD300e molecule	-0.13252583981
RAB40C, member RAS oncogene family	-0.05416275495
dual specificity phosphatase 2	0.15358947712
HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2	0.12322450758
dual specificity tyrosine phosphorylation regulated kinase 2	0.07318841752
DExD/H-box helicase 60	0.20159216742
caveolae associated protein 2	-0.17145329552
PTTG1 regulator of sister chromatid separation, securin	0.13430312011
YTH N6-methyladenosine RNA binding protein 1	0.03762464659
MYCBP associated protein	0.13952465912
cell cycle and apoptosis regulator 2	0.04132003166
zinc finger protein 329	0.06230251898
NBPF member 10	-0.09441787657
adenosine deaminase tRNA specific 1	0.0754881347
family with sequence similarity 53 member C	-0.08565054999
nucleic acid binding protein 1	-0.09784972993
chromobox 8	0.09948498541
interferon induced protein with tetratricopeptide repeats 2	0.20370687836
regulator of calcineurin 2	0.23328754794
LBH regulator of WNT signaling pathway	0.06502457109
vasoactive intestinal peptide receptor 2	0.17444102746
mannosidase endo-alpha like	0.12928562759
cyclin dependent kinase 6	-0.05729798205
peptidase inhibitor 16	0.09410874307
RAD17 checkpoint clamp loader component	0.05203163111
high mobility group nucleosomal binding domain 2	0.06271166355
CD52 molecule	0.1236616185
AMMECR1 like	0.04719855172
WD repeat domain 63	0.10474117517
SPC24 component of NDC80 kinetochore complex	0.16896984324
phosphomevalonate kinase	0.07766154468
terminal nucleotidyltransferase 4A	0.05657454938
mitochondrial ribosomal protein L44	0.08041173731
mitogen-activated protein kinase 1	-0.06393510284

dynein axonemal intermediate chain 2	0.11894318552
guanosine monophosphate reductase 2	-0.05412368926
BCAS2 pre-mRNA processing factor	0.05267773935
phosphatidylinositol glycan anchor biosynthesis class B	0.08986423607
sphingolipid transporter 3 (putative)	-0.12865205785
decapping mRNA 2	-0.05436967477
tyrosine kinase non receptor 1	-0.12080610782
angiopoietin like 6	0.14560626685
fibroblast growth factor binding protein 2	0.17190008479
sequestosome 1	-0.07208695149
growth factor receptor bound protein 2	-0.05900758247
ras homolog family member F, filopodia associated	0.07210111644
TBCC domain containing 1	0.06199037745
ras responsive element binding protein 1	-0.04527902449
N-terminal asparagine amidase	-0.081248115
intermediate filament family orphan 2	0.06911623986
succinate dehydrogenase complex subunit C	-0.0385008531
ribosomal RNA processing 1B	0.04619500878
glycoprotein integral membrane 1	0.04050275945
sacsin molecular chaperone	0.10338265612
TP53 regulating kinase	0.06105481301
zinc finger protein 441	0.10347605868
zinc finger AN1-type containing 2A	0.05771742659
C-C motif chemokine receptor 7	-0.08678531402
dihydrolipoamide S-succinyltransferase	0.03048197881
rabaptin, RAB GTPase binding effector protein 1	0.03426830481
cyclin dependent kinase 2 associated protein 2	0.09402920587
TRAF interacting protein with forkhead associated domain	-0.12664270725
L3MBTL histone methyl-lysine binding protein 3	0.04697600859
HAUS augmin like complex subunit 6	0.0682857311
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1G	0.05063596744
transmembrane p24 trafficking protein 10	0.04137743174
proline rich 3	0.04384302539
endoplasmic reticulum aminopeptidase 1	0.05164762693
oligosaccharyltransferase complex subunit 4, non-catalytic	-0.11996294001
poly(A) binding protein cytoplasmic 1 like	-0.06389268502
zinc finger protein 226	0.08089626479
basic transcription factor 3	-0.10061334685
E2F transcription factor 2	-0.14041118231
ADAM metallopeptidase with thrombospondin type 1 motif 1	0.17675478011
microtubule associated protein RP/EB family member 2	0.03759527822
family with sequence similarity 78 member A	0.05078855077
chromosome 7 open reading frame 61	-0.10549173187
zinc finger protein 641	-0.04790592394
sulfide quinone oxidoreductase	-0.08011635916
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 3	-0.12383149421

collagen type IX alpha 2 chain	0.17208480397
NADH:ubiquinone oxidoreductase core subunit V1	0.05205724875
DDHD domain containing 2	0.0618540103
mitochondrial ribosomal protein L10	0.06544999516
Fc receptor like 1	0.1276056248
UDP-glucuronate decarboxylase 1	-0.04247571044
Scm polycomb group protein like 4	0.06383036434
RAD54 like	0.20231154289
PITPNM family member 3	0.16758695533
clock circadian regulator	0.04760976916
thioredoxin like 4A	-0.0384024801
coiled-coil domain containing 138	0.06955090954
prostaglandin-endoperoxide synthase 2	0.12334178127
TNF superfamily member 4	-0.12767034089
insulin like growth factor 1 receptor	-0.09956906686
protein disulfide isomerase family A member 3	0.05313492957
WD and tetratricopeptide repeats 1	-0.07848474527
caspase 8	0.05036090555
FYN binding protein 1	-0.05947855197
zinc finger protein 367	0.07380710365
ninjurin 2	-0.08170376225
coiled-coil domain containing 88A	-0.07687567827
arginine and serine rich protein 1	-0.05372729113
EF-hand calcium binding domain 14	0.04314422378
zinc finger and BTB domain containing 46	0.1007686885
cytochrome P450 family 2 subfamily U member 1	0.07405332947
cyclin dependent kinase 14	-0.08669520832
nuclear factor of activated T cells 1	0.04059850189
zinc finger protein 706	0.03943433957
regulator of chromosome condensation 1	0.05150261023
THAP domain containing 6	0.05383632694
calcium binding and coiled-coil domain 1	0.04822204786
family with sequence similarity 126 member A	0.06210222591
nucleoporin 42	0.04995914769
LIM domain kinase 1	-0.10559221485
NGFI-A binding protein 2	0.07986045696
glutamyl-tRNA synthetase 2, mitochondrial	0.05260335289
TraB domain containing	-0.04847469868
endosome-lysosome associated apoptosis and autophagy regulator 1	-0.09887277749
mex-3 RNA binding family member C	0.07492365996
lysosomal trafficking regulator	-0.06127581189
zinc finger protein 131	0.03359430564
semaphorin 6B	-0.24551710398
transforming growth factor beta induced	-0.09340389931
TRIM59 and iFT80 readthrough	0.09719930215
cytochrome P450 family 27 subfamily A member 1	-0.10936899277

ubiquitin specific peptidase 18	0.27539617132
tubulin folding cofactor C	0.05574782772
cAMP-dependent protein kinase inhibitor alpha	0.07246980226
DnaJ heat shock protein family (Hsp40) member C9	0.05107254588
MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	0.05516944562
lysine acetyltransferase 2B	-0.05842805572
inositol polyphosphate multikinase	-0.07814627763
zinc finger protein 720	0.06634982207
DEAD-box helicase 43	0.13440399504
F-box protein 39	0.25103014704
lysine acetyltransferase 6A	-0.05466214559
cytoplasmic FMR1 interacting protein 2	-0.0427555243
mitogen-activated protein kinase kinase kinase 13	0.07344604126
sushi, nidogen and EGF like domains 1	0.07999928899
bromodomain adjacent to zinc finger domain 1B	0.03667057638
tyrosylprotein sulfotransferase 1	0.2039293335
thymidylate synthetase	0.20195540717
centromere protein U	0.11880341564
haloacid dehalogenase like hydrolase domain containing 5	-0.04758916442
MALT1 paracaspase	0.0432157611
TEA domain transcription factor 2	0.1943760194
outer dense fiber of sperm tails 2	0.04061525646
zinc finger protein 90	0.12282060113
RNA binding motif protein 22	0.04244913256
centrosomal protein 131	0.06666153022
transmembrane protein 255B	-0.12936969129
novel protein, readthrough between OAZ1 and SPPL2B	-0.07119943794
sialic acid binding Ig like lectin 1	0.32884371278
ras homolog family member C	0.1213323795
G protein-coupled receptor 135	0.0791957324
replication factor C subunit 4	0.08185614552
centrosomal protein 295	0.05522859587
PML-RARA regulated adaptor molecule 1	-0.07587863714
HECT and RLD domain containing E3 ubiquitin protein ligase family m	0.14697522303
protein phosphatase 1 regulatory subunit 7	0.03792007556
kinetochore associated 1	0.06969824735
ETS variant transcription factor 7	0.27723915823
abhydrolase domain containing 8	-0.07178300276
GIN5 complex subunit 2	0.20072582717
delta like canonical Notch ligand 1	0.13494609317
ribosomal RNA processing 8	0.04163233311
DNA cross-link repair 1B	-0.07503871357
DNA cross-link repair 1C	0.03388832368
chromosome 5 open reading frame 34	0.11188393922
ALG2 alpha-1,3/1,6-mannosyltransferase	0.05517730423
leukocyte immunoglobulin like receptor A2	-0.08220159451

CD8a molecule	0.08642199482
dipeptidyl peptidase 3	0.06471538642
Sp4 transcription factor	0.05484835307
ATP binding cassette subfamily D member 4	0.04940694535
centromere protein M	0.19944883083
SMG7 nonsense mediated mRNA decay factor	-0.05551140055
cerebellin 3 precursor	0.10115683127
intraflagellar transport 22	0.13039326377
zinc finger protein 33A	0.06398004414
ATPase family AAA domain containing 2	0.06819493054
talin 1	-0.08018113303
golgin A5	0.03898714402
heterogeneous nuclear ribonucleoprotein A0	0.05158647453
FYVE, RhoGEF and PH domain containing 2	0.08436128248
IKBKB interacting protein	0.08574967259
novel protein, SIRPB1-SIRPD readthrough	-0.07552167871
phenylalanyl-tRNA synthetase subunit beta	0.04906525017
exostosin glycosyltransferase 2	0.0374028609
MOB kinase activator 1B	-0.06502067068
membrane integral NOTCH2 associated receptor 1	-0.12294057013
Kruppel like factor 7	-0.06525301656
F-box and leucine rich repeat protein 6	0.074607631
twinfilin actin binding protein 2	-0.07541194451
mediator complex subunit 28	0.0420532033
erythrocyte membrane protein band 4.1	-0.09587270158
single stranded DNA binding protein 3	-0.06319058565
Fc fragment of IgG binding protein	-0.0953182407
OCIA domain containing 2	0.07686988893
family with sequence similarity 209 member A	-0.07812801725
interferon induced protein with tetratricopeptide repeats 5	0.16371601651
KH domain containing 1	0.13552071825
L3MBTL histone methyl-lysine binding protein 4	0.08739215488
trafficking kinesin protein 1	0.03657285883
adenosylhomocysteinase	0.07212017271
flavin adenine dinucleotide synthetase 1	0.05258521223
ubiquitin conjugating enzyme E2 T	0.14979974258
BICD cargo adaptor 1	0.06000417378
Rho guanine nucleotide exchange factor 10 like	-0.09884210314
G protein-coupled receptor 183	0.08848146878
BICD cargo adaptor 2	-0.059444448182
V-set pre-B cell surrogate light chain 3	0.1535765945
GABA type A receptor associated protein like 2	-0.07552966644
KxDL motif containing 1	0.04142542513
receptor tyrosine kinase like orphan receptor 2	0.26921474776
CKLF like MARVEL transmembrane domain containing 8	-0.09223442073
ATP binding cassette subfamily C member 6	-0.0970749371

zinc finger protein 160	0.05196673938
collagen type VI alpha 1 chain	-0.11218945123
PDZ and LIM domain 2	0.06252548924
chromosome 18 open reading frame 25	0.06674856741
uridine phosphorylase 2	0.09717683328
glutaredoxin 3	0.05011404086
otoferlin	0.35218316356
elongator acetyltransferase complex subunit 3	0.04244116343
ERCC excision repair 1, endonuclease non-catalytic subunit	0.04791724944
Enah/Vasp-like	0.05086712999
isoleucyl-tRNA synthetase 1	0.04552334934
ligand dependent nuclear receptor corepressor like	0.04043572213
aldo-keto reductase family 1 member E2	-0.12480080445
unc-51 like kinase 3	0.05128070759
killer cell lectin like receptor C2	0.1757132133
cyclin dependent kinase 2 interacting protein	-0.05226038939
centrosomal protein 57	0.06365226187
diacylglycerol lipase beta	-0.03750015587
LDL receptor related protein 1	-0.12300383207
adenylosuccinate synthase 1	-0.12499686217
DNA ligase 3	0.04505784009
protein phosphatase 1 regulatory subunit 8	0.04354035323
synaptopodin 2	0.13366371732
beta-1,4-galactosyltransferase 5	-0.09864599213
organic solute carrier partner 1	0.17297277729
caspase recruitment domain family member 9	-0.08742220081
SH3 domain binding kinase 1	0.08090463145
ring finger protein 217	-0.09519228039
NOP16 nucleolar protein	0.07612709119
AT-rich interaction domain 1B	0.04293669667
5-hydroxymethylcytosine binding, ES cell specific	0.04352686205
zinc finger protein 28	0.06050702814
oxysterol binding protein like 1A	-0.07864598222
thrombomodulin	0.12260643199
glycogen synthase 1	-0.04541464168
kinesin family member 3B	0.03554062368
hydroxysteroid 17-beta dehydrogenase 7	0.05561288874
ring finger protein 14	-0.06281657135
phosphoinositide-3-kinase regulatory subunit 6	-0.08036659291
nuclear cap binding subunit 3	0.04449596049
transmembrane protein 263	0.06406076562
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4	-0.07863255308
fibrosin like 1	0.03963986408
zinc finger protein 446	0.07045731896
acyl-CoA synthetase long chain family member 5	0.04669001059
DNA polymerase mu	0.04144087022

potassium inwardly rectifying channel subfamily J member 10	-0.17307040188
SH3 domain containing GRB2 like 1, endophilin A2	-0.05642344273
voltage dependent anion channel 1	0.05771355433
ATPase family AAA domain containing 3A	0.06496018497
SLP adaptor and CSK interacting membrane protein	0.08014313545
ADP ribosylation factor like GTPase 8A	-0.0633698605
SUMO specific peptidase 1	0.04273829084
tripartite motif containing 38	0.06206081414
zinc finger protein 117	0.12738110507
MRE11 homolog, double strand break repair nuclease	0.05469912047
mediator complex subunit 16	-0.06218421403
synapsin III	0.15821824259
PGAM family member 5, mitochondrial serine/threonine protein phosph	0.06573003282
leucine rich repeat and Ig domain containing 2	0.19245578703
TBC1 domain family member 10C	0.05262936394
geminin DNA replication inhibitor	0.11400638926
apoptosis inducing factor mitochondria associated 2	0.06693439787
nth like DNA glycosylase 1	0.09481092398
fibulin 2	0.11836896098
melanocyte inducing transcription factor	-0.10977806771
absent in melanoma 2	-0.1645324516
delta 4-desaturase, sphingolipid 2	0.16093758664
nucleolar and coiled-body phosphoprotein 1	0.04851686224
hexokinase domain containing 1	-0.09348347653
chromosome 6 open reading frame 136	0.04947963068
calcium voltage-gated channel auxiliary subunit alpha2delta 4	-0.05774829399
solute carrier family 28 member 3	-0.22289475313
anaphase promoting complex subunit 7	0.03430460043
protein phosphatase 1 regulatory inhibitor subunit 14B	0.08959594931
DTW domain containing 1	0.06748977718
zinc finger homeobox 3	-0.08594368629
prickle planar cell polarity protein 2	0.28903750799
chromosome 10 open reading frame 105	0.1204459367
spondin 2	0.13977592145
zinc finger CCHC-type containing 7	0.0647618884
glutamine amidotransferase like class 1 domain containing 3B	0.08132940785
exosome component 6	0.05468681198
SET binding factor 1	0.04365616663
G protein subunit gamma transducin 2	0.08455902363
zinc finger protein 671	0.04300273623
protein phosphatase 1 regulatory subunit 21	-0.03993258295
influenza virus NS1A binding protein	-0.06779680005
phosducin like	0.04130050616
centlein	-0.08319276134
phospholipase D family member 3	-0.05110201409
interleukin 27	-0.18457185596

NADH:ubiquinone oxidoreductase complex assembly factor 3	-0.09515696773
myosin IB	0.17475394634
activating transcription factor 7 interacting protein	0.04407841999
phospholipase C like 2	-0.05041259871
serum/glucocorticoid regulated kinase family member 3	-0.05052638438
PAS domain containing serine/threonine kinase	0.06916122515
kinesin family member 24	0.1369488382
matrix metalloproteinase 28	-0.12017556149
zinc finger homeobox 2	-0.12069585039
glutaminase	0.06600009311
1-acylglycerol-3-phosphate O-acyltransferase 5	0.06732897669
homeobox B3	0.09546019019
cation channel sperm associated auxiliary subunit beta	0.08308788997
FosB proto-oncogene, AP-1 transcription factor subunit	0.18696579531
leucine rich repeat and coiled-coil centrosomal protein 1	0.11383734009
lipolysis stimulated lipoprotein receptor	-0.07819321439
citron rho-interacting serine/threonine kinase	0.15180858863
ATPase H ⁺ transporting V0 subunit a2	0.03849799726
ATP/GTP binding protein like 5	-0.06916332783
neural precursor cell expressed, developmentally down-regulated 9	0.07598855976
ABCF2-H2BE1 readthrough	0.13791154695
inhibin subunit beta B	-0.21094824983
RAS like proto-oncogene B	-0.0864239551
colony stimulating factor 2 receptor subunit beta	-0.08890947254
acyl-CoA thioesterase 11	-0.11384158101
RUN and FYVE domain containing 1	-0.05697063613
SH3 domain containing 19	0.18536290725
jumonji and AT-rich interaction domain containing 2	0.06896959041
deltex E3 ubiquitin ligase 3	0.0719928368
killer cell lectin like receptor F1	0.15695501648
anaphase promoting complex subunit 5	0.0347565972
PHD finger protein 7	0.05696702812
methionine sulfoxide reductase A	-0.07334550488
Rho guanine nucleotide exchange factor 19	0.07362084896
opsin 3	0.05755362287
TUB like protein 4	0.04948690745
methylenetetrahydrofolate reductase	-0.04656416062
terminal uridylyl transferase 4	0.04968564489
DNA cross-link repair 1A	0.08932140119
ariadne RBR E3 ubiquitin protein ligase 1	0.02696425602
cerebral endothelial cell adhesion molecule	0.14843274189
zinc finger protein 600	0.07555342772
isochorismatase domain containing 1	0.06246425508
unc-13 homolog B	0.1296580009
CD70 molecule	0.10426076391
tectonic family member 3	0.047807624

arginyl-tRNA synthetase 2, mitochondrial	0.04850595163
carnosine dipeptidase 2	0.07379223425
DDB1 and CUL4 associated factor 4	0.06627778955
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2	0.06345501684
adducin 1	-0.04903866615
SLC9A3 regulator 1	0.06937257996
nucleoporin 155	0.04163000336
A-kinase anchoring protein 5	0.18054930833
NADH:ubiquinone oxidoreductase subunit B2	0.06200706477
phosphatase domain containing paladin 1	0.15612870565
dermatan sulfate epimerase like	-0.14653462999
chromosome 2 open reading frame 88	-0.15455767093
oxoeicosanoid receptor 1	-0.11839602976
signal recognition particle 19	0.05103799779
cytoskeleton associated protein 2	0.05867299893
glucoside xylosyltransferase 1	0.05031679176
sosondowah ankyrin repeat domain family member C	-0.12424576979
ribonuclease P/MRP subunit p40	0.10789437733
signal transducer and activator of transcription 5A	-0.05767811666
protein activator of interferon induced protein kinase EIF2AK2	0.0436481895
proteasome 20S subunit alpha 5	0.04640066965
junction mediating and regulatory protein, p53 cofactor	0.06069399694
proteasome 26S subunit, non-ATPase 4	-0.05305266687
LLGL scribble cell polarity complex component 1	0.05029115356
glutaredoxin	-0.06963858448
RAB5A, member RAS oncogene family	-0.04987040768
SLIT-ROBO Rho GTPase activating protein 2B	0.12354930497
regulator of G protein signaling 14	-0.05630047801
testis specific serine kinase 6	0.09630621714
endosome-lysosome associated apoptosis and autophagy regulator fan	0.07897285827
RUN domain containing 1	0.04462981947
sirtuin 5	0.06327524537
exportin 1	0.05474122015
SFT2 domain containing 2	0.05143093855
guanylate binding protein 5	0.21728981213
ORMDL sphingolipid biosynthesis regulator 3	-0.07084878871
heme binding protein 2	-0.05788265676
dynein axonemal assembly factor 2	0.07370261822
microtubule associated protein 1A	-0.13722200826
pleckstrin homology domain containing A2	0.03831244613
SWI/SNF related, matrix associated, actin dependent regulator of chro	0.04351127179
zinc finger protein 333	0.0525591704
nuclear casein kinase and cyclin dependent kinase substrate 1	0.04773233756
gamma-secretase activating protein	-0.06112127157
Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA synthase	0.06615088673
solute carrier family 25 member 30	0.05587924595

developmentally regulated GTP binding protein 2	0.04622938087
lysophosphatidic acid receptor 5	0.06080842059
calpain 1	-0.06381689079
DExH-box helicase 34	-0.0748191955
FKBP prolyl isomerase 14	0.08958095218
nudix hydrolase 19	-0.04988620235
glutamic-oxaloacetic transaminase 1	0.05822235422
mitogen-activated protein kinase kinase kinase 4	0.05078129576
poly(A) polymerase gamma	0.0432028578
zinc finger HIT-type containing 3	0.05338170873
zinc finger protein 57	0.09078493963
cleavage and polyadenylation specific factor 2	-0.03634376426
H2B clustered histone 21	-0.11481509592
AKT interacting protein	-0.05609341273
nuclear apoptosis inducing factor 1	0.06407448154
WD repeat domain 55	0.03189992541
ZFP36 ring finger protein	-0.07951808307
cilia and flagella associated protein 54	0.14781486609
H3.3 histone A	-0.08010810356
adenosine deaminase RNA specific B1	0.05821301013
phosphofructokinase, liver type	0.04964463737
solute carrier family 12 member 6	-0.06056948301
chondroitin sulfate synthase 1	-0.09293740311
zinc finger and BTB domain containing 47	-0.0801202206
unc-119 lipid binding chaperone B	0.0508063263
thioredoxin	-0.11197160282
adenosylmethionine decarboxylase 1	0.06692050266
PEAK family member 3	-0.10255070795
M-phase phosphoprotein 8	0.03102707958
chromosome 12 open reading frame 49	0.04574835784
DEAD-box helicase 20	0.04552031566
monoglyceride lipase	-0.11695970142
family with sequence similarity 89 member A	-0.109186815
adenylate kinase 8	0.18613305984
methionyl aminopeptidase 1	0.0454044619
leucine rich repeat containing 23	-0.05875386562
transmembrane protein 259	0.04581901814
thyroid hormone receptor interactor 12	-0.04550118893
growth hormone regulated TBC protein 1	-0.16830630356
methionine sulfoxide reductase B3	-0.08826042997
THAP domain containing 4	0.05335473735
chondrolectin	0.11399738209
nuclear receptor coactivator 7	0.07161090666
T-box transcription factor 19	0.05373209707
sulfotransferase family 1A member 1	-0.06388581423
calcyclin binding protein	0.05420736831

family with sequence similarity 160 member B1	-0.07759442211
transaldolase 1	-0.09638359824
sarcoglycan beta	0.07593298262
pericentriolar material 1	0.05684160132
BICD family like cargo adaptor 1	0.06503086649
CD81 molecule	0.07479752423
scribble planar cell polarity protein	0.05366370891
cofilin 2	0.08118659908
G protein subunit alpha z	-0.16948830365
cyclin I	-0.09437647477
microtubule associated protein 4	0.04685754248
integrin subunit beta 1 binding protein 1	0.03462552217
intracisternal A particle-promoted polypeptide	0.04840536942
zinc finger protein 362	0.04250427952
chromosome 14 open reading frame 93	0.04704548768
nidogen 1	-0.11268677393
1-acylglycerol-3-phosphate O-acyltransferase 3	-0.05723616499
motile sperm domain containing 3	-0.08758368412
cytohesin 1	0.04022178572
adrenoceptor beta 2	0.09223560356
latent transforming growth factor beta binding protein 4	0.05834388364
ATPase Na ⁺ /K ⁺ transporting subunit beta 3	0.05978823223
ligand dependent nuclear receptor interacting factor 1	0.06230785519
H2B clustered histone 11	-0.14238010778
pyrimidinergic receptor P2Y6	0.14105220188
mitochondrial ribosomal protein L49	0.05364487817
BTG anti-proliferation factor 3	0.09617794601
centrosomal protein 89	0.04586146472
EBNA1 binding protein 2	0.06954741011
transmembrane and coiled-coil domains 4	0.04255350031
presenilin 1	-0.04153236279
ring finger protein 165	0.13540601296
phosphatase and actin regulator 2	0.06440931253
novel protein	-0.09362739232
adrenomedullin 2	-0.14344217681
sialic acid binding Ig like lectin 12 (gene/pseudogene)	0.19766105648
lipin 1	0.04255952558
membrane associated ring-CH-type finger 10	0.19770673184
destrin, actin depolymerizing factor	0.05268521159
transmembrane protein 245	-0.03890640765
dystroglycan 1	0.04692053249
ubiquitin like modifier activating enzyme 7	0.06093526241
novel protein	0.06172564395
protein tyrosine phosphatase receptor type O	0.09679963766
Cbl proto-oncogene	-0.06429751844
recombination signal binding protein for immunoglobulin kappa J region	-0.05354238936

presenilin 2	0.07639735868
DEAD-box helicase 23	0.03183887005
XPC complex subunit, DNA damage recognition and repair factor	0.04409697555
zinc finger protein 611	0.03976597966
isochorismatase domain containing 2	0.09520441125
Rho related BTB domain containing 1	-0.15112671056
protein phosphatase 4 regulatory subunit 4	0.208285758
tRNA methyltransferase O	0.04398393256
TGFB induced factor homeobox 1	0.04996033704
ring finger protein 216	-0.03262551384
desumoylating isopeptidase 1	-0.04505856101
endoplasmic reticulum oxidoreductase 1 alpha	-0.04791194252
zinc finger protein 436	0.05796468701
zinc finger protein 232	-0.07213976829
schlafen family member 13	0.07137780589
capicua transcriptional repressor	-0.06400389156
integrator complex subunit 12	0.04837205658
sphingomyelin phosphodiesterase 3	-0.14168246374
coiled-coil domain containing 90B	0.05825143465
vitamin D receptor	-0.07078437854
protein kinase D2	0.06653087906
ankyrin repeat domain 13D	-0.04612506816
neuralized E3 ubiquitin protein ligase 4	0.04858114427
FGFR1 oncogene partner 2	-0.08936657959
thioredoxin like 4B	-0.04209837218
BBX high mobility group box domain containing	0.03700112521
toll like receptor adaptor molecule 1	-0.06380067513
tRNA nucleotidyl transferase 1	0.05261617438
ubiquitin conjugating enzyme E2 J1	-0.08301941095
IQ motif and Sec7 domain ArfGEF 1	-0.05733741168
eukaryotic translation initiation factor 4E nuclear import factor 1	0.03354432541
nuclear factor of activated T cells 2 interacting protein	0.03367525187
coiled-coil domain containing 68	-0.16934060124
CD96 molecule	0.06495644249
malectin	0.04854297176
PDCD6-AHRR readthrough (NMD candidate)	0.17145059742
lysophosphatidylcholine acyltransferase 2	-0.08584811888
centriole, cilia and spindle associated protein	0.06136118963
phosphatidylinositol glycan anchor biosynthesis class H	0.04598947537
GINS complex subunit 3	0.11107554732
complement C2	-0.08598515747
C-terminal binding protein 1	0.03494208904
G3BP stress granule assembly factor 1	0.03614191871
endoplasmic reticulum oxidoreductase 1 beta	0.04584218984
NGG1 interacting factor 3 like 1	0.0573192568
F-box protein 11	-0.0388686272

karyopherin subunit alpha 3	0.02969449581
MPV17 mitochondrial inner membrane protein like 2	0.08245400269
dehydrodolichyl diphosphate synthase subunit	0.03485196222
ATP synthase F1 subunit epsilon	-0.14250043352
gasdermin E	0.17551537683
family with sequence similarity 219 member A	-0.04946221324
protein phosphatase 1 regulatory subunit 16A	0.07303711806
torsin family 1 member B	0.09716132824
erb-b2 receptor tyrosine kinase 2	0.09631359155
protein kinase, DNA-activated, catalytic subunit	0.08185207532
methionine adenosyltransferase 2A	0.0436767933
interferon gamma receptor 1	-0.08022064156
GRIP and coiled-coil domain containing 2	0.04554912376
novel protein, ARPC1A and ARPC1B readthrough	-0.13285998894
sarcoglycan epsilon	0.1535482335
SRP receptor subunit beta	0.05700452395
HEAT repeat containing 3	-0.04761209607
H2A.X variant histone	0.09652303589
ATP synthase mitochondrial F1 complex assembly factor 1	0.03668631865
IQ motif containing GTPase activating protein 1	-0.06304086932
kinesin family member 3A	0.06844490937
primase and DNA directed polymerase	0.06310078528
ARVCF delta catenin family member	0.11618415729
YKT6 v-SNARE homolog	0.03841865532
shisa family member 4	-0.2282929651
deoxyribonuclease 2, lysosomal	-0.07668489531
charged multivesicular body protein 4B	-0.06828191749
zinc finger protein 418	0.08421346534
protein tyrosine phosphatase 4A3	0.08209173633
YES proto-oncogene 1, Src family tyrosine kinase	0.08018546436
ribonuclease A family member k6	0.09729467342
inosine triphosphatase	0.04409773231
valyl-tRNA synthetase 2, mitochondrial	0.05641018555
mediator complex subunit 30	0.05934644634
SIVA1 apoptosis inducing factor	0.04759694794
cAMP responsive element binding protein 1	0.04366508394
isocitrate dehydrogenase (NADP(+)) 2	0.07419166193
tubulin gamma complex associated protein 6	0.04043933745
cysteinyl-tRNA synthetase 1	-0.03816837706
myomesin 1	-0.04677483905
arylformamidase	0.0717420276
CD302 molecule	-0.06697022655
discoidin, CUB and LCCL domain containing 1	0.07705128107
G0/G1 switch 2	-0.20908766304
actin related protein 2/3 complex subunit 3	-0.05075747208
ankyrin repeat domain 23	0.05124316564

trans-L-3-hydroxyproline dehydratase	0.06756446965
zinc finger protein 629	-0.07601254494
SP100 nuclear antigen	-0.06592937325
prosaposin	-0.06654052494
heat shock protein family A (Hsp70) member 13	0.08464615487
NLR family pyrin domain containing 7	0.18651766927
CASC3 exon junction complex subunit	-0.0692555447
LDL receptor related protein 8	0.05710646755
sphingosine-1-phosphate phosphatase 1	0.04942069955
WRN RecQ like helicase	0.04977095542
ubiquitin conjugating enzyme E2 S	0.10171350424
DNA replication fork stabilization factor DONSON	0.07157037856
disco interacting protein 2 homolog A	0.0630222764
E2F associated phosphoprotein	0.04668023127
defective in cullin neddylation 1 domain containing 1	-0.07044874824
solute carrier family 25 member 28	0.05334657572
coiled-coil domain containing 137	0.048140898
actin filament associated protein 1	-0.06895251308
SNF related kinase	0.0557915926
FAM20B glycosaminoglycan xylosylkinase	-0.05905284106
zinc finger protein 496	0.08695940107
phospholipid scramblase 1	-0.15581396426
zinc finger protein 212	0.03854258076
nucleolar protein 6	0.0493044596
insulin like growth factor binding protein 7	-0.07405035204
ABL proto-oncogene 2, non-receptor tyrosine kinase	-0.04476117982
ZFP1 zinc finger protein	0.07139562812
transmembrane protein 150B	-0.10799708118
tumor protein p63 regulated 1	0.08183782515
sterile alpha motif domain containing 10	0.07711758782
beta 3-glucosyltransferase	0.06631705741
forkhead box O3	-0.09451215192
ring-box 1	-0.06441467204
protein arginine methyltransferase 6	0.06552626802
SWI/SNF related, matrix associated, actin dependent regulator of chro	0.05413568408
DNA topoisomerase II binding protein 1	0.04156503042
sirtuin 1	0.04608843587
ankyrin repeat and LEM domain containing 1	-0.09925864403
fatty acid binding protein 5	0.14019295897
mitochondrial ribosomal protein L1	0.06807782539
calcium/calmodulin dependent protein kinase II gamma	-0.05328661617
trio Rho guanine nucleotide exchange factor	0.06466170693
Morf4 family associated protein 1 like 1	0.082675565
zinc finger protein 432	0.04839784832
solute carrier family 52 member 2	0.06679924551
ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6	0.08791615423

FOS like 2, AP-1 transcription factor subunit	-0.08617739157
protein phosphatase 4 regulatory subunit 3A	0.03884753955
PDZ domain containing 8	-0.07446006261
modulator of apoptosis 1	0.04604628622
potassium voltage-gated channel subfamily Q member 4	-0.13001679048
zinc finger protein 584	0.08638020133
guanylate binding protein 4	0.15970736084
bromodomain containing 7	0.03544004334
BCAR3 adaptor protein, NSP family member	0.08159412321
kirre like nephrin family adhesion molecule 3	0.22666692046
Fc receptor like B	0.14420320927
kinesin family member 14	0.17873800396
TLE family member 4, transcriptional corepressor	-0.05285720989
collagen type XXIV alpha 1 chain	0.15234027941
EYA transcriptional coactivator and phosphatase 2	0.25011886874
inositol 1,4,5-trisphosphate receptor type 2	-0.05438958005
galactose mutarotase	0.09891348238
GATA zinc finger domain containing 2A	-0.04424424179
tetraspanin 32	-0.04656849698
aminolevulinate dehydratase	-0.03900723693
TATA-box binding protein associated factor, RNA polymerase I subunit	0.0564156484
zinc finger matrin-type 2	-0.09470354042
zinc finger protein 350	0.04640253164
bromodomain containing 4	-0.05362490091
coiled-coil domain containing 7	0.06976936926
DENN domain containing 4B	-0.04313567438
enkurin domain containing 1	0.07677556474
myosin light chain kinase	-0.14682998169
katanin regulatory subunit B1	0.05315226311
major histocompatibility complex, class I, F	0.05281210213
BCL2 like 15	-0.10688428503
H2B clustered histone 9	0.1300151892
kinetochore localized astrin (SPAG5) binding protein	0.07873712934
SH3 binding domain protein 5 like	-0.06558352089
DnaJ heat shock protein family (Hsp40) member C14	0.06085525051
lysine demethylase 2B	0.04284451363
integrin subunit alpha E	0.04600154504
phosphatidylinositol binding clathrin assembly protein	-0.05693862294
transmembrane protein 175	0.0394551287
RAN binding protein 3	0.03328300882
shugoshin 2	0.08612644941
dopamine receptor D3	0.16861322663
potassium voltage-gated channel subfamily E regulatory subunit 1	-0.14433801492
transmembrane channel like 6	0.04267310054
podocan	0.17683372058
huntingtin interacting protein 1	-0.07445353333

zinc finger protein 256	0.09014533297
unc-51 like kinase 4	0.06185711452
meiotic nuclear divisions 1	0.19204199558
bromodomain containing 3	0.04260575834
ATP binding cassette subfamily C member 2	-0.06952381864
CCAAT enhancer binding protein beta	-0.09911185603
kinase D interacting substrate 220	-0.05689001309
eukaryotic translation initiation factor 3 subunit B	-0.05520476887
histocompatibility minor 13	0.04636102015
pre-mRNA processing factor 38A	0.03235061636
zinc finger matrin-type 4	0.21203970838
N-acetyltransferase 10	0.04345483665
F-box protein 31	0.05015117371
caspase 10	0.05385180928
F-box protein 45	0.05565934163
CDGSH iron sulfur domain 2	-0.09408965178
glutathione S-transferase C-terminal domain containing	0.06390934602
methionine sulfoxide reductase B1	-0.11126394124
period circadian regulator 3	0.07581586747
glutamate ionotropic receptor kainate type subunit 5	-0.13791442913
kelch like family member 36	0.03988228522
galactosamine (N-acetyl)-6-sulfatase	-0.05993204714
chromosome 16 open reading frame 86	0.10993290048
ERCC excision repair 3, TFIIH core complex helicase subunit	0.02912133353
Ral GTPase activating protein catalytic subunit alpha 1	0.05801426557
RNA guanylyltransferase and 5'-phosphatase	0.03532780827
gon-4 like	0.03591772621
cadherin like and PC-esterase domain containing 1	0.08990045822
basonuclin 2	0.15516563009
ciliogenesis associated kinase 1	0.04337637477
centrosomal protein 250	0.03642222729
engulfment and cell motility 2	0.05911771486
3-oxoacid CoA-transferase 1	0.0527540706
family with sequence similarity 153 member B	-0.18618236309
storkhead box 2	-0.2223082251
phosphorylase kinase regulatory subunit beta	0.0341892136
glutamine rich 2	-0.07388489654
H4 histone 16	0.10718920772
RAB6A, member RAS oncogene family	-0.03388469626
peptidylprolyl isomerase B	0.06602758515
coiled-coil domain containing 93	-0.04732138436
kinesin light chain 4	0.04242100747
prostaglandin D2 receptor 2	-0.14322148024
CD300a molecule	0.05456497252
sorting nexin 8	0.06611377093
potassium channel tetramerization domain containing 21	-0.05439412333

RB binding protein 9, serine hydrolase	0.05981180069
interleukin 18 receptor accessory protein	-0.11745891032
enoyl-CoA hydratase 1	0.06756638319
ubiquitin specific peptidase 13	0.05901707194
F2R like trypsin receptor 1	0.08774236963
SIN3-HDAC complex associated factor	0.04599157516
KIAA1522	-0.11247725543
proteasome assembly chaperone 1	0.06444300668
metastasis associated 1	0.04113828213
HEAT repeat containing 9	0.11881420994
hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase	-0.05413574352
peroxisomal biogenesis factor 16	0.05380038864
leucine zipper and EF-hand containing transmembrane protein 2	0.0904206875
PHD and ring finger domains 1	0.03862411028
EH domain containing 4	-0.05537720344
7-dehydrocholesterol reductase	-0.07531452318
golgin A8 family member B	0.08471457816
GRB2 related adaptor protein 2	-0.0496264629
basic leucine zipper nuclear factor 1	0.05329009266
zinc finger and BTB domain containing 49	0.05216291613
RPGRIP1 like	0.09651632352
forkhead box N3	0.04002212432
Ras association domain family member 7	0.07425750427
guanylate cyclase 1 soluble subunit beta 1	-0.13521458541
transforming acidic coiled-coil containing protein 1	0.03550992143
zinc finger protein 678	0.06587049544
NOP10 ribonucleoprotein	-0.09937422182
XIAP associated factor 1	0.17873769424
beta-1,3-glucuronyltransferase 1	0.12738913183
solute carrier family 4 member 4	0.12795934936
COP9 signalosome subunit 8	0.0565678493
phosphoinositide-3-kinase adaptor protein 1	-0.08773867476
dynein axonemal heavy chain 6	-0.10419546184
MIA SH3 domain ER export factor 3	0.05013370635
ATPase phospholipid transporting 10D (putative)	0.06031953333
capping actin protein of muscle Z-line subunit alpha 1	-0.05478766638
polyribonucleotide nucleotidyltransferase 1	0.11045138822
LSM7 homolog, U6 small nuclear RNA and mRNA degradation associa	0.05070202419
zinc finger protein 384	0.03363456984
glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinas	0.03869913736
A-kinase anchoring protein 8	0.02949607969
serine and arginine rich splicing factor 8	-0.05804880583
spectrin repeat containing nuclear envelope family member 3	-0.04893766741
WD repeat domain 37	-0.04112171411
ISY1-RAB43 readthrough	-0.09090352579
galectin 9	0.09713498329

cullin 1	0.05829145108
solute carrier family 25 member 22	0.06067754865
lamin B2	0.05645800804
SEC61 translocon subunit alpha 2	0.07241993808
membrane associated ring-CH-type finger 9	0.06274937471
serine/threonine kinase 33	0.14321742617
zinc finger protein 567	0.06526339447
sorcin	-0.04405661452
tubulin tyrosine ligase like 3	-0.06467179516
La ribonucleoprotein 1B	0.08670268226
terminal nucleotidyltransferase 5A	0.07415578744
protein kinase D1	0.32139838009
TBC1 domain family member 32	0.05867329169
nucleotide binding protein 2	0.06066648166
cyclin D1	0.13863883017
N-acetylglucosamine kinase	-0.05501301603
novel transcript	-0.0825447453
NLR family member X1	-0.07281698735
MCF.2 cell line derived transforming sequence like	-0.07011774778
metallothionein 1F	-0.10682519839
cytidine monophosphate N-acetylneuraminic acid synthetase	-0.06262220186
plasmalemma vesicle associated protein	-0.2153827765
zinc finger protein 470	0.0802237697
RAN binding protein 1	0.05829420892
junctionophilin 4	-0.16047790981
DEAH-box helicase 36	0.04005372136
transforming growth factor beta 3	0.0784191955
NME/NM23 family member 7	0.0534465534
crooked neck pre-mRNA splicing factor 1	0.0447595102
alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase	0.05167924387
apoptosis resistant E3 ubiquitin protein ligase 1	-0.04528929139
spectrin repeat containing nuclear envelope protein 1	-0.07116848339
arachidonate 15-lipoxygenase type B	-0.28194357825
amidohydrolase domain containing 2	0.05949204709
integrator complex subunit 11	0.03580240424
lipin 2	0.06685021692
tumor protein p53 binding protein 2	-0.04240614142
chromosome alignment maintaining phosphoprotein 1	0.04999678361
succinyl-CoA:glutarate-CoA transferase	0.13188352701
novel protein	0.03738290208
galactosidase beta 1 like	-0.07788802432
diacylglycerol kinase epsilon	0.05793809005
neuronal vesicle trafficking associated 1	0.07006644504
STIL centriolar assembly protein	0.10426522278
BCL2 related protein A1	-0.13273341385
ASH1 like histone lysine methyltransferase	-0.04396333141

chromosome 20 open reading frame 27	-0.082773767
transmembrane protein 120A	-0.08063245911
ERCC excision repair 6, chromatin remodeling factor	0.04347823022
ubiquitin specific peptidase 10	0.06093303
BLOC-1 related complex subunit 5	0.04843870486
MIA SH3 domain ER export factor 2	-0.03482141239
dedicator of cytokinesis 2	-0.04666927179
progesterin and adipoQ receptor family member 3	0.07418413783
eva-1 homolog C	0.06269884998
solute carrier family 11 member 1	-0.09515672414
zinc finger protein 606	0.05160454238
X-ray repair cross complementing 4	-0.04861862976
adhesion G protein-coupled receptor B2	0.14000866916
methyl-CpG binding domain protein 2	-0.03882049284
X-box binding protein 1	0.06641061956
PPFIA binding protein 1	0.07830304807
lysosomal protein transmembrane 4 alpha	-0.0504796334
phosphatidylinositol glycan anchor biosynthesis class W	0.08728079753
integrin subunit beta 1	0.06686979104
ADP ribosylation factor GTPase activating protein 1	0.04057665724
thymidine kinase 1	0.16792044467
BOP1 ribosomal biogenesis factor	0.06658446477
centrosomal protein 112	0.15005555709
galactosidase beta 1 like 3	0.116278259
proline rich 11	0.09820695215
dipeptidyl peptidase 9	0.0322922164
FKBP prolyl isomerase 9	-0.10609389874
SPARC (osteonectin), cwcw and kazal like domains proteoglycan 2	0.05485177613
tudor and KH domain containing	0.0570455151
ribosome production factor 2 homolog	0.0669664957
docking protein 6	-0.19767849298
E4F transcription factor 1	0.04238512134
novel transcript	-0.05011758967
adaptor related protein complex 5 subunit beta 1	-0.08748625347
leucine rich repeat containing 6	-0.0900978125
malic enzyme 1	-0.10960281133
heme oxygenase 2	0.04443865461
RAB, member of RAS oncogene family like 3	0.05290084397
protein tyrosine phosphatase receptor type G	0.22782583141
transmembrane protein 273	0.07908187806
TM2 domain containing 3	0.03967721795
elongation factor 1 homolog	-0.09954106831
essential meiotic structure-specific endonuclease subunit 2	-0.05441660519
mediator of cell motility 1	-0.08750563269
X-ray repair cross complementing 3	0.05997552836
cyclin dependent kinase 17	0.06020302181

importin 11	-0.0530417026
prostaglandin E receptor 2	-0.05737753315
solute carrier family 39 member 9	0.02842250832
RAB1A, member RAS oncogene family	-0.03838068395
phosphatidylinositol 4-kinase type 2 beta	0.09379075319
STN1 subunit of CST complex	0.06449213328
copine 8	-0.06301955487
TATA-box binding protein associated factor 5 like	0.04371746462
TP53RK binding protein	0.06804252577
ATPase plasma membrane Ca ²⁺ transporting 1	0.0504923017
estrogen receptor 1	0.0805418596
zinc and ring finger 1	-0.05809321389
RAB30, member RAS oncogene family	0.09258413952
cytoplasmic polyadenylation element binding protein 3	-0.06623097717
LIM domain only 4	0.04093402251
ectonucleotide pyrophosphatase/phosphodiesterase 2	0.10630688882
LanC like 1	0.05694386462
family with sequence similarity 91 member A1	0.0471375073
membrane spanning 4-domains A4E	-0.09610182466
spectrin repeat containing nuclear envelope family member 4	0.11973781501
transmembrane p24 trafficking protein 2	0.04527350807
UBX domain protein 11	-0.0572844631
kelch repeat and BTB domain containing 11	-0.0556402597
dihydrouridine synthase 4 like	0.07453367268
novel protein	-0.07536946703
F-box and WD repeat domain containing 11	0.03198930016
carnosine N-methyltransferase 1	0.05326263453
argonaute RISC catalytic component 2	-0.05612471706
family with sequence similarity 117 member B	0.04663335911
CUGBP Elav-like family member 1	-0.02680440768
small nuclear ribonucleoprotein U1 subunit 70	0.03492678599
ATPase copper transporting beta	-0.09452353766
leucine rich repeats and immunoglobulin like domains 1	0.05521947057
interferon stimulated exonuclease gene 20 like 2	0.04710797205
retinol binding protein 7	-0.09232521351
SWI/SNF related, matrix associated, actin dependent regulator of chro	0.02927713329
solute carrier family 36 member 4	-0.05797008985
glutaminy-peptide cyclotransferase like	0.06570614173
acyl-CoA binding domain containing 5	0.03809719797
solute carrier family 35 member D1	0.04484603699
zinc finger protein 808	0.05023689552
protein phosphatase 2 regulatory subunit B'epsilon	0.02537629185
transmembrane protein 169	-0.0586677093
tuftelin 1	0.07977547165
ring finger protein 170	0.04034851418
F-box protein 28	0.0245088665

cell division cycle 7	0.0677056056
plasminogen activator, urokinase receptor	-0.07700268697
SPG21 abhydrolase domain containing, maspardin	-0.05122512333
DM1 locus, WD repeat containing	-0.06953063674
IKAROS family zinc finger 5	0.05214556236
CBFA2/RUNX1 partner transcriptional co-repressor 2	0.03312050356
TNF receptor superfamily member 10b	-0.04491435716
enhancer of polycomb homolog 1	0.02358456402
cell division cycle associated 3	0.16432302016
adhesion G protein-coupled receptor A3	0.12783303361
trafficking protein particle complex 3 like	-0.16428797051
neutral cholesterol ester hydrolase 1	-0.0504028383
TOR signaling pathway regulator	0.04034611375
serine protease 41	-0.17502486851
NIMA related kinase 11	0.08049193507
TRAF3 interacting protein 2	0.05001410111
NSE1 homolog, SMC5-SMC6 complex component	-0.03801203321
TBC1 domain family member 10B	-0.05654844287
zinc finger protein 276	-0.03848032734
MYC binding protein 2	0.0500068258
leishmanolysin like peptidase	0.07829059981
ubiquitin specific peptidase 24	0.04690271376
MORN repeat containing 3	0.07544481639
trans-golgi network vesicle protein 23 homolog A	0.17401074762
ectodermal-neural cortex 1	-0.06946948487
sarcoglycan delta	0.15828538449
WD repeat domain 33	0.02461754115
mitochondrial transcription termination factor 2	0.07045976776
PHD finger protein 2	0.03952689044
cell division cycle 6	0.14870005846
ciliogenesis and planar polarity effector 1	0.06192264598
ATPase 13A1	0.04451544912
TEPSIN adaptor related protein complex 4 accessory protein	0.04374702672
acid phosphatase 3	-0.06213087671
activity dependent neuroprotector homeobox	0.03644538668
NEDD4 binding protein 2 like 1	0.04048049152
zinc finger protein 324B	0.08242368001
cyclin dependent kinase 5	-0.07802185692
septin 9	0.03955455522
stearoyl-CoA desaturase 5	0.10424276478
TRIO and F-actin binding protein	-0.04679501226
leucine rich repeat containing 37 member A3	-0.05753874021
coiled-coil domain containing 126	-0.04913679958
CD5 molecule	0.0598202527
activin A receptor type 2A	-0.05533452661
DNA ligase 1	0.0440703675

mitochondrial transcription termination factor 4	0.03789593717
protein kinase C beta	-0.04494160577
nudix hydrolase 18	0.07624049935
Rho/Rac guanine nucleotide exchange factor 2	-0.03789549594
protein kinase AMP-activated non-catalytic subunit beta 1	0.03796389579
thymidine kinase 2	-0.06088966584
VOPP1 WW domain binding protein	-0.03631114383
clusterin associated protein 1	-0.06478160143
limb development membrane protein 1 like	0.03464959707
HECT and RLD domain containing E3 ubiquitin protein ligase 2	0.0512842161
glycogen synthase kinase 3 alpha	-0.07590704179
inka box actin regulator 2	0.08859144253
beta-1,4-galactosyltransferase 1	0.04341786098
queuine tRNA-ribosyltransferase catalytic subunit 1	0.05772112796
chromatin target of PRMT1	0.02980851454
actin related protein 2/3 complex subunit 1B	-0.16535414409
SMAD family member 1	-0.08716531307
zinc finger protein 528	0.06778485225
calcium voltage-gated channel subunit alpha1 A	0.15098583756
glucose-fructose oxidoreductase domain containing 1	0.07646696668
proteasome 26S subunit, non-ATPase 1	-0.02819879771
zinc finger protein 300	0.11351940786
ATPase secretory pathway Ca ²⁺ transporting 1	0.03307278424
staufen double-stranded RNA binding protein 1	-0.04102552324
calpain 7	0.04405463335
solute carrier family 4 member 1 adaptor protein	-0.03790126573
transmembrane p24 trafficking protein 1	-0.07227653367
PR/SET domain 15	0.04448029054
integrin linked kinase	-0.05428130077
interferon gamma	0.17410575448
chromatin licensing and DNA replication factor 1	0.18871767438
lysocardiolipin acyltransferase 1	0.03876340803
G protein-coupled receptor 132	-0.04849982559
C2CD2 like	0.04025162789
dual specificity tyrosine phosphorylation regulated kinase 1B	0.05978660522
family with sequence similarity 172 member A	-0.05010654197
tankyrase 2	0.0403064168
transmembrane protein 242	-0.04967913181
STT3 oligosaccharyltransferase complex catalytic subunit A	0.03694481277
platelet activating factor acetylhydrolase 2	0.04337595472
crystallin gamma S	0.06305984813
ATR interacting protein	0.0420820572
LIM zinc finger domain containing 2	0.10052492267
zinc finger protein 804A	-0.06647588518
RAB19, member RAS oncogene family	-0.12188062547
ring finger and CCCH-type domains 2	0.02716934573

ribonuclease K	-0.14842569119
histidine ammonia-lyase	0.08762278963
peroxisomal trans-2-enoyl-CoA reductase	-0.07078361952
nucleic acid binding protein 2	0.06432166602
RIC8 guanine nucleotide exchange factor B	0.04296166884
zinc finger AN1-type containing 3	-0.05150531061
heterogeneous nuclear ribonucleoprotein R	0.04121854277
PKHD1 like 1	-0.11195687202
leucine aminopeptidase 3	0.15123851461
solute carrier family 5 member 5	-0.12971537818
DAB2 interacting protein	0.17777807637
RNA polymerase III subunit G like	0.08110287332
major vault protein	-0.05746147222
transcobalamin 2	-0.13723243309
holocarboxylase synthetase	0.04891469726
A-kinase anchoring protein 11	0.06481552938
glucocorticoid modulatory element binding protein 2	0.0390992707
establishment of sister chromatid cohesion N-acetyltransferase 1	0.04894008818
LDL receptor related protein 10	-0.07784296987
protein interacting with PRKCA 1	0.05375460322
retinol dehydrogenase 11	-0.05736093748
nucleoporin 50	0.05304930378
3-hydroxy-3-methylglutaryl-CoA reductase	-0.05773742195
xenotropic and polytropic retrovirus receptor 1	0.02965000665
NADH:ubiquinone oxidoreductase core subunit S2	-0.03053091973
cell death inducing p53 target 1	0.05630330421
carboxypeptidase M	-0.08440912363
complement component 4 binding protein alpha	0.14143146129
G protein-coupled receptor kinase 4	0.06782126987
transmembrane 9 superfamily member 3	0.03606546261
UFM1 specific peptidase 2	0.04916966542
platelet derived growth factor subunit B	0.08770163342
zinc finger DBF-type containing 2	0.10202168562
HPS4 biogenesis of lysosomal organelles complex 3 subunit 2	0.03464304787
Kin17 DNA and RNA binding protein	0.0464590339
Rho GTPase activating protein 29	-0.17812756288
leucine zipper and EF-hand containing transmembrane protein 1	0.04003616795
mediator of DNA damage checkpoint 1	0.04407349239
interferon induced transmembrane protein 2	-0.12576320691
divergent protein kinase domain 1A	0.05453579893
SUMO specific peptidase 2	0.02928363662
WDFY family member 4	0.06392349206
O-GlcNAcase	0.05604374156
solute carrier family 39 member 13	-0.04776036607
major facilitator superfamily domain containing 14B	-0.05753202594
serine and arginine rich splicing factor 5	0.03019963648

RANBP2 like and GRIP domain containing 2	0.09853492505
C-X3-C motif chemokine receptor 1	-0.09063935493
uridine-cytidine kinase 1 like 1	0.04542560616
glutathione peroxidase 4	-0.08387946762
neuroligin and tolloid like 1	0.15429880755
mitogen-activated protein kinase 7	0.05028495171
syntrophin beta 1	-0.05021281403
deoxycytidine kinase	0.05448821555
cytochrome P450 family 4 subfamily F member 22	0.1341585247
zinc finger protein 569	0.0633059747
signal peptidase complex subunit 3	0.03689225183
transmembrane protein 62	0.06032305511
glucosylceramidase beta 2	0.03296410636
MHC class I polypeptide-related sequence B	0.06619192684
argonaute RISC catalytic component 3	0.04095224795
F-box and leucine rich repeat protein 17	0.03431900518
lipoxigenase homology domains 1	-0.09891158889
myeloid associated differentiation marker	-0.08348987468
NHL repeat containing 2	0.05788129533
inositol-trisphosphate 3-kinase B	-0.03110426609
ADP ribosylation factor interacting protein 2	0.03919144509
dimethylglycine dehydrogenase	0.12715454662
angiominin like 1	0.10437956108
ALG12 alpha-1,6-mannosyltransferase	0.04126192046
S-phase kinase associated protein 1	-0.05706180343
protein tyrosine phosphatase non-receptor type 9	0.03832095567
UPF1 RNA helicase and ATPase	0.05078690488
spermidine synthase	0.07629793768
novel protein, C11orf54-MED17 readthrough	0.05128888323
collagen type V alpha 1 chain	0.12956479355
E74 like ETS transcription factor 2	-0.05530328177
sorting nexin 33	-0.06774735156
serrate, RNA effector molecule	0.03337890651
serine protease 33	-0.18254397307
chromosome 17 open reading frame 100	0.10320251531
mitochondrial pyruvate carrier 1	0.04845913023
leucine zipper transcription factor like 1	0.06315597797
StAR related lipid transfer domain containing 7	0.04303463003
sorting nexin 18	-0.06636789993
nucleotide binding oligomerization domain containing 2	-0.07118492516
KAT8 regulatory NSL complex subunit 1 like	-0.04241549583
ADAM metalloproteinase domain 17	-0.04918144194
NOP56 ribonucleoprotein	0.04001178354
PWP1 homolog, endonuclease	0.04571591072
FAT atypical cadherin 4	0.20254310701
methyltransferase like 1	0.08824809179

cullin 4A	-0.03607110607
homeobox containing 1	0.04762846295
syntaxin binding protein 5	-0.06153516484
5',3'-nucleotidase, mitochondrial	-0.12933501319
chromosome 17 open reading frame 80	0.04733437532
zinc finger and SCAN domain containing 25	0.03625033962
splicing factor 3a subunit 1	0.0539101656
solute carrier family 1 member 7	0.16378898363
C-type lectin domain family 1 member A	-0.07890058153
protein tyrosine phosphatase non-receptor type 7	0.04865309329
complement C1q C chain	0.26081158152
golgi phosphoprotein 3 like	-0.05419267389
chromosome 20 open reading frame 194	-0.05381202509
O-acyl-ADP-ribose deacylase 1	0.03420834556
ketoheokinase	-0.09006643697
zinc finger protein 134	0.04223693195
zinc finger protein 35	0.07645853928
zinc finger protein 665	0.06891409775
SRP receptor subunit alpha	0.04411073726
cyclin C	0.05680955349
tRNA splicing endonuclease subunit 15	0.05374613873
lymphotoxin alpha	-0.07545438046
EPH receptor B2	-0.12734246193
interleukin 2 receptor subunit alpha	-0.05726518969
semaphorin 4B	-0.05162775678
ATP citrate lyase	0.03160613633
cordon-bleu WH2 repeat protein	0.25101525019
N-terminal EF-hand calcium binding protein 2	-0.11880598389
CKLF like MARVEL transmembrane domain containing 3	-0.05442261535
B9 domain containing 1	0.08038371864
VPS54 subunit of GARP complex	-0.03960156798
kelch domain containing 4	0.04778253733
MAX network transcriptional repressor	-0.04584317185
major facilitator superfamily domain containing 11	-0.03956224358
phosphatidylinositol-4,5-bisphosphate 4-phosphatase 1	0.03046897048
maturin, neural progenitor differentiation regulator homolog	-0.07662840175
phosphodiesterase 4A	0.06264401271
deoxynucleotidyltransferase terminal interacting protein 1	-0.04554409833
transient receptor potential cation channel subfamily M member 4	-0.12185142914
SEC62 homolog, preprotein translocation factor	-0.07847085074
ferritin light chain	-0.11597316177
proliferating cell nuclear antigen	0.06239449065
peroxisomal biogenesis factor 11 beta	0.04020186305
NBPF member 14	-0.0624233896
3-hydroxyacyl-CoA dehydratase 3	0.04319089761
bone morphogenetic protein receptor type 1A	0.06505766715

ribonuclease H1	0.05689986437
natural killer cell cytotoxicity receptor 3 ligand 1	0.09612134237
hyaluronidase 1	-0.10648008365
N-acylsphingosine amidohydrolase 2B	0.12665937648
RAB34, member RAS oncogene family	-0.08245609534
cadherin EGF LAG seven-pass G-type receptor 3	0.07415978664
KH domain containing 4, pre-mRNA splicing factor	0.0346304824
C-type lectin domain family 12 member A	-0.07432371232
cyclin dependent kinase inhibitor 1A	-0.11535621836
COMM domain containing 2	0.04548589122
adenylate kinase 4	-0.15573902817
matrix metalloproteinase 17	-0.06562217011
WW domain containing adaptor with coiled-coil	-0.03832544433
methyl-CpG binding domain protein 1	0.02735347405
tryptophanyl-tRNA synthetase 1	0.12207507018
3-hydroxyisobutyrate dehydrogenase	0.03867353597
dpy-19 like C-mannosyltransferase 3	-0.06890781964
nicotinate phosphoribosyltransferase	-0.05949585278
TELO2 interacting protein 2	0.04029729421
PARN like, ribonuclease domain containing 1	-0.14116952424
ubiquitin associated protein 2 like	0.03211180087
BTB domain and CNC homolog 1	-0.05472910945
Ran GTPase activating protein 1	0.0440254938
oxidative stress induced growth inhibitor 1	-0.09627804059
phosphatidylinositol transfer protein membrane associated 1	0.04559600639
inositol 1,4,5-triphosphate receptor associated 2	0.05593328228
potassium inwardly rectifying channel subfamily J member 6	0.22384151105
transcription termination factor 2	0.05030842946
zinc finger and BTB domain containing 26	0.05522139196
leucine rich repeat containing 42	0.05562154411
zinc finger protein 608	-0.14669372044
DDB1 and CUL4 associated factor 4 like 1	-0.11632295521
CXXC repeat containing interactor of PDZ3 domain	0.05658220722
nucleolar protein 9	0.03570196614
synaptotagmin 1	0.1695143318
collagen beta(1-O)galactosyltransferase 2	0.10309575891
RNA binding motif protein 25	0.04936720456
regulation of nuclear pre-mRNA domain containing 1B	0.03696950899
uroporphyrinogen decarboxylase	-0.06241362444
CCR4-NOT transcription complex subunit 9	0.03230122293
glucosidase II alpha subunit	0.02778935719
zinc finger CCCH-type containing 3	-0.05431197706
cubilin	-0.05719750017
GPRIN family member 3	0.05759363185
eyes shut homolog	0.13058395871
LEM domain nuclear envelope protein 2	0.02901253381

mitochondrial ribosomal protein L9	0.05114084694
multivesicular body subunit 12B	-0.05386777934
WD repeat and FYVE domain containing 2	0.03796684373
ADAM metallopeptidase with thrombospondin type 1 motif 17	-0.07051632774
autophagy related 9B	-0.07840468554
thymopoietin	-0.05043727769
zinc finger protein 366	-0.11286623051
epithelial stromal interaction 1	0.21368716359
hemoglobin subunit alpha 2	-0.25553283965
methionine adenosyltransferase 2B	0.04951525557
StAR related lipid transfer domain containing 9	0.06206017716
phosphatidylinositol-5-phosphate 4-kinase type 2 gamma	0.03620431068
clathrin heavy chain linker domain containing 1	0.06095790851
F-box and leucine rich repeat protein 8	0.06543863046
endoplasmic reticulum-golgi intermediate compartment 1	0.07736598466
H2B clustered histone 12	-0.11564936812
SLAM family member 7	0.08749270241
Wnt family member 10B	0.08635761223
zinc finger C2HC-type containing 1A	0.08442271893
asteroid homolog 1	0.04619267693
thimet oligopeptidase 1	0.04873303067
novel protein	0.07125350639
talin rod domain containing 1	0.05902543398
RAS like family 11 member A	-0.10957208854
ATPase plasma membrane Ca ²⁺ transporting 4	-0.0540877308
family with sequence similarity 241 member A	-0.05692410896
ST3 beta-galactoside alpha-2,3-sialyltransferase 1	-0.04152400989
zinc and ring finger 2	0.04889191993
phospholipase C beta 3	-0.05608848413
membrane palmitoylated protein 3	-0.15055845795
WW domain containing transcription regulator 1	0.11326195445
3-hydroxyacyl-CoA dehydratase 2	0.04473160213
novel transcript, METTL10-FAM53B readthrough	0.08208289888
OS9 endoplasmic reticulum lectin	-0.04169853226
suppressor of IKBKE 1	0.05353601937
ras homolog family member G	-0.09220132901
thioredoxin reductase 3	-0.08355854126
solute carrier family 35 member B1	0.03511315806
LSM12 homolog	-0.04864429742
dynein axonemal light chain 1	0.0609829382
small nuclear ribonucleoprotein polypeptides B and B1	0.05174748988
COMM domain containing 5	-0.03711811107
SPT16 homolog, facilitates chromatin remodeling subunit	0.03109566935
zinc finger protein 688	0.05417146618
cytidine deaminase	-0.09443222301
neuroepithelial cell transforming 1	0.06674102657

transmembrane 7 superfamily member 2	-0.07901304223
protein kinase N2	0.06195551797
isovaleryl-CoA dehydrogenase	0.0352778334
2',3'-cyclic nucleotide 3' phosphodiesterase	0.0775752763
netrin G1	0.23279709618
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 10 (pu	0.10472984274
RE1 silencing transcription factor	0.02772143686
zinc finger protein 385D	-0.16905947826
zinc finger protein 304	0.05134987076
endonuclease V	0.04397117708
cathepsin W	0.08798451259
cyclic GMP-AMP synthase	-0.05869973231
protein O-glucosyltransferase 3	0.05993592957
RAB39A, member RAS oncogene family	-0.10269618241
CXXC finger protein 1	0.03882040732
heat shock factor binding protein 1 like 1	-0.06050012652
potassium channel tetramerization domain containing 10	0.03487324617
DnaJ heat shock protein family (Hsp40) member B1	0.04964268068
small ubiquitin like modifier 3	-0.05421102173
COMM domain containing 9	-0.05374535741
phosphatidylethanolamine binding protein 1	0.05895157388
RAB29, member RAS oncogene family	0.03780203075
exonuclease 1	0.1641099762
S1 RNA binding domain 1	0.06591103267
phosducin like 3	0.07380153533
novel protein, TAP2-HLA-DOB readthrough	0.10737322921
TGF-beta activated kinase 1 (MAP3K7) binding protein 1	-0.03535879874
RRN3 homolog, RNA polymerase I transcription factor	0.05116774508
novel protein	0.12837857223
Kruppel like factor 4	-0.0806394424
chaperonin containing TCP1 subunit 6B	0.0951671483
mitochondrial methionyl-tRNA formyltransferase	0.04259507328
laminin subunit gamma 3	-0.13342441701
nuclear transcription factor, X-box binding like 1	-0.0782411819
polypeptide N-acetylgalactosaminyltransferase 2	-0.04255657038
TAR (HIV-1) RNA binding protein 1	0.05980529965
progesterone receptor membrane component 2	0.03256741394
ATPase H+ transporting V0 subunit e1	-0.05412558128
zinc finger protein 461	0.0539636524
MAK16 homolog	0.0512675993
coiled-coil and C2 domain containing 2A	-0.13351481469
G protein-coupled receptor kinase 3	-0.05031808701
zinc finger with KRAB and SCAN domains 4	0.04156649814
MMS22 like, DNA repair protein	0.04786829054
cleavage and polyadenylation specific factor 1	0.03834960546
methyl-CpG binding domain 4, DNA glycosylase	-0.03632963721

microfibril associated protein 1	0.04427853562
strawberry notch homolog 1	-0.02621539859
cytochrome c oxidase subunit 6B1	-0.07341593244
general transcription factor IIIC subunit 5	0.03468836756
baculoviral IAP repeat containing 2	-0.06428044069
AVL9 cell migration associated	-0.0328582739
HIC ZBTB transcriptional repressor 1	0.10839939806
leucine rich repeat containing 4	-0.10093984901
SH3 domain containing 21	0.08874329439
lysine acetyltransferase 7	0.03231933413
retinol saturase	0.03352857978
eukaryotic translation initiation factor 2 subunit beta	0.03872832462
CWF19 like cell cycle control factor 2	0.05288081626
death domain associated protein	0.04597275728
transducer of ERBB2, 1	0.07233964575
alanyl-tRNA synthetase 1	0.04223111212
COPI coat complex subunit alpha	-0.03006085816
raftlin, lipid raft linker 1	0.03759861111
transmembrane protein 87B	-0.03586912237
DnaJ heat shock protein family (Hsp40) member B9	0.05715581772
muscleblind like splicing regulator 2	0.03859279702
golgin A8 family member A	0.07049936817
oxidative stress responsive kinase 1	-0.05834378578
zinc finger protein 845	0.04585287009
lipid droplet associated hydrolase	0.04184085864
spastin	0.03266431798
novel protein	0.06512701181
novel protein	0.12160938696
CLPTM1 like	0.03267741767
cAMP responsive element binding protein 3	0.05977450204
mitochondrial ribosomal protein L39	0.06548931913
RNA polymerase mitochondrial	0.04674066015
xylosyltransferase 1	0.05156965255
SH2B adaptor protein 1	0.03082687135
DNA methyltransferase 1 associated protein 1	0.02967916921
MDS1 and EVI1 complex locus	0.21738530397
chromosome 3 open reading frame 20	-0.05258822224
general transcription factor IIIC subunit 6	0.05764949993
UDP-glucose pyrophosphorylase 2	-0.0399150987
zinc finger GRF-type containing 1	0.0656213393
galactokinase 2	0.03326312929
cytosolic iron-sulfur assembly component 3	0.04612754805
chromosome 19 open reading frame 71	0.068204912
coiled-coil domain containing 30	-0.04952591326
aldehyde dehydrogenase 1 family member L2	0.172686787
protein kinase cAMP-activated catalytic subunit alpha	-0.06244230539

complement C5	0.08286419776
neurexophilin and PC-esterase domain family member 3	-0.03530026039
structure specific recognition protein 1	0.04228690691
mitochondrial rRNA methyltransferase 1	0.05067340739
CD244 molecule	-0.05475204737
myosin IIIB	0.14880543651
coiled-coil domain containing 141	0.082731702
solute carrier family 25 member 38	-0.04745443523
KIAA0753	0.04682363981
GPN-loop GTPase 2	0.03077049296
endoplasmic reticulum protein 44	0.03977189795
ankyrin repeat and SOCS box containing 7	-0.0407076309
transmembrane protein 106B	0.06053825918
src kinase associated phosphoprotein 1	0.05469079351
TATA-box binding protein associated factor 2	0.04013729432
CD200 molecule	0.09402858577
transcription elongation factor A N-terminal and central domain containi	0.02709175876
fibronectin 1	-0.235053343
aladin WD repeat nucleoporin	0.03672397218
dynamamin binding protein	0.04354319236
solute carrier family 25 member 24	-0.0541390279
KIAA1143	0.04237502559
CTD small phosphatase like 2	0.03426840359
spermatogenesis associated 2 like	-0.07575062243
methenyltetrahydrofolate synthetase domain containing	0.03497708576
tetratricopeptide repeat domain 16	0.06522336254
reticulocalbin 1	0.09383421338
chromosome 1 open reading frame 109	0.05165260422
adaptor related protein complex 2 subunit sigma 1	-0.0741125116
protein phosphatase 4 regulatory subunit 3B	0.03327062429
centriolin	0.05472600303
oncomodulin	-0.08836030721
NFAT activating protein with ITAM motif 1	-0.06600055348
kinesin family binding protein	0.03872952212
histone deacetylase 1	0.02130325576
histone deacetylase 10	0.12548042233
kelch like family member 22	0.03336985857
eukaryotic translation initiation factor 1	-0.08038563809
PAF1 homolog, Paf1/RNA polymerase II complex component	0.04965449562
nuclear autoantigenic sperm protein	0.04834497896
transmembrane protein 94	0.03299558621
esterase D	-0.04813838427
protein O-linked mannose N-acetylglucosaminyltransferase 2 (beta 1,4-	-0.07292286994
transmembrane protein 236	-0.09824023668
casein kinase 1 gamma 1	0.03085052007
myosin IE	0.06161577906

coiled-coil domain containing 189	0.07336902263
inhibitor of growth family member 1	0.04571546909
family with sequence similarity 89 member B	-0.08938774113
transmembrane protein 30B	-0.11015744653
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1	-0.05101449927
nuclear receptor subfamily 1 group D member 2	0.05643309355
mitochondrial calcium uniporter	-0.04226797935
NBPF member 9	-0.05828633187
MARVEL domain containing 1	-0.0849618746
exophilin 5	-0.08145413253
NEDD4 binding protein 2	0.05995829033
Suv3 like RNA helicase	0.03902399322
SEC61 translocon subunit alpha 1	0.03433387044
zinc finger protein 318	0.04336057853
myosin XVI	0.14014720231
LIM domain containing preferred translocation partner in lipoma	0.04364282499
fatty acyl-CoA reductase 2	0.08028472732
cyclin dependent kinase 12	-0.03203430135
heart development protein with EGF like domains 1	0.05779448335
novel protein	-0.08545028563
caspase 1	-0.06947919166
kinesin family member 21A	0.06594390975
protein phosphatase 6 regulatory subunit 1	-0.04730853085
RNA exonuclease 2	-0.06059771697
G protein subunit alpha i3	-0.03977454094
DENN domain containing 2D	0.03683858303
armadillo repeat containing 7	-0.04646350962
growth arrest specific 8	0.07294706974
zinc finger FYVE-type containing 9	-0.07462894022
Rho guanine nucleotide exchange factor 28	0.16007264793
beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group)	-0.13376331618
DDB1 and CUL4 associated factor 13	0.06666810145
component of oligomeric golgi complex 6	0.04850245067
pumilio RNA binding family member 1	-0.02958995705
autophagy related 16 like 1	0.03097898948
zinc finger protein 740	0.02835942186
structural maintenance of chromosomes flexible hinge domain containir	0.06498172808
collagen type IX alpha 3 chain	-0.09502665816
BCL6 antisense 1	-0.16100266125
nuclear receptor subfamily 3 group C member 2	-0.05705758005
ribosomal protein S6 kinase B1	-0.04651498655
RWD domain containing 2B	0.05477348646
leucine rich repeat containing 47	0.03279604092
NIMA related kinase 3	0.06269901588
synaptogyrin 1	-0.0650464008
TNF receptor associated factor 6	0.03829364291

phosphodiesterase 9A	-0.07749716461
zinc finger protein 543	0.072040253
heat shock protein family A (Hsp70) member 1 like	-0.05441957227
Ras protein specific guanine nucleotide releasing factor 2	-0.05562538749
NADH:ubiquinone oxidoreductase subunit V3	-0.0323546691
glutamate rich WD repeat containing 1	0.05197419511
RNA polymerase II associated protein 2	0.03728142022
cell adhesion molecule 4	-0.08387228696
ST3 beta-galactoside alpha-2,3-sialyltransferase 5	0.05612862224
retinoic acid receptor alpha	-0.06393662652
kyphoscoliosis peptidase	0.14249379222
IK cytokine	0.04293280992
chromosome 7 open reading frame 50	0.0556594068
kizuna centrosomal protein	0.03415944449
centrosomal protein 76	0.05287522708
ATP binding cassette subfamily A member 1	0.10238579299
zinc finger protein 398	0.03686548208
ribosomal protein S6 kinase A1	-0.05154127251
oxysterol binding protein like 9	-0.04597636008
caspase recruitment domain family member 14	-0.14996112228
SAP30 binding protein	0.02804037047
tRNA methyltransferase 12 homolog	0.0461105513
stromal interaction molecule 1	-0.03570150988
galectin 3 binding protein	0.10446974705
maestro heat like repeat family member 8	0.07376899013
codanin 1	0.03933224106
mesoderm specific transcript	-0.07271862878
chromosome 6 open reading frame 226	0.09512892705
Mov10 RISC complex RNA helicase	0.09613224333
NSL1 component of MIS12 kinetochore complex	0.03256912456
TNF alpha induced protein 2	0.0608979782
protein phosphatase 1 regulatory subunit 3D	-0.06277569889
tubulin polyglutamylase complex subunit 1	-0.04013584607
PMS1 homolog 1, mismatch repair system component	0.05109932134
coenzyme Q7, hydroxylase	-0.04232798909
B cell linker	0.3794921786
TNF receptor superfamily member 13B	0.64754879348
cordon-bleu WH2 repeat protein like 1	0.42499538199
DENN domain containing 5B	0.45208219494
SEL1L family member 3	0.24611599211
collagen type IV alpha 3 chain	0.57377841926
sialic acid binding Ig like lectin 6	0.53514351656
Fc receptor like 5	0.48900080053
collagen type IV alpha 4 chain	0.61622445899
RELB proto-oncogene, NF-kB subunit	-0.36154680919
POU class 2 homeobox associating factor 1	0.43210098201

sarcospan	0.4484338459
basic helix-loop-helix family member e41	0.68769341486
B cell scaffold protein with ankyrin repeats 1	0.35317963615
cystatin F	-0.64329514108
oxysterol binding protein like 10	0.42328923747
G protein-coupled receptor 84	-0.87056784973
CD177 molecule	-1.44670447772
reticulon 2	-0.38494678444
marginal zone B and B1 cell specific protein	0.6914686555
Fc receptor like A	0.42600804656
kelch like family member 14	0.49422678586
BLK proto-oncogene, Src family tyrosine kinase	0.33951936113
nuclear factor kappa B subunit 1	-0.15914076539
CD44 molecule (Indian blood group)	-0.26177586633
interferon lambda receptor 1	0.27744769596
toll like receptor 5	-0.45763058855
pleckstrin homology and RhoGEF domain containing G7	0.59849955709
complement C3	-0.48721970534
Pim-3 proto-oncogene, serine/threonine kinase	-0.30596329242
EMAP like 6	0.42183471142
U6 snRNA biogenesis phosphodiesterase 1	-0.3024740636
alkaline phosphatase, biomineralization associated	-0.66281104736
nuclear factor kappa B subunit 2	-0.2457593953
adrenomedullin	-0.53238443498
BAF chromatin remodeling complex subunit BCL11A	0.21288970957
leukocyte immunoglobulin like receptor A5	-0.44615089966
adhesion G protein-coupled receptor E1	-0.39727622121
RAR related orphan receptor C	0.34283294354
adaptor related protein complex 3 subunit beta 2	-0.71281810649
paired box 5	0.33554362059
hexokinase 3	-0.3406892719
mitogen-activated protein kinase kinase kinase 20	-0.32949030435
mast cell expressed membrane protein 1	-0.64548678309
STEAP family member 1B	0.29952037354
joining chain of multimeric IgA and IgM	0.81888494385
kringle containing transmembrane protein 1	-0.56218418833
transcription factor 4	0.24391297337
transmembrane protein 176B	-0.4096873201
Fc fragment of IgA receptor	-0.38446559817
leukotriene A4 hydrolase	-0.25122651203
E2F transcription factor 5	0.29527652317
5-oxoprolinase, ATP-hydrolysing	-0.50806245499
CD19 molecule	0.32989303968
phospholipid phosphatase 5	0.22856048343
AF4/FMR2 family member 3	0.28363272629
folate receptor gamma	-0.40497887054

interleukin 4 receptor	-0.34338238383
synaptopodin	0.40393880007
Fc fragment of IgE receptor Ig	-0.36063188447
translocator protein	-0.33582351416
immunoglobulin like domain containing receptor 1	0.56691479007
solute carrier family 2 member 3	-0.3578886118
transmembrane protein 176A	-0.4263407297
DNA damage induced apoptosis suppressor	-0.3659751402
ADAM metallopeptidase domain 28	0.29477738183
glycogenin 1	-0.40298744148
TNF receptor superfamily member 13C	0.31903118267
integral membrane protein 2C	0.41028274676
RAS guanyl releasing protein 3	0.27771190223
immunoglobulin heavy variable 4-38-2-like	0.78964653547
annexin A3	-0.56319275696
RAB10, member RAS oncogene family	-0.12734828963
zinc finger DHHC-type palmitoyltransferase 19	-0.75292120423
regulator of hemoglobinization and erythroid cell expansion	0.35126895635
laminin subunit alpha 5	0.30562150347
membrane spanning 4-domains A1	0.37853024426
interleukin 1 beta	-0.40987132987
transmembrane O-mannosyltransferase targeting cadherins 1	-0.43308788037
adipocyte plasma membrane associated protein	-0.31188795793
fatty acid 2-hydroxylase	0.49609967239
Spi-B transcription factor	0.36658519851
NLR family CARD domain containing 4	-0.30329659742
leukocyte receptor tyrosine kinase	0.34599673322
SET binding protein 1	0.20403962489
solute carrier family 17 member 9	0.23667720939
interferon regulatory factor 4	0.29108583099
leukocyte immunoglobulin like receptor A6	-0.29271040489
CD79a molecule	0.36438558827
C-type lectin like 1	0.32654681296
mitogen-activated protein kinase 14	-0.28438956983
zinc finger CCCH-type containing 12A	-0.18534494426
Fc receptor like 2	0.35697197948
basic leucine zipper ATF-like transcription factor	-0.22244554569
S100 calcium binding protein A12	-0.59043052771
solute carrier family 38 member 11	0.34813853515
N-ribosyldihydronicotinamide:quinone reductase 2	-0.26557153698
CD22 molecule	0.30438300496
TNF receptor superfamily member 17	0.75624207897
methyltransferase like 9	-0.26987144021
tudor domain containing 9	-0.45809841238
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1N (putative)	-0.31261499115
glycogen phosphorylase L	-0.31825165899

phospholipase B domain containing 1	-0.26343178531
derlin 3	0.4400624019
niban apoptosis regulator 3	0.28332875729
zinc finger and BTB domain containing 32	0.44471777235
CD72 molecule	0.2043653733
asialoglycoprotein receptor 2	-0.34444541657
ST3 beta-galactoside alpha-2,3-sialyltransferase 2	-0.23166456615
cadherin EGF LAG seven-pass G-type receptor 1	0.29841151277
sialic acid binding Ig like lectin 9	-0.22918207135
S100 calcium binding protein A9	-0.38439574722
heparanase	-0.2903475197
coagulation factor V	-0.36456424411
folistatin like 4	-0.83122051335
solute carrier family 37 member 3	-0.3418416777
glycoprotein M6A	0.46208408269
neurotensin receptor 1	-0.42109703158
prostate androgen-regulated mucin-like protein 1	0.36602470888
ral guanine nucleotide dissociation stimulator like 4	-0.32651448162
immunoglobulin lambda like polypeptide 5	0.40000125931
prepronociceptin	0.29018505682
ST3 beta-galactoside alpha-2,3-sialyltransferase 4	-0.33315821518
calcium voltage-gated channel subunit alpha1 E	-0.43925309441
flotillin 2	-0.26504919881
lamin B1	-0.32394129291
uridine phosphorylase 1	-0.27579956628
ATPase phospholipid transporting 9A (putative)	-0.49146934252
GRAM domain containing 1C	0.51422892088
glycine decarboxylase	0.73182879132
ATP binding cassette subfamily B member 4	0.30657448066
bone marrow stromal cell antigen 1	-0.23730695164
polypeptide N-acetylgalactosaminyltransferase 14	-0.49874063928
Janus kinase 3	-0.20943369027
solute carrier family 26 member 8	-0.44302785494
complement C3d receptor 2	0.29427234146
tetraspanin 13	0.29316846696
serpin family B member 1	-0.23296804578
F-box and leucine rich repeat protein 5	-0.19730619124
quiescin sulfhydryl oxidase 2	0.15696401042
LARGE xylosyl- and glucuronyltransferase 1	0.27374637358
intercellular adhesion molecule 1	-0.26132421022
mast cell immunoglobulin like receptor 1	-0.24250840692
LIM domain kinase 2	-0.29270877163
kinesin family member C3	-0.34140771675
cytoskeleton associated protein 4	-0.29955447469
GDNF family receptor alpha 2	0.37595284324
sodium voltage-gated channel alpha subunit 3	0.33050569666

RAB32, member RAS oncogene family	-0.25357721484
G protein subunit alpha 15	-0.2337698082
interferon gamma receptor 2	-0.17396589895
SRSF protein kinase 1	-0.25809237
amine oxidase copper containing 1	-0.53496232585
interleukin 7	0.28596622036
calcium voltage-gated channel auxiliary subunit beta 4	0.50219398184
WEE1 G2 checkpoint kinase	0.24035969084
FGR proto-oncogene, Src family tyrosine kinase	-0.1872264891
TNF alpha induced protein 6	-0.4837968146
butyrophilin like 9	0.53539452106
FAM20A golgi associated secretory pathway pseudokinase	-0.77322197237
HCK proto-oncogene, Src family tyrosine kinase	-0.1974671793
Ral GEF with PH domain and SH3 binding motif 2	0.1892269268
cochlin	0.38999807075
zinc finger protein 860	0.46936875201
G protein subunit gamma 7	0.22689278712
prolylcarboxypeptidase	-0.16535837443
prokineticin 2	-0.41947114362
multiple C2 and transmembrane domain containing 1	-0.19829464705
CD1c molecule	0.3233844391
chromosome 19 open reading frame 38	-0.21679155834
glutaminy-peptide cyclotransferase	-0.3168961689
docking protein 4	-0.39838085472
coiled-coil domain containing 50	0.21115471142
major histocompatibility complex, class II, DO alpha	0.23607547602
GRAM domain containing 1A	-0.18581821589
peptidoglycan recognition protein 1	-0.46266163062
dehydrogenase/reductase 13	-0.31847773589
hyaluronidase 2	-0.26458854867
FERM, ARH/RhoGEF and pleckstrin domain protein 2	0.13173184434
microtubule associated monooxygenase, calponin and LIM domain con	0.17916677238
testis expressed 9	0.28882324524
N-terminal EF-hand calcium binding protein 1	-1.15476722381
transmembrane protein 156	0.16287152688
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	-0.32041626796
spermatogenesis and centriole associated 1	-0.41324110275
signal transducing adaptor family member 1	0.23796616668
chromosome 11 open reading frame 80	0.19130286774
copine 5	0.28547871654
nibrin	-0.22045094138
monooxygenase DBH like 1	0.45841891244
ADAM metallopeptidase domain 12	0.30759756614
NFKB inhibitor zeta	-0.21970539087
EBF transcription factor 1	0.30288981452
cytokine dependent hematopoietic cell linker	0.31850934735

tumor protein p53 inducible protein 11	-0.32841560493
flotillin 1	-0.22399187948
chondroadherin	0.5310421821
complement C3b/C4b receptor 1 (Knops blood group)	-0.32608158032
tetraspanin 3	0.15209510672
acyloxyacyl hydrolase	-0.1467785938
GEN1 Holliday junction 5' flap endonuclease	0.20684660565
dual specificity phosphatase 3	-0.25298587168
cysteine rich transmembrane module containing 1	-0.31785930709
hydroxycarboxylic acid receptor 3	-0.32887275584
eukaryotic translation initiation factor 2 alpha kinase 3	0.13519426624
glutaminyI-tRNA amidotransferase subunit QRSL1	0.14612218886
double PHD fingers 3	0.27909833471
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta	0.17655839246
pleckstrin	-0.17566246095
secretory carrier membrane protein 5	0.363841115
semaphorin 4A	-0.22412632292
DNA damage regulated autophagy modulator 1	-0.15584031422
aldehyde dehydrogenase 2 family member	-0.20415237411
lysyl oxidase like 1	-0.30896375349
MAX dimerization protein 3	-0.21073698837
spermatogenesis associated serine rich 2	0.20361499442
calpain 13	-0.5738734742
vanin 2	-0.27862770177
beta-ureidopropionase 1	-0.35264407719
BCL6 transcription repressor	-0.32460929125
myosin VC	0.35598527488
glycerol-3-phosphate acyltransferase 3	-0.20063481597
Rho guanine nucleotide exchange factor 4	0.32758565617
interleukin 1 receptor associated kinase 2	-0.17983976822
fucosyltransferase 8	0.15472539584
DSN1 component of MIS12 kinetochore complex	0.16795223071
endothelin converting enzyme 1	-0.19180999489
peptidase inhibitor 3	-0.59081237959
HLF transcription factor, PAR bZIP family member	0.33155452993
dysferlin	-0.31617166766
angiotensin II receptor associated protein	-0.18605865347
EH domain containing 1	-0.22862857871
rhophilin associated tail protein 1 like	-0.24647082734
protein tyrosine phosphatase receptor type K	0.28678460599
thioredoxin domain containing 11	0.12840893924
SH3KBP1 binding protein 1	-0.22306621731
solute carrier family 41 member 2	0.34024195726
SRY-box transcription factor 5	0.46597939265
cell division cycle associated 7 like	0.194903197
protein kinase C delta	-0.17099206222

suppressor of cytokine signaling 3	-0.44334976901
FA complementation group D2	0.13223575166
multiple C2 and transmembrane domain containing 2	-0.2420507635
RUNX family transcription factor 2	0.1695640033
lactamase beta	-0.19341863203
caspase recruitment domain family member 6	-0.23127829992
cornichon family AMPA receptor auxiliary protein 4	-0.19897746984
mannose receptor C-type 1	0.4302250765
protein tyrosine phosphatase non-receptor type 13	0.25918201146
nuclear GTPase, germinal center associated	0.24167990544
ArfGAP with SH3 domain, ankyrin repeat and PH domain 1	-0.17478888149
caveolin 1	0.64468980279
spermatid perinuclear RNA binding protein	0.17125275127
major histocompatibility complex, class II, DQ alpha 1	0.22244882187
major histocompatibility complex, class II, DO beta	0.24144842524
metal regulatory transcription factor 1	-0.17769739985
haptoglobin	-0.53737163506
collagen type V alpha 3 chain	0.32102807998
perilipin 3	-0.22570817067
SWI/SNF related, matrix associated, actin dependent regulator of chromatin 1	-0.2248898724
osteoclast associated Ig-like receptor	-0.20346587722
steroid receptor RNA activator 1	-0.14880123396
peptidyl arginine deiminase 2	-0.26089998566
GLI pathogenesis related 2	-0.1651779824
TNF receptor associated factor 4	0.21637793528
INSC spindle orientation adaptor protein	-0.39699388372
collagen type IX alpha 2 chain	0.40046715507
phosphoglucomutase 1	-0.17526050786
VAMP associated protein A	-0.16604411419
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1	-0.3288205746
dishevelled associated activator of morphogenesis 2	0.89791085454
PHD finger protein 21A	-0.18158026395
myosin ID	0.18019129781
integrin subunit beta 4	-0.45437229588
microsomal glutathione S-transferase 1	-0.22423957837
LDL receptor related protein associated protein 1	-0.14644762023
integrin subunit alpha M	-0.21376643694
kelch like family member 5	-0.12335638975
signal peptide peptidase like 2A	-0.1107534901
TNFAIP3 interacting protein 1	-0.21625219862
potassium voltage-gated channel subfamily H member 3	-0.25364816264
kinase non-catalytic C-lobe domain containing 1	-0.36255154874
synoviolin 1	0.10773733411
zinc finger protein 319	-0.2006114703
pro-apoptotic WT1 regulator	0.2190950224
brain abundant membrane attached signal protein 1	-0.32255075828

phosphogluconate dehydrogenase	-0.24402205559
signal transducer and activator of transcription 5B	-0.16263936893
Yip1 domain family member 1	-0.1458596418
phosphate cytidyltransferase 1, choline, alpha	-0.12640818406
complement C3a receptor 1	-0.28972989192
CD36 molecule	-0.25938719387
RAD23 homolog B, nucleotide excision repair protein	-0.14032542076
tectonin beta-propeller repeat containing 2	-0.22764476618
fermitin family member 3	-0.17516409524
translocation associated membrane protein 2	0.13967479441
B and T lymphocyte associated	0.19329049911
maltase-glucoamylase 2 (putative)	-0.35381690957
protein kinase C and casein kinase substrate in neurons 1	0.2798975562
beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase	0.23728926516
CDK5 regulatory subunit associated protein 2	-0.17826914682
NFKB inhibitor epsilon	-0.20930879985
membrane bound O-acyltransferase domain containing 2	-0.21567823001
CDC42 effector protein 3	-0.20979809928
calcium/calmodulin dependent protein kinase kinase 2	-0.16523440787
aquaporin 9	-0.26139386499
sorting nexin 25	0.15384385641
fucosyltransferase 7	-0.28784802782
NLR family apoptosis inhibitory protein	-0.29277303237
small glutamine rich tetratricopeptide repeat containing beta	-0.13401807542
CRACD like	0.32447459866
rabphilin 3A	-0.42482983558
TAFA chemokine like family member 2	0.20652773312
activator of transcription and developmental regulator AUTS2	0.18064753654
sphingomyelin phosphodiesterase acid like 3A	-0.22423680385
dystrotelin	-0.51642198967
desmoplakin	0.38953977777
Ras protein specific guanine nucleotide releasing factor 1	0.46932587777
carbohydrate sulfotransferase 2	-0.26629189115
JunB proto-oncogene, AP-1 transcription factor subunit	-0.23595723349
RAB27A, member RAS oncogene family	-0.13299465261
VPS9 domain containing 1	-0.21315061261
C-type lectin domain family 4 member F	0.56474903068
ubiquitin conjugating enzyme E2 D1	-0.20116932711
myristoylated alanine rich protein kinase C substrate	-0.26516600642
oncostatin M	-0.37376493305
integrin subunit beta 2	-0.15383985609
RNA binding motif single stranded interacting protein 1	-0.09904886063
matrix metalloproteinase 9	-0.47140882881
vimentin	-0.19918545005
arachidonate 5-lipoxygenase	-0.18768963205
single stranded DNA binding protein 2	0.11284290884

alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase	0.12591964709
BCL3 transcription coactivator	-0.27075713287
BTB domain containing 11	0.16061002808
pyruvate kinase M1/2	-0.18852726209
	0.61066445664
neuregulin 1	-0.33764765522
glycolipid transfer protein	-0.12429953267
solute carrier family 25 member 44	-0.17982598334
glutamate-cysteine ligase modifier subunit	-0.15092906794
reticulon 4	-0.10995494289
CCAAT enhancer binding protein alpha	-0.25989569491
acyl-CoA synthetase long chain family member 1	-0.29429189994
zinc finger protein 215	0.48034514194
angiopoietin 1	0.38516946606
CAP-Gly domain containing linker protein 1	-0.11649688791
serpin family A member 1	-0.20942302696
BH3 interacting domain death agonist	-0.14246003944
docking protein 3	-0.23558905505
pyruvate dehydrogenase phosphatase regulatory subunit	0.07734688564
Jun proto-oncogene, AP-1 transcription factor subunit	0.24263524127
carbonic anhydrase 4	-0.31342688871
interferon alpha and beta receptor subunit 1	-0.156906771
zinc finger protein 532	0.16131435683
growth differentiation factor 7	0.3765133234
neutrophil cytosolic factor 4	-0.18997274477
BEN domain containing 4	0.29978037881
ADAM metallopeptidase domain 9	-0.18609772117
G protein-coupled receptor class C group 5 member D	0.58177171251
minichromosome maintenance complex binding protein	-0.11569343084
solute carrier family 22 member 4	-0.22682923562
CD82 molecule	-0.19370532148
neuropilin and tolloid like 1	0.39281779964
coenzyme Q2, polyprenyltransferase	-0.15134247307
glyceraldehyde-3-phosphate dehydrogenase	-0.21876011757
ficolin 1	-0.18144748867
lymphocyte transmembrane adaptor 1	0.13742502222
5'-3' exoribonuclease 2	-0.11496092973
dehydrogenase/reductase 7	-0.16824307676
phospholipase B1	-0.25999328242
solute carrier family 51 subunit alpha	-0.38462393118
ZFP36 ring finger protein like 1	-0.1901267618
nuclear prelamin A recognition factor	-0.15487487198
kinesin family member 1B	-0.20592610958
RNF103-CHMP3 readthrough	0.23875661614
vav guanine nucleotide exchange factor 2	0.14259280612
USP6 N-terminal like	0.13114652777

lysozyme	-0.20224398567
amyloid beta precursor protein binding family B member 1 interacting pr	-0.15109807329
THO complex 5	-0.13736044132
Fc fragment of IgG receptor IIa	-0.20127093371
sorcin	-0.10961234482
tectonic family member 1	0.18414896723
microtubule crosslinking factor 1	0.34484956218
Rap guanine nucleotide exchange factor 5	0.45014328921
signal peptidase complex subunit 2	0.09621822017
elastin microfibril interfacier 2	-0.19587156749
EF-hand domain containing 1	0.14827059298
zinc finger protein 438	-0.20985030439
TRAF interacting protein with forkhead associated domain	-0.2739858439
DnaJ heat shock protein family (Hsp40) member B5	0.31305603236
ring finger and WD repeat domain 3	0.07460614934
EF-hand domain family member D2	-0.1772948373
S100 calcium binding protein A8	-0.41375263661
neuritin 1	-0.48543463208
hydroxycarboxylic acid receptor 2	-0.25998077574
myotubularin related protein 11	-0.211745763
interleukin 17 receptor A	-0.15526402473
NFKB inhibitor alpha	-0.22951440966
cytochrome p450 oxidoreductase	-0.18142972474
ornithine aminotransferase	-0.1617549719
cyclin and CBS domain divalent metal cation transport mediator 4	0.09693750608
ADP ribosylation factor like GTPase 6 interacting protein 5	-0.12923631256
afadin, adherens junction formation factor	0.18843614455
tumor protein D52	0.21404521692
deoxyribonuclease 1 like 3	0.39764213866
tyrosylprotein sulfotransferase 2	-0.13895790561
coronin 2B	0.31814982515
protein disulfide isomerase family A member 4	0.15703811431
Fc fragment of IgG receptor Ia	-0.47747921927
glutamate rich 1	-0.11352049853
plexin C1	-0.16928595754
prolyl 4-hydroxylase subunit alpha 2	-0.23706845156
golgi associated kinase 1B	-0.24462544596
dual specificity phosphatase 10	-0.14891780542
transmembrane protein 185B	-0.1404396077
fem-1 homolog C	-0.15450672484
protein-L-isoaspartate (D-aspartate) O-methyltransferase	-0.12491808704
hedgehog acyltransferase	0.16469396999
cannabinoid receptor 2	0.16446943759
DnaJ heat shock protein family (Hsp40) member C3	-0.14758606159
katanin catalytic subunit A1 like 1	0.16030277213
solute carrier family 2 member 6	-0.19677449327

zinc finger protein 254	-0.19260857831
TBC1 domain family member 8	-0.21597790945
CD151 molecule (Raph blood group)	-0.22506340863
glutamic--pyruvic transaminase 2	0.25112412412
TNF receptor associated factor 3	-0.11952974584
phospholipase D family member 4	0.25110476125
whirlin	0.21446590485
lysophosphatidylcholine acyltransferase 3	-0.13869732162
family with sequence similarity 126 member B	-0.19837563116
solute carrier family 2 member 14	-0.33855584218
niban apoptosis regulator 1	-0.21285798715
TNF alpha induced protein 3	-0.18076174239
lin-7 homolog A, crumbs cell polarity complex component	-0.16664316571
CD55 molecule (Cromer blood group)	-0.18898326817
RELT like 1	0.23978223076
SH3 domain containing GRB2 like, endophilin B1	-0.15446241793
leukocyte immunoglobulin like receptor B3	-0.17813512353
ubiquitin associated protein 1	-0.14442988829
ATPase H ⁺ transporting V1 subunit C1	-0.14723131364
regulator of G protein signaling 3	-0.1518846269
myocyte enhancer factor 2C	0.1178930792
protein phosphatase 1 regulatory subunit 3B	-0.22794685685
potassium inwardly rectifying channel subfamily J member 15	-0.25799430879
glutamate ionotropic receptor NMDA type subunit associated protein 1	-0.30400653016
glycine amidinotransferase	0.21702506827
interleukin 1 receptor antagonist	-0.32800488869
formyl peptide receptor 1	-0.22672317133
enolase 1	-0.16107984489
G protein-coupled receptor 19	0.22347819246
calpastatin	-0.09289828078
NEDD4 binding protein 1	-0.1445576386
ATP binding cassette subfamily C member 3	-0.23591618569
zinc finger DHHC-type palmitoyltransferase 21	0.19139006805
protein tyrosine phosphatase receptor type S	0.24212896033
ADAM metallopeptidase domain 8	-0.14938231439
prostate transmembrane protein, androgen induced 1	0.20172813406
poly(ADP-ribose) polymerase family member 15	0.18223299499
CD274 molecule	-0.46882888112
insulin like 3	-0.23494201465
tumor protein p63	0.36480633332
free fatty acid receptor 2	-0.24990253373
adhesion G protein-coupled receptor G3	-0.26397486369
reticulon 3	-0.17171139448
ATPase phospholipid transporting 11B (putative)	-0.15376264453
transmembrane protein 260	-0.15855310007
kinesin family member 3C	-0.22849153625

alkaline ceramidase 3	-0.13702088413
ring finger protein 207	-0.25969285227
chloride intracellular channel 1	-0.1765409005
mitogen-activated protein kinase kinase kinase 1	0.1184577745
homeostatic iron regulator	-0.18072329631
oxysterol binding protein like 3	0.11621303458
myosin binding protein H	0.42071603623
heat shock protein family A (Hsp70) member 1A	-0.22065564991
mitochondrial calcium uptake 1	-0.10751807007
ArfGAP with GTPase domain, ankyrin repeat and PH domain 3	-0.12955598288
caspase 4	-0.18261383685
collagen beta(1-O)galactosyltransferase 1	-0.11392166426
enamelin	0.63222404246
sulfotransferase family 1B member 1	-0.23141542666
LIM domains containing 1	0.08813667284
kinesin family member 5C	0.16291735088
asialoglycoprotein receptor 1	-0.22624890689
RPGR interacting protein 1	0.24601828765
pleckstrin homology and RhoGEF domain containing G1	0.20290709313
lysosomal protein transmembrane 4 alpha	-0.11733695082
synaptojanin 2	0.11255579079
MET transcriptional regulator MACC1	0.33015301944
potassium voltage-gated channel subfamily A member 2	0.20369202726
cytochrome b-245 chaperone 1	-0.12663067579
muscle RAS oncogene homolog	-0.26053761487
CD14 molecule	-0.23490846979
DENN domain containing 5A	-0.13965590502
C-type lectin domain family 4 member D	-0.31926950794
dynein axonemal heavy chain 8	0.34702561865
tigger transposable element derived 3	0.34083663783
BAI1 associated protein 3	0.26859016777
KH RNA binding domain containing, signal transduction associated 2	0.20183201736
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1M	-0.13094756037
TLE family member 1, transcriptional corepressor	0.20732686494
delta 4-desaturase, sphingolipid 1	-0.11954466793
transmembrane and coiled-coil domains 3	-0.16079959145
TNF receptor superfamily member 21	0.30635704134
MYB proto-oncogene like 2	0.36563356399
cation channel sperm associated 1	-0.23923345182
calpain 12	0.17731170327
leukocyte immunoglobulin like receptor A4	0.36091026937
zinc finger protein 106	-0.10886143858
UDP-N-acetylglucosamine pyrophosphorylase 1	0.15758335157
brain protein I3	-0.15286839463
centrosomal protein 128	0.14245831787
chromosome 16 open reading frame 72	-0.14311478416

zinc finger DHHC-type palmitoyltransferase 3	-0.11733480488
vasodilator stimulated phosphoprotein	-0.19280890163
resistin	-0.36906119235
IKAROS family zinc finger 3	0.10746157823
solute carrier family 4 member 3	0.41944984342
long intergenic non-protein coding RNA 2218	0.28537578183
DnaJ heat shock protein family (Hsp40) member C5	-0.10622718084
family with sequence similarity 200 member B	-0.13115729319
cellular communication network factor 3	0.36482858441
adaptor related protein complex 3 subunit sigma 2	-0.13935198603
alanyl aminopeptidase, membrane	-0.22410255782
methyl-CpG binding domain protein 2	-0.08827613838
malic enzyme 2	-0.08685628793
transcriptional repressor GATA binding 1	-0.17015087884
vanin 1	-0.27695261153
ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	-0.1131493032
tyrosylprotein sulfotransferase 1	0.40374768608
zinc finger DHHC-type palmitoyltransferase 23	0.20213233974
S100 calcium binding protein A11	-0.2608989085
RAB31, member RAS oncogene family	-0.15829600408
acetyl-CoA acyltransferase 1	-0.097682067
nicotinamide phosphoribosyltransferase	-0.22160018349
UTP6 small subunit processome component	0.10428646009
radial spoke head component 9	-0.3834459077
uronyl 2-sulfotransferase	0.13702529277
solute carrier family 9 member A1	-0.13640185896
LARGE xylosyl- and glucuronyltransferase 2	0.2104440235
TNF receptor associated factor 5	0.13350335947
P2RX5-TAX1BP3 readthrough (NMD candidate)	0.28734248641
Fc fragment of IgG receptor Ib	-0.35506907579
dehydrogenase/reductase 7B	-0.09589157917
slingshot protein phosphatase 1	-0.14968499062
zinc finger protein 787	-0.13848608117
CEA cell adhesion molecule 3	-0.18059752702
phosphoglycerate mutase 1	-0.14252771875
BICD cargo adaptor 1	0.11824746141
solute carrier family 1 member 4	0.18219004641
SHC binding and spindle associated 1	0.29871408568
KIT proto-oncogene, receptor tyrosine kinase	0.31246024631
Fc fragment of IgE receptor II	0.20907965877
aldehyde dehydrogenase 1 family member L2	0.41786614187
diacylglycerol O-acyltransferase 2	-0.22129233687
protein kinase C epsilon	0.20407101668
DNA polymerase eta	0.08675499249
selenoprotein T	-0.11981980835
signaling lymphocytic activation molecule family member 1	0.13150805174

RAS related	-0.21832328265
NLR family pyrin domain containing 12	-0.16794631584
ETS proto-oncogene 2, transcription factor	-0.16166385691
mucolipin 2	0.16809806083
cathepsin A	-0.17491223216
zinc finger and BTB domain containing 7B	-0.14368986471
golgi associated, gamma adaptin ear containing, ARF binding protein 2	0.08398051579
grancalcin	-0.21334406819
growth arrest and DNA damage inducible alpha	-0.25486748195
T cell leukemia/lymphoma 1A	0.23531516957
glycosyltransferase 1 domain containing 1	-0.18110309121
cell adhesion molecule 1	0.25059713709
EF-hand calcium binding domain 2	-0.2109628984
transmembrane protein 273	0.17545383486
glutathione S-transferase omega 1	-0.14655230692
nuclear factor, erythroid 2 like 2	-0.10390151565
CD48 molecule	-0.13323770372
adhesion G protein-coupled receptor E2	-0.16417378611
protein phosphatase 4 regulatory subunit 2	-0.13800910579
solute carrier family 12 member 9	-0.13450917746
palmitoyl-protein thioesterase 1	-0.12155002551
zinc finger protein 737	0.15446687786
cathepsin Z	-0.13519156973
TNF superfamily member 15	-0.32974460604
lymphotoxin beta	-0.13668296669
sialic acid binding Ig like lectin 5	-0.23541600079
interleukin 27	-0.37292435094
solute carrier family 4 member 10	0.26861834065
beta-1,3-galactosyltransferase 2	0.31011360082
fucosyltransferase 10	0.14813110424
syntaxin binding protein 2	-0.16424068321
C-X3-C motif chemokine receptor 1	-0.20621787862
cytochrome b5 reductase 1	-0.13214539125
exosome component 4	-0.24874821681
S100 calcium binding protein A6	-0.20072893777
putative homeodomain transcription factor 1	-0.17566381894
TBC1 domain family member 2B	-0.10436500223
complement C1r subcomponent like	-0.13013067659
hydrogen voltage gated channel 1	0.11203863768
kinetochore associated 1	0.13320894599
programmed cell death 1 ligand 2	-0.48368882413
bone morphogenetic protein 8b	0.24147177901
niban apoptosis regulator 2	-0.18345090282
interferon regulatory factor 8	0.11995069
zinc finger DHHC-type palmitoyltransferase 20	-0.13367352468
solute carrier family 46 member 2	-0.20428444396

secretory leukocyte peptidase inhibitor	-0.35936945386
SOS Ras/Rho guanine nucleotide exchange factor 2	-0.12426500305
sulfide quinone oxidoreductase	-0.15069238413
cytohesin 4	-0.13555859285
G0/G1 switch 2	-0.44217078494
paxillin	-0.13311963132
hematopoietically expressed homeobox	-0.15702536606
migration and invasion inhibitory protein	-0.15063956872
SEC22 homolog B, vesicle trafficking protein (gene/pseudogene)	-0.09764482318
CD63 molecule	-0.17176734773
kinesin family member 27	0.24980466659
selectin L	-0.17815678367
hook microtubule tethering protein 2	-0.13253034212
FA complementation group M	0.13299467547
chimerin 1	0.21799690563
solute carrier family 35 member F2	0.16212781656
SEC11 homolog C, signal peptidase complex subunit	0.16974855891
tetratricopeptide repeat domain 9	0.1358489618
CD80 molecule	0.33364487962
myosin phosphatase Rho interacting protein	0.09892950776
prolyl 3-hydroxylase 2	0.4020507464
membrane associated ring-CH-type finger 5	-0.0892411433
transcription termination factor 1	0.0834529715
Rho GTPase activating protein 42	0.30503557923
BLM RecQ like helicase	0.13247998105
sodium voltage-gated channel beta subunit 1	-0.22830136775
major facilitator superfamily domain containing 14B	-0.12850579614
switching B cell complex subunit SWAP70	0.108512227
class II major histocompatibility complex transactivator	0.15637023085
family with sequence similarity 214 member A	0.13850593007
nuclear factor, erythroid 2	-0.22808253362
replication factor C subunit 3	0.12288348098
tenascin R	0.35053012146
UDP glycosyltransferase 8	0.27146042067
MYD88 innate immune signal transduction adaptor	-0.15876101306
transmembrane protein 11	-0.11237532548
syndecan 4	-0.24220270168
cut like homeobox 2	0.2750044219
chromosome 16 open reading frame 74	0.15363523555
minichromosome maintenance complex component 2	0.18442714419
quiescin sulfhydryl oxidase 1	-0.13420997792
nucleolar protein 3	-0.20577420198
phosphatidylglycerophosphate synthase 1	-0.17138832722
capping actin protein of muscle Z-line subunit alpha 2	-0.12299776414
homer scaffold protein 3	-0.1792191463
BAF chromatin remodeling complex subunit BCL7A	0.15344186532

sperm associated antigen 1	0.15815524487
RNA polymerase II subunit C	-0.11171061995
potassium voltage-gated channel subfamily H member 8	0.2360316991
chondroitin polymerizing factor	0.2653837874
leucine rich repeat neuronal 1	-0.25548623493
HECT domain E3 ubiquitin protein ligase 2	0.21616136458
ADP ribosylation factor like GTPase 11	-0.12913599707
chitinase 3 like 1	0.34269816747
torsin family 4 member A	-0.16318320929
capping actin protein, gelsolin like	-0.17592959198
exoribonuclease 1	-0.15426892598
myelin protein zero like 1	0.22924093897
aldehyde dehydrogenase 1 family member A2	-0.23814074126
ubiquitin like with PHD and ring finger domains 2	0.09882472611
scavenger receptor class F member 1	-0.25929430461
C-type lectin domain containing 17A	0.17760387022
beta-1,4-galactosyltransferase 5	-0.18515330199
dachshund family transcription factor 1	-0.213187496
Ras association domain family member 6	0.34480595954
heparan sulfate-glucosamine 3-sulfotransferase 1	0.26803705362
p53 apoptosis effector related to PMP22	0.24011584482
discs large MAGUK scaffold protein 4	-0.14803161859
calmin	-0.13507044318
signal regulatory protein alpha	-0.15459782065
poly(ADP-ribose) polymerase 1	0.09293569091
RAS like proto-oncogene B	-0.16393492971
FAM3 metabolism regulating signaling molecule C	0.15724498623
scavenger receptor family member expressed on T cells 1	0.18978198363
heat shock protein 90 beta family member 1	0.15614553096
1-acylglycerol-3-phosphate O-acyltransferase 2	-0.14438366718
EH domain binding protein 1 like 1	-0.12265940906
tribbles pseudokinase 2	0.14484150849
inhibitor of nuclear factor kappa B kinase subunit epsilon	-0.10349261265
KIAA0930	-0.1475516996
matrix metallopeptidase 25	-0.17963436486
zinc finger protein 250	-0.12837818038
transmembrane protein 121B	-0.19432541025
cilia and flagella associated protein 54	0.27515425665
immediate early response 3	-0.1764200231
teashirt zinc finger homeobox 3	-0.15278067468
acidic nuclear phosphoprotein 32 family member A	-0.09047406333
oxoeicosanoid receptor 1	-0.22531281635
solute carrier family 12 member 2	0.12434545146
docking protein 7	0.32844008189
proline-serine-threonine phosphatase interacting protein 2	-0.24849395387
selenophosphate synthetase 2	-0.12255170427

kinesin family member 11	0.25131575557
coiled-coil serine rich protein 1	0.22593649219
zinc finger protein 90	0.21771358568
phospholipase A2 group VII	-0.23734547347
NCK associated protein 5 like	-0.12134797523
CEBPZ opposite strand	-0.1022989739
solute carrier family 24 member 4	-0.1584161655
Rab interacting lysosomal protein like 2	-0.11343330426
solute carrier family 40 member 1	-0.18176870867
NDC80 kinetochore complex component	0.21891328937
family with sequence similarity 160 member A2	-0.11376336793
CKLF like MARVEL transmembrane domain containing 3	-0.11955467956
cytochrome P450 family 2 subfamily E member 1	0.264787919
TAP binding protein	-0.11967512826
heat shock protein family A (Hsp70) member 1 like	-0.12739189853
leukocyte immunoglobulin like receptor B2	-0.11211106193
calcineurin binding protein 1	0.11686449833
galectin 2	-0.23400083822
chromosome 16 open reading frame 70	-0.07784613637
ubiquitin conjugating enzyme E2 R2	-0.1420788113
inosine monophosphate dehydrogenase 1	-0.14198310778
versican	-0.21241376083
zinc finger protein 467	-0.17738820191
solute carrier family 9 member A8	-0.13760697836
syndecan 2	0.38255975485
strawberry notch homolog 2	-0.15547675729
mitogen-activated protein kinase kinase kinase 9	0.12924414639
sorting nexin 3	-0.18506048753
granule associated Rac and RHOG effector 1	0.08893568266
sorting nexin 18	-0.14326703091
tripartite motif containing 8	-0.12886562595
Rho related BTB domain containing 2	0.13738608398
sideroflexin 5	-0.12931502342
carboxylesterase 1	-0.24434065997
translocase of outer mitochondrial membrane 40 like	-0.13088884148
potassium calcium-activated channel subfamily N member 3	0.33375970012
succinyl-CoA:glutarate-CoA transferase	0.26113278573
mechanistic target of rapamycin kinase	0.07719061521
SLAM family member 6	0.10291081328
sorting nexin 22	0.17246068646
tumor protein p53 inducible protein 3	-0.19811461028
phosphoinositide-3-kinase regulatory subunit 4	0.06854816244
novel protein, TPD52-MRPS28 readthrough	0.29915751619
nuclear envelope integral membrane protein 1	0.12028270879
NODAL modulator 1	0.09303046623
phosphoinositide-3-kinase adaptor protein 1	-0.17427357472

tropomodulin 3	-0.061556576
WD repeat domain 34	0.19434509869
major histocompatibility complex, class II, DQ beta 2	0.19308748949
WD repeat and FYVE domain containing 3	-0.18449015546
zyxin	-0.18393768154
prostaglandin I2 receptor	-0.1806840228
interleukin 17 receptor E	0.23343307945
zinc finger protein 281	-0.13164398838
serpin family B member 6	-0.07724174761
CXXC finger protein 5	0.11414650314
Spi-1 proto-oncogene	-0.16252631108
cytochrome P450 family 46 subfamily A member 1	0.28937907722
cyclin dependent kinase inhibitor 2D	-0.1928805455
plasminogen activator, urokinase	-0.27878293358
solute carrier family 12 member 3	0.33994276894
serglycin	-0.17513258737
novel protein	-0.19597346853
dual specificity tyrosine phosphorylation regulated kinase 4	0.27247838324
LIM domain kinase 1	-0.18375563416
solute carrier family 16 member 4	-0.19595869207
interleukin 1 receptor associated kinase 3	-0.20796102769
lysophosphatidylcholine acyltransferase 2	-0.16173468556
FRAT regulator of WNT signaling pathway 2	-0.18517291877
zinc finger protein 117	0.2279656596
target of myb1 membrane trafficking protein	-0.1095685711
late endosomal/lysosomal adaptor, MAPK and MTOR activator 1	-0.10440402951
zinc finger CCCH-type containing, antiviral 1 like	0.31985107331
syndecan binding protein	-0.1545522119
histamine receptor H2	-0.17871705857
RAS guanyl releasing protein 4	-0.14089538008
macrophage erythroblast attacher, E3 ubiquitin ligase	-0.09723682836
synapsin III	0.27529946479
zinc finger protein 274	0.07529234941
solute carrier family 49 member 4	-0.14355043003
X-C motif chemokine receptor 1	0.41162901321
leucine rich repeat containing 4	-0.22165298748
lysophospholipase 1	-0.09796909519
methionine sulfoxide reductase B1	-0.21445944817
dysbindin domain containing 1	0.22233460675
solute carrier family 16 member 3	-0.14802010541
zinc finger protein 682	0.20258604913
rabaptin, RAB GTPase binding effector protein 2	0.09432563598
CST telomere replication complex component 1	0.08232521458
laminin subunit gamma 1	0.1848990731
G protein-coupled receptor 65	-0.1375155767
phosphoribosylformylglycinamidine synthase	0.10419099776

major facilitator superfamily domain containing 13A	-0.14451984655
major vault protein	-0.1186499657
timeless circadian regulator	0.12650288821
C-type lectin domain containing 9A	0.28352490672
solute carrier organic anion transporter family member 5A1	0.33636740578
maltase-glucoamylase	-0.24561158305
histamine N-methyltransferase	-0.17078265474
serine hydroxymethyltransferase 1	0.11156657014
dimethylarginine dimethylaminohydrolase 2	-0.15532894264
solute carrier family 38 member 1	0.1272400358
protein S	-0.28150834086
non-SMC condensin II complex subunit G2	0.11668126052
F-box protein 10	0.23918075836
ankyrin repeat and ubiquitin domain containing 1	0.21099591349
ChaC glutathione specific gamma-glutamylcyclotransferase 2	0.21437665973
RAS related 2	0.12365410432
sterile alpha motif domain containing 14	-0.39945075208
transmembrane protein 165	-0.12016157569
EBP like	-0.10250098782
MORN repeat containing 1	0.11048869832
tubulin alpha 1a	-0.18249006769
protein kinase cAMP-dependent type II regulatory subunit alpha	-0.07799220408
prostaglandin E receptor 4	0.1356940312
adaptor related protein complex 5 subunit beta 1	-0.17229021444
trio Rho guanine nucleotide exchange factor	0.12141810082
thrombospondin type laminin G domain and EAR repeats	0.35259233611
CCAAT enhancer binding protein beta	-0.18760380641
macrophage receptor with collagenous structure	-0.25426864288
lysosomal associated membrane protein family member 5	0.25749761298
IQ motif containing N	0.14298031193
protein inhibitor of activated STAT 2	0.14930142186
activating transcription factor 7 interacting protein 2	0.09874365125
cytoplasmic FMR1 interacting protein 1	-0.13985177681
family with sequence similarity 111 member B	0.29612189367
family with sequence similarity 81 member A	0.236498607
galectin 1	-0.17867361828
mitotic arrest deficient 2 like 2	-0.1406655573
C9orf72-SMCR8 complex subunit	-0.13844821115
C-type lectin domain containing 5A	-0.23177544047
APC down-regulated 1	-0.2672190942
arrestin beta 2	-0.12733720229
solute carrier family 11 member 1	-0.18450120784
formyl peptide receptor 2	-0.17651018052
BRCA2 DNA repair associated	0.22601478309
thyroid hormone receptor beta	0.26091909605
FLVCR heme transporter 2	-0.21523849374

lymphocyte cytosolic protein 1	-0.11734952408
FOS like 2, AP-1 transcription factor subunit	-0.16039287482
thioredoxin like 4B	-0.07722328297
growth arrest specific 7	-0.15386507114
zinc finger and BTB domain containing 38	0.10672058778
junction adhesion molecule like	-0.10495464318
ADP ribosylation factor like GTPase 8A	-0.10959833421
BCAR3 adaptor protein, NSP family member	0.15149606909
plakophilin 4	0.10344168474
formin homology 2 domain containing 1	-0.09024991594
ZFP36 ring finger protein	-0.1407553251
golgin A3	0.06665498453
pseudouridine synthase 7	0.11763664616
solute carrier family 15 member 3	-0.140397136
myocyte enhancer factor 2A	-0.1365201975
G kinase anchoring protein 1	0.13802966215
NLR family member X1	-0.13910426037
RAD50 interactor 1	0.09672207285
KIAA0825	-0.1691502861
sorting nexin 20	-0.11017841366
N-sulfoglucosamine sulfohydrolase	-0.11766264839
steroid 5 alpha-reductase 1	-0.1115133361
PRELI domain containing 1	-0.13921705373
thioredoxin domain containing 16	0.09778920076
membrane spanning 4-domains A6A	-0.16119257788
ER degradation enhancing alpha-mannosidase like protein 1	0.09747901114
PHD finger protein 24	0.4342055027
Fc receptor like 1	0.20918421075
ferritin heavy chain 1	-0.2270005838
CDP-diacylglycerol synthase 2	-0.08818060664
phospholipid scramblase 2	-0.27648049055
cyclin L2	0.07535445233
replication factor C subunit 5	0.09276603674
tropomyosin 3	-0.08322491725
signal induced proliferation associated 1 like 3	0.09771421395
galectin 8	-0.09897324818
interleukin 27 receptor subunit alpha	-0.09117797205
FYN binding protein 1	-0.09773892639
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta	-0.07939481516
cyclase associated actin cytoskeleton regulatory protein 1	-0.1177615814
potassium inwardly rectifying channel subfamily J member 2	-0.19470004839
desmocollin 2	-0.19983687485
solute carrier family 23 member 2	0.09728073749
harakiri, BCL2 interacting protein	0.31642852249
TNF superfamily member 13b	-0.20563539542
kazrin, periplakin interacting protein	-0.18182939098

paternally expressed 10	0.25757914212
capping actin protein of muscle Z-line subunit alpha 1	-0.10225160154
plasminogen activator, urokinase receptor	-0.148461581
embigin	-0.11970825057
cytochrome P450 family 1 subfamily B member 1	-0.19823678012
zinc finger protein 85	0.1528149947
SET binding factor 2	-0.13206779634
ST6 beta-galactoside alpha-2,6-sialyltransferase 1	0.06558451968
DOP1 leucine zipper like protein B	0.08560239375
solute carrier family 16 member 6	-0.09641848989
fms related receptor tyrosine kinase 3	0.3258308992
MAF bZIP transcription factor G	-0.14810553348
protein phosphatase 1 regulatory subunit 12A	-0.09054539652
WD repeat and SOCS box containing 2	-0.14335407177
endoplasmic reticulum to nucleus signaling 1	0.13919080468
glucosylceramidase beta	-0.12797129694
androgen dependent TFPI regulating protein	-0.16362444795
putative homeodomain transcription factor 2	0.10523945513
cytidine deaminase	-0.19279375232
dihydropyrimidine dehydrogenase	-0.10514912447
transketolase	-0.14370633855
protein phosphatase 1 regulatory subunit 3D	-0.13496217509
lysine acetyltransferase 2A	0.09291804153
FERM domain containing 4B	-0.12390177086
MOK protein kinase	0.23538682281
ADP ribosylation factor GTPase activating protein 3	-0.07573218399
growth arrest and DNA damage inducible beta	-0.17226721875
interferon induced transmembrane protein 2	-0.24670192794
TRAF interacting protein	0.21763829141
WD repeat domain 77	0.095373206
thioredoxin reductase 1	-0.0954080449
transmembrane protein 144	-0.19173216051
pyridoxal kinase	-0.0917913477
STIL centriolar assembly protein	0.19461731315
piwi like RNA-mediated gene silencing 4	-0.14898237954
elongation factor for RNA polymerase II 2	0.12263233844
Jupiter microtubule associated homolog 1	-0.15242493123
BUB1 mitotic checkpoint serine/threonine kinase	0.2857303428
sosondowah ankyrin repeat domain family member C	-0.21838234616
centrosomal protein 295	0.09066916295
zinc finger protein 318	0.09101744124
novel protein	-0.26908385791
cathepsin H	-0.12131726116
dipeptidase 3	0.21737732246
inositol polyphosphate phosphatase like 1	-0.08172999879
RAB20, member RAS oncogene family	-0.21077544003

nuclear factor, interleukin 3 regulated	-0.17662106075
proteasome 20S subunit beta 3	-0.15299896598
succinate dehydrogenase complex subunit C	-0.06149853258
BCL2 related protein A1	-0.24779854529
von Willebrand factor A domain containing 5A	-0.10990685629
sodium channel modifier 1	-0.07589574179
N-alpha-acetyltransferase 40, NatD catalytic subunit	0.09159359049
myosin light chain 9	-0.39133131944
sphingomyelin phosphodiesterase acid like 3B	0.20498133293
cut like homeobox 1	-0.11772911686
PNKD metallo-beta-lactamase domain containing	-0.12010715034
plexin D1	-0.12436600953
protein kinase C zeta	0.1000612985
serine palmitoyltransferase small subunit B	0.29130707902
collagen type XXIV alpha 1 chain	0.26858906271
CD300 molecule like family member d	-0.28512457186
kelch repeat and BTB domain containing 8	0.16913904479
ubiquitin specific peptidase 46	0.11702112692
transmembrane immune signaling adaptor TYROBP	-0.14486190307
ghrelin and obestatin prepropeptide	-0.18613616702
TEF transcription factor, PAR bZIP family member	0.13206263663
6-pyruvoyltetrahydropterin synthase	0.1026219764
proteasome 20S subunit alpha 1	0.12458403794
hypoxia up-regulated 1	0.09447889869
sidekick cell adhesion molecule 2	0.14682856098
guanosine monophosphate reductase 2	-0.08547906316
STEAP4 metalloredutase	-0.17547455738
heat shock protein family A (Hsp70) member 12A	0.26800106697
solute carrier family 25 member 42	0.08729183346
senataxin	0.08462667798
novel protein, SIRPB1-SIRPD readthrough	-0.12213255103
inositol 1,4,5-trisphosphate receptor type 1	0.10242476003
mitogen-activated protein kinase kinase kinase 4	-0.10354836232
siah E3 ubiquitin protein ligase 1	0.09796574724
glucosamine (N-acetyl)-6-sulfatase	-0.10957481665
solute carrier family 39 member 8	-0.11269814853
ras homolog family member G	-0.18263372498
RAB19, member RAS oncogene family	-0.22677853481
NFAT activating protein with ITAM motif 1	-0.13480602362
shortage in chiasmata 1	-0.38325554254
serine peptidase inhibitor, Kunitz type 2	-0.11570204518
MLLT1 super elongation complex subunit	-0.11733182467
BRCA1 interacting protein C-terminal helicase 1	0.18646963455
huntingtin interacting protein 1 related	0.1082369438
transcription factor 7 like 2	-0.15029968054
WD repeat domain 59	0.05738475039

Holliday junction recognition protein	0.3355147306
vav guanine nucleotide exchange factor 1	-0.08633324453
sphingosine-1-phosphate receptor 3	-0.18370624758
osteoclast stimulating factor 1	-0.08529145893
chromosome 4 open reading frame 3	-0.12714109657
CBFA2/RUNX1 partner transcriptional co-repressor 2	0.0613803301
G protein subunit alpha i3	-0.08162001385
minichromosome maintenance complex component 7	0.07201289152
ATPase H ⁺ transporting V0 subunit d1	-0.11961319991
radial spoke head 3	0.10943549119
C-X-C motif chemokine receptor 5	0.15605896405
SLIT-ROBO Rho GTPase activating protein 2	0.16635057183
kelch like family member 2	-0.16487886582
TATA-box binding protein	0.06643850523
MANSC domain containing 1	-0.20630313552
ring finger protein 24	-0.14648750604
novel protein	-0.13896804876
cytochrome c oxidase assembly factor 1 homolog	0.09778044449
tubulin folding cofactor B	-0.07998856014
aquaporin 10	-0.34140936799
C-C motif chemokine ligand 3 like 3	0.29092469782
pipecolic acid and sarcosine oxidase	-0.09501186454
polyamine oxidase	0.12562564244
family with sequence similarity 174 member A	0.14519473792
PX domain containing serine/threonine kinase like	-0.12288880032
nucleoporin 160	0.07902963756
platelet factor 4 variant 1	-0.31530070322
hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit 1	-0.05121353828
C-terminal Src kinase	-0.09582969822
fibulin 2	0.18884656421
ubiquitin specific peptidase like 1	0.09242045918
N-acetyltransferase domain containing 1	-0.19632974058
bone morphogenetic protein 8a	0.32633180112
SEC61 translocon subunit alpha 2	0.12816817917
zinc finger and SCAN domain containing 18	0.11164264844
actin related protein 1A	-0.08865822796
microtubule interacting and trafficking domain containing 1	-0.1075649405
NDC1 transmembrane nucleoporin	0.0844241377
transmembrane protein 64	-0.13594491438
GTP cyclohydrolase 1	-0.1901523732
autophagy related 3	-0.13353071452
toll like receptor 1	-0.13016099518
regulator of G protein signaling 19	-0.12229204953
ankyrin repeat domain 34B	-0.25017447597
zinc finger protein 518B	0.08911769981
family with sequence similarity 151 member B	-0.13655311412

ubiquitin specific peptidase 28	0.09539599915
integrin subunit alpha 1	-0.15555119054
CD180 molecule	0.14315688855
zinc finger protein 93	0.11100640568
nectin cell adhesion molecule 2	-0.17887109213
jumonji domain containing 6, arginine demethylase and lysine hydroxyl	-0.08516038634
helicase, lymphoid specific	0.14852878143
integrin linked kinase	-0.09984195674
Ras association domain family member 4	-0.12185152074
cAMP responsive element binding protein 5	-0.15050199708
FKBP prolyl isomerase 15	-0.08203135041
WD repeat domain 86	0.1436400087
thioredoxin	-0.18381242643
transmembrane O-mannosyltransferase targeting cadherins 2	-0.13750882216
interleukin 12 receptor subunit beta 2	0.16781464655
microtubule associated protein 1 light chain 3 beta 2	0.19295229571
metaxin 1	-0.11841325036
transmembrane protein 163	0.21957438015
kinase suppressor of ras 1	0.10810331771
perilipin 4	-0.1860101571
zinc finger MIZ-type containing 1	0.11068086858
stomatin	-0.17506891508
neogenin 1	0.12431504682
gelsolin	-0.14587844762
caspase recruitment domain family member 11	0.08857368917
abhydrolase domain containing 12B	-0.32273810588
chromosome 10 open reading frame 105	0.19098557533
adenosine monophosphate deaminase 3	-0.09236023767
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	-0.15238846014
novel protein	0.23334512025
zinc finger protein 107	0.15828739637
integrin subunit alpha 7	-0.33650152504
Fc fragment of IgM receptor	0.09576909995
FKBP prolyl isomerase 14	0.14558201748
interleukin 10 receptor subunit beta	-0.13682283436
perilipin 5	-0.16945908938
phospholipase C delta 3	-0.19856106462
serpin family B member 8	-0.10217473714
VPS41 subunit of HOPS complex	0.06959229153
glutathione S-transferase kappa 1	-0.08171807524
glycerol-3-phosphate dehydrogenase 1 like	0.07828463784
PHD finger protein 7	0.09155133674
CD79b molecule	0.22634260203
phospholipid scramblase 1	-0.26311066879
MAPK interacting serine/threonine kinase 1	-0.12244274212
CD58 molecule	-0.09489187554

FA complementation group I	0.10786482109
PPFIA binding protein 1	0.13692694659
inner centromere protein	0.09527424278
ribonuclease A family member k6	0.16241961714
cyclin and CBS domain divalent metal cation transport mediator 3	0.07700331712
ATPase family AAA domain containing 5	0.13389013555
AE binding protein 1	0.14554057201
ArfGAP with FG repeats 1	-0.10381556856
chromosome 12 open reading frame 42	0.12809979907
ERCC excision repair 6, chromatin remodeling factor	0.07642865747
tumor protein p53 binding protein 1	0.07433149658
annexin A2	-0.13648729871
valyl-tRNA synthetase 1	0.08912242773
SH3 domain binding protein 4	0.19239264225
round spermatid basic protein 1	-0.10204835063
DDB1 and CUL4 associated factor 10	-0.06523224414
glutathione S-transferase C-terminal domain containing	0.10887050712
thyroid stimulating hormone receptor	0.26054412832
jumonji and AT-rich interaction domain containing 2	0.10921310265
SID1 transmembrane family member 1	0.0812005436
microtubule associated monooxygenase, calponin and LIM domain con-	-0.09150263343
major histocompatibility complex, class II, DQ beta 1	0.13386946268
CD200 molecule	0.18048332984
opioid growth factor receptor like 1	0.13369223402
folistatin like 3	-0.16143679748
H4 histone 16	0.18055345618
G protein-coupled receptor 137B	-0.09205462234
5'-nucleotidase domain containing 1	0.05612453539
mannosidase alpha class 2B member 1	-0.07919828889
thyroid hormone receptor interactor 13	0.31154495425
nuclear transcription factor, X-box binding 1	0.04922384099
isoleucyl-tRNA synthetase 1	0.07058119546
TUB like protein 4	0.07863621248
ASXL transcriptional regulator 1	0.05607688189
CD300e molecule	-0.19517194688
ras homolog family member Q	-0.07646559756
lectin, mannose binding 1	0.11074679985
hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex sul-	-0.06752820273
F-box and WD repeat domain containing 8	0.09166326944
URB1 ribosome biogenesis homolog	0.08592124926
recombination signal binding protein for immunoglobulin kappa J region-	-0.08696054561
siah E3 ubiquitin protein ligase 2	-0.23374733745
TATA-box binding protein associated factor 4b	0.108742729
mitogen-activated protein kinase kinase 6	-0.14204929241
LRR binding FLII interacting protein 2	-0.08813008011
NFKB inhibitor delta	-0.07809763682

Rho GTPase activating protein 30	-0.07565064378
exostosin glycosyltransferase 1	-0.15287792695
oligodendrocyte transcription factor 1	-0.17069943636
dishevelled associated activator of morphogenesis 1	0.0778239647
family with sequence similarity 89 member A	-0.1755744293
serine carboxypeptidase 1	-0.09263651725
mitogen-activated protein kinase kinase kinase 14	0.06344453557
dehydrogenase/reductase 3	-0.1061956103
establishment of sister chromatid cohesion N-acetyltransferase 2	0.30491742753
galactokinase 1	-0.13007902917
family with sequence similarity 241 member A	-0.10722173953
ring finger protein 144B	-0.12854911712
zinc finger CCCH-type containing 8	0.08921058835
transmembrane protein 170B	-0.12090367912
PDZ and LIM domain 5	-0.05920813705
coiled-coil domain containing 149	-0.11170657565
C-type lectin domain containing 6A	-0.2283986192
phorbol-12-myristate-13-acetate-induced protein 1	0.19806767289
PAT1 homolog 2	0.09901857344
cell division cycle associated 7	0.21527238099
forkhead box M1	0.27890893237
non-SMC condensin I complex subunit G	0.31112669746
SDE2 telomere maintenance homolog	0.10411758273
coagulation factor XIII A chain	-0.20488403448
ribosomal modification protein rimK like family member B	0.12657189521
fatty acid desaturase 1	-0.14084329206
transforming growth factor beta receptor 1	-0.09079148844
histone deacetylase 7	-0.07586223188
fatty acyl-CoA reductase 1	-0.11357099469
solute carrier family 30 member 5	0.05814802507
plexin B2	-0.15086421367
glycoprotein IX platelet	-0.30973024737
cAMP responsive element binding protein 3 like 2	0.07657682934
superoxide dismutase 2	-0.15963313287
peroxidase like	0.10774045243
G protein-coupled receptor kinase 5	0.06882501138
homocysteine inducible ER protein with ubiquitin like domain 1	0.07185561618
transcription termination factor 2	0.09269822823
solute carrier organic anion transporter family member 4C1	-0.17370221026
zinc finger protein 718	0.08947824664
CASP8 and FADD like apoptosis regulator	-0.10418589366
formiminotransferase cyclodeaminase N-terminal like	0.12794101437
tyrosyl-DNA phosphodiesterase 2	-0.1114058055
storkhead box 2	0.33575275617
protocadherin 9	0.20293102462
Fc receptor like 3	0.11864771044

TBC1 domain family member 9	0.11238405434
MDM2 proto-oncogene	0.12482376373
potassium calcium-activated channel subfamily N member 4	0.09732692014
lysophosphatidic acid receptor 1	-0.1536932855
sorting nexin family member 21	-0.13501553656
folistatin like 1	-0.2560237176
AT-rich interaction domain 1B	0.06498876709
DDHD domain containing 2	0.09097814028
ankyrin repeat domain 22	-0.40300538802
guanylate cyclase activator 1B	0.09395142799
MYC associated factor X	-0.08352539262
ubiquitin specific peptidase 19	0.06936411065
GRB2 associated binding protein 1	0.11659341034
ribosomal protein S6 kinase A5	0.11478711137
ankyrin and armadillo repeat containing	0.07642427764
cortactin binding protein 2	0.36567978625
proliferation and apoptosis adaptor protein 15	-0.12600523343
myotubularin related protein 12	0.07489011701
TBC1 domain family member 3L	-0.13074717412
xylosyltransferase 1	0.09649933642
G protein subunit beta 2	-0.14680225857
ATP/GTP binding protein 1	-0.10829483558
bromodomain containing 1	0.08480140565
zinc finger protein 697	-0.14077452116
VENT homeobox	-0.14280105484
HEAT repeat containing 5B	0.07074395322
leucine rich repeat containing 36	0.32558232558
EPH receptor B3	-0.26867850767
potassium two pore domain channel subfamily K member 10	0.36639707289
divergent protein kinase domain 1A	0.09671227677
pleckstrin homology domain containing A7	0.14644914552
purinergic receptor P2X 7	-0.13193448888
NCK associated protein 1 like	-0.06180793267
intraflagellar transport 57	0.13387521048
NOP2/Sun RNA methyltransferase 3	-0.07144543893
kinetochore scaffold 1	0.20546518942
integrin subunit alpha 4	0.11018542402
synapsin II	-0.32656447288
solute carrier family 8 member B1	-0.06062267397
cysteine and serine rich nuclear protein 1	-0.17880600536
transmembrane protein 45B	-0.14982147676
integrin subunit alpha X	-0.13283849425
twinfilin actin binding protein 2	-0.11250341963
growth factor receptor bound protein 2	-0.08489337735
ribonuclease A family member 2	-0.22347652219
assembly factor for spindle microtubules	0.28196317851

RAD17 checkpoint clamp loader component	0.07511351705
GIT ArfGAP 2	-0.06149534149
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1K	0.12000126946
synergin gamma	0.05078732808
H2B clustered histone 12	-0.21117963655
midnolin	-0.13242536548
anillin actin binding protein	0.27876297679
lipin 2	0.11152655464
HIV-1 Tat interactive protein 2	-0.0971372887
actin related protein 3	-0.07216465523
interleukin 18 receptor accessory protein	-0.19178396065
caspase 1	-0.13090245912
caspase recruitment domain family member 16	-0.21345787499
zinc finger CCCH-type containing 12D	0.09464611759
RAB8B, member RAS oncogene family	-0.08032993914
E2F transcription factor 8	0.35228626037
adenosine kinase	0.10534250164
CKLF like MARVEL transmembrane domain containing 5	-0.31534344891
polyamine modulated factor 1 binding protein 1	0.15533498995
protein disulfide isomerase family A member 5	0.1178014523
5'-nucleotidase domain containing 2	0.20832211311
Kruppel like factor 4	-0.14950888947
potassium voltage-gated channel subfamily H member 7	-0.40289967226
FAD dependent oxidoreductase domain containing 1	0.07858272292
PBX homeobox interacting protein 1	0.09743064005
LIM and SH3 protein 1	-0.11147335165
golgi membrane protein 2	-0.06230062065
transmembrane and coiled-coil domain family 1	0.13931018879
retinal outer segment membrane protein 1	-0.229831942
microsomal glutathione S-transferase 3	-0.07159734386
heme binding protein 1	-0.16867361629
regulator of microtubule dynamics 2	0.10614308051
UBX domain protein 11	-0.09665512422
phosphatidylinositol binding clathrin assembly protein	-0.09163611679
WASP family member 1	-0.18182894799
tetraspanin 9	-0.21516496653
protein phosphatase 1 regulatory subunit 18	-0.13932764857
late endosomal/lysosomal adaptor, MAPK and MTOR activator 5	-0.14950092452
cadherin related family member 2	-0.10781534651
Rho GTPase activating protein 15	-0.09882852452
myelin expression factor 2	0.17518298873
calpain 14	0.2060916206
notch receptor 4	0.24173147291
UTP20 small subunit processome component	0.08781000965
transmembrane protein 38A	-0.12628933048
C-X-C motif chemokine ligand 8	0.33464202756

armadillo repeat containing 7	-0.08734254803
kynureninase	-0.14402542768
RNA binding motif protein 4	0.07660846208
collagen type XIX alpha 1 chain	0.1486224261
chromosome 12 open reading frame 66	0.10735901928
RAB30, member RAS oncogene family	0.15352224416
calcium binding protein 39	-0.0851658833
S100 calcium binding protein A4	-0.13955696301
syntaxin 11	-0.1714555746
G protein-coupled receptor 132	-0.08362292871
PX domain containing 1	0.17855842933
EF-hand calcium binding domain 13	0.12704008332
inositol polyphosphate-5-phosphatase F	0.08884032088
keratin 23	-0.17229063353
regulating synaptic membrane exocytosis 3	0.13426644645
ADNP homeobox 2	0.07291590081
amine oxidase copper containing 3	0.17997494796
BUB1 mitotic checkpoint serine/threonine kinase B	0.31056883864
G2 and S-phase expressed 1	0.21690899757
myosin XIX	0.07083369174
acyl-CoA binding domain containing 3	0.0474467068
zinc finger protein 138	0.12045669754
SECIS binding protein 2	0.06960895525
nuclear receptor binding SET domain protein 2	0.07266730197
SPG21 abhydrolase domain containing, maspardin	-0.08566485603
transient receptor potential cation channel subfamily M member 2	-0.14838359052
myosin X	-0.22122963943
transmembrane protein 33	-0.07427228604
zinc finger GRF-type containing 1	0.11920214751
nicastrin	-0.07671526283
cyclin dependent kinase 2 interacting protein	-0.07677357508
zinc finger protein 154	0.12920664559
F-box protein 6	-0.23050176323
EPH receptor B4	-0.16835133461
DEAD-box helicase 27	0.05700056939
phosphatidylinositol glycan anchor biosynthesis class G	0.06326726192
sphingosine-1-phosphate receptor 4	-0.13220565031
potassium voltage-gated channel subfamily Q member 5	0.1093415444
guanylate binding protein 2	-0.16783309543
small integral membrane protein 3	-0.13625368211
TBC1 domain family member 2	-0.08932265512
kallikrein 1	0.27706856317
nicotinamide nucleotide adenylyltransferase 1	-0.07945024188
collagen type V alpha 1 chain	0.22453486449
glycerophosphodiester phosphodiesterase 1	-0.14182530056
tetratricopeptide repeat domain 21A	0.19482725048

glutamyl-tRNA synthetase 2, mitochondrial	0.07529755789
rabaptin, RAB GTPase binding effector protein 1	0.04797962637
apoptosis associated tyrosine kinase	-0.15091057439
centromere protein E	0.19884131171
triggering receptor expressed on myeloid cells like 1	-0.30350966877
pleckstrin homology and RhoGEF domain containing G3	0.12790954412
lactate dehydrogenase A	-0.10660650808
mal, T cell differentiation protein	-0.13072384264
cell division cycle 42	-0.06889081335
ankyrin repeat domain 50	-0.11497345272
G protein-coupled receptor kinase 6	-0.0974712672
Ras like without CAAX 1	-0.093387855
isocitrate dehydrogenase (NADP(+)) 1	-0.09356387507
dedicator of cytokinesis 7	0.12193371476
Abelson helper integration site 1	0.10602829003
SREBF chaperone	0.08767263411
novel transcript	0.14714492522
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation prc	-0.08383701336
natural cytotoxicity triggering receptor 1	-0.17433160811
PR/SET domain 5	-0.1547100508
metallothionein 1F	-0.17480729117
toll like receptor adaptor molecule 1	-0.09856413451
zinc finger protein 316	-0.07771517547
TPD52 like 2	-0.08405502483
mitogen-activated protein kinase 9	0.05602246736
UBX domain protein 2B	-0.10593052691
EMAP like 4	0.07366393949
hepsin	-0.26103504598
minichromosome maintenance 10 replication initiation factor	0.34105222789
transforming growth factor beta 1	-0.12178579913
family with sequence similarity 89 member B	-0.16531988722
pro-platelet basic protein	-0.27020216596
H3.3 histone B	-0.13779920072
desumoylating isopeptidase 1	-0.06865966279
Rac family small GTPase 2	-0.11701330441
GSG1 like	0.21594981964
Ras and Rab interactor 1	-0.15267607033
leucine rich repeat containing 61	-0.18144176426
adenosine deaminase tRNA specific 1	0.1038431549
kelch domain containing 8B	0.18211399568
complement C5a receptor 1	-0.15162215294
secreted and transmembrane 1	-0.21207326427
EPH receptor A4	0.09507928484
purinergic receptor P2Y14	-0.26825262482
SLIT-ROBO Rho GTPase activating protein 2C	0.14620343671
minichromosome maintenance complex component 5	0.07857781264

tropomyosin 4	-0.07704259557
PDCD6-AHRR readthrough (NMD candidate)	0.25801727824
FAM20C golgi associated secretory pathway kinase	-0.16247727153
poly(ADP-ribose) polymerase 2	0.1113543914
nuclear factor, erythroid 2 like 3	-0.11562760779
NADH:ubiquinone oxidoreductase complex assembly factor 6	0.06913205307
methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase	0.08186440674
saccharopine dehydrogenase (putative)	-0.10605035089
leukocyte specific transcript 1	-0.1204098987
neutrophil cytosolic factor 2	-0.09544165675
H2B clustered histone 21	-0.17056224636
centromere protein F	0.19647557562
growth arrest specific 2 like 1	-0.21335950747
small integral membrane protein 35	0.1826777864
cyclin J like	-0.17914264965
RCC1 and BTB domain containing protein 2	-0.09397119431
G protein-coupled receptor 27	-0.16838058539
spermatogenesis associated 2 like	-0.13711712856
FES proto-oncogene, tyrosine kinase	-0.09981366847
nipsnap homolog 3B	0.14865866435
TEK receptor tyrosine kinase	0.33496712981
actin related protein 2/3 complex subunit 5	-0.10228379055
NLR family pyrin domain containing 1	0.08377784908
solute carrier organic anion transporter family member 3A1	-0.08746978383
phosphatase domain containing paladin 1	0.22824659818
RAB3A, member RAS oncogene family	-0.14828937856
FCH and double SH3 domains 2	0.07305864137
methyltransferase like 8	0.07156644897
cytoplasmic FMR1 interacting protein 2	-0.05965750476
serum/glucocorticoid regulated kinase 1	0.1740307441
zinc finger protein 66	0.13397487697
lon peptidase 2, peroxisomal	0.07381440129
non-SMC condensin I complex subunit H	0.1940070066
G protein signaling modulator 3	-0.14203804028
CD244 molecule	-0.09788252233
ribosomal RNA processing 12 homolog	-0.11022055736
zinc finger DHHC-type palmitoyltransferase 18	-0.12347404065
thymidine phosphorylase	-0.15977135623
deltex E3 ubiquitin ligase 4	0.16822862648
GM2 ganglioside activator	-0.11050400955
major histocompatibility complex, class II, DQ alpha 2	0.1497197093
ubiquitin specific peptidase 24	0.07688910136
signal transducer and activator of transcription 5A	-0.08416055515
methylcrotonoyl-CoA carboxylase 2	0.06399219271
membrane spanning 4-domains A14	-0.16144827708
nuclear pore complex interacting protein family member B4	0.08408242297

fuzzy planar cell polarity protein	0.11319377086
prefoldin subunit 1	-0.08558716913
maternal embryonic leucine zipper kinase	0.31423401384
ependymin related 1	-0.15745988303
death effector domain containing	-0.07180327738
TNF receptor superfamily member 11a	0.17706374597
myosin IE	0.11005628839
zinc finger CCHC-type containing 4	0.09264942631
RAD51 associated protein 1	0.21698745021
CDC42 effector protein 1	-0.22149479572
EPH receptor B1	0.16772257343
Gse1 coiled-coil protein	0.08212700469
zinc finger E-box binding homeobox 2	-0.07829644627
periphilin 1	0.0546941329
orosomucoid 1	-0.30907251646
nei like DNA glycosylase 1	0.12518015812
tumor protein p53 inducible nuclear protein 2	0.20995546529
ubiquitin specific peptidase 45	0.11159444709
5'-aminolevulinate synthase 1	-0.0824876687
mitogen-activated protein kinase kinase kinase 4	0.07432280262
carbonic anhydrase 6	-0.2209345773
contactin associated protein 1	0.13982337672
ArfGAP with GTPase domain, ankyrin repeat and PH domain 4	0.09774654627
glutaminy-peptide cyclotransferase like	0.10696020248
RFT1 homolog	-0.07666616687
neurobeachin like 2	-0.10501214641
centromere protein J	0.10496901805
myocardin related transcription factor B	0.08178881113
carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and d	0.06793829279
formin binding protein 4	0.06357896937
G protein-coupled receptor 108	-0.0838929181
spermatogenesis associated 6	0.15983954045
CD302 molecule	-0.10032203786
clusterin	-0.26981843237
ADAM metallopeptidase with thrombospondin type 1 motif 6	0.17642949854
tripartite motif containing 21	-0.1368409624
lipopolysaccharide induced TNF factor	-0.14946702612
WD repeat domain 78	0.12014727804
N-acetylglutamate synthase	-0.16115253921
exonuclease 5	0.13681306845
cysteinyl-tRNA synthetase 2, mitochondrial	-0.08264603507
meteorin like, glial cell differentiation regulator	-0.12845360508
SAS-6 centriolar assembly protein	0.11251784233
nurim	-0.1248309331
glycosylated lysosomal membrane protein	-0.10617956798
autophagy related 2A	0.14238659248

WD repeat and SOCS box containing 1	-0.11027449731
ribonucleotide reductase regulatory subunit M2	0.24828132508
cell cycle progression 1	-0.10702000844
phospholipase C delta 1	0.08844703819
netrin G1	0.38504156873
mediator complex subunit 12L	-0.20937880571
WD repeat domain 62	0.16024962756
coiled-coil domain containing 6	0.0606319225
GCN1 activator of EIF2AK4	0.06775126036
novel protein	-0.12133940648
SAP30 like	-0.0627284384
immunoglobulin superfamily member 6	-0.11524364471
PHD finger protein 23	-0.0890500693
choline phosphotransferase 1	-0.16549369299
Scm polycomb group protein homolog 1	0.06468042039
lipase C, hepatic type	-0.10963560833
zinc finger protein 236	0.07981646798
zinc finger protein 528	0.10947832316
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7	0.23121404929
unc-51 like kinase 4	0.09368200966
NOC3 like DNA replication regulator	0.1185806302
ELL associated factor 2	0.10964380169
beta-1,3-N-acetylgalactosaminyltransferase 2	0.06792892529
C3 and PZP like alpha-2-macroglobulin domain containing 8	-0.13620233873
zinc finger DHHC-type palmitoyltransferase 7	-0.0621237113
CD300c molecule	-0.1435002836
mono-ADP ribosylhydrolase 2	0.27286304575
MYCL proto-oncogene, bHLH transcription factor	-0.1406381442
TNF receptor superfamily member 1A	-0.10902122244
frizzled class receptor 6	0.16088414285
annexin A5	-0.10167092665
phosphatidylethanolamine binding protein 4	0.23884602327
storkhead box 1	0.27065926
TATA-box binding protein associated factor, RNA polymerase I subunit	0.12703466788
PARP1 binding protein	0.15048852098
tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase	0.06221532233
VRK serine/threonine kinase 1	0.10188873612
RTF1 homolog, Paf1/RNA polymerase II complex component	-0.06041499501
anaphase promoting complex subunit 15	-0.11896869405
netrin G2	-0.17182630806
minichromosome maintenance complex component 4	0.14291390435
non-SMC condensin II complex subunit D3	0.07025143044
matrix metalloproteinase 8	-0.39701354798
kinesin family member 18A	0.25160574431
TNF superfamily member 14	-0.13088975261
zinc finger and BTB domain containing 22	-0.0861595078

coiled-coil domain containing 32	0.04897588427
SLIT-ROBO Rho GTPase activating protein 2B	0.17431287824
WRN RecQ like helicase	0.07383697259
LIM zinc finger domain containing 1	-0.07207492453
period circadian regulator 3	0.11405339194
patatin like phospholipase domain containing 1	-0.15852353307
granulin precursor	-0.13878159331
G protein-coupled receptor 137	-0.08421061088
checkpoint kinase 1	0.21076704441
cell division cycle 20	0.34556733783
protein kinase, DNA-activated, catalytic subunit	0.11990103119
transforming growth factor alpha	-0.14989458746
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8	-0.18206412172
cyclin dependent kinase 2 associated protein 1	-0.11868342142
transaldolase 1	-0.13759044081
TAR (HIV-1) RNA binding protein 1	0.10140427693
transmembrane protein 241	0.09409608555
poly(A)-specific ribonuclease	0.04308266252
nicotinate phosphoribosyltransferase	-0.09860914034
coactosin like F-actin binding protein 1	-0.11953549002
C1QTNF3-AMACR readthrough (NMD candidate)	0.09274328725
SR-related CTD associated factor 4	0.05151059022
aquaporin 3 (Gill blood group)	0.11602315767
midasin AAA ATPase 1	0.09542073063
cell adhesion molecule L1 like	0.25675815847
C2 domain containing 3 centriole elongation regulator	0.06229763534
replication factor C subunit 4	0.11017978653
chaperonin containing TCP1 subunit 6B	0.160640855
family with sequence similarity 136 member A	0.07887559155
DLG associated protein 5	0.3158276765
LHFPL tetraspan subfamily member 5	-0.29807125286
NUF2 component of NDC80 kinetochore complex	0.19766968793
zinc finger protein 684	0.20274203409
pericentriolar material 1	0.08095351842
FIC domain protein adenylyltransferase	0.09459998502
ATP binding cassette subfamily G member 1	0.14963124449
PYD and CARD domain containing	-0.14656985943
MYB binding protein 1a	0.07495227281
zinc finger and BTB domain containing 47	-0.1139777261
myosin light chain 12A	-0.10577368626
zinc finger protein 469	0.16319396317
pellino E3 ubiquitin protein ligase family member 3	-0.12644019919
FYVE and coiled-coil domain autophagy adaptor 1	0.07848317241
ring finger protein 149	-0.09430311974
inositol 1,4,5-trisphosphate receptor type 3	0.08760225059
ADAM metallopeptidase domain 23	0.14297926731

ORAI calcium release-activated calcium modulator 2	-0.10806788231
glycosylphosphatidylinositol specific phospholipase D1	0.17023655741
legumain	0.11848945801
novel transcript, METTL10-FAM53B readthrough	0.13738990323
ADP ribosylation factor like GTPase 10	0.08313508678
diacylglycerol kinase eta	0.16847892597
TSPY like 1	0.05657263555
RAD54 like	0.266096858
family with sequence similarity 167 member A	0.16640581743
CCR4-NOT transcription complex subunit 10	0.04422203392
nuclear factor I C	-0.07632989955
VPS35 retromer complex component	-0.05884531348
misato mitochondrial distribution and morphology regulator 1	0.11754406289
HID1 domain containing	0.17569130411
sialic acid acetyltransferase	-0.08821106793
TIMP metalloproteinase inhibitor 2	-0.10343924267
mitogen-activated protein kinase 3	-0.12574027778
phosphodiesterase 3B	0.09863997589
zinc finger protein 439	0.09675650934
family with sequence similarity 160 member B1	-0.10983386782
origin recognition complex subunit 6	0.19583235058
Ras and Rab interactor 3	-0.08143420767
kelch like family member 11	0.11322225322
ATPase H ⁺ transporting V0 subunit e1	-0.09036999902
presenilin 1	-0.05880577068
absent in melanoma 2	-0.22534251931
centrosomal protein 55	0.29001293376
golgin A7	-0.07370508058
lysosomal associated membrane protein 1	-0.08334734497
cystatin B	-0.11290484905
COMM domain containing 9	-0.09000008888
amine oxidase copper containing 2	0.15105911933
LDL receptor related protein 10	-0.12328127195
tripartite motif containing 7	-0.16329478572
ERGIC and golgi 2	-0.10474061231
RNA polymerase III subunit E	0.0585597399
multiple EGF like domains 8	0.07777963393
cysteinyl-tRNA synthetase 1	-0.05508778443
formyl peptide receptor 3	0.20855634058
DNA topoisomerase II alpha	0.22062970481
NFkB activating protein like	0.21875351101
kinesin family member 20B	0.1165029269
RWD domain containing 4	0.07965409435
GDP-mannose pyrophosphorylase B	0.08377025018
sequestosome 1	-0.09296816682
syntaxin 10	-0.08729466676

structural maintenance of chromosomes 4	0.11300256914
EF-hand calcium binding domain 12	-0.11867663021
MLLT10 histone lysine methyltransferase DOT1L cofactor	0.05701126748
coiled-coil domain containing 191	0.10181201384
phosphorylase kinase regulatory subunit beta	0.0504100276
EvC ciliary complex subunit 2	0.17306275941
protein arginine methyltransferase 5	-0.09123648674
alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase	-0.09850014231
glucocorticoid induced 1	0.10100156998
solute carrier family 66 member 2	-0.11628791305
furin, paired basic amino acid cleaving enzyme	-0.14627692019
TNF receptor superfamily member 1B	-0.09033627783
ER degradation enhancing alpha-mannosidase like protein 2	-0.06335639839
amyloid beta precursor like protein 2	-0.07728570526
tumor suppressor 2, mitochondrial calcium regulator	-0.08501299235
pseudouridine synthase 3	-0.10298231098
maestro heat like repeat family member 8	0.12644109225
glycerol-3-phosphate acyltransferase 4	-0.05917574577
leucine rich repeat containing 25	-0.11629003588
RAB6B, member RAS oncogene family	-0.25272605991
dihydropyrimidinase like 2	-0.10522317435
SAM domain, SH3 domain and nuclear localization signals 1	-0.17028989896
RAD18 E3 ubiquitin protein ligase	0.06697632818
ArfGAP with dual PH domains 2	-0.12024261901
protein phosphatase 1 regulatory subunit 16B	0.07194501602
kinesin family member 18B	0.29298215549
thioredoxin interacting protein	0.11984848645
bridging integrator 2	-0.05717772069
leukocyte immunoglobulin like receptor B4	-0.14043624409
macrophage scavenger receptor 1	0.21935556022
zinc finger protein 33A	0.08465357219
lymphocyte antigen 96	-0.12301968033
leukocyte immunoglobulin like receptor B5	-0.16502863061
endosome-lysosome associated apoptosis and autophagy regulator fan	0.10781060566
unc-5 family C-terminal like	0.10978531821
cytoplasmic polyadenylation element binding protein 4	-0.11120020868
fatty acid desaturase 3	0.10486794359
Fc fragment of IgG receptor IIb	0.10977651687
proteasome 26S subunit, ATPase 1	-0.05794396286
DNA damage inducible 1 homolog 2	0.05335743473
decaprenyl diphosphate synthase subunit 1	-0.10548329867
ribosomal protein S6 kinase A1	-0.08744657575
zinc finger protein 253	0.08901368711
ezrin	0.05725043517
inositol 1,4,5-trisphosphate receptor interacting protein	-0.11376316702
actinin alpha 1	-0.11341198981

zinc finger protein 620	0.08100303385
solute carrier family 25 member 37	-0.16705198469
MISP family member 3	-0.17277185029
protein phosphatase 3 catalytic subunit gamma	0.06819820902
zinc finger CCHC-type containing 7	0.08674758989
novel transcript	-0.1214444316
gon-4 like	0.0522281273
spindle and kinetochore associated complex subunit 3	0.29622749514
armadillo like helical domain containing 1	-0.09555395178
DNA polymerase epsilon, catalytic subunit	0.06638362445
glutaredoxin	-0.09472922626
cytochrome b-245 alpha chain	-0.08455450857
peptidyl arginine deiminase 4	-0.1670549856
UBE2F-SCLY readthrough (NMD candidate)	-0.08792576211
alpha-N-acetylgalactosaminidase	-0.10598967836
mitogen-activated protein kinase kinase 3	-0.15088223223
acyl-CoA synthetase family member 2	0.07820125857
rhomboid domain containing 1	0.05220560439
peptidylglycine alpha-amidating monooxygenase	-0.08899093115
solute carrier family 9 member B2	0.07954451532
DGCR8 microprocessor complex subunit	0.05854797051
synaptosome associated protein 23	-0.07788616367
WNK lysine deficient protein kinase 2	0.23447527264
zinc finger protein 736	0.09857328695
Rho GTPase activating protein 17	0.07206938422
DDB1 and CUL4 associated factor 16	0.08097414977
SH3 domain binding protein 2	-0.06229520174
zinc finger CCHC-type containing 14	0.07621570978
proteasome 26S subunit, non-ATPase 6	-0.05868057672
C2 calcium dependent domain containing 5	0.09115058119
zinc finger DBF-type containing 2	0.15793007584
potassium two pore domain channel subfamily K member 17	0.23993060966
serine/threonine/tyrosine kinase 1	0.16725652429
Rh blood group D antigen	-0.24267379645
lymphotoxin beta receptor	-0.09983307143
exportin 1	0.07407426692
CKLF like MARVEL transmembrane domain containing 6	-0.09336290947
V-set and transmembrane domain containing 1	-0.12356674144
marker of proliferation Ki-67	0.2367821216
PEAK family member 3	-0.14012048577
ribosomal protein S9	-0.07814355885
carbohydrate sulfotransferase 13	-0.13126579667
S100 calcium binding protein A10	-0.11558423968
citramalyl-CoA lyase	0.0943138518
neuroepithelial cell transforming 1	0.10685914342
pleckstrin homology domain containing M3	-0.06389648811

solute carrier family 39 member 13	-0.07445583188
peptidylprolyl isomerase like 2	0.04214408115
SH3 binding domain protein 5 like	-0.0934247757
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation prc	-0.04844114867
NUMB endocytic adaptor protein	-0.08514870417
NLR family CARD domain containing 3	0.08016237903
PDZ and LIM domain 7	-0.12693978302
glia maturation factor gamma	-0.09042008553
ubiquitin conjugating enzyme E2 D3	-0.07493150414
novel protein	0.09871455056
LYN proto-oncogene, Src family tyrosine kinase	-0.09379253251
damage specific DNA binding protein 2	0.07275597
MRE11 homolog, double strand break repair nuclease	0.0719815674
sidekick cell adhesion molecule 1	0.26424817634
lipocalin 8	0.25779455237
solute carrier family 4 member 1 adaptor protein	-0.05793413887
thioredoxin domain containing 15	0.0527174747
ATPase plasma membrane Ca ²⁺ transporting 4	-0.0858078327
chromobox 5	0.07076887713
kinesin family member C1	0.22960713841
C-C motif chemokine receptor 1	-0.16410458999
outer dense fiber of sperm tails 2 like	0.12090261433
TNF receptor superfamily member 8	-0.10211754353
zinc finger protein 678	0.09513174304
NECAP endocytosis associated 2	-0.06402940845
kinesin family member 2C	0.24217200041
golgin B1	0.05710435175
ribonucleotide reductase catalytic subunit M1	0.0717249651
C-C motif chemokine receptor 5 (gene/pseudogene)	0.12718171057
insulin like growth factor binding protein 7	-0.10368706035
methyltransferase like 4	0.08673909968
C-X-C motif chemokine ligand 10	-0.47361346582
transient receptor potential cation channel subfamily V member 4	-0.19936763317
ATPase 13A3	-0.10209352018
leptin receptor overlapping transcript like 1	0.05533001489
acyl-CoA synthetase long chain family member 3	-0.07958367717
HEAT repeat containing 5A	0.08625256385
SH2 domain containing 3C	-0.0718887309
crystallin beta-gamma domain containing 1	-0.05865003168
cyclin B1	0.19496891083
sterile alpha motif domain containing 12	0.10315291898
phosphodiesterase 1B	-0.08632282049
autophagy related 7	-0.09236624377
ADP ribosylation factor like GTPase 8B	-0.05340200898
argonaute RISC catalytic component 3	0.06277608081
major facilitator superfamily domain containing 8	0.09737498577

glutamine--fructose-6-phosphate transaminase 1	0.05788996681
histone deacetylase 9	0.11133147088
15-hydroxyprostaglandin dehydrogenase	-0.15720751377
coiled-coil domain containing 138	0.08736199857
NADH:ubiquinone oxidoreductase complex assembly factor 1	-0.06583009751
actin beta	-0.12113749835
disco interacting protein 2 homolog A	0.08709730302
GIN5 complex subunit 4	0.14051173617
uridine-cytidine kinase 2	0.09033475038
exocyst complex component 6	-0.08955771181
tuftelin 1	0.1163774367
HIVEP zinc finger 1	-0.08222531207
PR/SET domain 15	0.06726591298
GIN5 complex subunit 1	0.17560315595
influenza virus NS1A binding protein	-0.08858316975
major histocompatibility complex, class II, DP beta 1	0.11372520999
membrane associated ring-CH-type finger 10	0.26837887998
claspin	0.17361542296
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha	0.06436280321
dishevelled binding antagonist of beta catenin 1	-0.21927438296
capping actin protein of muscle Z-line subunit beta	-0.07484557997
ATPase secretory pathway Ca ²⁺ transporting 2	-0.23926257815
DNA ligase 3	0.05846675681
yippee like 1	0.09932405975
zinc finger protein 264	0.05443432513
abhydrolase domain containing 8	-0.0917437554
LSM6 homolog, U6 small nuclear RNA and mRNA degradation associa	-0.07658841822
tRNA splicing endonuclease subunit 34	-0.11889350329
ring finger protein, transmembrane 2	0.11005850667
kelch like family member 23	0.08747131091
lemur tyrosine kinase 2	-0.11028366436
LTV1 ribosome biogenesis factor	0.16590111319
protein tyrosine phosphatase receptor type J	-0.10151686564
glutathione S-transferase mu 3	-0.14717985089
potassium voltage-gated channel subfamily A member 3	0.11242701736
oxysterol binding protein like 8	-0.08150355659
transmembrane 9 superfamily member 4	-0.0539015678
protein phosphatase 2 regulatory subunit B'alpha	-0.08100042785
fibronectin type III domain containing 3B	-0.10395743543
TSC complex subunit 1	0.05887250095
regulatory factor X2	-0.16286641508
TBK1 binding protein 1	-0.11329237463
zinc finger and BTB domain containing 7A	-0.07055721507
zinc finger protein 273	0.09507309221
NOP2/Sun RNA methyltransferase family member 7	-0.16311751526
gasdermin D	-0.0996855455

G protein regulated inducer of neurite outgrowth 1	-0.21583304186
vav guanine nucleotide exchange factor 3	-0.08270523309
folate receptor beta	-0.18364356033
TBC1 domain family member 10B	-0.08342637165
Dmx like 1	0.07717489947
integrin subunit alpha 2b	-0.25964202741
dynein light chain LC8-type 1	-0.09266031033
perilipin 2	-0.10509415174
trans-golgi network vesicle protein 23 homolog A	0.25645563351
NGFI-A binding protein 2	0.10072815418
structural maintenance of chromosomes 6	0.09953413146
vesicle associated membrane protein 3	-0.08708849664
teneurin transmembrane protein 4	0.24734268788
dedicator of cytokinesis 4	-0.21120706542
primase and DNA directed polymerase	0.08603106245
Rap1 GTPase-GDP dissociation stimulator 1	0.05113751351
MTOR associated protein, eak-7 homolog	0.06717277615
OTU deubiquitinase with linear linkage specificity like	-0.07360786756
zwilch kinetochore protein	0.09858261109
decapping mRNA 2	-0.06683170364
motile sperm domain containing 3	-0.11739543287
acetylcholinesterase (Cartwright blood group)	-0.39888951167
O-sialoglycoprotein endopeptidase	0.06424959476
semaphorin 3C	0.09957021357
asparaginase and isoaspartyl peptidase 1	-0.09304978147
proteasome 20S subunit beta 4	-0.07310760973
matrilin 2	0.25840183808
apoptosis resistant E3 ubiquitin protein ligase 1	-0.06460688529
kinesin family binding protein	0.06256517236
heparan sulfate proteoglycan 2	0.14905853577
ArfGAP with dual PH domains 1	-0.12889811735
SWI/SNF related, matrix associated, actin dependent regulator of chro	0.04267282051
jade family PHD finger 2	0.07060530068
protein tyrosine kinase 2 beta	-0.07222886861
ATPase phospholipid transporting 8B2	0.07209936911
S100 calcium binding protein P	-0.20221994031
protein phosphatase 4 regulatory subunit 4	0.27077367834
TERF1 interacting nuclear factor 2	-0.07956767853
ankyrin repeat domain 33B	-0.10821809266
DNA replication helicase/nuclease 2	0.11017516711
prosaposin	-0.09023992012
islet cell autoantigen 1	0.09106611146
patatin like phospholipase domain containing 2	-0.12083474681
activating transcription factor 7 interacting protein	0.05674980066
AT-rich interaction domain 5A	-0.09482397251
interleukin 18 binding protein	0.06807375839

ankyrin repeat and SOCS box containing 8	-0.06713376287
nucleotide binding protein like	0.0927656586
butyrophilin subfamily 2 member A2	0.07464532183
zinc finger protein 226	0.09931348888
ataxin 1	-0.07941076656
ral guanine nucleotide dissociation stimulator like 3	0.19162155805
coiled-coil domain containing 163	0.12570366039
WD repeat domain 91	0.05953229203
C-X-C motif chemokine receptor 6	0.18481707235
SMAD family member 1	-0.1297305808
CEA cell adhesion molecule 21	0.05359392421
origin recognition complex subunit 3	0.06783619628
CDC42 small effector 2	-0.0409777861
kinesin family member 13A	-0.09185156401
zinc finger and SCAN domain containing 29	0.06952625707
serine/threonine kinase 38	-0.04742833459
solute carrier family 25 member 40	-0.09399032396
methyltransferase like 15	0.07366595586
GTP binding protein 10	0.10172015195
synaptogyrin 1	-0.10477859182
potassium channel tetramerization domain containing 21	-0.07561591426
calcyphosine 2	0.11321059011
5-methyltetrahydrofolate-homocysteine methyltransferase	0.07947852546
mortality factor 4 like 1	-0.05906741692
polypeptide N-acetylgalactosaminyltransferase 3	-0.10177484903
solute carrier family 35 member E3	0.10737817167
MYC binding protein 2	0.0722292524
microtubule associated serine/threonine kinase family member 4	-0.10993176564
interferon stimulated exonuclease gene 20	0.10898043255
alanyl-tRNA synthetase 1	0.06643970677
centrosomal protein 44	0.1010108437
metaxin 3	0.10479068679
G protein-coupled receptor 135	0.09806502995
jagunal homolog 1	-0.0856793528
UDP-glucose pyrophosphorylase 2	-0.0627976077
NEDD4 binding protein 3	0.14235784075
zinc finger protein 543	0.11575857843
chromosome 4 open reading frame 50	0.1486864802
olfactomedin 1	-0.18738575122
NLR family pyrin domain containing 3	-0.10051169955
colony stimulating factor 2 receptor subunit beta	-0.11375646492
calcium binding protein 39 like	0.06262944182
serine peptidase inhibitor, Kunitz type 1	0.12004114424
ATPase family AAA domain containing 2	0.08498433712
anaphase promoting complex subunit 1	0.08039230174
cytochrome P450 family 26 subfamily B member 1	-0.23942135951

Scm polycomb group protein like 4	0.07723013823
chromosome 8 open reading frame 88	-0.19228444345
catenin alpha 1	-0.07433956962
family with sequence similarity 53 member C	-0.10272282408
integrin subunit alpha E	0.06273773396
origin recognition complex subunit 1	0.1760208947
immediate early response 2	-0.10988372959
cyclic GMP-AMP synthase	-0.0907840189
PLAG1 like zinc finger 2	-0.08824808154
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation prc-	-0.0663169564
zinc finger protein 805	0.07355130452
nuclear receptor binding factor 2	-0.1187046268
catalase	-0.10075246511
kelch domain containing 8A	-0.32505183656
RUN and SH3 domain containing 2	-0.11414978123
ATP synthase inhibitory factor subunit 1	0.05508314578
kinesin family member 23	0.17475210325
sarcoglycan epsilon	0.20268577471
ankyrin repeat domain 36B	0.10574328014
tet methylcytosine dioxygenase 1	0.1344020541
cofilin 1	-0.11656796982
programmed cell death 4	0.04686119277
C-X-C motif chemokine receptor 1	-0.15077795395
von Willebrand factor A domain containing 8	0.11345302632
TTK protein kinase	0.26279317027
FERM domain containing 8	0.06385430516
zinc finger protein 875	0.05785887083
myosin IB	0.21436168281
cryptochrome circadian regulator 1	0.06869081699
TatD DNase domain containing 3	0.07169116012
solute carrier family 25 member 4	0.13289927474
H3.3 histone A	-0.10305840337
retinoic acid receptor alpha	-0.10135927024
BCL6 antisense 1	-0.25316691613
protein interacting with PRKCA 1	0.078368787
NOP10 ribonucleoprotein	-0.13679567734
endoplasmic reticulum oxidoreductase 1 alpha	-0.06233440219
RNA guanylyltransferase and 5'-phosphatase	0.04813533598
ankyrin repeat domain 9	-0.27009785852
Rho GDP dissociation inhibitor beta	-0.09737901971
fructose-bisphosphatase 1	-0.11344215709
plexin A2	0.13142629982
ankyrin repeat domain 16	0.07806877351
beta-1,4-galactosyltransferase 2	0.17933585462
atlastin GTPase 2	0.08061948258
solute carrier family 26 member 6	-0.10176230104

fibrosin like 1	0.04949568588
zinc finger protein 235	0.07860955375
ring finger protein 19B	-0.10344687679
leucine rich repeat containing 56	0.12668858079
chromosome transmission fidelity factor 18	0.09902338447
lin-52 DREAM MuvB core complex component	0.07569511009
arginyl-tRNA synthetase 2, mitochondrial	0.06177172184
aspartate beta-hydroxylase domain containing 2	-0.14468430773
latexin	0.09823208318
ELOVL fatty acid elongase 4	0.15771833713
Ras related GTP binding A	-0.07268889116
Rho GTPase activating protein 18	-0.07581040925
trans-L-3-hydroxyproline dehydratase	0.08971453931
XPC complex subunit, DNA damage recognition and repair factor	0.05758387451
F-box protein 5	0.13269550681
E1A binding protein p400	0.07848167464
rhomboid 5 homolog 2	-0.11865594777
glutamine amidotransferase like class 1 domain containing 3B	0.10214532395
secernin 1	0.07995972086
proline-serine-threonine phosphatase interacting protein 1	-0.06112548793
N-myristoyltransferase 1	-0.04699888359
arachidonate 12-lipoxygenase, 12S type	-0.21939609998
SFI1 centrin binding protein	0.07251125146
opioid related nociceptin receptor 1	-0.08310325416
consortin, connexin sorting protein	0.05115818895
patched 2	0.13879716644
zinc finger protein 720	0.08029423158
DNA polymerase epsilon 2, accessory subunit	0.148587998
complement factor H	0.12107921568
WD repeat domain 76	0.09843337904
fibroblast growth factor receptor 1	0.08570845059
DAB2 interacting protein	0.25449501846
zinc finger protein 706	0.04750503203
zinc finger protein 891	0.11462104964
MDM2 binding protein	0.09164765495
SH3 domain binding glutamate rich protein like 2	-0.21554502599
thioredoxin like 1	-0.05954373017
zinc finger protein 507	0.10882156345
phosphoglucomutase 2	-0.08543560831
stromal interaction molecule 2	0.04419483932
PHD finger protein 12	-0.07500843471
transmembrane protein 117	0.09238973967
nuclear pore complex interacting protein family member B3	0.09276158528
Rho GTPase activating protein 11A	0.1280267456
X-box binding protein 1	0.09184900475
G protein-coupled receptor 25	0.2475658339

very low density lipoprotein receptor	-0.15466476144
thymidine kinase 1	0.23031055004
RAR related orphan receptor A	0.07978798636
notch receptor 2	-0.09208878943
Wnt family member 5B	0.1536406186
clathrin heavy chain linker domain containing 1	0.09044305932
tripartite motif containing 25	-0.11833381356
calmodulin regulated spectrin associated protein 1	0.05799065503
G protein subunit gamma 11	-0.21818196893
TATA-box binding protein associated factor 4	0.06862477798
elongator acetyltransferase complex subunit 2	0.05928292517
zinc finger protein 248	0.08072721693
transmembrane protein 159	-0.07976217133
SH2B adaptor protein 2	-0.09587687807
DNA ligase 1	0.06262262203
CLPTM1 like	0.04996608142
zinc finger protein 266	0.05998068248
mercaptopyruvate sulfurtransferase	-0.10296455963
alpha kinase 1	-0.11192068771
B9 domain containing 2	-0.0795743411
Cdk5 and Abl enzyme substrate 2	0.080146367
leukocyte immunoglobulin like receptor A2	-0.09889832191
SUMO specific peptidase 5	0.03330679172
adenosine monophosphate deaminase 2	0.11214126335
TPX2 microtubule nucleation factor	0.21547605833
Rap guanine nucleotide exchange factor 1	0.05693974225
3-oxoacid CoA-transferase 1	0.07092807132
solute carrier family 44 member 3	-0.18614815528
transmembrane protein 120A	-0.11072652263
zinc finger and BTB domain containing 21	0.08366249801
mannosidase endo-alpha	0.12615369854
pecanex 1	-0.08724363263
DLG associated protein 3	0.16058084916
novel protein	-0.08768996559
PITPNM family member 3	0.19694118285
novel protein	-0.0966926522
anoctamin 10	-0.08389034653
hyaluronan and proteoglycan link protein 3	-0.10822235544
microtubule affinity regulating kinase 3	-0.06395735743
StAR related lipid transfer domain containing 9	0.09173310094
cytochrome b5 reductase 3	-0.11815747306
WD repeat domain 90	0.11220429467
RAB GTPase activating protein 1 like	0.05829919314
cathepsin B	-0.11550863439
stabilin 1	-0.12777341738
cell division cycle 6	0.20682962032

deleted in azoospermia like	0.27627983554
calcium voltage-gated channel auxiliary subunit alpha2delta 4	-0.07114672633
USO1 vesicle transport factor	0.06247863339
zinc finger protein 33B	0.05628291763
Rho GTPase activating protein 44	0.34902308835
acyl-CoA synthetase short chain family member 1	0.04821443369
RAB2A, member RAS oncogene family	-0.04620844783
aminopeptidase puromycin sensitive	-0.05354182527
centromere protein P	0.1103794941
novel protein	0.09676257068
ring finger protein 135	-0.06818269533
ecotropic viral integration site 2B	-0.09080131231
spexin hormone	-0.22808441451
junction mediating and regulatory protein, p53 cofactor	0.07552346259
DEP domain containing 1B	0.21301647257
G protein subunit alpha i2	-0.10101226808
glutathione peroxidase 3	0.21720151988
transcription elongation factor A3	-0.10297730678
phosphatidylinositol glycan anchor biosynthesis class W	0.11951455215
endothelial cell adhesion molecule	-0.1857608166
actin binding LIM protein family member 3	-0.24233781867
tubulin polymerization promoting protein	0.15307844697
musculin	0.18572188081
protein phosphatase 2 regulatory subunit B"gamma	-0.0586824881
thymocyte selection associated family member 2	-0.08012175218
heterochromatin protein 1 binding protein 3	0.05852335685
serine and arginine repetitive matrix 1	0.03502834601
DiGeorge syndrome critical region gene 6 like	-0.09838367819
B9 domain containing 1	0.11639785388
MTSS I-BAR domain containing 1	0.08215746743
N-acetyltransferase 10	0.05755391644
junctional cadherin complex regulator	0.09657344834
URB2 ribosome biogenesis homolog	0.07990246175
centrosomal protein 83	0.07966924628
coiled-coil domain containing 122	0.10518492391
transmembrane protein 182	0.10119025528
activating transcription factor 6	-0.07937040196
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2	-0.09468642921
nucleoporin 155	0.05159045321
forkhead box N3	0.05304678076
FUS RNA binding protein	0.04428921879
ORMDL sphingolipid biosynthesis regulator 2	-0.0733121332
protein C, inactivator of coagulation factors Va and VIIIa	0.21692674811
bromodomain adjacent to zinc finger domain 1A	-0.08881504477
ubiquitin specific peptidase 53	0.1013728963
transmembrane serine protease 9	-0.26546397537

nudix hydrolase 5	0.072515424
solute carrier family 4 member 7	0.09275404055
sorting nexin 8	0.08763774713
glutaminase	0.08047828864
N-acetylneuraminate pyruvate lyase	-0.09140048586
capicua transcriptional repressor	-0.08099009242
dual specificity phosphatase 16	0.06243966796
SERTA domain containing 3	-0.09545630348
selectin P	-0.13687117667
trafficking protein particle complex 3 like	-0.22992774593
ELOVL fatty acid elongase 1	-0.06520575066
RNA binding motif protein 28	0.05303288131
ATPase H ⁺ transporting V1 subunit F	-0.10253767963
zinc finger protein 212	0.04977310825
hes family bHLH transcription factor 1	-0.20575464613
beta-1,4-N-acetyl-galactosaminyltransferase 3	0.10989977993
NFKB inhibitor beta	-0.07446425975
maestro heat like repeat family member 6	-0.1192695022
D-2-hydroxyglutarate dehydrogenase	0.06867092662
glutamic-oxaloacetic transaminase 1	0.07302612045
carbonyl reductase 4	0.05915127093
erythroid differentiation regulatory factor 1	0.06729602052
PIF1 5'-to-3' DNA helicase	0.18406422683
WD repeat domain 26	-0.06995682132
inositol hexakisphosphate kinase 2	0.04259698671
DNA primase subunit 2	0.06539310126
pericentrin	0.05616100113
NOP2/Sun RNA methyltransferase 6	0.0660326946
HORMA domain containing 1	-0.13992763748
schlafen family member 13	0.08968783374
chromosome 14 open reading frame 28	0.09923668035
BORCS8-MEF2B readthrough	-0.08203740443
signal-induced proliferation-associated 1	-0.08197282845
Cbl proto-oncogene B	0.06234595462
apoptosis inducing factor mitochondria associated 2	0.080769453
adaptor related protein complex 1 subunit sigma 3	0.12732687449
interleukin 23 receptor	0.20851855498
retinol binding protein 7	-0.12563891018
ubiquitin like modifier activating enzyme 5	0.0930110826
histone deacetylase 11	-0.09448005499
glucose-fructose oxidoreductase domain containing 2	-0.06871328839
zinc finger protein 566	0.07219952648
epithelial cell adhesion molecule	0.34003408894
HPS4 biogenesis of lysosomal organelles complex 3 subunit 2	0.0488459164
TNF receptor superfamily member 10c	-0.13252475919
terminal uridylyl transferase 4	0.06017151508

lysocardiolipin acyltransferase 1	0.05352542732
lipxygenase homology domains 1	-0.13776348542
transmembrane protein 167A	-0.07756175623
acyl-CoA synthetase short chain family member 3	-0.10903790387
zinc finger protein 618	0.11536594021
serpin family F member 1	0.13707803323
death effector domain containing 2	-0.08373173874
cellular repressor of E1A stimulated genes 1	-0.13119979787
zinc finger DHHC-type palmitoyltransferase 14	0.07202110554
FKBP prolyl isomerase 1C	-0.23836387935
zinc finger protein 710	-0.06978455145
mesencephalic astrocyte derived neurotrophic factor	0.08873714033
TATA-box binding protein associated factor 11	0.06291593731
novel protein, ZNRF2-LINC01176 readthrough	0.04935011132
RAB34, member RAS oncogene family	-0.11948053823
EPM2A glucan phosphatase, laforin	0.08181054853
methionyl aminopeptidase 1	0.05616483917
high mobility group nucleosome binding domain 1	0.07349698903
esterase D	-0.07240392739
nuclear receptor subfamily 1 group D member 1	0.10138065871
EPH receptor A1	-0.11730095262
novel protein	-0.22306319209
cell death inducing DFFA like effector b	-0.07906097836
polo like kinase 4	0.15108987494
methylmalonyl-CoA epimerase	0.07363071866
golgi SNAP receptor complex member 1	0.03518780014
clock circadian regulator	0.05477201873
mitochondrial genome maintenance exonuclease 1	0.04587740622
steroid 5 alpha-reductase 3	-0.08955680834
POC1 centriolar protein B	-0.06964098061
metabolism of cobalamin associated D	-0.07438763469
zinc finger CCCH-type containing 4	0.0535436013
G protein-coupled receptor 35	-0.08134816179
centrosomal protein 104	0.05312913738
KH domain containing 4, pre-mRNA splicing factor	0.049406975
pecanex 2	0.06485955668
TSC22 domain family member 4	-0.07663151072
succinate-CoA ligase GDP/ADP-forming subunit alpha	-0.06494300299
GABA type A receptor associated protein like 2	-0.08856726473
coiled-coil domain containing 7	0.08936686065
sorbitol dehydrogenase	-0.08261580643
novel protein	-0.11313680897
HAUS augmin like complex subunit 6	0.07791569671
sorting nexin 1	-0.03510257024
inhibitor of growth family member 5	0.05480639007
unk zinc finger	0.05393562044

biotinidase	0.0489986894
kinesin family member 15	0.14841764124
Scm like with four mbt domains 1	0.06900118337
dynein axonemal heavy chain 17	-0.19415443597
protein arginine methyltransferase 3	0.06460585107
neurolysin	-0.09147530264
cyclin dependent kinase 1	0.2827842466
GTPase activating Rap/RanGAP domain like 3	0.09736744766
PR/SET domain 4	0.04888033827
C-type lectin domain containing 16A	0.04538242215
zinc finger DHHC-type palmitoyltransferase 12	-0.10568453406
AT-rich interaction domain 2	0.04784637249
histone deacetylase 4	-0.09330355646
chromodomain helicase DNA binding protein 9	0.05870436265
HECT and RLD domain containing E3 ubiquitin protein ligase 2	0.06973821661
FXFD domain containing ion transport regulator 5	-0.09205521599
kinesin light chain 4	0.05482170112
carboxypeptidase vitellogenic like	-0.11729125539
RELT like 2	0.07108887351
organic solute carrier partner 1	0.2014369578
vesicle amine transport 1	-0.09306717308
transcription activation suppressor family member 2	0.07431688937
G protein-coupled receptor 15	0.16018326451
transmembrane channel like 6	0.05419239363
adaptor protein, phosphotyrosine interacting with PH domain and leucine	0.06419465234
DNA polymerase epsilon 4, accessory subunit	-0.09855638109
SEC24 homolog C, COPII coat complex component	0.03992533536
selenoprotein F	-0.06362251388
epsin 2	0.10002220723
transmembrane protein 40	-0.20387254102
spermidine/spermine N1-acetyltransferase family member 2	-0.085048293
DNA polymerase delta 3, accessory subunit	-0.05293923841
ret finger protein like 2	0.12716985771
zinc finger protein 431	0.06568470865
tweety family member 3	-0.08821911322
zinc finger protein 791	0.04165472971
Rho/Rac guanine nucleotide exchange factor 2	-0.05118746916
zinc finger CCCH-type containing 18	0.05046131662
ubiquitin associated protein 2 like	0.0453378382
phospholipase A2 group IVA	-0.08763463812
triosephosphate isomerase 1	-0.09052021014
retinoid X receptor alpha	-0.08792029683
Rab interacting lysosomal protein like 1	-0.11840452101
DiGeorge syndrome critical region gene 2	-0.06304658494
zinc finger protein 397	0.05025181334
MYCBP associated protein	0.15465828268

phosphoribosyl pyrophosphate amidotransferase	0.08994967294
ribosomal protein S6 kinase A2	0.09768406285
nardilysin convertase	-0.05878468502
NOP2/Sun RNA methyltransferase 2	0.0516296682
MCF.2 cell line derived transforming sequence-like 2	0.10155554607
dynammin 2	-0.04975412466
karyopherin subunit alpha 1	-0.05342899983
zinc finger protein 577	0.08186185946
cysteine rich protein 3	0.13980642256
F-box and leucine rich repeat protein 19	-0.0665871362
A-kinase anchoring protein 8	0.03819796253
phosphatidylinositol glycan anchor biosynthesis class F	0.08125703227
zinc finger protein 606	0.06729397644
megakaryocyte and platelet inhibitory receptor G6b	-0.22432089747
secreted protein acidic and cysteine rich	-0.22918517036
gamma-glutamyl carboxylase	0.05906646597
La ribonucleoprotein 4	0.06541745322
X-prolyl aminopeptidase 3	0.04658430886
amyloid beta precursor protein binding family A member 1	0.1457215377
G protein-coupled receptor class C group 5 member B	-0.21968213144
DAZ interacting zinc finger protein 3	0.08430774112
WD repeat domain, phosphoinositide interacting 1	-0.08638233076
eukaryotic translation initiation factor 1	-0.11679473998
collagen type XXVI alpha 1 chain	0.28491878697
methionine sulfoxide reductase A	-0.08671600666
caspase recruitment domain family member 19	-0.06810820275
epidermal growth factor	-0.21244173264
phospholipase D2	-0.06992223184
DNA polymerase gamma 2, accessory subunit	0.06780627487
GIPC PDZ domain containing family member 3	-0.15513921145
thiosulfate sulfurtransferase like domain containing 3	0.07579987424
NEDD4 binding protein 2	0.08778531612
family with sequence similarity 117 member B	0.06109463012
5'-nucleotidase, cytosolic IIIA	-0.11254723119
DENN domain containing 4A	0.05665335543
cell division cycle 45	0.24938047031
protein kinase cAMP-activated catalytic subunit alpha	-0.08994498117
small ArfGAP2	0.12644830869
charged multivesicular body protein 2B	-0.07183518358
otoferlin	0.41186716653
nuclear receptor subfamily 1 group D member 2	0.08277768884
phospholipase D family member 5	0.25669934761
C-C motif chemokine receptor 2	-0.12671767022
glucosidase alpha, neutral C	0.06305786464
mediator of DNA damage checkpoint 1	0.06036459046
solute carrier family 25 member 24	-0.07855727605

synaptotagmin like 3	0.09376553045
natural killer cell triggering receptor	0.07438953475
inositol polyphosphate-5-phosphatase B	0.04591667387
protein kinase cAMP-dependent type II regulatory subunit beta	-0.18519364096
fatty acyl-CoA reductase 2	0.11741434463
terminal nucleotidyltransferase 4A	0.06281536337
cyclin dependent kinase 5	-0.10521180188
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma	-0.07056786436
nipsnap homolog 1	-0.05526735893
actin related protein 2/3 complex subunit 2	-0.06126957639
calcineurin like EF-hand protein 1	-0.07806274261
stromal cell derived factor 2	-0.0501134761
zinc finger protein 92	0.12197911954
S-phase kinase associated protein 2	0.07681381663
amylase alpha 2B	0.08322925881
solute carrier family 5 member 9	0.22449221899
Ral GTPase activating protein catalytic subunit alpha 1	0.07305588199
growth factor independent 1 transcriptional repressor	0.10873602685
X-ray radiation resistance associated 1	0.06316821539
polo like kinase 1	0.11872711068
protein tyrosine phosphatase receptor type M	0.09974730689
beta-secretase 2	0.10870252113
leucine rich repeat protein 1	0.07418073684
low density lipoprotein receptor	-0.10880962487
WD repeat domain 53	0.05853680338
RAD54 like 2	0.07070271798
endosulfine alpha	-0.04331210894
acyl-CoA oxidase like	0.12686409149
negative elongation factor complex member A	0.04439875295
terminal nucleotidyltransferase 4B	0.04769813406
novel protein	0.09326854
G protein-coupled receptor 160	-0.10186669551
MON2 homolog, regulator of endosome-to-Golgi trafficking	0.06835807818
ankyrin repeat and LEM domain containing 2	0.03518809581
ATPase H ⁺ transporting accessory protein 1 like	0.0910497967
multimerin 1	-0.17051493516
zinc finger matrin-type 5	-0.06540574096
galactokinase 2	0.04767622318
interferon regulatory factor 2	-0.07788156307
enhancer of mRNA decapping 3	-0.04514188206
tubulin tyrosine ligase like 5	0.05382064705
RAB11A, member RAS oncogene family	-0.06259025837
UPF1 RNA helicase and ATPase	0.06891147223
shugoshin 2	0.10766465305
FAM161 centrosomal protein A	0.14738529629
cms1 ribosomal small subunit homolog	0.0831152603

lysophosphatidic acid receptor 2	-0.09759766813
RAS p21 protein activator 2	-0.06011021526
polypeptide N-acetylgalactosaminyltransferase 1	-0.05501907164
anaphase promoting complex subunit 5	0.04035880851
transportin 1	-0.05988200357
WD repeat domain 19	0.07405448703
selenoprotein I	0.06954526076
coiled-coil domain containing 69	-0.05599311206
inositol-tetrakisphosphate 1-kinase	0.10200206419
Rho guanine nucleotide exchange factor 11	-0.07473824376
pleckstrin and Sec7 domain containing	-0.14892456286
taspase 1	0.06958184396
trimethylguanosine synthase 1	0.04338996072
striatin interacting protein 1	0.0420749515
VANGL planar cell polarity protein 1	0.09449503226
mitogen-activated protein kinase kinase kinase 8	-0.0523870594
profilin 1	-0.10518690567
spermatogenesis associated 5	0.07502290426
zinc finger ZZ-type containing 3	0.05345265502
C-C motif chemokine receptor 4	0.10840379204
mitochondrial pyruvate carrier 1	0.06554589252
zinc finger protein 430	0.0510287078
geminin DNA replication inhibitor	0.13111974439
ubiquitin like modifier activating enzyme 3	-0.06801000296
WD repeat domain 33	0.03218534805
N-terminal glutamine amidase 1	0.06462412681
transcription factor 19	0.09684306753
Fas associated via death domain	-0.10439695139
zinc finger CCCH-type containing 3	-0.074898174
secretoglobin family 2B member 2	0.09954674693
calponin 2	-0.10559202545
EARP complex and GARP complex interacting protein 1	0.04655479637
BCL2 interacting protein 2	-0.06930584619
cryptochrome circadian regulator 2	0.04559256007
serine incorporator 2	-0.13208945057
tripartite motif containing 37	0.05437834552
proprotein convertase subtilisin/kexin type 6	-0.19025146891
cadherin related family member 1	0.15660707741
chromosome 12 open reading frame 45	0.08338810217
Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal	-0.16267415917
calcium responsive transcription factor	0.08726824736
solute carrier family 35 member F3	0.12750909386
PDS5 cohesin associated factor A	0.0441543308
protein tyrosine phosphatase receptor type G	0.2856364463
double zinc ribbon and ankyrin repeat domains 1	0.09149096015
oxysterol binding protein	0.03352326136

vitamin D receptor	-0.0846306897
neurogranin	-0.22954970355
WD repeat and HMG-box DNA binding protein 1	0.10882993199
proprotein convertase subtilisin/kexin type 7	0.04931290396
adenosine deaminase RNA specific B1	0.06806932397
NHL repeat containing 2	0.07767258952
RCSD domain containing 1	0.04846801729
activated leukocyte cell adhesion molecule	0.08140280041
chondroitin sulfate synthase 1	-0.10889660209
integrin subunit beta 5	-0.19570186534
apolipoprotein B mRNA editing enzyme catalytic subunit 3A	-0.11296507712
discs large MAGUK scaffold protein 5	0.12423603039
netrin 4	0.16912104645
Sp4 transcription factor	0.06118385905
splA/ryanodine receptor domain and SOCS box containing 1	0.10176630443
heat shock protein family A (Hsp70) member 13	0.10287406688
apolipoprotein B receptor	-0.10423573188
amidohydrolase domain containing 2	0.07518988686
ribonuclease H2 subunit B	0.06990963738
protein kinase N2	0.08574783251
serine/threonine kinase 3	-0.10584966421
RNA polymerase II subunit L	-0.10387854279
solute carrier family 27 member 1	-0.08492738298
bestrophin 1	-0.11946852676
A-kinase anchoring protein 11	0.08596832488
mediator complex subunit 25	0.09662175732
pygopus family PHD finger 2	0.05292451921
carboxymethylenebutenolidase homolog	-0.2682198568
KIAA0319 like	0.08074006347
cadherin 2	0.25061117674
out at first homolog	-0.10335068499
family with sequence similarity 214 member B	-0.09458936258
UBX domain protein 2A	-0.04682925563
transient receptor potential cation channel subfamily V member 1	0.08653996691
integrator complex subunit 4	0.03237388387
N-acylsphingosine amidohydrolase 1	-0.07547754986
family with sequence similarity 76 member A	0.05177640223
BTB domain and CNC homolog 1	-0.07435448568
LTO1 maturation factor of ABCE1	0.04507841445
cAMP-dependent protein kinase inhibitor gamma	0.09474951407
cyclin dependent kinase inhibitor 1C	-0.21915011479
RNA polymerase I subunit A	0.06410682979
calpain 1	-0.0737005973
centromere protein C	0.06418161489
zinc finger protein 524	-0.09460799272
colony stimulating factor 3 receptor	-0.09398276518

checkpoint kinase 2	0.0764526699
ring finger protein 122	0.08591932924
zinc finger protein 28	0.06796359297
transient receptor potential cation channel subfamily M member 7	0.05582626817
ring finger protein 10	-0.1781299225
hepatitis A virus cellular receptor 2	-0.06746501758
TEA domain transcription factor 2	0.21237352513
Fc fragment of IgG receptor IIIb	-0.11415745977
WDFY family member 4	0.08429971203
schlafen family member 5	0.08035736748
queuine tRNA-ribosyltransferase catalytic subunit 1	0.07551555282
adducin 2	0.09885270925
multiple EGF like domains 6	0.09505036308
ATPase copper transporting beta	-0.11992367831
heme binding protein 2	-0.0664305576
ZFP36 ring finger protein like 2	0.07170319945
scaffold protein involved in DNA repair	0.06588006574
zinc finger SWIM-type containing 6	-0.07604381222
WD repeat domain 7	0.0459402593
coiled-coil domain containing 18	0.08582747074
phosphatidylinositol glycan anchor biosynthesis class L	0.07254396994
mitochondrial fission regulator 2	0.12684393312
torsin family 1 member A	-0.05998338866
charged multivesicular body protein 4B	-0.08117048136
mitochondrial ribosome associated GTPase 2	-0.05347277428
R3H domain containing 1	0.0366204961
transportin 2	0.0376805894
ATPase 13A4	0.12669058028
gamma-glutamyl hydrolase	0.15313303497
ribonuclease K	-0.19534346787
ankyrin repeat domain 52	0.04525135711
chromosome 5 open reading frame 34	0.1237075666
mannosidase alpha class 2A member 1	0.06093705552
ZFP30 zinc finger protein	0.08154800038
lymphocyte specific protein 1	-0.10191245981
tectonic family member 2	0.09874958828
tripartite motif containing 47	0.14562380758
small integral membrane protein 14	0.04625464085
O-GlcNAcase	0.07367306604
transmembrane protein 50A	-0.0547813291
centrosomal protein 192	0.06093734748
Janus kinase 2	-0.09402925432
poly(A) specific ribonuclease subunit PAN2	0.06355218908
PDZ domain containing 8	-0.08961981684
RNA binding motif protein 8A	0.04412569011
eukaryotic translation initiation factor 6	-0.07553246564

adenylate cyclase 3	-0.13317998611
family with sequence similarity 228 member B	-0.05435879247
androgen induced 1	-0.07325587887
tRNA nucleotidyl transferase 1	0.06193313255
ubiquitin domain containing 1	-0.09885337578
ankyrin repeat and MYND domain containing 1	0.05226584832
pyroglutamyl-peptidase I	-0.05026546836
LY6G6F-LY6G6D readthrough	-0.20028370692
RNA binding motif protein 25	0.06636949636
phosphatidylinositol glycan anchor biosynthesis class N	0.04061113304
G-patch domain containing 1	0.04436934455
cold inducible RNA binding protein	0.04989055016
coiled-coil domain containing 84	0.06427461996
YTH domain containing 1	0.04879301303
ciliogenesis and planar polarity effector 1	0.07921054025
polyribonucleotide nucleotidyltransferase 1	0.13682812953
retinal pigment epithelium-derived rhodopsin homolog	0.20125917129
nucleolar protein 9	0.04795448599
hexosaminidase subunit beta	-0.05459472428
TNFAIP3 interacting protein 2	-0.05000279195
CAP-Gly domain containing linker protein 3	0.11046019667
zinc finger protein 461	0.07404904427
major histocompatibility complex, class II, DM alpha	0.09534967318
tubulin gamma complex associated protein 5	0.06863907805
THADA armadillo repeat containing	0.04380811044
deoxynucleotidyltransferase terminal interacting protein 1	-0.06057477388
SP100 nuclear antigen	-0.07824826345
hippocalcin like 1	-0.06023233981
erythroblast membrane associated protein (Scianna blood group)	-0.05851288096
V-set pre-B cell surrogate light chain 3	0.1679480406
RAP2B, member of RAS oncogene family	-0.05747082242
hyaluronan mediated motility receptor	0.24300806287
family with sequence similarity 43 member A	0.08675435835
fumarylacetoacetate hydrolase	-0.09629781691
CTP synthase 1	0.06318033464
denticleless E3 ubiquitin protein ligase homolog	0.20181399842
POM121 transmembrane nucleoporin	0.04848361586
carnosine synthase 1	0.09167726318
IQ motif containing GTPase activating protein 1	-0.07414896454
proline rich nuclear receptor coactivator 1	-0.08848532902
zinc finger FYVE-type containing 27	0.04380841168
guanylate cyclase 2D, retinal	0.20168860352
Rac GTPase activating protein 1	0.06580791688
peptidase, mitochondrial processing subunit alpha	0.0469917466
glycoprotein V platelet	-0.11929180221
programmed cell death 11	0.04953295508

eukaryotic translation initiation factor 1B	-0.12255938307
G protein-coupled receptor 89B	0.06731764472
adhesion G protein-coupled receptor D1	-0.12734761719
cyclin A2	0.17347080659
glutathione-disulfide reductase	-0.06332775723
regulatory factor X7	0.04994867471
mitoguardin 1	0.05735376788
cell division cycle associated 5	0.23052565727
DNA cross-link repair 1A	0.10034900892
zinc finger protein 83	0.06602838677
solute carrier family 36 member 1	-0.08142973256
suppressor of cytokine signaling 6	-0.09470054504
oocyte secreted protein family member 3	-0.16831085089
MOB kinase activator 1A	-0.06029879364
coiled-coil domain containing 68	-0.19809166184
zinc finger protein 623	0.04104767234
transcriptional adaptor 3	-0.06745783553
prostaglandin-endoperoxide synthase 1	-0.13010243007
general transcription factor Ili	0.05806234519
5'-nucleotidase domain containing 4	-0.14412232486
B-TFIID TATA-box binding protein associated factor 1	0.07830531389
inositol polyphosphate multikinase	-0.08400498679
nuclear receptor coactivator 3	0.05193238341
zinc finger BED-type containing 4	0.04515450867
BCL2 interacting killer	-0.12915407488
TraB domain containing 2A	-0.07616234519
growth hormone inducible transmembrane protein	-0.06985350048
hematopoietic SH2 domain containing	0.10904174144
homeobox containing 1	0.06200381629
WW domain containing adaptor with coiled-coil	-0.05064097037
glutathione S-transferase pi 1	-0.10978002379
pre-mRNA processing factor 8	0.05533657412
Bardet-Biedl syndrome 4	0.06230021888
abhydrolase domain containing 5, lysophosphatidic acid acyltransferase	0.10362310596
actin related protein 2	-0.06194513623
Cdk5 and Abl enzyme substrate 1	0.20599989133
zinc finger protein 26	0.07499062592
death inducer-obliterators 1	0.0439023012
solute carrier family 27 member 2	0.14907406757
interferon regulatory factor 1	-0.11430187868
GrpE like 1, mitochondrial	-0.06330513961
novel protein	-0.18076570898
RPGRIP1 like	0.11659454675
leucine rich repeat kinase 2	-0.09881292641
hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase	-0.06477993721
post-glycosylphosphatidylinositol attachment to proteins 6	-0.08914271517

Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA synthase	0.07447378462
cyclin dependent kinase 17	0.07459159796
codanin 1	0.05502353877
small lysine rich protein 1	0.16337585349
intracisternal A particle-promoted polypeptide	0.05507846147
NADH:ubiquinone oxidoreductase core subunit S2	-0.03912899263
CTD small phosphatase 1	-0.08884398053
creatine kinase B	-0.21686709726
zinc finger protein 385A	-0.10376363897
Rho GTPase activating protein 9	-0.07653741105
SH3 domain binding glutamate rich protein like 3	-0.13046938627
nucleolar and coiled-body phosphoprotein 1	0.05352185882
annexin A7	-0.04954842891
zinc finger protein 680	0.09775048778
ETS variant transcription factor 5	0.19209650636
ERCC excision repair 1, endonuclease non-catalytic subunit	0.05199139244
BCL2 like 11	-0.06821489506
peroxiredoxin 3	-0.06367152807
XK related 7	-0.14311077881
PTTG1 interacting protein	-0.04793717438
peptidylprolyl isomerase H	0.0599144887
formin like 2	0.15123048882
L-2-hydroxyglutarate dehydrogenase	0.0889440339
phospholipase A2 group IVC	-0.12312580131
fukutin	0.07047863739
zinc finger protein 292	-0.07067731189
erythroferrone	-0.41657161791
BRCA1 DNA repair associated	0.07008768912
1-acylglycerol-3-phosphate O-acyltransferase 3	-0.06457741275
metallophosphoesterase 1	0.07133807986
BAG cochaperone 5	0.04305749041
adaptor related protein complex 3 subunit sigma 1	-0.06146701847
small nuclear ribonucleoprotein U5 subunit 200	0.04187155732
H2B clustered histone 11	-0.16193342727
dystonin	0.10139705733
muscleblind like splicing regulator 1	0.06209599259
EMAP like 2	-0.04830446096
GEM interacting protein	-0.06809622814
cap binding complex dependent translation initiation factor	-0.07111389388
CKLF like MARVEL transmembrane domain containing 2	-0.14829513946
glucoside xylosyltransferase 1	0.05561902155
ATP binding cassette subfamily A member 2	-0.07544593149
kinesin family member 3A	0.07896474205
zinc finger protein 3	0.04236864451
ubiquitin specific peptidase 42	0.04557024242
ADP ribosylation factor interacting protein 1	0.06932198414

phospholipase A2 group XV	-0.0842577676
pejvakin	0.15319602068
testis specific 10	0.08003833358
citron rho-interacting serine/threonine kinase	0.16537061178
Rac family small GTPase 1	-0.06232407175
interleukin 6 receptor	-0.07598208996
pterin-4 alpha-carbinolamine dehydratase 2	0.05637172609
bromodomain adjacent to zinc finger domain 1B	0.03879620368
RAB1A, member RAS oncogene family	-0.04698474615
interferon alpha inducible protein 27 like 1	0.09543877233
base methyltransferase of 25S rRNA 2 homolog	-0.05808867203
STT3 oligosaccharyltransferase complex catalytic subunit A	0.04666923183
fibrillin 2	-0.10371426815
major histocompatibility complex, class II, DP alpha 1	0.10611232495
regulation of nuclear pre-mRNA domain containing 1A	0.04817735135
CCHC-type zinc finger nucleic acid binding protein	-0.07090299015
sacsin molecular chaperone	0.10728791594
isovaleryl-CoA dehydrogenase	0.04647576068
desumoylating isopeptidase 2	0.04632906917
RAP1A, member of RAS oncogene family	-0.0445630123
caspase 5	-0.19174068764
sodium channel and clathrin linker 1	0.09886762948
G-patch domain containing 11	0.07509229575
golgin A8 family member B	0.09990362101
CTD nuclear envelope phosphatase 1 regulatory subunit 1	-0.06376047752
caldesmon 1	-0.19014702953
DEAH-box helicase 35	0.06334467466
cell migration inducing hyaluronidase 2	-0.05824345479
rhophilin Rho GTPase binding protein 2	0.21554363887
ring finger protein 167	-0.06726930354
embryonic ectoderm development	0.05148523963
sterile alpha motif domain containing 4A	0.16739246537
oxysterol binding protein like 9	-0.06296155841
suppressor of IKBKE 1	0.06997745348
serine/threonine kinase 33	0.16708934523
tripartite motif containing 46	0.08075060062
nucleoporin 205	0.061183355
succinate dehydrogenase complex assembly factor 3	-0.10211361998
DISC1 scaffold protein	-0.10319276791
piezo type mechanosensitive ion channel component 1	0.05909385023
TBC1 domain family member 32	0.06984605693
sorting nexin 10	-0.07580120591
interleukin 1 receptor accessory protein	0.11460483547
uveal autoantigen with coiled-coil domains and ankyrin repeats	0.12443881361
eyes shut homolog	0.16628980689
lin-9 DREAM MuvB core complex component	0.08095092711

protein kinase AMP-activated non-catalytic subunit gamma 1	-0.04214751204
cyclin dependent kinase inhibitor 3	0.20204124295
zinc finger protein 333	0.05752758925
eukaryotic translation initiation factor 4E nuclear import factor 1	0.03811196683
ubiquitin specific peptidase 40	0.05970407655
Cas scaffold protein family member 4	0.10387414426
protein tyrosine phosphatase receptor type E	-0.06301942116
methylthioribose-1-phosphate isomerase 1	0.05352233913
potassium channel modulatory factor 1	-0.0443559891
cytochrome P450 family 2 subfamily D member 6	0.14765075299
interleukin 7 receptor	0.09246735384
N-acetylglucosamine-1-phosphate transferase subunit gamma	0.03701455098
aldehyde dehydrogenase 18 family member A1	0.05701751403
exosome component 6	0.05902830065
integrator complex subunit 6	-0.04282809606
INO80 complex ATPase subunit	0.03817118191
transmembrane and ubiquitin like domain containing 2	-0.05448240776
kinesin family member 1C	-0.0658222011
zinc finger protein 160	0.0548526125
HAUS augmin like complex subunit 5	0.0667605844
Yip1 interacting factor homolog B, membrane trafficking protein	-0.06045927513
argininosuccinate lyase	0.07628224926
arylsulfatase family member K	0.09103388203
ubiquitin associated protein 2	0.05392319443
	0.0833194295
meiotic nuclear divisions 1	0.22116977968
EMAP like 5	0.08991425061
novel protein	0.11567097581
zinc finger DHHC-type palmitoyltransferase 2	-0.08321499487
mediator of cell motility 1	-0.10526803051
DNA polymerase theta	0.1756291264
IGF like family receptor 1	-0.10941564685
pre T cell antigen receptor alpha	-0.19320167866
long intergenic non-protein coding RNA 672	-0.07898420566
nucleobindin 1	-0.11050114615
lysophospholipase 2	-0.07797442131
chromosome 2 open reading frame 92	0.08163250564
zinc finger protein 569	0.07957163673
sorting nexin 33	-0.08647103171
family with sequence similarity 111 member A	0.08260695424
OS9 endoplasmic reticulum lectin	-0.0537315313
sestrin 1	0.08761397995
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta	-0.06218052252
frizzled class receptor 3	0.1023627064
malonyl-CoA-acyl carrier protein transacylase	-0.08549399961
endoplasmic reticulum metalloproteinase 1	0.06363798914

nectin cell adhesion molecule 3	0.11808575826
aurora kinase A	0.12414277109
cyclic nucleotide gated channel subunit alpha 4	-0.12853922965
Rho GTPase activating protein 25	0.05456896251
ubiquitin protein ligase E3C	0.03593134041
synaptotagmin 17	-0.12224211735
cytohesin 1	0.04436490562
KAT8 regulatory NSL complex subunit 2	0.04976142946
SAM and SH3 domain containing 1	0.12083370767
zinc finger AN1-type containing 4	0.05036680696
connector enhancer of kinase suppressor of Ras 1	0.12812072115
DTW domain containing 2	0.078535295
HECT domain E3 ubiquitin protein ligase 4	0.05672110894
crystallin gamma S	0.07817636263
spectrin alpha, non-erythrocytic 1	0.05720931821
ADP-ribosylserine hydrolase	0.0695692415
polycystin 2, transient receptor potential cation channel	0.053184888
islet cell autoantigen 1 like	0.093501007
microtubule associated protein RP/EB family member 1	-0.05261303097
chromodomain helicase DNA binding protein 7	0.07300856446
TBC1 domain family member 5	0.04201752964
CDGSH iron sulfur domain 3	-0.08489575114
family with sequence similarity 110 member A	-0.06471974127
RNA binding motif protein 26	0.05028015676
N-acetylneuraminase synthase	-0.06592746123
CCZ1 homolog, vacuolar protein trafficking and biogenesis associated	-0.05732747199
spindle apparatus coiled-coil protein 1	0.11351270796
trafficking kinesin protein 1	0.03810226935
centromere protein U	0.12239583947
cleavage and polyadenylation specific factor 6	0.05570519951
transmembrane protein 268	0.09756140835
DnaJ heat shock protein family (Hsp40) member A1	-0.09375099279
ubiquitin specific peptidase 36	0.04761946994
phosphopantothienoylcysteine synthetase	-0.04758539514
protein kinase C and casein kinase substrate in neurons 2	-0.07269147015
proteasome 20S subunit beta 8	-0.08122725006
chromosome 18 open reading frame 21	-0.07487511252
GRB2 related adaptor protein 2	-0.05704604845
SprT-like N-terminal domain	0.05751776133
podocalyxin like 2	0.13910501123
glutamine rich 1	0.02606741995
scaffold attachment factor B2	0.04041836128
capping protein regulator and myosin 1 linker 1	0.0763212258
spectrin repeat containing nuclear envelope family member 4	0.14369222148
zinc finger protein 418	0.09336157032
zinc finger protein 276	-0.04619203867

centriolin	0.07210909485
serine/threonine kinase 32C	-0.06064906046
proline rich 7, synaptic	-0.0738595892
RasGEF domain family member 1A	0.10508837165
mitogen-activated protein kinase kinase kinase 11	-0.07596297567
SNAP associated protein	-0.06549880088
myeloid cell nuclear differentiation antigen	-0.09360072496
ataxin 7 like 3	-0.05960815411
mitochondrial poly(A) polymerase	0.05265456401
extra spindle pole bodies like 1, separase	0.18052158827
upstream binding protein 1	0.04189403741
neurocalcin delta	0.08319933486
synaptotagmin 1	0.21078033969
C-X-C motif chemokine ligand 16	-0.11665838044
abhydrolase domain containing 15	0.06194688797
sorting nexin 6	-0.05055787497
coiled-coil domain containing 58	0.09816009355
dipeptidase 2	0.09128021061
kelch like family member 36	0.04556737405
sorting nexin 29	0.05599582594
mitochondrial rRNA methyltransferase 1	0.06666785792
PMS1 homolog 2, mismatch repair system component	0.05224249618
sec1 family domain containing 2	0.05368522477
syntrophin beta 1	-0.06195065942
fms related receptor tyrosine kinase 1	0.14695695682
mediator complex subunit 28	0.04349185795
purinergic receptor P2Y13	-0.08332901328
solute carrier family 44 member 5	0.19850179764
AT-rich interaction domain 3A	-0.0738750459
radial spoke head 14 homolog	0.14913864287
chromosome 1 open reading frame 112	-0.13366337135
TRIO and F-actin binding protein	-0.05619460693
transmembrane p24 trafficking protein 1	-0.08841859973
glycoprotein VI platelet	-0.16594995545
platelet endothelial aggregation receptor 1	-0.17903876422
FGGY carbohydrate kinase domain containing	0.08741147232
H2B clustered histone 6	-0.10693317815
oligodendrocyte transcription factor 2	-0.21791886993
cyclin B2	0.22798868943
LETM1 domain containing 1	0.03706822372
wolframin ER transmembrane glycoprotein	0.11993789694
SPOC domain containing 1	-0.20778867171
phosphatidylinositol specific phospholipase C X domain containing 2	0.08256323402
autophagy related 4D cysteine peptidase	-0.05686987576
zinc finger protein 714	0.06020516588
nucleotide binding oligomerization domain containing 2	-0.08708000031

zinc finger protein 671	0.04528098111
solute carrier family 25 member 45	0.05775315225
discoidin domain receptor tyrosine kinase 2	0.18026394003
neuron navigator 2	0.16864186593
lysozyme g1	-0.09138884752
chromosome alignment maintaining phosphoprotein 1	0.05862673336
Parkinsonism associated deglycase	-0.06172732471
coiled-coil domain containing 15	0.09221327823
proline rich and Gla domain 4	-0.13032395667
chromosome 14 open reading frame 119	-0.05349624952
golgi brefeldin A resistant guanine nucleotide exchange factor 1	0.04663225152
TNFRSF1A associated via death domain	0.04312090507
galactosylceramidase	-0.06145744831
KIAA1522	-0.13140971338
transmembrane protein 167B	-0.06107938322
dermatan sulfate epimerase	-0.05792087261
tetratricopeptide repeat domain 17	0.03602638826
KIAA0753	0.06066316161
zinc finger with KRAB and SCAN domains 8	0.05808796057
interleukin 1 receptor associated kinase 4	-0.0537012975
HtrA serine peptidase 1	-0.20621911964
zinc finger protein 550	0.09873915788
BRCA1 associated RING domain 1	0.08066142384
synaptic Ras GTPase activating protein 1	0.06182934026
DBF4 zinc finger	0.06552503182
PMS1 homolog 1, mismatch repair system component	0.067658918
allograft inflammatory factor 1	-0.11530395701
Rho guanine nucleotide exchange factor 5	0.11795757407
ETS proto-oncogene 1, transcription factor	0.06663688865
ankyrin repeat and SOCS box containing 13	-0.07444439611
chloride intracellular channel 4	-0.07085813772
ATPase secretory pathway Ca ²⁺ transporting 1	0.03984359723
nuclear cap binding subunit 3	0.04618644679
zinc finger protein 567	0.07516916217
SRY-box transcription factor 13	0.09841497601
cilia and flagella associated protein 97	0.07653141756
SET domain containing 4	0.05378714277
ectodermal-neural cortex 1	-0.08239588199
ATP/GTP binding protein like 2	0.10015837782
SECIS binding protein 2 like	0.05242182651
cysteine rich secretory protein LCCL domain containing 2	-0.11690448755
sialic acid binding Ig like lectin 10	-0.10049453392
RIC3 acetylcholine receptor chaperone	0.07345675802
arachidonate 5-lipoxygenase activating protein	-0.12617081714
AU RNA binding methylglutaconyl-CoA hydratase	0.05838679914
platelet derived growth factor C	-0.11918771971

calpain 7	0.05283587285
acylphosphatase 2	0.06933425337
zinc finger protein 681	0.09959174189
transmembrane protein 208	-0.08508861473
four and a half LIM domains 3	-0.09461344716
SWI/SNF related, matrix associated, actin dependent regulator of chro	0.04622030902
kinesin family member 14	0.19911977104
T cell immune regulator 1, ATPase H ⁺ transporting V0 subunit a3	-0.06831361983
hexokinase 1	-0.07865927636
zinc finger protein 135	0.0939325823
GRB10 interacting GYF protein 1	0.04456644635
proteasome maturation protein	-0.07804468676
vasohibin 1	-0.08231426592
neural precursor cell expressed, developmentally down-regulated 9	0.07960242529
HEAT repeat containing 1	0.04830830537
prostaglandin E synthase 3	-0.04357000577
ring finger protein 208	-0.20008204157
WD repeat domain 4	0.05419743901
phenylalanyl-tRNA synthetase subunit beta	0.05011692246
mitogen-activated protein kinase kinase kinase kinase 2	0.05042660857
solute carrier family 25 member 16	0.04829340923
leucine zipper transcription factor like 1	0.07689990476
proteasome 26S subunit, non-ATPase 4	-0.05571892622
chromatin assembly factor 1 subunit A	0.06124091358
F-box and WD repeat domain containing 11	0.03745043872
clathrin heavy chain like 1	-0.09221871669
centrosomal protein 19	-0.09740530051
XK related 6	0.06916888793
mitofusin 2	-0.07415296239
solute carrier family 15 member 2	0.08768972568
taste 1 receptor member 3	0.1565332734
actin related protein 2/3 complex subunit 3	-0.05543307064
CYFIP related Rac1 interactor B	-0.05723248969
transmembrane protein 267	0.06512445059
lipase maturation factor 1	0.05695657437
mitochondrial intermediate peptidase	0.06580078087
protein phosphatase 4 regulatory subunit 3A	0.04285223086
myotubularin related protein 3	-0.06976375559
SRY-box transcription factor 4	-0.08890978114
DEAH-box helicase 32 (putative)	-0.04792364519
minichromosome maintenance complex component 3	0.0539586195
SEC14 like lipid binding 1	0.095650032
tripartite motif containing 66	0.06669144874
RAB11 family interacting protein 4	-0.06338676946
cell division cycle 16	0.04136838368
cyclin dependent kinase inhibitor 1A	-0.14299732441

chromosome 1 open reading frame 109	0.06674978077
NLR family CARD domain containing 5	-0.08383654845
GTP binding protein 3, mitochondrial	0.06645589128
TATA-box binding protein associated factor 2	0.05125219048
Fas cell surface death receptor	-0.10313505934
transforming growth factor beta 1 induced transcript 1	-0.21824076966
solute carrier family 39 member 6	0.05653291443
serine and arginine rich splicing factor 9	-0.0420756966
apolipoprotein L3	-0.08337828167
poly(rC) binding protein 1	-0.08313107766
transmembrane protein 19	0.06856073365
pyrimidinergic receptor P2Y6	0.15135016779
G protein subunit alpha 11	-0.0939542538
solute carrier family 26 member 11	-0.07552125764
heat shock transcription factor 5	0.10405319225
unconventional SNARE in the ER 1	-0.07022744391
coiled-coil domain containing 126	-0.05754654645
baculoviral IAP repeat containing 6	0.04828740091
PH domain and leucine rich repeat protein phosphatase 2	0.06114663812
proliferation-associated 2G4	-0.09999831198
nucleic acid binding protein 1	-0.09492218174
SP140 nuclear body protein like	0.06253660959
RNA binding motif protein 15	0.06450970745
zinc finger protein 383	0.05168790079
novel transcript	0.08794793131
secreted phosphoprotein 1	0.24037361715
solute carrier family 35 member F5	0.06422607236
platelet factor 4	-0.19484529718
spliceosome associated factor 3, U4/U6 recycling protein	0.03314789913
potassium calcium-activated channel subfamily M regulatory beta subunit	-0.0938691949
zinc finger protein 429	-0.06844357967
G2/M-phase specific E3 ubiquitin protein ligase	0.06591503987
homer scaffold protein 1	0.15805959648
eukaryotic translation initiation factor 4E binding protein 1	-0.09565763957
transmembrane protein 68	0.0672928929
intraflagellar transport 27	0.0489710136
X-ray repair cross complementing 2	0.16437978738
O-acyl-ADP-ribose deacylase 1	0.04141725845
glucosidase II alpha subunit	0.03397929452
coiled-coil domain containing 61	-0.05544682404
solute carrier family 1 member 3	-0.24273884275
tectonic family member 3	0.04966244114
thyroid hormone receptor interactor 6	-0.0798428557
neurobeachin	0.09792618909
activin A receptor type 1B	-0.07069592465
RAB28, member RAS oncogene family	0.06124604428

xylulokinase	0.08067683913
capping protein regulator and myosin 1 linker 2	0.06676646788
cation channel sperm associated auxiliary subunit beta	0.08533095234
AF4/FMR2 family member 4	0.04564851566
zinc finger protein 257	0.10638882426
membrane metalloendopeptidase	-0.13490638409
CGRP receptor component	0.0575053194
mitogen-activated protein kinase 1	-0.06195727566
ZFP69 zinc finger protein	0.07590231499
family with sequence similarity 168 member B	0.03935799122
proteasome 20S subunit beta 10	-0.09323177832
ATP binding cassette subfamily B member 1	0.08100316915
CD53 molecule	-0.04689417827
pogo transposable element derived with ZNF domain	0.04342596704
small integral membrane protein 1 (Vel blood group)	-0.25141212855
BMS1 ribosome biogenesis factor	0.05018515514
dehydrogenase/reductase 9	0.14816872253
S-phase kinase associated protein 1	-0.06814138373
cleavage factor polyribonucleotide kinase subunit 1	-0.06760167863
BLOC-1 related complex subunit 5	0.05448880887
serum response factor	-0.06833487033
TBCC domain containing 1	0.06047261789
insulin like 6	-0.24264558333
ring finger protein 121	0.04531723759
NudC domain containing 3	0.03661021368
dystrobrevin binding protein 1	-0.06231364337
polypeptide N-acetylgalactosaminyltransferase 12	0.07472620711
peptidylprolyl isomerase D	-0.04199401277
glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase	0.04339463353
ATPase H ⁺ transporting V0 subunit a2	0.03945681981
deltex E3 ubiquitin ligase 1	0.08776164348
platelet activating factor acetylhydrolase 1b catalytic subunit 2	-0.04289367338
zinc finger protein 382	0.09141798793
centromere protein N	0.0987583142
dynein axonemal heavy chain 1	0.06500093456
DEAD-box helicase 10	0.05971179241
3-phosphoinositide dependent protein kinase 1	0.05096560153
solute carrier family 38 member 10	0.04888520146
enhancer of zeste 2 polycomb repressive complex 2 subunit	0.07836880235
copine 2	-0.07711659642
SPC24 component of NDC80 kinetochore complex	0.16288255145
protein tyrosine kinase 2	0.06372496712
regulator of G protein signaling 14	-0.05787506905
PR/SET domain 11	0.061608776
transmembrane protein 169	-0.0671702822
activating signal cointegrator 1 complex subunit 1	0.04857507059

thimet oligopeptidase 1	0.05991605856
chromosome 11 open reading frame 24	0.06497595512
secretogranin V	0.15250060245
selectin P ligand	-0.08915562088
RAB7A, member RAS oncogene family	-0.0620754178
zinc finger protein 296	0.10550168957
interferon gamma inducible protein 16	-0.1007214947
sphingosine kinase 1	-0.13861574716
UDP-glucose ceramide glucosyltransferase	-0.09377201537
engulfment and cell motility 1	0.06077091299
cytosolic thiouridylase subunit 1	-0.06949483586
autophagy and beclin 1 regulator 1	0.04939445129
zinc finger protein 18	0.05105689511
lipin 1	0.04453788143
MSL complex subunit 1	-0.07495636805
antagonist of mitotic exit network 1 homolog	-0.06785541596
hydroxysteroid 17-beta dehydrogenase 7	0.05577767772
EMSY transcriptional repressor, BRCA2 interacting KIAA1328	0.04840039451
ring finger protein 217	0.06152480325
breast carcinoma amplified sequence 4	-0.09547474662
zinc finger protein 827	0.06699816175
TSPY like 4	0.06157323989
NHS like 1	0.06442726939
calpain small subunit 1	0.1341019726
TAM41 mitochondrial translocator assembly and maintenance homolog	-0.08689628662
store-operated calcium entry associated regulatory factor	0.04958157906
MAX dimerization protein 1	0.04476583348
NEDD4 E3 ubiquitin protein ligase	-0.08672114791
CTD small phosphatase like	-0.07785845285
Ras association domain family member 2	-0.16048699892
zinc finger protein 529	-0.07057743975
CD101 molecule	0.07617757479
syntaphilin	-0.08150719001
hepatocyte growth factor	-0.0787484522
utrophin	-0.10631133379
peroxisomal trans-2-enoyl-CoA reductase	0.07250049599
nucleus accumbens associated 1	-0.08236137148
DEAH-box helicase 37	-0.06591248137
cytokine inducible SH2 containing protein	0.04886391617
sperm antigen with calponin homology and coiled-coil domains 1	-0.09121656007
RAD52 homolog, DNA repair protein	0.08589537232
phosphatidylinositol glycan anchor biosynthesis class U	0.05736297301
lysophosphatidic acid receptor 5	0.05032106067
zinc finger protein 124	0.06233629763
ankyrin repeat and IBR domain containing 1	0.06442325143
	0.04129878308

cathepsin K	-0.05969841977
phospholipase C eta 2	0.08243066394
musashi RNA binding protein 2	0.04632464585
tRNA methyltransferase O	0.04599697599
enolase 3	-0.1011663643
SURP and G-patch domain containing 2	0.04168682573
leucine rich repeat neuronal 3	-0.09803983776
major facilitator superfamily domain containing 1	-0.06113140249
coiled-coil domain containing 88C	0.04476373803
cornichon family AMPA receptor auxiliary protein 1	-0.06071172404
amyloid beta precursor protein binding family A member 3	-0.04791998996
zinc finger CCHC-type containing 8	0.04228784789
thyroglobulin	-0.10622419043
GIN5 complex subunit 3	0.11677816809
pantothenate kinase 1	0.10654496372
BLCAP apoptosis inducing factor	0.02672020616
COPI coat complex subunit alpha	-0.03680594115
cyclin Y	-0.04659471549
integrin subunit alpha 3	0.08629118794
potassium channel tetramerization domain containing 12	-0.08306535968
transmembrane and immunoglobulin domain containing 3	0.18496589408
DENN domain containing 2C	0.11742302822
triple QxxK/R motif containing	-0.07534888417
protein O-mannosyltransferase 1	0.05680772306
cyclin D3	0.11520939473
ceramide transporter 1	-0.04662550529
major histocompatibility complex, class I-related	-0.05490633039
ryanodine receptor 1	0.11086365584
potassium channel tetramerization domain containing 2	-0.05646947451
leucine rich repeats and immunoglobulin like domains 1	0.06230692954
alpha and gamma adaptin binding protein	-0.0380632769
pecanex 3	0.04265733691
activity dependent neuroprotector homeobox	0.04148880713
MLLT3 super elongation complex subunit	-0.0616799705
La ribonucleoprotein 1B	0.09567562252
peptidase inhibitor 16	0.08945174447
3-hydroxyacyl-CoA dehydratase 2	0.05389944283
myosin light chain 12B	-0.08711049113
IQ motif containing B1	0.05673556878
sterile alpha motif domain containing 1	-0.06978337555
lysine demethylase 4C	0.04214808416
ER membrane associated RNA degradation	0.06268082061
HESX homeobox 1	0.23273689064
rotatin	0.0555889387
sortilin related VPS10 domain containing receptor 2	0.13218569563
acyl-CoA oxidase 1	-0.07074576021

coiled-coil serine rich protein 2	0.03059284201
AMMECR1 like	0.04468801686
M-phase phosphoprotein 6	0.07483881308
ETS variant transcription factor 6	-0.06405962547
acid phosphatase 3	-0.07030172632
intraflagellar transport 88	0.06061046376
ATP binding cassette subfamily D member 4	0.04815588297
mitochondrial translational initiation factor 3	0.05300550362
zinc finger protein 766	0.0389265057
single-pass membrane protein with coiled-coil domains 4	-0.09210059069
shugoshin 1	0.12927492924
CD33 molecule	-0.07254851317
zinc finger CCCH-type containing 6	0.05921635957
exosome component 8	0.06970333193
tudor and KH domain containing	0.06345339501
family with sequence similarity 118 member B	-0.05121501978
zinc finger HIT-type containing 6	0.05468614047
dual adaptor of phosphotyrosine and 3-phosphoinositides 1	-0.08483881219
lipase family member N	-0.10972376573
round spermatid basic protein 1 like	0.04601334699
SPT2 chromatin protein domain containing 1	0.05345181748
DnaJ heat shock protein family (Hsp40) member C9	0.04928157585
DNA methyltransferase 1	0.04568016671
cell division cycle associated 8	0.11232572001
phosphatidylinositol 4-kinase alpha	0.04185005554
tetraspanin 15	0.10430952019
tetratricopeptide repeat domain 28	0.13116119668
DnaJ heat shock protein family (Hsp40) member C4	-0.07898115823
YLP motif containing 1	0.04789777173
MAX dimerization protein MGA	0.04803236811
1-acylglycerol-3-phosphate O-acyltransferase 5	0.06721717381
ubiquitin conjugating enzyme E2 L3	-0.04309001728
clathrin light chain A	-0.0337578784
zinc finger protein 441	0.09776346581
T cell activation RhoGTPase activating protein	0.07398138585
coiled-coil domain containing 102A	0.081723975
centrosomal protein 112	0.16394886618
solute carrier family 47 member 1	0.15223717462
small integral membrane protein 5	-0.1762046219
discoidin, CUB and LCCL domain containing 2	0.11551530177
ATP citrate lyase	0.03700583177
FosB proto-oncogene, AP-1 transcription factor subunit	0.18926250491
pre-mRNA processing factor 3	0.03932478246
zinc finger protein 304	0.06137414989
exo/endonuclease G	0.06217145791
cytochrome b5 reductase 4	-0.05690357396

neuralized E3 ubiquitin protein ligase 4	0.05048603082
ATP/GTP binding protein like 3	0.09312179443
RAS like family 11 member A	-0.13082469583
cyclin D1 binding protein 1	-0.06470595697
diaphanous related formin 3	0.2524040249
polyhomeotic homolog 1	0.0635479449
Bcl2 modifying factor	-0.05795424051
protein phosphatase 1 regulatory subunit 9A	0.16829210404
cholesteryl ester transfer protein	-0.14373598216
CDK5 regulatory subunit associated protein 1	0.04481771118
intercellular adhesion molecule 3	-0.09260575788
TNF receptor superfamily member 10d	-0.06172201139
DDB1 and CUL4 associated factor 4	0.06604350886
discs large MAGUK scaffold protein 1	0.03904939175
solute carrier family 35 member E2B	0.04094998555
family with sequence similarity 126 member A	0.05886012051
cyclin G associated kinase	0.04089582009
biliverdin reductase A	-0.09377162971
COMM domain containing 5	-0.04417102233
ribitol xylosyltransferase 1	0.06485351801
nei like DNA glycosylase 2	0.06587084868
MOB kinase activator 3A	-0.08568892099
membrane bound O-acyltransferase domain containing 1	-0.05445795185
exportin 4	0.04899040676
sphingomyelin synthase 2	-0.10140145188
mediator complex subunit 22	-0.04700538006
isopentenyl-diphosphate delta isomerase 1	-0.10038317712
acyl-CoA dehydrogenase family member 9	0.04453114192
CD38 molecule	0.10168767709
chondrolectin	0.11405296112
tRNA methyltransferase 11 homolog	0.06646844816
ATPase plasma membrane Ca ²⁺ transporting 1	0.05547323797
integrin alpha FG-GAP repeat containing 1	0.03507527792
IKAROS family zinc finger 5	0.05784608605
diphthamine biosynthesis 6	0.06554318984
STAM binding protein like 1	0.06665988737
zinc finger protein 790	0.0622942393
sirtuin 1	0.04816483225
golgi phosphoprotein 3 like	-0.06252612213
brain enriched myelin associated protein 1	0.17552985341
BCL2 like 2	0.1267776115
ectonucleoside triphosphate diphosphohydrolase 7	-0.11081225614
cyclin F	0.09610139641
adenylate cyclase 10	0.12429255286
LDL receptor related protein 5	0.10982948313
FKBP prolyl isomerase 4	-0.07049090818

lymphocyte antigen 6 family member G5C	-0.07679994509
TRPM8 channel associated factor 2	-0.06721218617
tubulin tyrosine ligase	0.0447454361
acetyl-CoA acyltransferase 2	-0.07001173088
proline rich coiled-coil 2B	0.04174688714
cytoskeleton associated protein 2	0.05802332451
LIM domain binding 2	0.16731528377
Myb like, SWIRM and MPN domains 1	0.07988640599
1-acylglycerol-3-phosphate O-acyltransferase 1	-0.08716157043
NBPF member 26	-0.08699740564
MMS22 like, DNA repair protein	0.05705659705
caspase 8 associated protein 2	0.05935328791
CD4 molecule	-0.06953478404
catechol-O-methyltransferase	-0.0522719888
G protein subunit alpha o1	0.08922321233
adaptor related protein complex 4 subunit beta 1	0.04717180244
transmembrane protein 181	0.0616486737
complement C1q B chain	0.25840760146
spindle and kinetochore associated complex subunit 1	0.20664694692
EF-hand calcium binding domain 6	0.21624231521
ring finger protein 170	0.04470635819
immediate early response 5 like	-0.12431906894
FYVE, RhoGEF and PH domain containing 2	0.08021949301
transforming growth factor beta induced	-0.08714208372
myosin binding protein C3	-0.0933234929
patatin like phospholipase domain containing 6	-0.05810508576
MIS18 binding protein 1	0.066131998
EH domain containing 4	-0.0589809591
mitofusin 1	0.05616773151
calmodulin binding transcription activator 1	0.05055344016
serine and arginine rich splicing factor 5	0.03413350721
gephyrin	0.0623332597
chromosome 1 open reading frame 162	-0.07646070079
vacuolar protein sorting 13 homolog A	0.0802139071
autophagy related 4B cysteine peptidase	0.03848015984
neudesin neurotrophic factor	-0.07207238705
rhotekin	0.15762257797
zinc finger protein 749	0.09410944327
galectin 12	-0.11690097397
transforming growth factor beta regulator 1	0.0349098836
BRICK1 subunit of SCAR/WAVE actin nucleating complex	-0.05957290394
heat shock factor binding protein 1	-0.06388515679
zinc finger protein 641	-0.04405194281
translation machinery associated 16 homolog	0.07137101654
kirre like nephrin family adhesion molecule 3	0.23380618739
3-hydroxyisobutyryl-CoA hydrolase	0.04612713511

solute carrier organic anion transporter family member 4A1	0.14322348454
IKBKB interacting protein	0.08118365573
arylformamidase	0.07408896117
transmembrane protein 62	0.0688514009
C-C motif chemokine ligand 5	-0.11800773008
mitochondrial fission regulator 1 like	-0.04427750763
tudor domain containing 3	0.04647272595
poly(ADP-ribose) polymerase family member 10	-0.10483831394
SUN domain containing ossification factor	0.06027191773
zinc finger and BTB domain containing 49	0.05489383274
kynurenine 3-monooxygenase	0.07702847672
PML-RARA regulated adaptor molecule 1	-0.07103655901
LPS responsive beige-like anchor protein	0.04458531409
NPC intracellular cholesterol transporter 1	0.04935795358
trichoplein keratin filament binding	-0.04023724082
NIPA magnesium transporter 1	0.05570345109
cyclin dependent kinase inhibitor 2B	-0.10880283057
methionine adenosyltransferase 2A	0.04429976673
tetratricopeptide repeat domain 39B	0.06256703628
mediator complex subunit 16	-0.05955120459
centrosomal protein 350	0.04287102102
protein phosphatase 4 regulatory subunit 1	-0.07603141901
villin 1	-0.18006928769
importin 5	0.04862137642
diacylglycerol kinase epsilon	0.06199777481
zinc finger and AT-hook domain containing	0.05071660991
ciliary rootlet coiled-coil, rootletin	0.04890613026
papilin, proteoglycan like sulfated glycoprotein	0.1315895492
protein phosphatase 2 regulatory subunit B'beta	-0.10605806052
charged multivesicular body protein 3	-0.06861933532
RNA polymerase I and III subunit D	-0.07838181778
matrix remodeling associated 7	-0.10377850234
centrosomal protein 72	0.07250762321
pleckstrin 2	-0.23174637528
autophagy related 9A	-0.0669856801
zinc finger protein 326	0.06289272562
complement C3b/C4b receptor 1 like	-0.12609996255
periaxin	-0.09102669754
regulation of nuclear pre-mRNA domain containing 1B	0.04286511155
mitochondrial ribosomal protein S25	0.05815611498
DNA cross-link repair 1B	-0.07095042564
lipase E, hormone sensitive type	0.06116224987
zinc finger protein 175	0.06218604095
oxysterol binding protein like 1A	-0.0745935025
RAB GTPase activating protein 1	0.03547904476
centrosomal protein 89	0.04579711299

c-Maf inducing protein	-0.06148416545
C-terminal binding protein 2	-0.06131585666
cAMP responsive element binding protein like 2	-0.04664392412
spermatogenesis associated 1	-0.12026305439
novel protein	0.09240724228
trafficking protein particle complex 9	0.06030550761
cytochrome P450 family 27 subfamily A member 1	-0.10089000632
COP1 E3 ubiquitin ligase	-0.06329644634
jagged canonical Notch ligand 1	-0.07950286299
phosphodiesterase 5A	-0.13185670698
prolyl 4-hydroxylase subunit alpha 1	-0.03967662141
ubiquitin conjugating enzyme E2 T	0.14278185336
palladin, cytoskeletal associated protein	-0.10554693529
oligodendrocyte myelin glycoprotein	-0.124943142
NADH:ubiquinone oxidoreductase subunit B9	-0.05350416947
RNA exonuclease 1 homolog	0.04059600028
basic leucine zipper ATF-like transcription factor 3	0.12777966951
family with sequence similarity 189 member B	-0.0704264117
indoleamine 2,3-dioxygenase 2	0.16404865913
early growth response 1	0.17673313497
ganglioside induced differentiation associated protein 1	0.06790246148
dihydrolipoamide S-acetyltransferase	0.05470835894
transient receptor potential cation channel subfamily M member 6	-0.10347688161
cleavage and polyadenylation specific factor 2	-0.03562366944
ring finger protein 11	-0.11704354042
thymidylate synthetase	0.18743638299
zinc finger protein 230	-0.06997861712
speedy/RINGO cell cycle regulator family member A	-0.0924669779
BICD cargo adaptor 2	-0.05587183646
ketohehexokinase	-0.10230163043
WD repeat domain 12	0.05174355866
Rho associated coiled-coil containing protein kinase 1	-0.05332360521
PWP1 homolog, endonuclease	0.05160642036
ELOVL fatty acid elongase 7	-0.15357846532
nuclear pore complex interacting protein family member B5	0.06799497315
nucleoporin 107	0.05268371706
family with sequence similarity 117 member A	-0.08224817414
anti-silencing function 1B histone chaperone	0.11311967127
CD40 molecule	0.08695368199
acyl-CoA dehydrogenase family member 10	0.03703172913
FAST kinase domains 1	0.05747130695
NADH:ubiquinone oxidoreductase complex assembly factor 3	-0.09169100402
lysine demethylase 6B	-0.08877091126
leucine rich repeat containing 1	0.09397750917
chromosome 12 open reading frame 60	0.1567511326
afipilin	-0.02858618009

golgin A8 family member A	0.08249242824
coiled-coil domain containing 130	0.03632928052
ATPase Na ⁺ /K ⁺ transporting subunit beta 2	-0.23489507414
E2F transcription factor 4	-0.05452485064
melanoregulin	0.07959144045
zinc finger FYVE-type containing 28	0.06247074437
shroom family member 1	-0.10555037576
eukaryotic translation initiation factor 4H	-0.036327931
membrane associated ring-CH-type finger 9	0.06601659001
leucine rich repeat and fibronectin type III domain containing 1	-0.08546026876
hydroxysteroid 17-beta dehydrogenase 11	-0.05784134603
Ral GTPase activating protein catalytic subunit alpha 2	-0.07167579777
spermine oxidase	-0.19121447829
small ubiquitin like modifier 2	-0.04511911502
CD47 molecule	0.04981234226
ubiquinol-cytochrome c reductase core protein 1	-0.06573820637
malonyl-CoA decarboxylase	0.086434926
potassium voltage-gated channel subfamily E regulatory subunit 3	-0.07046446071
calcium activated nucleotidase 1	-0.07067355141
complement C5	0.09732304635
estrogen receptor 1	0.08606876393
SPG7 matrix AAA peptidase subunit, paraplegin	0.03838297857
novel protein	0.16466235093
zinc fingers and homeoboxes 3	0.04974956144
ubinnuclein 2	0.05611547471
PRKR interacting protein 1	0.03967875321
TEPSIN adaptor related protein complex 4 accessory protein	0.04744607842
tRNA-yW synthesizing protein 1 homolog	0.05698737722
ATPase 13A1	0.04844699025
gasdermin E	0.17531999043
solute carrier family 35 member B2	-0.06023032014
refilin B	-0.11521196052
solute carrier family 30 member 1	-0.07736901775
zinc finger SWIM-type containing 3	-0.04380428092
endonuclease V	0.05093508453
mitochondrial methionyl-tRNA formyltransferase	0.04940131098
anoctamin 9	0.07193935151
pumilio RNA binding family member 3	0.06237644906
carbonic anhydrase 1	-0.30422438235
cysteine and histidine rich 1	-0.04612521411
zinc finger protein 738	0.07762450967
exocyst complex component 8	0.06975519392
bone morphogenetic protein receptor type 1A	0.0733646698
sorting nexin 5	0.04816472247
zinc finger protein 141	0.05172807111
migration and invasion enhancer 1	-0.0716855655

MICAL like 1	0.06373205083
CUE domain containing 2	-0.05799889378
SPT3 homolog, SAGA and STAGA complex component	0.0678698422
synaptonemal complex protein 2	-0.10155125669
tetraspanin 17	-0.06603707752
eukaryotic translation initiation factor 4E family member 2	-0.0343676948
phospholipase A2 group XIIA	-0.07513012959
zinc finger protein 573	0.0759767945
centrosomal protein 164	0.04183667297
TCF3 fusion partner	-0.05463884903
SH3 domain and tetratricopeptide repeats 2	-0.17203474866
melanocyte inducing transcription factor	-0.10387115522
novel protein	0.06117174442
SR-related CTD associated factor 8	0.03468743031
kizuna centrosomal protein	0.04072588826
zinc finger protein 814	0.05112086154
eukaryotic translation initiation factor 2B subunit beta	-0.05306503291
testis associated actin remodelling kinase 2	-0.05738918538
heterogeneous nuclear ribonucleoprotein H1	0.06145107471
torsin 1A interacting protein 2	-0.04027413658
zinc finger ZZ-type and EF-hand domain containing 1	0.05056279564
glutaredoxin 5	-0.20324458002
myosin light chain 6	-0.10629786032
coronin 6	0.13020762601
carnosine N-methyltransferase 1	0.05681710021
fasciculation and elongation protein zeta 2	-0.03911815549
ring finger protein 2	-0.0424344474
zinc finger protein 587	0.06005458951
vesicle transport through interaction with t-SNAREs 1B	-0.08190755407
leukocyte immunoglobulin like receptor B1	-0.07278853706
UV stimulated scaffold protein A	0.07077509635
abhydrolase domain containing 6, acylglycerol lipase	0.05446972249
ER membrane protein complex subunit 10	-0.0546088041
B double prime 1, subunit of RNA polymerase III transcription initiation	0.05742960302
transforming acidic coiled-coil containing protein 3	-0.05376266087
novel transcript	0.10055191543
zinc finger protein 345	0.06273367096
nuclear factor of activated T cells 2 interacting protein	0.03310253175
serpin family B member 10	-0.1944610337
dynactin subunit 2	-0.03796817612
hexokinase 2	-0.07630655322
membrane spanning 4-domains A4A	-0.13449597064
MORN repeat containing 3	0.08062674287
serum amyloid A like 1	0.05705455033
cellular inhibitor of PP2A	0.10162964706
adenylate kinase 5	-0.06857281191

thyroid hormone receptor interactor 11	0.0387006438
TPTEP2-CSNK1E readthrough	0.1102060661
transmembrane protein 88	-0.09601656722
ALG10 alpha-1,2-glucosyltransferase B	0.10125607242
zinc finger protein 554	0.06377548888
glycerophosphodiester phosphodiesterase domain containing 5	0.05832667814
spen family transcriptional repressor	0.05288411421
nuclear transport factor 2	-0.06363731478
transcriptional adaptor 2B	-0.05603638637
HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2	0.10840573858
WD and tetratricopeptide repeats 1	-0.070400476
ubiquitin specific peptidase 37	0.03619243559
immunoglobulin superfamily member 9B	0.09738885276
butyrophilin like 3	-0.11505359357
ribosomal RNA processing 1B	0.04139347247
noggin	-0.11545379253
GDP dissociation inhibitor 2	-0.04622816395
bromodomain and WD repeat domain containing 1	0.0565107026
actin alpha 2, smooth muscle	-0.08842860806
lysine demethylase 2A	-0.04621526324
PTTG1 regulator of sister chromatid separation, securin	0.11920945724
PHD finger protein 1	0.04998966877
uridine-cytidine kinase 1 like 1	0.04977610452
dynein cytoplasmic 1 intermediate chain 1	0.23364619126
nuclear receptor subfamily 6 group A member 1	-0.08962977904
RUS family member 1	0.04390573219
zinc finger protein 341	-0.04852986778
non-SMC condensin II complex subunit H2	0.05085079
cysteine and glycine rich protein 1	-0.0633132462
leucine rich repeat containing 69	0.05435338561
H4 clustered histone 9	-0.16773352726
family with sequence similarity 83 member D	0.12397435224
heme oxygenase 1	-0.09728199302
killer cell lectin like receptor G1	0.07044624974
eukaryotic translation initiation factor 4 gamma 2	-0.05149397895
ADP ribosylation factor 5	-0.06445767611
protein phosphatase 1 regulatory subunit 10	-0.04586631684
methyltransferase like 3	0.04805548733
phosphodiesterase 7B	0.09617190664
zinc finger and BTB domain containing 24	0.06012964967
small integral membrane protein 27	-0.0764273261
drosha ribonuclease III	0.04302270934
xenotropic and polytropic retrovirus receptor 1	0.03225891233
novel protein	0.05213467673
mutS homolog 2	0.05036682616
inositol monophosphatase 2	-0.08776941874

zinc finger and SCAN domain containing 9	0.06069118475
atlastin GTPase 3	-0.03883601994
ATR serine/threonine kinase	0.05881830225
SKI proto-oncogene	0.0629121352
LSM10, U7 small nuclear RNA associated	-0.06139581526
Rho guanine nucleotide exchange factor 7	0.03882459964
lectin, mannose binding 2	-0.04858903567
phospholipid transfer protein	-0.13199108411
G protein-coupled receptor 180	0.07579385055
acylphosphatase 1	0.07211304881
serine peptidase inhibitor Kazal type 8 (putative)	-0.14882380483
centromere protein Q	0.07973370492
3-hydroxybutyrate dehydrogenase 2	0.09821461752
C-X-C motif chemokine ligand 5	-0.1737651032
major facilitator superfamily domain containing 2A	-0.10450468456
ankyrin repeat and MYND domain containing 2	0.05971456557
valosin containing protein interacting protein 1	-0.07042065608
chromatin target of PRMT1	0.03183284088
RAB11 family interacting protein 2	0.06726833102
glycosylphosphatidylinositol anchor attachment 1	-0.06804809855
patatin like phospholipase domain containing 7	0.08464842391
ribonucleic acid export 1	-0.02877100146
N-alpha-acetyltransferase 35, NatC auxiliary subunit	0.04197063504
L3MBTL histone methyl-lysine binding protein 1	0.0565780171
N-myc and STAT interactor	-0.0782380711
zinc finger protein 701	0.03941731798
Josephin domain containing 2	-0.07411454175
5'-nucleotidase ecto	0.08051836599
zinc finger SWIM-type containing 5	0.07773659854
RP9 pre-mRNA splicing factor	0.05934244924
chromobox 7	0.05276459161
apolipoprotein L domain containing 1	0.06103004756
zinc finger protein 7	0.03964911533
mitogen-activated protein kinase kinase kinase 2	-0.05901111414
carnitine O-acetyltransferase	-0.10650903646
meiotic double-stranded break formation protein 1	0.04890820038
SIN3-HDAC complex associated factor	0.04642848813
clavesin 1	0.1333766478
syntrophin gamma 2	0.10609928713
leucine rich single-pass membrane protein 1	-0.09913062405
transmembrane protein 123	0.08683065933
InaF motif containing 2	-0.07862022
splicing factor SWAP	0.03098564515
prolyl endopeptidase like	0.06002063207
four and a half LIM domains 2	-0.16966897853
interleukin 15 receptor subunit alpha	-0.07418983692

cramped chromatin regulator homolog 1	0.09166479128
azurocidin 1	0.22377952306
structural maintenance of chromosomes 5	0.05011034891
procollagen-lysine,2-oxoglutarate 5-dioxygenase 2	-0.18311128327
lamin B2	0.05783428186
zinc finger MYND-type containing 8	0.0413319447
tumor protein p53 inducible nuclear protein 1	0.0736656193
Rho GTPase activating protein 33	0.07216529298
suppressor of cytokine signaling 2	-0.06893542464
YEATS domain containing 2	0.04180119338
SET domain bifurcated histone lysine methyltransferase 2	0.0518354033
zinc finger and BTB domain containing 16	0.21857780329
zinc finger protein 329	0.05425807952
leukotriene B4 receptor	-0.06829048602
WD repeat domain 63	0.09052170751
kelch domain containing 4	0.05200944942
adenosine deaminase tRNA specific 2	0.07925492722
Rho GTPase activating protein 31	-0.06485583321
epoxide hydrolase 2	-0.07042036812
matrix metalloproteinase 11	0.14080371771
dehydrodolichyl diphosphate synthase subunit	0.03400756558
COPI coat complex subunit beta 1	-0.04109864783
cholinergic receptor nicotinic epsilon subunit	0.05856616909
transmembrane protein 263	0.05857700884
dimethylglycine dehydrogenase	0.13592180531
clustered mitochondria homolog	0.05123718633
fragile histidine triad diadenosine triphosphatase	-0.07002233621
ribosomal protein S6 kinase like 1	0.13391160861
cyclin G2	0.06952390012
angel homolog 2	0.06276534355
GATA zinc finger domain containing 2A	-0.04354109538
RAB1B, member RAS oncogene family	-0.0778026985
TRAF-type zinc finger domain containing 1	-0.08955775647
branched chain keto acid dehydrogenase E1 subunit beta	0.05448835914
doublecortin like kinase 2	0.1809339621
SMG7 nonsense mediated mRNA decay factor	-0.04967791855
mitochondrial ribosome recycling factor	0.04191377227
NADPH dependent diflavin oxidoreductase 1	0.04430305607
protein phosphatase 4 catalytic subunit	-0.06305154024
ring finger protein 181	-0.07407972437
THAP domain containing 3	-0.0496391036
coiled-coil domain containing 167	0.07201865735
zinc finger protein 440	0.04295649629
calmodulin 3	-0.07497569517
transmembrane protein 134	0.05436492927
transmembrane protein 150B	-0.10599239299

novel protein	-0.10499262982
zinc finger and BTB domain containing 10	0.06656634854
coiled-coil-helix-coiled-coil-helix domain containing 5	-0.07095515117
outer dense fiber of sperm tails 2	0.03629643731
dihydrouridine synthase 4 like	0.07761132049
C-C motif chemokine receptor like 2	-0.10858093581
STE20 related adaptor alpha	-0.06981541881
mitogen-activated protein kinase kinase kinase 3	-0.05205860069
NIMA related kinase 11	0.08288609701
proline rich 14 like	0.03460606925
cathepsin S	-0.05648475532
serine/threonine kinase 19	0.0495330147
microtubule associated serine/threonine kinase 2	0.05070142953
transmembrane protein 127	-0.0671842498
zinc finger with KRAB and SCAN domains 7	-0.08100868119
nitrilase 1	-0.03705875409
poly(A) specific ribonuclease subunit PAN3	0.05349902777
ALMS1 centrosome and basal body associated protein	0.05074710433
galactosidase beta 1 like 3	0.11800656286
ubiquitin specific peptidase 13	0.05885493337
thromboxane A2 receptor	-0.10942646465
cleavage stimulation factor subunit 3	0.05324677219
oxidation resistance 1	0.03519166036
lipocalin 2	-0.22825292018
testis expressed 14, intercellular bridge forming factor	0.16636171863
formin 1	0.13308339508
tweety family member 2	-0.06556690445
transmembrane protein 67	0.09604133653
NADH:ubiquinone oxidoreductase subunit B6	-0.05100428809
CDC28 protein kinase regulatory subunit 2	0.11834435023
rabenosyn, RAB effector	0.03421158138
cilia and flagella associated protein 45	0.13378458346
NIMA related kinase 6	-0.07321376968
GH3 domain containing	-0.05701915818
IQ motif and Sec7 domain ArfGEF 1	-0.05463352947
tetratricopeptide repeat domain 24	0.09588571914
caspase 10	0.05309108539
sperm tail PG-rich repeat containing 2	0.1560658037
G protein-coupled receptor 183	0.07933416347
shootin 1	-0.08071984335
zinc finger DHHC-type containing 11B	0.1556752204
transmembrane protein 39A	0.05109339445
Dmx like 2	-0.09113278278
zinc finger protein 519	0.07798072898
proteasome 20S subunit beta 9	-0.08220479654
tumor protein p63 regulated 1	0.07871583615

activin A receptor type 2B	0.07039220481
zinc finger MYND-type containing 11	0.05515761578
uracil DNA glycosylase	0.06228270128
F-box protein 41	0.04600130408
zinc finger and SCAN domain containing 12	0.06419888321
aryl hydrocarbon receptor nuclear translocator	-0.02967914264
charged multivesicular body protein 1A	-0.06742356601
growth hormone regulated TBC protein 1	-0.15690846531
NPC intracellular cholesterol transporter 2	-0.08878721133
sirtuin 5	0.05852204652
ALG14 UDP-N-acetylglucosaminyltransferase subunit	0.06556176363
espin	-0.20114923857
transmembrane channel like 8	0.04453287963
CD27 molecule	0.07027775428
AFG1 like ATPase	0.076669878
protein tyrosine phosphatase non-receptor type 6	-0.05650366174
coiled-coil domain containing 24	0.1033416558
propionyl-CoA carboxylase subunit alpha	0.0603604098
F-box protein 31	0.04956644282
semaphorin 4B	-0.05524109107
protein kinase D1	0.31309177927
N-alpha-acetyltransferase 25, NatB auxiliary subunit	0.05358887809
monocyte to macrophage differentiation associated	-0.13049026293
male germ cell associated kinase	-0.11142363561
zinc finger protein 595	0.06916880716
growth factor independent 1B transcriptional repressor	-0.15438330469
platelet activating factor receptor	-0.08180784538
coiled-coil domain containing 14	0.08137532534
cilia and flagella associated protein 92 (putative)	0.09005322608
D-glutamate cyclase	0.06127596327
6-phosphogluconolactonase	-0.05635091388
autophagy related 101	-0.07106823019
OTU deubiquitinase 7B	0.04844899171
endoplasmic reticulum lectin 1	0.0505775978
Kruppel like factor 7	-0.05784842559
glucocorticoid modulatory element binding protein 2	0.04118683476
aurora kinase A interacting protein 1	-0.0769503036
NCK associated protein 5	0.27754415051
proteasome 20S subunit beta 6	-0.06987658924
5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP	0.04917437686
YTH N6-methyladenosine RNA binding protein 3	-0.04684772521
sideroflexin 1	0.04439348259
DAZ interacting zinc finger protein 1 like	0.18637884594
klotho	-0.1531568628
serine/threonine kinase 11	-0.06235805009
DS cell adhesion molecule like 1	0.13564153169

karyopherin subunit beta 1	-0.05527547904
zinc finger and BTB domain containing 43	0.03350622684
LDL receptor related protein 3	-0.09836248202
potassium channel tetramerization domain containing 11	-0.06745861709
arginase 1	-0.2014914728
patched 1	0.07869028604
tectonin beta-propeller repeat containing 1	-0.03963445182
ADP ribosylation factor guanine nucleotide exchange factor 2	0.05126178183
aminopeptidase O (putative)	0.05796938638
praja ring finger ubiquitin ligase 2	-0.06378033195
zinc finger protein 665	0.07305857817
charged multivesicular body protein 2A	-0.08837373884
amyloid beta precursor protein	-0.05095997061
zinc finger protein 420	0.05713728187
Bardet-Biedl syndrome 9	0.05062212619
interactor of little elongation complex ELL subunit 1	0.05288159086
glucose-fructose oxidoreductase domain containing 1	0.07884296108
2,4-dienoyl-CoA reductase 1	-0.04310736519
ISL LIM homeobox 2	0.12243407394
repulsive guidance molecule BMP co-receptor b	0.07886994536
ectonucleoside triphosphate diphosphohydrolase 2	0.21732172616
zinc finger protein 142	0.03841344628
striatin 4	-0.04847031798
UEV and lactate/malate dehydrogenase domains	-0.03462507625
potassium voltage-gated channel subfamily Q member 3	0.18618085695
charged multivesicular body protein 6	-0.04754532477
myosin IC	0.0581699699
NFKB inhibitor interacting Ras like 2	-0.06314369389
SKI like proto-oncogene	-0.06192999455
NADH:ubiquinone oxidoreductase complex assembly factor 7	-0.05852924758
novel transcript	0.09086905951
zinc finger protein interacting with K protein 1	0.07304649732
selenoprotein W	-0.05510470205
eukaryotic translation elongation factor 1 delta	-0.0368756237
transmembrane BAX inhibitor motif containing 6	-0.05045323803
leucine rich repeat and coiled-coil centrosomal protein 1	0.10350340873
heterogeneous nuclear ribonucleoprotein H3	0.0461900564
anoctamin 6	-0.05443770168
integral membrane protein 2B	-0.07273629535
Fc fragment of IgG receptor IIIa	-0.07490942304
transducer of ERBB2, 2	0.0489455902
farnesyl-diphosphate farnesyltransferase 1	-0.04500998848
ubiquitin specific peptidase 32	-0.05488881832
membrane associated ring-CH-type finger 2	-0.10317661622
complement C1q A chain	0.20049115849
nuclear factor of activated T cells 3	0.03692219689

N-myristoyltransferase 2	0.04919193341
THAP domain containing 11	-0.06564867522
fatty acid desaturase 2	-0.07363328221
glycoprotein Ib platelet subunit alpha	-0.15256308873
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 10 (pu	0.11443523353
kinesin family member 16B	0.05848905047
Bardet-Biedl syndrome 7	0.0706727855
BORCS7-ASMT readthrough (NMD candidate)	0.06270558361
golgi integral membrane protein 4	0.06470122541
cytochrome c oxidase subunit 5B	-0.06435769354
endosome-lysosome associated apoptosis and autophagy regulator 1	-0.08428378938
progesterone and adiponectin receptor family member 3	0.07399015243
decapping enzyme, scavenger	0.04038683247
NGFI-A binding protein 1	-0.06063628232
aspartate beta-hydroxylase	-0.10548524315
C-C motif chemokine receptor 7	-0.07315737988
NODAL modulator 2	0.05450952138
NIMA related kinase 3	0.07072274037
ventricular zone expressed PH domain containing 1	-0.15565890842
chromosome 18 open reading frame 25	0.05882813811
dynamitin binding protein	0.04813580098
tetratricopeptide repeat domain 27	0.04754161273
proteasome assembly chaperone 4	0.04913690062
Cbl proto-oncogene like 1	0.04777142777
exostosin like glycosyltransferase 2	0.09460244066
phosphatidylinositol glycan anchor biosynthesis class O	0.04652764735
lysine acetyltransferase 6B	0.04257478103
solute carrier family 25 member 11	-0.0575516523
angiogenin like 1	0.10900275666
BLOC-1 related complex subunit 6	-0.07502811462
fascin actin-bundling protein 3	-0.12494546534
RAB33B, member RAS oncogene family	-0.07900949806
leucine rich repeats and immunoglobulin like domains 2	0.04619149936
docking protein 2	-0.07077527876
adaptor related protein complex 2 subunit sigma 1	-0.0823344536
stromal antigen 3	0.1088573902
tripartite motif containing 9	-0.12298472159
zinc finger protein 70	0.06702712039
ubiquitin conjugating enzyme E2 E1	-0.04081642152
methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2 like	0.06033456671
KIAA0513	-0.06136366943
RNA polymerase II associated protein 2	0.04177013376
cyclin G1	-0.05084966171
SUMO specific peptidase 7	0.06622738507
phospholipase B domain containing 2	-0.06020208119
zinc finger protein 256	0.08649573049

SOS Ras/Rac guanine nucleotide exchange factor 1	0.03585015598
casein kinase 1 alpha 1	-0.03119357564
nudE neurodevelopment protein 1	0.05322262344
tripartite motif containing 62	0.03740193948
serpin family I member 1	0.07088432984
synaptogyrin 2	-0.06590524006
THO complex 7	-0.06652091972
anaphase promoting complex subunit 7	0.03063993384
ciliogenesis associated kinase 1	0.04170724569
CCAAT enhancer binding protein epsilon	-0.13390336275
cytoplasmic linker associated protein 2	0.03466408479
apolipoprotein B mRNA editing enzyme catalytic subunit 3F	0.06969867375
ceramide synthase 4	-0.05597502343
tetratricopeptide repeat domain 30B	0.09029953469
structural maintenance of chromosomes flexible hinge domain containir	0.07233048518
RAB3D, member RAS oncogene family	-0.07512284003
sushi, nidogen and EGF like domains 1	0.06848163086
F-box protein 38	-0.05595001428
phosphatidylinositol glycan anchor biosynthesis class B	0.07527235238
TNF alpha induced protein 8 like 1	-0.06337807226
chromosome 19 open reading frame 71	0.07414949046
N-6 adenine-specific DNA methyltransferase 1	0.0713349422
ring finger protein 4	0.03048639842
DBF4 zinc finger B	0.07116815697
R3H domain containing 4	-0.12427992339
suppression of tumorigenicity 7	-0.06583613914
adhesion G protein-coupled receptor B3	0.16124643262
potassium voltage-gated channel subfamily A regulatory beta subunit 2	-0.04088370786
forkhead box K2	0.02617481711
DnaJ heat shock protein family (Hsp40) member B9	0.06232469708
COP9 signalosome subunit 7B	0.03362978555
CEA cell adhesion molecule 1	-0.13185899148
CWF19 like cell cycle control factor 1	-0.02611158806
syntaxin binding protein 1	-0.07407110976
diacylglycerol kinase theta	0.05015538205
Rab9 effector protein with kelch motifs	0.04665115613
heat shock protein family B (small) member 1	-0.11748811391
Ras suppressor protein 1	-0.0430615578
ras homolog family member A	-0.06248461929
KIAA0040	-0.06984940473
tetratricopeptide repeat domain 5	0.0476237153
nucleosome assembly protein 1 like 1	-0.05045827432
PHD and ring finger domains 1	0.03713453572
ADP ribosylation factor 4	-0.04099932226
leucine rich repeats and IQ motif containing 3	0.13124062275
C-type lectin domain family 12 member A	-0.07741528314

cartilage associated protein	-0.06580920667
angiotensin I converting enzyme	0.13404511839
Wnt family member 10B	0.09146887496
H4 clustered histone 4	-0.13124450758
GC-rich sequence DNA-binding factor 2	0.05646400333
BORA aurora kinase A activator	0.06659473044
tissue factor pathway inhibitor	-0.15781414068
TMEM9 domain family member B	-0.04860201787
DDB1 and CUL4 associated factor 17	0.05142639607
DEXH-box helicase 34	-0.06709472437
methenyltetrahydrofolate synthetase	0.10515988336
tetratricopeptide repeat domain 7B	-0.08828956365
thrombospondin type 1 domain containing 1	0.094325278
BCL10 immune signaling adaptor	-0.05162196565
solute carrier family 6 member 12	-0.10579914969
novel transcript	0.16462152998
tetratricopeptide repeat domain 12	0.05648600788
oligosaccharyltransferase complex subunit 4, non-catalytic	-0.10055233426
tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1	0.19160560951
BEN domain containing 7	-0.11559092977
kelch like ECH associated protein 1	-0.0550812071
F-box DNA helicase 1	0.02780367548
chromosome 16 open reading frame 91	-0.09947205884
novel protein	0.08695834674
phosphodiesterase 4D interacting protein	0.05122944522
phosphoinositide kinase, FYVE-type zinc finger containing	0.06126389056
ribosomal protein L39 like	0.13283647271
cathepsin L	-0.1301788977
metaxin 2	0.06854540122
caprin family member 2	0.05271918897
LysM domain containing 2	-0.08158805745
Kruppel like factor 16	-0.07437267659
cathepsin C	-0.04490853755
KN motif and ankyrin repeat domains 3	0.10241195819
chromosome 1 open reading frame 198	-0.10609677
lysyl oxidase like 2	0.05992057144
aminoadipate-semialdehyde synthase	0.08115688995
pleckstrin homology domain containing A5	0.0698852515
transmembrane protein 200A	0.12072442563
Kruppel like factor 1	-0.22489924808
G protein-coupled receptor 20	-0.22263727984
RNA polymerase III subunit F	0.0541902705
membrane bound O-acyltransferase domain containing 7	-0.07935727182
suppressor of glucose, autophagy associated 1	0.06620888575
small ubiquitin like modifier 3	-0.05771594995
DET1 and DDB1 associated 1	-0.04253775184

TNF superfamily member 10	-0.1005858829
telomerase RNA component interacting RNase	-0.04861893475
ETHE1 persulfide dioxygenase	-0.05283907118
free fatty acid receptor 4	-0.15303059565
apolipoprotein B mRNA editing enzyme catalytic subunit 3H	0.10853908649
N-alpha-acetyltransferase 50, NatE catalytic subunit	0.04281433324
SHOC2 leucine rich repeat scaffold protein	-0.04922268721
coiled-coil domain containing 92	-0.04813886613
zw10 kinetochore protein	0.04429863964
CTD phosphatase subunit 1	-0.05218713169
ALG5 dolichyl-phosphate beta-glucosyltransferase	0.05620551498
linker for activation of T cells family member 2	-0.05312458898
ATP binding cassette subfamily A member 5	0.09163476279
polynucleotide kinase 3'-phosphatase	0.04362928906
EYA transcriptional coactivator and phosphatase 2	0.23110204841
sialic acid binding Ig like lectin 15	-0.11067158049
nudix hydrolase 4	-0.06604637134
major histocompatibility complex, class II, DM beta	0.06953987871
akirin 2	-0.0570124518
SH2B adaptor protein 1	0.03309368811
FA complementation group G	0.06075146115
Rho GTPase activating protein 35	0.03515732924
coronin 2A	-0.04894232568
mitochondrial calcium uptake family member 3	0.11695805091
serine/threonine kinase 10	-0.03918463527
alpha-L-fucosidase 2	-0.05644022688
zinc finger protein 146	0.05626191585
testis expressed 2	0.04880683356
cell division cycle 37, HSP90 cochaperone	-0.04498717495
double PHD fingers 2	0.04217233464
SCAN domain containing 1	-0.0890309201
ankyrin repeat domain 28	0.05857755802
epsin 1	-0.06020582627
exportin 5	0.04087819928
interferon gamma receptor 1	-0.07343178211
RecQ like helicase 4	0.12362937997
poly(rC) binding protein 2	-0.05668645916
zinc finger protein 208	0.13678318131
crystallin beta-gamma domain containing 2	0.10063249429
upstream transcription factor 2, c-fos interacting	-0.04383286517
G protein nucleolar 1 (putative)	0.03905503785
ATP binding cassette subfamily B member 9	0.07613309731
glycogen synthase kinase 3 alpha	-0.07541926196
hyaluronidase 1	-0.11024551902
beta-1,4-galactosyltransferase 7	0.05518684132
receptor tyrosine kinase like orphan receptor 2	0.22888259985

clathrin interactor 1	0.04234618229
RUN and FYVE domain containing 1	-0.04955017418
placental growth factor	-0.33288422158
VPS26, retromer complex component A	-0.03148291869
tubulin polyglutamylase complex subunit 1	-0.04418128483
collagen like tail subunit of asymmetric acetylcholinesterase	0.06013116546
jade family PHD finger 1	0.04708464027
serine protease 41	-0.17247872209
microtubule associated protein 4	0.04167185581
transmembrane protein 243	0.0431390793
interleukin 1 receptor type 1	-0.1247767301
sperm flagellar 2	0.07388326444
coenzyme Q7, hydroxylase	-0.04629819671
latent transforming growth factor beta binding protein 2	-0.09615772833
tRNA methyltransferase 13 homolog	0.08752021899
chromodomain helicase DNA binding protein 4	0.12534304109
LanC like 1	0.0556513287
BEN domain containing 3	0.1076388965
SS18L1 subunit of BAF chromatin remodeling complex	0.05136757174
phosphoserine aminotransferase 1	0.08722968823
protein-L-isoaspartate (D-aspartate) O-methyltransferase domain conta	0.06428699136
SLX4 structure-specific endonuclease subunit	0.03977510271
cytochrome c oxidase assembly factor 3	-0.06681401556
CWF19 like cell cycle control factor 2	0.05619554826
ATPase sarcoplasmic/endoplasmic reticulum Ca ²⁺ transporting 1	0.09888186994
ubiquitin conjugating enzyme E2 M	-0.0811035813
chloride intracellular channel 5	0.06746277943
interleukin enhancer binding factor 3	0.03208254239
N-alpha-acetyltransferase 38, NatC auxiliary subunit	-0.03734640581
eva-1 homolog C	0.06002578893
mannose-P-dolichol utilization defect 1	-0.06101195592
transmembrane protein 254	-0.04587139902
TOG array regulator of axonemal microtubules 1	0.04142163225
zinc finger protein 202	0.04767897066
E74 like ETS transcription factor 1	0.05077507414
NADH:ubiquinone oxidoreductase subunit B10	-0.06301479383
family with sequence similarity 241 member B	-0.14482722416
COBW domain containing 2	0.08193730189
myosin XVI	0.14914181447
transmembrane protein 97	0.09231311192
uroplakin 3B	0.1028428719
structural maintenance of chromosomes 2	0.07103656504
plasminogen receptor with a C-terminal lysine	-0.05214336165
MCC regulator of WNT signaling pathway	0.10445493063
glycogen synthase kinase 3 beta	-0.04039046277
dynactin subunit 4	-0.03931469221

membrane integral NOTCH2 associated receptor 1	0.10092037417
DENN domain containing 4C	0.03757056694
syntaxin 12	-0.03186641297
baculoviral IAP repeat containing 5	0.19707924403
ubiquitin conjugating enzyme E2 C	0.09067451759
solute carrier family 6 member 9	-0.20234231385
CD70 molecule	0.0905213778
amyloid beta precursor protein binding family B member 3	-0.05179647659
low density lipoprotein receptor class A domain containing 3	-0.08539089812
mitochondrial translational initiation factor 2	0.04943084747
zinc finger protein 460	0.0842603368
protein phosphatase 6 catalytic subunit	-0.03078072651
RB binding protein 6, ubiquitin ligase	0.03833206807
replication timing regulatory factor 1	0.06045808414
CD9 molecule	-0.0937489149
nitric oxide synthase interacting protein	-0.04410616796
transforming growth factor beta 3	0.07475822063
acrosin binding protein	-0.09725040271
sphingomyelin phosphodiesterase 1	-0.04771046705
FA complementation group L	0.09196722027
CTD nuclear envelope phosphatase 1	-0.07162343371
bone morphogenetic protein 6	0.09897507888
MAD2L1 binding protein	-0.05734138327
shieldin complex subunit 2	0.05039610777
RecQ like helicase 5	0.04011167022
F-box protein 4	0.06591136494
potassium inwardly rectifying channel subfamily J member 10	-0.14784493376
caveolae associated protein 2	-0.1384140506
ATP synthase membrane subunit 6.8PL	-0.08823985594
heparin binding growth factor	-0.11991857362
sulfatase modifying factor 1	-0.04566357909
OTU deubiquitinase 3	0.05666399494
G protein-coupled receptor 155	-0.05708502505
CD24 molecule	0.12626567372
nescient helix-loop-helix 1	-0.09810052867
MAF bZIP transcription factor	0.06615948927
mediator complex subunit 11	-0.04692250685
solute carrier family 29 member 3	-0.0536901689
transmembrane protein 161B	0.06910201695
vesicle trafficking 1	-0.04372693545
AHNAK nucleoprotein	0.07095488044
RAB5A, member RAS oncogene family	-0.04312499213
homologous recombination factor with OB-fold	0.18613875452
pre-mRNA processing factor 4	0.03680127539
HECT domain and ankyrin repeat containing E3 ubiquitin protein ligase	0.06553723193
acyl-CoA dehydrogenase short/branched chain	0.05804712285

DM1 locus, WD repeat containing	-0.06719498331
SET domain containing 1A, histone lysine methyltransferase	0.04074008348
ADAM metallopeptidase with thrombospondin type 1 motif 10	-0.06372794418
dynein light chain roadblock-type 1	-0.06645749839
zinc finger protein 347	0.06080957052
crumbs cell polarity complex component 1	0.16200458816
MAX network transcriptional repressor	-0.04632616619
XRCC1 N-terminal domain containing 1-like	0.05925735975
RAB, member of RAS oncogene family like 2B	0.04306002857
enolase superfamily member 1	0.05048000088
zinc finger protein 227	0.04797018621
ankyrin repeat domain 36	0.07263418204
solute carrier family 49 member 3	-0.07343687592
thioesterase superfamily member 4	0.05433636644
succinate dehydrogenase complex iron sulfur subunit B	-0.03154960943
zinc finger protein 621	0.0578773183
cerebral dopamine neurotrophic factor	0.10784945604
TSPY like 5	0.10322483248
zinc finger protein 398	0.03972078529
complement C1r	-0.08618379489
leptin receptor	-0.05458285496
myelin protein zero	-0.05775101951
diphosphoinositol pentakisphosphate kinase 1	0.05166962076
dynein heavy chain domain 1	0.05934340755
peroxiredoxin 5	-0.10155659541
mesenchyme homeobox 1	-0.09294413734
fumarylacetoacetate hydrolase domain containing 1	-0.08561644419
purine nucleoside phosphorylase	-0.07218192548
replication factor C subunit 1	0.03499853888
ankyrin repeat domain 55	-0.08436414999
aldehyde dehydrogenase 3 family member B1	-0.07068508641
farnesyltransferase, CAAX box, beta	-0.07380388835
zinc finger protein 793	0.07106329403
SEC61 translocon subunit alpha 1	0.03635077823
RIO kinase 3	-0.08663514742
MAPK activated protein kinase 5	0.04194296595
olfactomedin 4	-0.27184490602
TATA-box binding protein associated factor 3	0.04259216944
ATPase H ⁺ transporting V1 subunit H	-0.03136750832
septin 4	-0.24034652754
zinc finger protein 470	0.07523230838
neural proliferation, differentiation and control 1	0.070896036
cell division cycle 123	-0.04358787228
bromodomain PHD finger transcription factor	0.02935340661
nephrocystin 4	0.04827436553
HPS6 biogenesis of lysosomal organelles complex 2 subunit 3	-0.06741447963

zinc finger protein 831	0.05301488175
methylenetetrahydrofolate reductase	-0.03976474246
centrosomal protein 250	0.03352402744
dynein cytoplasmic 1 heavy chain 1	0.04780406514
protein tyrosine phosphatase receptor type C	-0.05996531937
zinc finger protein 672	-0.06162111013
gamma-aminobutyric acid type A receptor subunit rho2	-0.11459167483
phosphoglycerate dehydrogenase	0.10559280684
phosphatidylinositol-4-phosphate 5-kinase type 1 beta	0.05290334094
transmembrane protein 59	-0.04662160983
nucleoporin 188	0.04272598923
iron-sulfur cluster assembly 1	-0.0805356789
hyperpolarization activated cyclic nucleotide gated potassium and sodium	0.08198966736
myeloid associated differentiation marker	-0.08221261889
interferon regulatory factor 9	-0.12815028941
DAB adaptor protein 1	0.08481412203
zinc finger protein 487	0.0686604998
solute carrier family 6 member 6	-0.06108434157
zinc finger protein 43	0.04129284413
DEAH-box helicase 33	0.06152687128
nuclear receptor subfamily 4 group A member 2	0.07426781557
membrane palmitoylated protein 6	0.05958435781
acireductone dioxygenase 1	-0.04740595699
caspase 8	0.04067802838
kinesin light chain 2	0.05407797979
regulatory factor X associated ankyrin containing protein	-0.06259997985
protein O-glucosyltransferase 3	0.06143132143
proline rich 33	-0.13586408576
ribonucleoprotein, PTB binding 2	0.0672615373
DNA topoisomerase III alpha	-0.03489103401
DOP1 leucine zipper like protein A	0.04947324983
lysophosphatidylglycerol acyltransferase 1	-0.05001630276
pyridoxal phosphate binding protein	-0.03921277339
DEAD-box helicase 6	0.03890853757
Josephin domain containing 1	-0.04404955603
late endosomal/lysosomal adaptor, MAPK and MTOR activator 4	0.05511062942
PTEN induced kinase 1	-0.10042279811
zinc finger protein 594	0.06570641109
G protein-coupled receptor kinase 3	-0.05147633009
endosome associated trafficking regulator 1	0.03994657342
formin like 1	-0.05712940409
LIM domain containing preferred translocation partner in lipoma	0.04573573961
phosphatidylinositol 4-kinase type 2 beta	0.08929417083
lysosomal protein transmembrane 5	-0.05800162796
zinc finger protein 568	0.0587188412
TBC1 domain family member 19	0.06370227587

H2A.Z variant histone 2	0.02991783953
kinetochore localized astrin (SPAG5) binding protein	0.07061442531
THAP domain containing 6	0.04368233017
tubulin beta 2A class IIa	-0.19081717599
dystrobrevin alpha	0.12028091635
CREB/ATF bZIP transcription factor	0.07633285428
zinc finger HIT-type containing 1	-0.05138019346
DDB1 and CUL4 associated factor 6	-0.04842846377
5',3'-nucleotidase, mitochondrial	-0.12771887508
adaptor related protein complex 4 subunit epsilon 1	0.0478352715
RB transcriptional corepressor like 1	0.04617749668
opioid growth factor receptor	-0.06811726157
CTD small phosphatase like 2	0.03564766916
asparaginyl-tRNA synthetase 2, mitochondrial	0.04771962719
heterogeneous nuclear ribonucleoprotein A3	0.02490040141
claudin domain containing 1	0.05372855461
triggering receptor expressed on myeloid cells like 2	-0.07891791865
VPS37C subunit of ESCRT-I	0.05648756452
SON DNA and RNA binding protein	0.03406609358
docking protein 1	-0.06505035166
TSC complex subunit 2	0.04070608637
glucuronic acid epimerase	-0.05564148643
solute carrier family 2 member 1	-0.07709204373
retroelement silencing factor 1	0.07421575693
mitochondrial ribosomal protein L39	0.06770773073
RUN and FYVE domain containing 2	0.05020635836
ADAM metallopeptidase with thrombospondin type 1 motif 2	0.33036419241
HPS5 biogenesis of lysosomal organelles complex 2 subunit 2	0.03910673268
G protein subunit gamma 2	-0.0544801797
H2B clustered histone 5	-0.08640009155
chromosome 1 open reading frame 127	0.13915071382
heat shock protein family A (Hsp70) member 14	0.06585375117
TGFB induced factor homeobox 1	0.04335354135
oxidative stress responsive kinase 1	-0.05990503193
NK3 homeobox 1	0.14957466226
L3MBTL histone methyl-lysine binding protein 4	0.07133558735
GTP binding protein 1	-0.06616404477
far upstream element binding protein 1	0.04944692764
speckle type BTB/POZ protein like	-0.05409496071
laminin subunit beta 2	0.10912757217
DEP domain containing MTOR interacting protein	0.13673830593
tubulin gamma 1	0.07387637621
oncoprotein induced transcript 3	-0.12955649204
regulation of nuclear pre-mRNA domain containing 2	0.0298809045
dynein axonemal assembly factor 2	0.06316156459
family with sequence similarity 32 member A	-0.04920564998

solute carrier family 6 member 13	0.13877845279
carnitine O-octanoyltransferase	0.05121347391
fumarylacetoacetate hydrolase domain containing 2B	0.08823430016
thymocyte selection associated high mobility group box	0.05949851719
crystallin zeta	0.07841629563
ras homolog family member U	-0.06536829288
Rho related BTB domain containing 1	-0.13059353735
SNF2 histone linker PHD RING helicase	0.05416235846
short transmembrane mitochondrial protein 1	-0.08364611888
ETS transcription factor ELK4	0.04989026638
mitogen-activated protein kinase 8	0.03994023115
chromosome 4 open reading frame 48	-0.12595546294
RAP1 GTPase activating protein	-0.27404179488
lysine methyltransferase 2A	0.04960987506
holocarboxylase synthetase	0.0471411054
treacle ribosome biogenesis factor 1	0.04026328783
plectin	-0.05181621234
SH3 domain containing 21	0.08990704151
DEAD-box helicase 20	0.03894666237
interleukin 17 receptor C	-0.1020969005
kelch like family member 24	0.02994300791
PBX/knotted 1 homeobox 1	-0.04389797531
G protein-coupled receptor 146	-0.16997748441
solute carrier family 35 member A1	-0.07914521947
inner mitochondrial membrane peptidase subunit 1	0.06231739397
cyclin E2	0.13082613761
centrosomal protein 95	0.05597819278
JAZF zinc finger 1	-0.05689337915
ubiquitin specific peptidase 39	-0.03208590598
coronin 1A	-0.05674793789
magnesium transporter MRS2	0.04932740856
GLIS family zinc finger 2	-0.17212485607
complement component 4 binding protein alpha	-0.13845724431
MKS transition zone complex subunit 1	0.05694114635
hydroxyacyl-CoA dehydrogenase	0.04559627049
SEC31 homolog A, COPII coat complex component	0.03223607839
Ras and Rab interactor like	-0.03473775373
DNA helicase B	-0.0467576182
agrin	0.16513985359
CRK proto-oncogene, adaptor protein	-0.04363685965
serine protease 33	-0.17810745215
dynein cytoplasmic 1 light intermediate chain 1	0.04430946783
proline rich transmembrane protein 3	-0.06477930764
renalase, FAD dependent amine oxidase	0.06756052318
reticulocalbin 3	0.08628943413
myosin light chain kinase	-0.13034997595

LUC7 like	0.04734592752
cyclin I	-0.07982534766
huntingtin interacting protein 1	-0.0653925764
KIAA0319	-0.09861617043
sushi domain containing 1	-0.04222000844
POU class 2 homeobox 2	-0.04555885181
TINCR ubiquitin domain containing	0.10028602751
zinc finger protein 654	-0.0368524633
small ubiquitin like modifier 1	-0.04830073512
ankyrin repeat and SOCS box containing 7	-0.04159697223
kelch repeat and BTB domain containing 4	-0.04589037369
centromere protein H	0.08370562116
MOB kinase activator 3B	-0.05923871871
receptor transporter protein 5 (putative)	0.15567920166
endothelial PAS domain protein 1	0.10360464694
gastric inhibitory polypeptide receptor	0.08333203568
myocyte enhancer factor 2D	0.03856111439
purine rich element binding protein B	0.04496922342
zinc finger protein 211	0.03823695012
cytochrome P450 family 4 subfamily V member 2	0.07372501269
lymphotoxin alpha	-0.07361702046
tubulin gamma 2	0.05273445408
purinergic receptor P2X 4	-0.04201001335
intermediate filament family orphan 2	0.05433842137
gigaxonin	0.0428999911
Novel protein	-0.0993686965
COBW domain containing 6	0.07836370438
G protein subunit beta 5	0.03935635833
carbonic anhydrase 2	-0.123871384
novel protein	0.05704706093
Kruppel like factor 9	0.09570059959
G protein-coupled receptor 18	0.07778867245
mitochondrial ribosomal protein L19	0.03951454685
cyclin dependent kinase inhibitor 2A	0.06801308052
heat shock factor binding protein 1 like 1	-0.05964538644
coiled-coil domain containing 106	0.07673230301
prostaglandin D2 synthase	0.08885777797
photoreceptor disc component	0.14480559151
ubiquitin C	-0.0700544846
integrator complex subunit 7	0.04322361808
protein tyrosine phosphatase domain containing 1	0.07898213114
polypeptide N-acetylgalactosaminyltransferase like 6	0.19145850753
centromere protein V	0.06803336246
adhesion G protein-coupled receptor B1	0.07477615195
G protein subunit alpha q	-0.05690784003
G protein-coupled receptor 153	-0.11020528335

titin	0.09817042121
cleavage and polyadenylation specific factor 4	0.032754054
ADP ribosylation factor like GTPase 17B	-0.06519079511
POU class 5 homeobox 1	-0.09199986764
Rap guanine nucleotide exchange factor like 1	-0.05990387556
mannosidase alpha class 1B member 1	0.0338552365
DnaJ heat shock protein family (Hsp40) member B11	0.05458600261
novel transcript	0.11599591425
SPTY2D1 opposite strand	-0.07739076695
cyclin dependent kinase 14	-0.06820094231
aph-1 homolog A, gamma-secretase subunit	-0.0513093179
major histocompatibility complex, class I, E	-0.06615249283
family with sequence similarity 114 member A1	-0.06040275572
twinkle mtDNA helicase	0.06274226701
coiled-coil domain containing 159	-0.0488758996
mitochondrial ribosomal protein L28	-0.06265020915
fibroblast growth factor receptor like 1	-0.06575227087
BCL2 like 15	0.09025370521
janus kinase and microtubule interacting protein 2	0.06647313829
zinc finger protein 784	-0.07042484081
BAF chromatin remodeling complex subunit BCL7B	-0.04200081797
syntaxin binding protein 4	0.04990738756
NME/NM23 family member 7	0.04814372855
myosin IXA	0.03564109674
zinc finger DHHC-type palmitoyltransferase 13	0.04596604971
protein phosphatase 1 regulatory subunit 13B	0.04530311017
sorting nexin 32	-0.13080010786
potassium voltage-gated channel interacting protein 2	0.06740342954
trafficking protein particle complex 1	-0.07632853136
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4	-0.06354546239
tousled like kinase 1	-0.04481437609
apoptosis enhancing nuclease	0.0570099974
coiled-coil domain containing 152	0.08004877556
NIMA related kinase 4	-0.03782614076
pseudouridine synthase 7 like	0.06123770459
proprotein convertase subtilisin/kexin type 5	-0.049325932
zinc finger protein 384	0.02990868729
transmembrane protein 38B	0.057255646
FA complementation group C	0.05506711773
tripartite motif containing 71	-0.15267453448
N-acetyltransferase 1	0.06741801363
period circadian regulator 1	0.15837152821
ligand of numb-protein X 2	0.03960331412
toll interacting protein	-0.0541635488
novel protein	-0.11492420041
G protein-coupled receptor 89A	0.05528023911

solute carrier family 25 member 17	0.04239175301
SP140 nuclear body protein	0.08100580838
V-set immunoregulatory receptor	-0.06442342576
centrosomal protein 131	0.05270035544
autophagy related 2B	0.06036811818
arginase 2	-0.16368935071
YES proto-oncogene 1, Src family tyrosine kinase	0.06843789604
F-box and leucine rich repeat protein 8	0.06378757648
glycogen phosphorylase B	-0.03768416852
sodium voltage-gated channel alpha subunit 9	-0.08500402898
ITPR interacting domain containing 2	-0.06179462847
purinergic receptor P2X 1	-0.06221850779
stress associated endoplasmic reticulum protein 1	-0.04315797723
sine oculis binding protein homolog	0.13770762847
cytochrome c1	-0.05966281856
Rab geranylgeranyltransferase subunit beta	0.06735582623
DnaJ heat shock protein family (Hsp40) member C16	0.03204734927
zinc finger protein 260	0.05080101278
alkB homolog 8, tRNA methyltransferase	0.06036639896
zinc finger protein 136	0.04098365689
glomulin, FKBP associated protein	0.04161437084
rubicon autophagy regulator	0.05452318986
general transcription factor IIIC subunit 2	0.02694452377
solute carrier family 39 member 10	0.0586099814
3-hydroxy-3-methylglutaryl-CoA lyase	-0.0355921488
procollagen-lysine,2-oxoglutarate 5-dioxygenase 1	-0.06229371528
protein inhibitor of activated STAT 3	-0.03569737634
RFX family member 8, lacking RFX DNA binding domain	0.12311155507
zinc finger protein 121	0.04832464036
RELT TNF receptor	-0.04588450207
coiled-coil domain containing 77	0.04273707334
troponin T1, slow skeletal type	-0.1246161434
poly(ADP-ribose) polymerase family member 16	-0.04759697124
solute carrier family 20 member 2	0.03621659178
serine and arginine rich splicing factor 10	0.05390956446
COPI coat complex subunit beta 2	-0.03303547232
vacuolar protein sorting 36 homolog	0.05631946001
centrosomal protein 85 like	0.03937960897
centriole, cilia and spindle associated protein	0.0516162617
solute carrier family 16 member 13	-0.05628043072
solute carrier family 22 member 16	-0.10308130551
centrosomal protein 120	0.05613559729
coronin 1C	-0.04721305814
A-kinase anchoring protein 1	0.04349973492
acyl-CoA synthetase medium chain family member 3	-0.08350247412
glutamate-ammonia ligase	-0.08539688482

transmembrane p24 trafficking protein 10	0.03164875201
ermin	0.07882206708
ankyrin repeat domain 42	0.05145652504
sterol O-acyltransferase 2	0.1155328574
mucosal vascular addressin cell adhesion molecule 1	0.12220926387
ligand dependent nuclear receptor interacting factor 1	0.05188229951
IQ motif containing GTPase activating protein 2	0.04899524062
late endosomal/lysosomal adaptor, MAPK and MTOR activator 2	-0.05130461267
diphthamide biosynthesis 2	0.05287031573
vacuolar protein sorting 72 homolog	-0.03609540235
GVQW motif containing 3	0.07597888404
glia maturation factor beta	-0.06236131066
novel protein	0.0922949497
centrosomal protein 290	0.06371975155
TATA-box binding protein associated factor 8	0.05639359419
polypeptide N-acetylgalactosaminyltransferase 6	-0.05059423294
OTU deubiquitinase 4	0.05012927431
SET binding factor 1	0.03499881724
transmembrane protein 63A	0.03934055122
H3 clustered histone 10	-0.14457664129
ring finger protein 19A, RBR E3 ubiquitin protein ligase	0.04142964089
nuclear receptor subfamily 1 group H member 2	-0.06101099684
glutathione peroxidase 7	0.0548979664
isocitrate dehydrogenase (NAD(+)) 3 catalytic subunit alpha	0.04727544501
CD320 molecule	0.06633082576
zinc finger protein 394	-0.02599833579
cyclin dependent kinase 19	0.05659622776
zinc finger protein 300	0.10440368939
EEF1A lysine methyltransferase 1	0.05404458703
nudix hydrolase 13	0.06470074042
cereblon	-0.0544706903
gamma-secretase activating protein	-0.04957487971
coiled-coil domain containing 125	0.05532322709
GRIP and coiled-coil domain containing 2	0.03810786627
proteasome activator subunit 1	-0.07660595989
cytohesin 3	0.04173887545
novel protein	0.05562453058
zinc fingers and homeoboxes 2	0.03616872597
tubulin beta 1 class VI	-0.13190605834
general transcription factor IIH subunit 3	0.04519516633
RAS p21 protein activator 1	0.04060475972
taxilin alpha	0.03323855205
nudix hydrolase 19	-0.04083559184
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 1	0.08625311988
glutaredoxin 3	0.03970267519
RNA binding motif protein 4B	0.03366966983

ectonucleotide pyrophosphatase/phosphodiesterase 4	0.09094568358
family with sequence similarity 13 member B	0.02610999365
upstream transcription factor 1	-0.04605588959
heat shock protein family B (small) member 11	0.04564377395
nuclear factor of activated T cells 1	0.03111871414
transmembrane protein 70	-0.0593067284
transmembrane serine protease 3	0.09270606496
CCCTC-binding factor	0.02439151764
zinc finger protein 880	0.06294312458
WD repeat domain 82	0.03110523416
lysine demethylase 2B	0.03669617355
centromere protein K	0.0862769328
solute carrier family 2 member 5	0.12047163605
anaphase promoting complex subunit 2	0.03503024736
zinc finger protein 614	0.05840627769
transducin beta like 2	-0.04505613963
Rab interacting lysosomal protein	-0.14243148328
golgin A2	0.040375583
IDNK gluconokinase	-0.05068665099
threonyl-tRNA synthetase 2, mitochondrial	0.03666961787
cytochrome b561 family member A3	0.0478757489
makorin ring finger protein 2	0.03430624815
ras homolog family member T1	-0.04154059265
G protein nucleolar 3	0.07574317969
ELOVL fatty acid elongase 6	0.06470610937
sterile alpha motif domain containing 8	-0.03982981187
small nuclear ribonucleoprotein U1 subunit 70	0.0311887228
PHD finger protein 2	0.0358647591
protein phosphatase 1 regulatory inhibitor subunit 14A	0.12762586348
phospholipase C beta 3	-0.05407537832
integrator complex subunit 2	0.0480020944
calcium regulated heat stable protein 1	-0.05766626476
small nuclear ribonucleoprotein polypeptide E	0.06408548454
transportin 3	-0.03804518429
mitogen-activated protein kinase kinase 1	0.02913577094
Myb/SANT DNA binding domain containing 4 with coiled-coils	0.05618366507
nucleoporin 35	0.05799696723
proline rich 13	-0.13973910413
signal peptide peptidase like 2B	0.04322325359
G protein subunit alpha 13	-0.05431417695
ankyrin repeat domain 13A	-0.04653152231
CCR4-NOT transcription complex subunit 11	0.02690685357
CCAAT enhancer binding protein delta	-0.09180880291
NBPF member 14	-0.05853408122
alsin Rho guanine nucleotide exchange factor ALS2	0.03978981251
transient receptor potential cation channel subfamily V member 2	-0.03419555566

transcription factor EB	-0.04930050616
tubulin beta 4B class IVb	-0.07525666948
limb development membrane protein 1	0.02815233859
C-type lectin domain containing 10A	0.09636393737
pyruvate dehydrogenase kinase 2	-0.05975067477
ABL proto-oncogene 1, non-receptor tyrosine kinase	0.03890603083
establishment of sister chromatid cohesion N-acetyltransferase 1	0.04510018243
FANCD2 and FANCI associated nuclease 1	0.04528169058
major facilitator superfamily domain containing 5	-0.06225587939
TAO kinase 2	0.03125445573
ubiquitin specific peptidase 35	-0.04536186087
elongator acetyltransferase complex subunit 3	0.03322329537
purinergic receptor P2Y11	-0.10280042449
TBC1 domain family member 30	0.07393177328
propionyl-CoA carboxylase subunit beta	0.03626279633
RAD51 paralog C	0.05186916392
C-C motif chemokine ligand 3	-0.12937597035
dystroglycan 1	0.03891310242
alkB homolog 7	-0.07390068847
Rho guanine nucleotide exchange factor 39	0.14054964209
LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	-0.0524051082
family with sequence similarity 177 member B	0.08799077808
component of oligomeric golgi complex 6	0.04795694643
centrosomal protein 57	0.04971611838
proline rich 3	0.0333729441
ankyrin repeat domain 46	0.04815302119
ring finger protein 130	-0.03789332591
Sp1 transcription factor	-0.04371729077
methyltransferase like 22	-0.03233989394
SMG5 nonsense mediated mRNA decay factor	-0.03667739075
glutathione peroxidase 4	-0.07725028432
epithelial cell transforming 2 like	0.13189651615
adhesion G protein-coupled receptor A3	0.11304393384
caveolin 2	-0.1446150441
mitogen-activated protein kinase binding protein 1	0.03627571153
acyl-CoA thioesterase 7	-0.07612611842
alpha kinase 2	0.15604669917
complement C1q C chain	0.24306644413
ubiquitin conjugating enzyme E2 G2	0.03175869084
mitochondrial fission factor	-0.03177722065
transcription factor 20	0.03446348948
ring finger protein 214	0.03371139554
actin gamma 1	-0.05659928507
zinc finger protein 404	0.10412671415
solute carrier family 35 member D1	0.03998708477
ras homolog family member C	-0.09553850411

pyridoxal dependent decarboxylase domain containing 1	0.03165866409
aarF domain containing kinase 5	0.05135067115
egl-9 family hypoxia inducible factor 1	-0.06946193339
TNF superfamily member 4	-0.09629652721
NFKB inhibitor like 1	-0.05417162017
TNF receptor superfamily member 10b	-0.03984927171
MIER family member 3	0.06595185852
solute carrier family 19 member 2	0.0624047415
TBC1 domain family member 14	-0.05588755927
testin LIM domain protein	-0.03638609835
ring finger protein 212	0.0776716484
interferon induced protein 35	-0.13195033394
serine/threonine kinase 16	-0.05678314549
NADH:ubiquinone oxidoreductase complex assembly factor 5	0.04993867101
solute carrier family 16 member 14	0.14315884664
poly(ADP-ribose) polymerase family member 9	-0.10164298929
major histocompatibility complex, class I, A	-0.06905160826
family with sequence similarity 13 member A	-0.05648855929
heparan sulfate 2-O-sulfotransferase 1	-0.07295079404
nuclear pore complex interacting protein family member B15	0.09278198026
nudix hydrolase 16	0.07321328227
MAP3K12 binding inhibitory protein 1	0.06438793274
host cell factor C1 regulator 1	-0.07295545429
frizzled class receptor 2	-0.09869538375
matrix remodeling associated 8	-0.13690702433
LY6/PLAUR domain containing 6B	0.17463712863
ribonuclease/angiogenin inhibitor 1	-0.0597188096
BicC family RNA binding protein 1	0.17618622525
mixed lineage kinase domain like pseudokinase	-0.05829059712
SH3GL interacting endocytic adaptor 1	-0.19332560851
family with sequence similarity 210 member A	0.04833617666
MALT1 paracaspase	0.03272497081
methionyl aminopeptidase type 1D, mitochondrial	0.05676348915
transferrin receptor	0.04732693273
nucleolar protein 7	-0.04266017074
cytochrome P450 family 2 subfamily U member 1	0.05610445267
TUB bipartite transcription factor	0.14848632579
testis expressed metallothionein like protein	-0.05305731127
collagen type IX alpha 3 chain	-0.09085383171
listerin E3 ubiquitin protein ligase 1	0.0636272312
RAB40C, member RAS oncogene family	-0.03995408564
tetraspanin 4	-0.0770909646
splicing factor 3b subunit 5	-0.06020542936
mitochondrial translation release factor 1	0.04644327204
ZFP62 zinc finger protein	0.06533368365
actin related protein 2/3 complex subunit 1B	-0.1493045423

ADP dependent glucokinase	0.03076123848
SH3 domain containing ring finger 3	-0.09566590995
cytotoxic T-lymphocyte associated protein 4	0.07938898618
C-C motif chemokine receptor 3	0.07515770336
fidgetin like 1	0.07897616854
neuraminidase 1	-0.04805328297
tubulin gamma complex associated protein 4	0.03561317549
ribosomal RNA processing 1	0.04680743983
major facilitator superfamily domain containing 4A	0.10837834731
UHRF1 binding protein 1 like	-0.04065061882
zinc finger protein 609	0.04471169961
adaptor related protein complex 1 subunit sigma 1	-0.06913914174
nuclear envelope integral membrane protein 2	0.05606513237
ADAM metallopeptidase domain 22	0.07849020137
TNF receptor superfamily member 18	0.10269091134
annexin A1	-0.09215113908
X-C motif chemokine ligand 2	0.12136105025
KIAA2013	-0.0616121611
chromosome 5 open reading frame 63	0.05847279478
CCR4-NOT transcription complex subunit 9	0.03021370981
WD repeat domain 55	0.02550398969
neural EGFL like 2	-0.06821405593
transmembrane BAX inhibitor motif containing 1	-0.04479783269
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1H	0.07736617482
haloacid dehalogenase like hydrolase domain containing 2	-0.06054700198
heterogeneous nuclear ribonucleoprotein D	-0.01804724848
protein O-glucosyltransferase 1	0.04516951
zinc finger protein 14	0.0447640802
H2B clustered histone 8	-0.10579330089
NADH:ubiquinone oxidoreductase subunit B3	-0.10479273343
reticulophagy regulator family member 2	-0.07290533002
NPR3 like, GATOR1 complex subunit	-0.13751544397
nidogen 1	-0.09167064708
dynein light chain LC8-type 2	-0.0446080026
COBW domain containing 3	0.08161397798
nucleosome assembly protein 1 like 4	0.02881522477
TATA-box binding protein associated factor, RNA polymerase I subunit	0.04341208122
dephospho-CoA kinase domain containing	0.03659305847
family with sequence similarity 160 member A1	0.08881390562
golgin A5	0.02974794823
NADH:ubiquinone oxidoreductase subunit C1	-0.03784922016
catsper channel auxiliary subunit epsilon	0.07055060797
ankyrin repeat domain 18A	0.10618937338
integrin subunit beta 7	0.04283702753
eukaryotic translation initiation factor 5A	-0.05254251855
stomatin like 1	-0.08744246856

retinol dehydrogenase 11	-0.05244457989
Rho GTPase activating protein 1	-0.03838501506
aldehyde dehydrogenase 1 family member A1	-0.08690726079
tripartite motif containing 61	0.12865982991
PHD finger protein 20	0.03435955576
RNA polymerase II subunit F	0.03370571562
RAS like proto-oncogene A	-0.02813988257
phosphoethanolamine/phosphocholine phosphatase 1	0.1285086119
zinc finger protein 133	0.04430244644
zinc finger protein 267	-0.06828205997
p21 (RAC1) activated kinase 1	-0.05244352127
muscleblind like splicing regulator 2	0.03679757188
DEAD/H-box helicase 11	0.04803221789
ATPase phospholipid transporting 8A1	0.0509529107
ferritin light chain	-0.10597607091
zinc finger protein 234	0.04799479507
guanylate binding protein 1	-0.16270898673
MDM4 regulator of p53	0.03827105579
RNA binding motif protein 48	-0.02928397602
PBX homeobox 1	-0.13665626582
unc-13 homolog D	-0.04750328176
zinc finger and SCAN domain containing 32	0.02992273069
CCR4-NOT transcription complex subunit 8	-0.03232339372
MAF1 homolog, negative regulator of RNA polymerase III	-0.10783955164
ASH2 like, histone lysine methyltransferase complex subunit	-0.02872362974
casein kinase 1 delta	-0.03994553411
gem nuclear organelle associated protein 2	0.06861637823
zinc finger RANBP2-type containing 3	0.050007552
beta 3-glucosyltransferase	0.05465215372
Nedd4 family interacting protein 1	-0.03087451536
5-hydroxymethylcytosine binding, ES cell specific	0.03326952085
eomesodermin	0.07158046335
caspase activity and apoptosis inhibitor 1	0.04338118298
Wnt ligand secretion mediator	-0.08955859244
N-acylsphingosine amidohydrolase 2B	0.11670905777
ubiquitin specific peptidase 48	0.03705739068
LYR motif containing 1	-0.05194996587
ABL proto-oncogene 2, non-receptor tyrosine kinase	-0.03662584974
eukaryotic translation initiation factor 3 subunit G	-0.05249575121
solute carrier family 2 member 8	0.08296734878
novel protein	0.10156964191
annexin A11	-0.05373206389
ZFP82 zinc finger protein	0.05020017119
zinc finger protein 354B	0.06066093099
MAP3K7 C-terminal like	-0.10156299773
CD86 molecule	-0.06799256802

acyl-CoA dehydrogenase medium chain	0.05312534165
kinesin family member 2A	-0.03396987817
adenosine deaminase RNA specific	-0.06698184338
integrin subunit alpha 9	0.11277277237
hematopoietic cell signal transducer	-0.06808506133
insulin like growth factor binding protein 4	0.09762136413
chromosome 20 open reading frame 27	-0.07066598883
SPT16 homolog, facilitates chromatin remodeling subunit	0.02891158324
mediator complex subunit 18	-0.05554234734
NOP2/Sun RNA methyltransferase 4	0.03289481971
RAB27B, member RAS oncogene family	-0.08338940861
VPS37B subunit of ESCRT-I	-0.0560850016
NAD kinase 2, mitochondrial	0.04956549414
kinesin family member 24	0.10567140482
transmembrane protein 183A	-0.03705483995
solute carrier family 7 member 7	-0.05304723472
dynein light chain Tctex-type 1	-0.06887268283
WD repeat domain 75	0.06198620969
regulator of calcineurin 2	0.16906626935
cytidine and dCMP deaminase domain containing 1	-0.04882744563
solute carrier family 38 member 7	-0.04968789342
required for meiotic nuclear division 1 homolog	0.03775199723
phospholipase A2 group VI	0.03991320075
CDC28 protein kinase regulatory subunit 1B	0.09006148348
ankyrin repeat and SOCS box containing 3	0.05376050994
ferric chelate reductase 1	0.08712416101
ubiquitin specific peptidase 18	0.20883440637
protein O-linked mannose N-acetylglucosaminyltransferase 2 (beta 1,4-	-0.07009165888
fibronectin type III and SPRY domain containing 1	0.12068917014
phosphoglucomutase 3	0.05793799812
glyoxalase I	0.04111059567
aprataxin	0.0313424682
WD repeat domain 60	0.04236922252
phosphoribosyl pyrophosphate synthetase associated protein 2	0.02943512017
sialic acid binding Ig like lectin 7	-0.05145312646
chromosome 1 open reading frame 122	-0.07163623738
hydroxysteroid dehydrogenase like 1	0.03722107148
TBC1 domain family member 22A	0.0420849687
thrombomodulin	0.09268234904
prune exopolyphosphatase 1	-0.04489963131
sterol O-acyltransferase 1	-0.03340124125
vestigial like family member 4	-0.02836489885
multiple EGF like domains 9	-0.06618429748
transporter 1, ATP binding cassette subfamily B member	-0.08145685617
nucleoporin 85	0.03003748058
ribonuclease P/MRP subunit p38	0.03595044693

protein phosphatase 2 regulatory subunit Bbeta	0.06861920172
chromosome 19 open reading frame 54	0.04336277713
zinc finger protein 780B	0.04580386203
TBC1 domain family member 7	0.06104357086
Myb related transcription factor, partner of profilin	-0.03545073194
M-phase specific PLK1 interacting protein	-0.04394854709
alpha hemoglobin stabilizing protein	-0.20825586079
tousled like kinase 2	0.03205820818
guanylate cyclase 1 soluble subunit beta 1	-0.11269858743
SIGLEC family like 1	-0.12311579373
Rap guanine nucleotide exchange factor 2	0.05718038751
SAP domain containing ribonucleoprotein	0.07161956384
family with sequence similarity 221 member A	0.0744000542
sulfatase 2	0.05864750474
solute carrier family 25 member 26	0.04183554661
intraflagellar transport 122	0.03836102982
synaptotagmin 12	-0.18002513305
tubulin alpha 4a	-0.08267664797
suppressor of cancer cell invasion	0.06351396302
centromere protein B	-0.06783039516
BTB domain containing 8	-0.05627601091
sperm associated antigen 6	0.09521712295
iron-sulfur cluster assembly 2	-0.04757432146
mitochondrial ribosomal protein L1	0.05553984457
proline, glutamate and leucine rich protein 1	0.03831914199
A-kinase anchoring protein 9	0.03843888738
endoplasmic reticulum oxidoreductase 1 beta	0.03662019623
zinc finger and BTB domain containing 26	0.05030995672
RAB24, member RAS oncogene family	-0.11463689289
zinc finger protein 367	0.0542672123
SIN3 transcription regulator family member A	0.03340127563
nucleolar protein 6	0.04019690446
cyclin C	0.05116689463
protein O-mannosyltransferase 2	0.04674885175
phytanoyl-CoA dioxygenase domain containing 1	0.11663400801
ring finger protein 25	-0.03597330993
cofilin 2	0.0637743634
selenium binding protein 1	-0.22396897066
chromosome 2 open reading frame 42	0.02773353988
LUC7 like 3 pre-mRNA splicing factor	0.05667118181
novel protein	0.11960596351
tripartite motif containing 2	0.07975978306
mastermind like transcriptional coactivator 2	0.05696332733
WW domain binding protein 11	0.03735220734
LDL receptor related protein 8	0.0461767276
phosphatidylinositol-4,5-bisphosphate 4-phosphatase 2	-0.05926999433

SPT5 homolog, DSIF elongation factor subunit	0.03356679147
ariadne RBR E3 ubiquitin protein ligase 2	0.02151530002
glycoprotein integral membrane 1	0.02925842448
inversin	0.03713761557
SET domain bifurcated histone lysine methyltransferase 1	-0.02990203194
thioredoxin related transmembrane protein 1	-0.05719159971
LDL receptor related protein 1	-0.09156997929
olfactomedin 2	-0.07172768839
RNA binding protein, mRNA processing factor 2	-0.14983218715
proteasome 20S subunit alpha 7	-0.04218110919
novel protein, readthrough between OAZ1 and SPPL2B	-0.0522870723
junction plakoglobin	0.10006530312
cAMP responsive element binding protein 1	0.03478414572
DDHD domain containing 1	0.04774910871
3'-phosphoadenosine 5'-phosphosulfate synthase 1	-0.04839239862
RRN3 homolog, RNA polymerase I transcription factor	0.04723783612
programmed cell death 1	0.08348817299
nucleoporin 210	0.03708981922
transmembrane protein 120B	0.04285544525
zinc finger protein 675	0.06205359228
hydroxysteroid dehydrogenase like 2	-0.05008557528
ARHGAP19-SLIT1 readthrough (NMD candidate)	0.07743810571
WD repeat domain 43	0.04738803345
methyl-CpG binding domain protein 1	0.02476845643
shieldin complex subunit 1	0.04170328183
Ral GTPase activating protein non-catalytic subunit beta	0.04038272247
RALBP1 associated Eps domain containing 1	0.0267650084
dopamine receptor D4	0.12019148077
ubiquinol-cytochrome c reductase complex assembly factor 1	0.03651796177
transmembrane protein 220	0.06694373645
FRA10A associated CGG repeat 1	0.05494214859
synaptonemal complex central element protein 2	0.12233843777
large 60S subunit nuclear export GTPase 1	0.03292950129
B cell linker	0.38074492572
cordon-bleu WH2 repeat protein like 1	0.44356329671
TNF receptor superfamily member 13B	0.64904205935
B cell scaffold protein with ankyrin repeats 1	0.40202066252
Fc receptor like A	0.5099931548
Fc receptor like 5	0.499192199
POU class 2 homeobox associating factor 1	0.45170104114
oxysterol binding protein like 10	0.46518102131
sialic acid binding Ig like lectin 6	0.53587841973
DENN domain containing 5B	0.43303003266
pleckstrin homology and RhoGEF domain containing G7	0.70561211968
BLK proto-oncogene, Src family tyrosine kinase	0.38416377624
collagen type IV alpha 4 chain	0.60067643802

SEL1L family member 3	0.23027689626
synaptopodin	0.50770267803
adaptor related protein complex 3 subunit beta 2	-0.8621428777
collagen type IV alpha 3 chain	0.52965905574
sarcospan	0.43610709441
RELB proto-oncogene, NF-kB subunit	-0.33100649726
G protein-coupled receptor 84	-0.86167615077
interferon lambda receptor 1	0.29338805195
paired box 5	0.38164411032
basic helix-loop-helix family member e41	0.6531457167
CD79a molecule	0.45043060086
TNF receptor superfamily member 13C	0.37106405376
CD177 molecule	-1.34330479513
membrane spanning 4-domains A1	0.43315469838
kringle containing transmembrane protein 1	-0.59971178431
complement C3	-0.49574597355
CD22 molecule	0.35607770023
mitogen-activated protein kinase kinase kinase 20	-0.34671488607
STEAP family member 1B	0.31497239817
E2F transcription factor 5	0.31587459418
BAF chromatin remodeling complex subunit BCL11A	0.21820652101
tetraspanin 13	0.36049265576
transcription factor 4	0.25500635871
RAR related orphan receptor C	0.35156271709
RAS guanyl releasing protein 3	0.30207617191
Spi-B transcription factor	0.40632125745
polypeptide N-acetylgalactosaminyltransferase 14	-0.61227537774
nuclear factor kappa B subunit 2	-0.24420744907
nuclear factor kappa B subunit 1	-0.14807911162
CD19 molecule	0.34707348182
toll like receptor 5	-0.43963605788
lysyl oxidase like 1	-0.41822471416
Ral GEF with PH domain and SH3 binding motif 2	0.23382431316
EBF transcription factor 1	0.38235368431
sodium voltage-gated channel alpha subunit 3	0.39735305096
CD72 molecule	0.2280587011
AF4/FMR2 family member 3	0.28848123816
glycoprotein M6A	0.52513265695
prepronociceptin	0.33259297806
cystatin F	-0.52578087425
tudor domain containing 9	-0.50948785465
leukotriene A4 hydrolase	-0.24898901122
adhesion G protein-coupled receptor E1	-0.38259028001
CD44 molecule (Indian blood group)	-0.22861818721
copine 5	0.34374559155
cell division cycle associated 7 like	0.24756853383

solute carrier family 38 member 11	0.36936734056
G protein subunit gamma 7	0.26603397241
tetraspanin 3	0.18433503578
niban apoptosis regulator 3	0.30131859084
cochlin	0.45353496393
zinc finger DHHC-type palmitoyltransferase 19	-0.76839526614
U6 snRNA biogenesis phosphodiesterase 1	-0.27163742193
interleukin 4 receptor	-0.330715374
reticulon 2	-0.31534085636
Fc receptor like 2	0.36886089089
chondroadherin	0.63057562332
N-ribosyldihydronicotinamide:quinone reductase 2	-0.27337621258
calpain 13	-0.72626570627
ADAM metallopeptidase domain 28	0.28772113438
major histocompatibility complex, class II, DO alpha	0.27366679052
kelch like family member 14	0.41708236544
hexokinase 3	-0.31442487336
LARGE xylosyl- and glucuronyltransferase 1	0.30282432441
ATP binding cassette subfamily B member 4	0.33381878649
Pim-3 proto-oncogene, serine/threonine kinase	-0.27050600507
ST3 beta-galactoside alpha-2,3-sialyltransferase 4	-0.35392334031
WEE1 G2 checkpoint kinase	0.26998306358
calcium voltage-gated channel subunit alpha1 E	-0.46535059616
zinc finger and BTB domain containing 32	0.45622076943
intercellular adhesion molecule 1	-0.28048929466
laminin subunit alpha 5	0.29737601395
marginal zone B and B1 cell specific protein	0.5577179739
INSC spindle orientation adaptor protein	-0.50673259387
5-oxoprolinase, ATP-hydrolysing	-0.47941414354
transmembrane protein 176B	-0.37878082012
alkaline phosphatase, biomineralization associated	-0.57114492727
cadherin EGF LAG seven-pass G-type receptor 1	0.30233256132
solute carrier family 2 member 3	-0.33015207488
folate receptor gamma	-0.3779762714
Janus kinase 3	-0.21824662227
phospholipid phosphatase 5	0.21028445312
SET binding protein 1	0.19835507222
basic leucine zipper ATF-like transcription factor	-0.21954330607
C-type lectin like 1	0.32107586479
integrin subunit beta 4	-0.57400721872
leukocyte receptor tyrosine kinase	0.33366708705
zinc finger protein 860	0.51355042938
RAB10, member RAS oncogene family	-0.11769647856
Fc fragment of IgA receptor	-0.34398925482
LIM domain kinase 2	-0.30235007662
prostate androgen-regulated mucin-like protein 1	0.37239259235

C-type lectin domain family 4 member F	0.70302364584
EMAP like 6	0.35437569265
neurotensin receptor 1	-0.42657514691
fatty acid 2-hydroxylase	0.46835587243
glycogenin 1	-0.36369685893
NFKB inhibitor zeta	-0.23620761663
FAM20A golgi associated secretory pathway pseudokinase	-0.81779204582
regulator of hemoglobinization and erythroid cell expansion	0.325100743
SWI/SNF related, matrix associated, actin dependent regulator of chro	-0.26133106925
solute carrier family 26 member 8	-0.44697970023
mitogen-activated protein kinase 14	-0.26318649312
mast cell expressed membrane protein 1	-0.55361483084
folistatin like 4	-0.82414549493
asialoglycoprotein receptor 2	-0.32948577023
SRY-box transcription factor 5	0.52164593598
interleukin 7	0.2928852058
interferon regulatory factor 4	0.26817174314
major histocompatibility complex, class II, DO beta	0.27550048693
TNF receptor associated factor 3	-0.15744580763
ring finger protein 207	-0.35533354976
uridine phosphorylase 1	-0.26716453841
SRSF protein kinase 1	-0.257853621
kinesin family member C3	-0.34564598071
DNA damage induced apoptosis suppressor	-0.3203744485
solute carrier family 37 member 3	-0.32340002741
pro-apoptotic WT1 regulator	0.25274177836
coronin 2B	0.40864659985
annexin A3	-0.48950039026
adrenomedullin	-0.4317768223
B and T lymphocyte associated	0.22346603342
cytokine dependent hematopoietic cell linker	0.3335346626
multiple C2 and transmembrane domain containing 1	-0.20003143479
testis expressed 9	0.29887655075
complement C3d receptor 2	0.28555366031
coiled-coil domain containing 50	0.21483110169
heparanase	-0.26762723653
myelin protein zero like 1	0.3343975926
N-terminal EF-hand calcium binding protein 1	-1.19206504645
multiple C2 and transmembrane domain containing 2	-0.25918839998
transmembrane protein 176A	-0.36525098299
signal transducing adaptor family member 1	0.24419610166
sialic acid binding Ig like lectin 9	-0.20713578609
glycogen phosphorylase L	-0.28330696951
alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferas	0.14617004375
major histocompatibility complex, class II, DQ alpha 1	0.24078484746
protein tyrosine phosphatase receptor type K	0.30553886295

integral membrane protein 2C	0.3496477151
cysteine rich transmembrane module containing 1	-0.32460922098
NLR family CARD domain containing 4	-0.26181890197
docking protein 4	-0.40093692504
kazrin, periplakin interacting protein	-0.29245324971
mast cell immunoglobulin like receptor 1	-0.23092149215
desmoplakin	0.44494820388
translocator protein	-0.27650793714
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	-0.31700534392
GRAM domain containing 1A	-0.18241490327
immunoglobulin like domain containing receptor 1	0.47876354969
prokineticin 2	-0.40572192144
dishevelled associated activator of morphogenesis 2	0.98216225494
kallikrein 1	0.50320650786
BCL6 transcription repressor	-0.33021092194
hydroxycarboxylic acid receptor 3	-0.33141700409
butyrophilin like 9	0.51956292122
transmembrane O-mannosyltransferase targeting cadherins 1	-0.36316872038
solute carrier family 17 member 9	0.20560243149
CD1c molecule	0.31511222639
CRACD like	0.36383783597
zinc finger protein 438	-0.24776364519
F-box and leucine rich repeat protein 5	-0.18006190786
leukocyte immunoglobulin like receptor A6	-0.24754685399
adipocyte plasma membrane associated protein	-0.25754098698
spermatid perinuclear RNA binding protein	0.17759989343
tetratricopeptide repeat domain 9	0.18498079193
interleukin 1 beta	-0.33695926582
RELT like 1	0.29082423052
HCK proto-oncogene, Src family tyrosine kinase	-0.18383955164
joining chain of multimeric IgA and IgM	0.62570177357
NLR family apoptosis inhibitory protein	-0.32154999642
leukocyte immunoglobulin like receptor A5	-0.33989870966
T cell leukemia/lymphoma 1A	0.30826564
coagulation factor V	-0.3171106265
dysferlin	-0.31366240877
DSN1 component of MIS12 kinetochore complex	0.16927817529
glutaminyI-tRNA amidotransferase subunit QRSL1	0.14316281574
N-sulfoglucosamine sulfohydrolase	-0.17698950924
GRAM domain containing 1C	0.45779466554
DNA damage regulated autophagy modulator 1	-0.15344438395
Fc fragment of IgE receptor Ig	-0.28125004273
USP6 N-terminal like	0.1491051943
GEN1 Holliday junction 5' flap endonuclease	0.19911811795
Rho guanine nucleotide exchange factor 4	0.32653284657
immunoglobulin lambda like polypeptide 5	0.34935653568

protein kinase C and casein kinase substrate in neurons 1	0.29653594141
interleukin 1 receptor associated kinase 2	-0.17593103102
methyltransferase like 9	-0.22187746624
transmembrane protein 156	0.15122131498
sorting nexin 22	0.23811965205
potassium voltage-gated channel subfamily H member 3	-0.26365377286
spermatogenesis and centriole associated 1	-0.38894702379
collagen type V alpha 3 chain	0.32260904145
angiopoietin 1	0.42221488169
growth differentiation factor 7	0.41181327124
TNF receptor associated factor 4	0.21834227087
complement C3b/C4b receptor 1 (Knops blood group)	-0.30132994039
muscle RAS oncogene homolog	-0.31635336098
ADAM metallopeptidase domain 9	-0.20422168594
ArfGAP with SH3 domain, ankyrin repeat and PH domain 1	-0.1699721278
zinc finger CCCH-type containing 12A	-0.14935557588
TNF alpha induced protein 6	-0.43352033782
flotillin 2	-0.2223153247
hydrogen voltage gated channel 1	0.14157021983
lamin B1	-0.27294681475
heparan sulfate-glucosamine 3-sulfotransferase 1	0.35314317295
collagen type IX alpha 2 chain	0.4041932959
MAX dimerization protein 3	-0.19950348665
calcium voltage-gated channel auxiliary subunit beta 4	0.44874699873
tectonin beta-propeller repeat containing 2	-0.22855165287
ArfGAP with GTPase domain, ankyrin repeat and PH domain 3	-0.15232951155
integrin subunit alpha 7	-0.54234645224
dual specificity phosphatase 3	-0.23383808328
ADAM metallopeptidase domain 12	0.28257955699
tigger transposable element derived 3	0.4050621663
quiescin sulfhydryl oxidase 2	0.13457176396
angiotensin II receptor associated protein	-0.17459227704
ATPase phospholipid transporting 9A (putative)	-0.41421997524
rhophilin associated tail protein 1 like	-0.23297319036
zinc finger protein 250	-0.16859361023
microsomal glutathione S-transferase 1	-0.22223973469
kinesin family member 1B	-0.21955668452
VPS9 domain containing 1	-0.2177401244
transcription termination factor 1	0.10492218124
dehydrogenase/reductase 13	-0.28343742927
KIT proto-oncogene, receptor tyrosine kinase	0.37644484406
HLF transcription factor, PAR bZIP family member	0.31109470147
RUNX family transcription factor 2	0.15879092197
TLE family member 1, transcriptional corepressor	0.24285423653
phospholipase B1	-0.27530973634
double PHD fingers 3	0.25655806783

solute carrier family 2 member 6	-0.21913420953
maltase-glucoamylase 2 (putative)	-0.35272869939
myotubularin related protein 11	-0.23106035153
dual specificity phosphatase 10	-0.16402059012
afadin, adherens junction formation factor	0.20385925239
ADP ribosylation factor GTPase activating protein 3	-0.106246201
integrin subunit alpha M	-0.20350952632
family with sequence similarity 111 member B	0.40207484608
beta-ureidopropionase 1	-0.32404916306
TNF receptor superfamily member 17	0.60271286398
flotillin 1	-0.19636608066
solute carrier family 5 member 9	0.45664108026
phosphate cytidylyltransferase 1, choline, alpha	-0.12186146668
PHD finger protein 21A	-0.17176557456
bone marrow stromal cell antigen 1	-0.19276200905
potassium inwardly rectifying channel subfamily J member 15	-0.28154764157
interferon gamma receptor 2	-0.14410264166
scavenger receptor class F member 1	-0.3230674482
pleckstrin	-0.15543141499
Jun proto-oncogene, AP-1 transcription factor subunit	0.24982779081
nuclear prelamin A recognition factor	-0.15975092488
secretory carrier membrane protein 5	0.3286929045
transcriptional repressor GATA binding 1	-0.19377926182
neuregulin 1	-0.34104280211
metal regulatory transcription factor 1	-0.16399543923
ring finger and WD repeat domain 3	0.07793302309
oncostatin M	-0.3778963122
chromosome 11 open reading frame 80	0.16465825872
cannabinoid receptor 2	0.17623704152
NFKB inhibitor epsilon	-0.20228264804
IKAROS family zinc finger 3	0.12113665098
membrane bound O-acyltransferase domain containing 2	-0.20625107822
5'-3' exoribonuclease 2	-0.11665511807
inhibitor of nuclear factor kappa B kinase subunit epsilon	-0.12768108756
teashirt zinc finger homeobox 3	-0.18900981898
coiled-coil serine rich protein 1	0.28046273104
signal peptide peptidase like 2A	-0.1033456572
Ras protein specific guanine nucleotide releasing factor 1	0.46130896595
signal transducer and activator of transcription 5B	-0.15201461179
myosin VC	0.32110638245
WD repeat domain 34	0.24829101195
dysbindin domain containing 1	0.28654599878
TAFA chemokine like family member 2	0.19861123041
protein kinase C delta	-0.1511976256
G protein-coupled receptor 19	0.24261828959
activator of transcription and developmental regulator AUTS2	0.17345042017

sperm associated antigen 1	0.19105817789
Fc fragment of IgE receptor II	0.23739733325
long intergenic non-protein coding RNA 2218	0.31846895388
G protein subunit alpha 15	-0.18869632814
glutamate rich 1	-0.11697516328
acyloxyacyl hydrolase	-0.12371762264
ST3 beta-galactoside alpha-2,3-sialyltransferase 2	-0.17257073185
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta	0.15168958005
interferon regulatory factor 8	0.13917366612
GDNF family receptor alpha 2	0.3070060999
S100 calcium binding protein A12	-0.43376451948
cAMP responsive element binding protein 5	-0.21143657423
sphingomyelin phosphodiesterase acid like 3A	-0.2154163888
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase	-0.30426160057
microtubule associated monooxygenase, calponin and LIM domain containing	0.1492320543
serpin family B member 1	-0.1817117656
niban apoptosis regulator 2	-0.21231154696
BAI1 associated protein 3	0.29396575259
Fc fragment of IgG receptor Ib	-0.40261722813
cornichon family AMPA receptor auxiliary protein 4	-0.17545283412
prostate transmembrane protein, androgen induced 1	0.21399366517
FERM, ARH/RhoGEF and pleckstrin domain protein 2	0.10928107286
prolyl 4-hydroxylase subunit alpha 2	-0.24486476926
lactamase beta	-0.17003443118
phosphatidylglycerophosphate synthase 1	-0.19997659647
Yip1 domain family member 1	-0.13373831856
DnaJ heat shock protein family (Hsp40) member B5	0.31818779506
immunoglobulin heavy variable 4-38-2-like	0.56271995276
SLAM family member 6	0.12527440998
katanin catalytic subunit A1 like 1	0.16581678796
SH3KBP1 binding protein 1	-0.19079019129
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1N (putative)	-0.22879338165
CD180 molecule	0.19835048467
pleckstrin homology and RhoGEF domain containing G1	0.2160958083
derlin 3	0.32682179631
aldehyde dehydrogenase 1 family member A2	-0.27834402838
small glutamine rich tetratricopeptide repeat containing beta	-0.12372566331
acyl-CoA synthetase long chain family member 1	-0.27676887521
tectonic family member 1	0.18267148212
deoxyribonuclease 1 like 3	0.40202941059
LDL receptor related protein associated protein 1	-0.13055642228
arachidonate 5-lipoxygenase	-0.17414259094
RAB32, member RAS oncogene family	-0.19861852368
CXXC finger protein 5	0.1391762515
fermitin family member 3	-0.15765554328
CD200 molecule	0.25502496322

CD36 molecule	-0.23346958705
FA complementation group D2	0.11411894894
kinesin family member 27	0.2847876302
phospholipase B domain containing 1	-0.18892273526
kinase non-catalytic C-lobe domain containing 1	-0.3266343912
zinc finger protein 518B	0.12254665586
steroid receptor RNA activator 1	-0.13069413745
adhesion G protein-coupled receptor G3	-0.27079607402
peptidyl arginine deiminase 2	-0.2275245771
BCL3 transcription coactivator	-0.25108769838
tyrosylprotein sulfotransferase 1	0.43366273379
LIM domain kinase 1	-0.22333241027
zinc finger protein 254	-0.19377137893
C-type lectin domain containing 17A	0.2052138668
thioredoxin interacting protein	0.19199359898
ral guanine nucleotide dissociation stimulator like 4	-0.2424255048
carbonic anhydrase 4	-0.29845382448
CDK5 regulatory subunit associated protein 2	-0.15950611728
BAF chromatin remodeling complex subunit BCL7A	0.17507864003
chromosome 16 open reading frame 70	-0.09160409853
eukaryotic translation initiation factor 2 alpha kinase 3	0.11008198157
semaphorin 4A	-0.18300123445
zinc finger protein 93	0.15164310642
major histocompatibility complex, class II, DQ alpha 2	0.22605056295
solute carrier family 22 member 4	-0.21304308725
switching B cell complex subunit SWAP70	0.1218804811
bone morphogenetic protein 8a	0.4365416381
signaling lymphocytic activation molecule family member 1	0.14102930294
docking protein 7	0.38269835847
endothelin converting enzyme 1	-0.15731700024
CEA cell adhesion molecule 3	-0.19147679133
phospholipase D family member 4	0.25017919173
acetyl-CoA acyltransferase 1	-0.10287261162
nibrin	-0.17399987329
hydroxycarboxylic acid receptor 2	-0.25082508126
formin homology 2 domain containing 1	-0.11183994849
thyroid hormone receptor interactor 13	0.42554764904
poly(ADP-ribose) polymerase 1	0.10519773136
syndecan 2	0.44909397888
osteoclast associated Ig-like receptor	-0.17322122878
minichromosome maintenance complex component 5	0.11523473407
synoviolin 1	0.09331058639
complement C3a receptor 1	-0.25359608995
CD274 molecule	-0.4726517691
myosin X	-0.32707055596
TNF alpha induced protein 3	-0.177983025

solute carrier family 46 member 2	-0.223504965
major histocompatibility complex, class II, DQ beta 2	0.22628794916
CD80 molecule	0.37094748388
neutrophil cytosolic factor 4	-0.17373629524
monooxygenase DBH like 1	0.36698438261
PBX homeobox interacting protein 1	0.13703688956
suppressor of cytokine signaling 3	-0.36651262878
GLI pathogenesis related 2	-0.13902183959
S100 calcium binding protein A9	-0.26647584168
DNA topoisomerase II alpha	0.34255541785
NFKB inhibitor delta	-0.10639105086
sorting nexin 25	0.136146537
microtubule crosslinking factor 1	0.32997805572
elastin microfibril interfacier 2	-0.18369479432
G0/G1 switch 2	-0.4966729583
calcineurin binding protein 1	0.13261787921
neuropilin and tolloid like 1	0.37246034354
Fc fragment of IgG receptor IIa	-0.18669315362
EF-hand calcium binding domain 2	-0.22507861707
tumor protein p53 inducible protein 11	-0.25637493274
protein tyrosine phosphatase non-receptor type 13	0.21639445868
Fc fragment of IgG receptor Ia	-0.46338735429
collagen beta(1-O)galactosyltransferase 1	-0.11325928525
harakiri, BCL2 interacting protein	0.38866789221
ficolin 1	-0.16588978483
tumor protein D52	0.20408321319
MDM2 proto-oncogene	0.16971285945
transmembrane and coiled-coil domains 3	-0.16138798445
lysophosphatidylcholine acyltransferase 3	-0.13333513716
serpin family B member 6	-0.0888134826
fucosyltransferase 8	0.12373180334
exoribonuclease 1	-0.16994197247
thyroid hormone receptor beta	0.31415614621
mannose receptor C-type 1	0.35780471067
methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formylte	0.11725332272
ankyrin repeat and ubiquitin domain containing 1	0.25066878559
cyclin and CBS domain divalent metal cation transport mediator 4	0.09138742305
vav guanine nucleotide exchange factor 2	0.13116623859
haptoglobin	-0.44569619623
insulin like 3	-0.23292197077
FGR proto-oncogene, Src family tyrosine kinase	-0.13740080387
Fc fragment of IgM receptor	0.12410018623
von Willebrand factor A domain containing 5A	-0.13771276416
lysozyme	-0.18308396479
exonuclease 5	0.20002088783
adhesion G protein-coupled receptor E2	-0.16893361408

family with sequence similarity 167 member A	0.25083828498
minichromosome maintenance complex component 2	0.19945213281
folliculin like 3	-0.21584223696
tyrosylprotein sulfotransferase 2	-0.12876076574
dynein axonemal heavy chain 8	0.3455476807
piwi like RNA-mediated gene silencing 4	-0.18362237808
zinc finger DHHC-type palmitoyltransferase 23	0.20490399291
centromere protein F	0.27813426862
asialoglycoprotein receptor 1	-0.22454401388
glutamic--pyruvic transaminase 2	0.23940870516
RFT1 homolog	-0.11050510428
tribbles pseudokinase 2	0.15650658513
RNA binding motif single stranded interacting protein 1	-0.08479119293
family with sequence similarity 160 member A2	-0.12442424694
coenzyme Q2, polyprenyltransferase	-0.13604246413
solute carrier family 25 member 44	-0.15528051052
chromosome 19 open reading frame 38	-0.16002874877
putative homeodomain transcription factor 1	-0.18188545487
RPGR interacting protein 1	0.24083994201
C-X-C motif chemokine receptor 5	0.19394905385
solute carrier family 12 member 9	-0.13664366014
aldehyde dehydrogenase 2 family member	-0.15768329159
Rho related BTB domain containing 2	0.15254574054
transmembrane protein 260	-0.15188481987
pipecolic acid and sarcosine oxidase	-0.12028697893
NDC80 kinetochore complex component	0.24174662526
	0.54290605574
TNF receptor superfamily member 10d	-0.12862907674
novel protein	-0.17442412065
dachshund family transcription factor 1	-0.23088858834
plexin C1	-0.15429417423
single stranded DNA binding protein 2	0.09640479259
C9orf72-SMCR8 complex subunit	-0.15848306831
myosin ID	0.14671663933
ADAM metalloproteinase domain 8	-0.13970818454
peptidoglycan recognition protein 1	-0.3428486727
junction adhesion molecule like	-0.1200302753
ornithine aminotransferase	-0.14702435834
CD58 molecule	-0.11904933671
macrophage erythroblast attachment, E3 ubiquitin ligase	-0.10755575551
ST6 beta-galactoside alpha-2,6-sialyltransferase 1	0.07637717386
translocase of outer mitochondrial membrane 40 like	-0.14432857688
calcium/calmodulin dependent protein kinase kinase 2	-0.13561195754
TBC1 domain family member 8	-0.19786625352
mitogen-activated protein kinase kinase kinase kinase 1	0.11129628301
glycine amidinotransferase	0.20403832859

BEN domain containing 4	0.26454186086
MYB proto-oncogene like 2	0.35696150125
Ras association domain family member 4	-0.15108418298
solute carrier family 9 member A8	-0.14681389714
MET transcriptional regulator MACC1	0.31909128005
glutaminyl-peptide cyclotransferase	-0.22777807552
JunB proto-oncogene, AP-1 transcription factor subunit	-0.19497782708
solute carrier family 2 member 14	-0.3128222586
transmembrane protein 45B	-0.19758831989
serine palmitoyltransferase small subunit B	0.34717209371
transmembrane protein 165	-0.13345956056
ChaC glutathione specific gamma-glutamylcyclotransferase 2	0.24246716545
P2RX5-TAX1BP3 readthrough (NMD candidate)	0.28316435335
dishevelled associated activator of morphogenesis 1	0.09902995281
interleukin 17 receptor E	0.25489276362
golgi associated kinase 1B	-0.21976632273
vanin 2	-0.20843698275
dystrotelin	-0.42873148018
transmembrane O-mannosyltransferase targeting cadherins 2	-0.16940544323
protocadherin 9	0.26190511096
cytoskeleton associated protein 4	-0.20704109645
target of myb1 membrane trafficking protein	-0.11919983479
solute carrier family 4 member 10	0.26696133562
histamine N-methyltransferase	-0.1888745349
dehydrogenase/reductase 7B	-0.09284800428
DnaJ heat shock protein family (Hsp40) member C5	-0.10039053764
cell division cycle associated 7	0.27388651479
WD repeat and FYVE domain containing 3	-0.19614503258
enamelin	0.59679360878
solute carrier family 49 member 4	-0.15556517815
RUN and SH3 domain containing 2	-0.17787325548
G protein-coupled receptor class C group 5 member D	0.50778423858
timeless circadian regulator	0.13878303345
caveolin 1	0.50483369189
C-X3-C motif chemokine receptor 1	-0.20231933243
macrophage receptor with collagenous structure	-0.28302181448
CAP-Gly domain containing linker protein 1	-0.09665873716
KH RNA binding domain containing, signal transduction associated 2	0.18948367434
mitochondrial calcium uptake 1	-0.09863687933
myocyte enhancer factor 2C	0.10592260736
radial spoke head component 9	-0.37187048668
alkaline ceramidase 3	-0.12520849062
aquaporin 9	-0.20837511935
ATPase H ⁺ transporting V1 subunit C1	-0.1320195743
transmembrane protein 144	-0.22131912068
docking protein 3	-0.19455050811

myristoylated alanine rich protein kinase C substrate	-0.21530906047
ZFP36 ring finger protein like 1	-0.16052356663
carbohydrate sulfotransferase 2	-0.21709241257
amyloid beta precursor protein binding family B member 1 interacting pr	-0.12785629422
Rap guanine nucleotide exchange factor 5	0.39580873982
BH3 interacting domain death agonist	-0.11774885788
tumor protein p63	0.3367957077
beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferas	0.19242806375
EH domain binding protein 1 like 1	-0.12471601605
CD48 molecule	-0.12851340671
RCC1 and BTB domain containing protein 2	-0.12399946702
phosphoglucomutase 1	-0.13579753286
complement C1r subcomponent like	-0.12631118991
ezrin	0.08142287095
cellular communication network factor 3	0.34547515973
vanin 1	-0.25974684591
small ArfGAP2	0.20574926485
nucleolar protein 3	-0.209692835
interleukin 12 receptor subunit beta 2	0.20266715115
perilipin 4	-0.22643903962
immediate early response 3	-0.18256156948
Fc fragment of IgG receptor IIb	0.15636151956
CD14 molecule	-0.21426948455
kinesin family member 11	0.26046751913
peptidase inhibitor 3	-0.43321807859
leukocyte immunoglobulin like receptor A4	0.33687362036
nuclear GTPase, germinal center associated	0.18427780555
structural maintenance of chromosomes 4	0.15779620359
EH domain containing 1	-0.1666537756
paternally expressed 10	0.29070321261
strawberry notch homolog 2	-0.15927802466
Fc receptor like 1	0.2312464099
phospholipid scramblase 2	-0.31460707252
ADAM metallopeptidase with thrombospondin type 1 motif 10	-0.14331375521
lysophospholipase 1	-0.10368988637
solute carrier family 51 subunit alpha	-0.32579128186
vav guanine nucleotide exchange factor 1	-0.09908517043
LIM domains containing 1	0.07957535757
neurobeachin like 2	-0.1377657058
sideroflexin 5	-0.13333813107
galectin 2	-0.24183343663
adenosine monophosphate deaminase 3	-0.10955521545
VAMP associated protein A	-0.12583954972
syndecan 4	-0.24243371161
sorting nexin family member 21	-0.16892351003
C-X-C motif chemokine receptor 6	0.27369183835

protein kinase C epsilon	0.19165431253
UTP6 small subunit processome component	0.096902297
SOS Ras/Rho guanine nucleotide exchange factor 2	-0.11892541487
synaptojanin 2	0.10187853676
solute carrier family 24 member 4	-0.16047726538
slingshot protein phosphatase 1	-0.13907380352
UDP glycosyltransferase 8	0.26934891655
cytochrome b-245 chaperone 1	-0.11317087872
lin-7 homolog A, crumbs cell polarity complex component	-0.14456277505
thioredoxin domain containing 11	0.09284638629
assembly factor for spindle microtubules	0.3529701178
phosphogluconate dehydrogenase	-0.18564096946
androgen induced 1	-0.12343515152
STEAP4 metalloredutase	-0.19639964573
lysophosphatidic acid receptor 1	-0.18985678851
solute carrier family 39 member 8	-0.12876618444
whirlin	0.18792569705
shugoshin 1	0.24451017861
transcription elongation factor A3	-0.15922343422
proline-serine-threonine phosphatase interacting protein 2	-0.24737687119
transient receptor potential cation channel subfamily M member 2	-0.18809261059
TNF receptor superfamily member 21	0.28074143453
FERM domain containing 4B	-0.13676472288
amine oxidase copper containing 1	-0.35701617498
resistin	-0.34217548613
phosphodiesterase 1B	-0.12395595965
glycerol-3-phosphate acyltransferase 3	-0.1433333649
RAB27A, member RAS oncogene family	-0.10372696089
hepsin	-0.34402091627
nuclear factor, erythroid 2 like 3	-0.14979780354
discs large MAGUK scaffold protein 4	-0.14636660065
TNFAIP3 interacting protein 1	-0.16197284668
calmin	-0.13302268319
hyaluronidase 2	-0.18169158375
solute carrier family 16 member 6	-0.10528006184
solute carrier family 41 member 2	0.25079939629
caspase 4	-0.15958826087
ubiquitin specific peptidase 46	0.13091795355
matrix metallopeptidase 9	-0.36722357426
pyruvate kinase M1/2	-0.14722290668
sodium voltage-gated channel beta subunit 1	-0.22350563362
zinc finger DHHC-type palmitoyltransferase 21	0.16632006193
dehydrogenase/reductase 3	-0.12660277737
phorbol-12-myristate-13-acetate-induced protein 1	0.23738743508
chromosome 16 open reading frame 74	0.1485329843
solute carrier family 9 member A1	-0.12357327588

protein tyrosine phosphatase receptor type E	-0.10671408646
G protein-coupled receptor kinase 5	0.08206297901
integrin subunit alpha X	-0.15960667503
ribonuclease A family member k6	0.18915773442
protein phosphatase 4 regulatory subunit 2	-0.12767176932
TSPY like 1	0.07528430074
marker of proliferation Ki-67	0.32675489255
niban apoptosis regulator 1	-0.17912652706
zinc finger protein 532	0.12938320727
RAB20, member RAS oncogene family	-0.23423817365
G kinase anchoring protein 1	0.14737969073
protein inhibitor of activated STAT 2	0.15593065061
ATPase phospholipid transporting 11B (putative)	-0.13197061418
cytochrome P450 family 27 subfamily A member 1	-0.19240437431
homer scaffold protein 3	-0.17352499582
cytoplasmic FMR1 interacting protein 1	-0.1453385839
collagen type XIX alpha 1 chain	0.18220360143
G protein-coupled receptor 35	-0.12578785449
small integral membrane protein 14	0.07483732201
cAMP-dependent protein kinase inhibitor gamma	0.1524158296
minichromosome maintenance complex binding protein	-0.09157725691
family with sequence similarity 151 member B	-0.15708873193
TBC1 domain family member 2	-0.11037925248
DENN domain containing 5A	-0.12074364824
transmembrane protein 185B	-0.11669383762
glycine decarboxylase	0.47491028191
interleukin 17 receptor A	-0.12569388293
kelch repeat and BTB domain containing 8	0.18504939592
versican	-0.20658820764
ependymin related 1	-0.20191083822
perilipin 5	-0.19619526077
coiled-coil domain containing 57	-0.09971082738
non-SMC condensin I complex subunit G	0.36601226719
saccharopine dehydrogenase (putative)	-0.13363086434
neuritin 1	-0.39236311468
integrin subunit beta 2	-0.11650228661
spermatogenesis associated 6	0.20348374786
solute carrier family 35 member F2	0.15224386169
myotubularin related protein 12	0.08846801995
ATP/GTP binding protein 1	-0.12697683603
BRCA2 DNA repair associated	0.2357968995
zinc finger protein 107	0.17899626774
alanyl aminopeptidase, membrane	-0.19485263045
myosin phosphatase Rho interacting protein	0.09176214998
nuclear factor, erythroid 2 like 2	-0.09349531104
cell division cycle 6	0.30334681626

glutamate-cysteine ligase modifier subunit	-0.11644278544
brain abundant membrane attached signal protein 1	-0.23427016502
BUB1 mitotic checkpoint serine/threonine kinase	0.30697583613
asparaginase and isoaspartyl peptidase 1	-0.13087090923
glutamate ionotropic receptor NMDA type subunit associated protein 1	-0.25280736531
beta-1,3-galactosyltransferase 2	0.28286525357
rabphilin 3A	-0.31676230505
fms related receptor tyrosine kinase 3	0.34564854389
interleukin 27	-0.34220165048
C-C motif chemokine receptor 5 (gene/pseudogene)	0.17231722066
cytohesin 4	-0.12283945717
SLIT-ROBO Rho GTPase activating protein 2	0.18108115648
transient receptor potential cation channel subfamily V member 4	-0.27493041487
dihydropyrimidine dehydrogenase	-0.10955955223
prostaglandin E receptor 4	0.13674540506
plasminogen activator, urokinase	-0.2806277787
lipocalin 8	0.34439310537
KIAA0825	-0.17315577852
tubulin polymerization promoting protein	0.22504848311
androgen dependent TFPI regulating protein	-0.17243789705
lysosomal associated membrane protein family member 5	0.26370466032
ATP binding cassette subfamily C member 3	-0.19593425404
PARP1 binding protein	0.19146560923
steroid 5 alpha-reductase 1	-0.11539248449
radial spoke head 3	0.1189005676
major histocompatibility complex, class II, DQ beta 1	0.15080141072
zinc finger DHHC-type palmitoyltransferase 20	-0.1200571952
SET binding factor 2	-0.1361055817
proteasome 20S subunit alpha 1	0.13160416485
BLM RecQ like helicase	0.12228260369
tenascin R	0.3272044022
fatty acyl-CoA reductase 1	-0.12866275106
nicotinamide phosphoribosyltransferase	-0.19014356009
prolylcarboxypeptidase	-0.1047653761
guanylate cyclase 2D, retinal	0.32322704801
desmocollin 2	-0.20540991972
leptin receptor overlapping transcript like 1	0.07367829439
quiescin sulfhydryl oxidase 1	-0.12284910498
myosin IB	0.2982228239
CD244 molecule	-0.1189650857
zinc finger protein 90	0.20802112089
CD79b molecule	0.25193824105
TNF receptor associated factor 5	0.11531261279
superoxide dismutase 2	-0.18366499372
cell division cycle associated 8	0.19987925948
maltase-glucoamylase	-0.2386425287

zinc finger protein 319	-0.14260922539
G2 and S-phase expressed 1	0.25820577044
protein phosphatase 1 regulatory subunit 3B	-0.18413112749
FLVCR heme transporter 2	-0.21727423722
programmed cell death 1 ligand 2	-0.43500596686
LARGE xylosyl- and glucuronyltransferase 2	0.18257820892
intraflagellar transport 57	0.15419963641
dual specificity tyrosine phosphorylation regulated kinase 4	0.26523475333
lymphocyte transmembrane adaptor 1	0.10517392184
MAPK interacting serine/threonine kinase 1	-0.13325231743
phospholipase A2 group VII	-0.22378226521
CGRP receptor component	0.09815732194
TBC1 domain family member 2B	-0.09154846977
plexin D1	-0.12875546546
WD repeat and SOCS box containing 1	-0.13403856512
coiled-coil and C2 domain containing 2B	-0.15754759405
NLR family pyrin domain containing 12	-0.14444677885
CD300e molecule	-0.21530444438
Ras association domain family member 6	0.32082239428
caspase recruitment domain family member 6	-0.15676401059
solute carrier family 38 member 1	0.12339467748
signal induced proliferation associated 1 like 3	0.09820007446
plasminogen activator, urokinase receptor	-0.14962576848
fibronectin type III domain containing 3B	-0.13707772779
kinetochore scaffold 1	0.23642944167
jade family PHD finger 2	0.09448934972
novel protein	-0.16351413709
huntingtin interacting protein 1 related	0.11385230141
BORCS8-MEF2B readthrough	-0.11885715364
centrosomal protein 55	0.36924287846
X-C motif chemokine receptor 1	0.40031105231
RNA binding motif protein 8A	0.06751859796
caspase recruitment domain family member 19	-0.10009509522
nescient helix-loop-helix 1	-0.20413863539
galectin 8	-0.09834261675
THO complex 5	-0.10450166306
grancalcin	-0.18162603511
solute carrier family 16 member 4	-0.19002892193
uronyl 2-sulfotransferase	0.11609741719
Holliday junction recognition protein	0.35626810159
plexin B2	-0.16669657846
ribosomal RNA processing 12 homolog	-0.13035452526
kinetochore associated 1	0.11628848553
cut like homeobox 1	-0.11920504192
zinc finger and SCAN domain containing 18	0.11870719304
reticulon 4	-0.07980235845

solute carrier organic anion transporter family member 3A1	-0.10201869026
solute carrier family 35 member E3	0.14333702773
glycolipid transfer protein	-0.090129483
protein tyrosine phosphatase receptor type S	0.19564598974
zinc finger MIZ-type containing 1	0.11733395148
RAS related	-0.18614566265
endoplasmic reticulum to nucleus signaling 1	0.1380138964
zinc finger and BTB domain containing 7B	-0.12134839074
inositol-tetrakisphosphate 1-kinase	0.14901692841
purinergic receptor P2X 7	-0.1474359846
syntaxin binding protein 1	-0.14457333
phospholipase D2	-0.10186466023
DNA polymerase eta	0.07346533561
kynureninase	-0.16336180156
interferon alpha and beta receptor subunit 1	-0.11389156897
potassium calcium-activated channel subfamily N member 3	0.3115989588
ATP binding cassette subfamily G member 1	0.18322347953
glycosyltransferase 1 domain containing 1	-0.15192306215
CD55 molecule (Cromer blood group)	-0.14689547586
microtubule interacting and trafficking domain containing 1	-0.11248030511
amyloid beta precursor protein binding family B member 3	-0.10238575858
putative homeodomain transcription factor 2	0.10422329339
CDC42 effector protein 3	-0.14515085236
RAD23 homolog B, nucleotide excision repair protein	-0.09621440752
golgi associated, gamma adaptin ear containing, ARF binding protein 2	0.07056812492
glutathione peroxidase 3	0.30058902781
CD82 molecule	-0.14215294711
novel protein	-0.14734913205
kinesin family member 5C	0.13146299487
toll like receptor 1	-0.1348689871
lysophosphatidylcholine acyltransferase 2	-0.14956309703
forkhead box M1	0.30553005269
minichromosome maintenance complex component 4	0.17226111563
perilipin 3	-0.1501979242
N-acetylneuraminate pyruvate lyase	-0.12493095485
pyruvate dehydrogenase phosphatase regulatory subunit	0.05582936629
potassium voltage-gated channel subfamily H member 8	0.21026512665
BTB domain containing 11	0.11422169772
alpha kinase 1	-0.14951055462
tumor protein p53 inducible nuclear protein 2	0.24607465519
membrane associated ring-CH-type finger 5	-0.07740428062
absent in melanoma 2	-0.27681997141
cyclin B1	0.24956121033
major facilitator superfamily domain containing 14B	-0.11119973419
free fatty acid receptor 2	-0.19482682498
armadillo like helical domain containing 1	-0.11947136301

musculin	0.2539922493
fatty acyl-CoA reductase 2	0.16671173369
diacylglycerol O-acyltransferase 2	-0.18198194051
hook microtubule tethering protein 2	-0.11362721665
influenza virus NS1A binding protein	-0.11167957914
proprotein convertase subtilisin/kexin type 5	-0.1015973302
ATPase 13A3	-0.12841066359
FIC domain protein adenylyltransferase	0.11414284441
legumain	0.14344915365
BAG cochaperone 5	0.0652825564
zinc finger protein 737	0.13009928174
cathepsin K	-0.09979383419
deltex E3 ubiquitin ligase 4	0.19398286336
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta	-0.07616795383
autophagy related 7	-0.11532124251
DLG associated protein 5	0.38038643841
zinc finger protein 316	-0.08754081024
zinc finger protein 276	-0.07146871504
zinc finger protein 106	-0.08591109907
centromere protein E	0.22547865647
phospholipid scramblase 1	-0.27204190557
SLIT-ROBO Rho GTPase activating protein 2C	0.16636344081
claspin	0.22075609291
latexin	0.12954668724
G protein-coupled receptor 65	-0.12635393742
solute carrier family 12 member 2	0.11006741647
xylosyltransferase 1	0.10359484629
SEC22 homolog B, vesicle trafficking protein (gene/pseudogene)	-0.08229109747
p53 apoptosis effector related to PMP22	0.21113383017
leukocyte immunoglobulin like receptor B3	-0.13492850152
fuzzy planar cell polarity protein	0.13011271443
jumonji domain containing 6, arginine demethylase and lysine hydroxyl	-0.08768261318
transmembrane 9 superfamily member 4	-0.0676951868
fibroblast growth factor receptor like 1	-0.13408111526
solute carrier family 8 member B1	-0.06543936218
PHD finger protein 24	0.42456199698
UDP-N-acetylglucosamine pyrophosphorylase 1	0.12616764275
zinc finger protein 215	0.34914474182
coiled-coil domain containing 149	-0.11887672617
fem-1 homolog C	-0.11546424141
anti-silencing function 1B histone chaperone	0.19428252279
calcium voltage-gated channel auxiliary subunit alpha2delta 4	-0.09551346628
La ribonucleoprotein 1B	0.15657728253
interleukin 10 receptor subunit beta	-0.14300306408
EF-hand domain containing 1	0.10870732044
ATPase secretory pathway Ca ²⁺ transporting 2	-0.30790630509

sulfotransferase family 1B member 1	-0.17797098608
dedicator of cytokinesis 4	-0.26415853568
NEDD4 binding protein 1	-0.10908355976
C-type lectin domain containing 5A	-0.21856716551
DnaJ heat shock protein family (Hsp40) member C3	-0.10955976822
mal, T cell differentiation protein	-0.14448992589
non-SMC condensin II complex subunit G2	0.10788131072
V-set pre-B cell surrogate light chain 3	0.24408912108
PNKD metallo-beta-lactamase domain containing	-0.1169508074
Cdk5 and Abl enzyme substrate 2	0.10564450248
ubiquitin specific peptidase 28	0.09663185072
HIVEP zinc finger 1	-0.1017547992
CD151 molecule (Raph blood group)	-0.16921801629
pseudouridine synthase 7	0.11125523123
pyridoxal kinase	-0.08785013111
secreted phosphoprotein 1	0.38305827699
guanosine monophosphate reductase 2	-0.08327265578
ring finger protein 122	0.12296215271
V-set and transmembrane domain containing 1	-0.15155922125
rabaptin, RAB GTPase binding effector protein 2	0.08564856546
major histocompatibility complex, class II, DP beta 1	0.14037235165
cytochrome p450 oxidoreductase	-0.13218654136
lysosomal protein transmembrane 4 alpha	-0.09031539294
RAS related 2	0.11329488107
programmed cell death 4	0.05962317596
villin like	-0.07945748474
enolase 1	-0.12085385132
GTP cyclohydrolase 1	-0.19066233533
acyl-CoA binding domain containing 3	0.05159262538
Rho GTPase activating protein 42	0.25983688773
ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	-0.08863518685
inositol polyphosphate phosphatase like 1	-0.07806252149
solute carrier family 26 member 11	-0.11916589337
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1K	0.1272560446
fatty acid desaturase 1	-0.14715651937
cell division cycle 20	0.4006602226
family with sequence similarity 126 member B	-0.14606753803
Rap guanine nucleotide exchange factor like 1	-0.11959180254
C3 and PZP like alpha-2-macroglobulin domain containing 8	-0.15706433512
TPX2 microtubule nucleation factor	0.28192201416
thrombospondin type laminin G domain and EAR repeats	0.32891624848
C-type lectin domain family 4 member D	-0.24665789424
out at first homolog	-0.14625765522
cathepsin A	-0.13935126135
cation channel sperm associated 1	-0.18685804229
spindle and kinetochore associated complex subunit 1	0.33875251556

EF-hand domain family member D2	-0.12571677487
GIN5 complex subunit 4	0.17264343857
kinesin family member C1	0.28174792562
ribonucleotide reductase catalytic subunit M1	0.08699957663
photoreceptor disc component	0.2840174409
mono-ADP ribosylhydrolase 2	0.31069348365
kelch like family member 5	-0.07922051754
brain protein I3	-0.11699730174
KIAA0930	-0.12442932679
cathepsin H	-0.11429367549
spindle and kinetochore associated complex subunit 3	0.35273768873
tetratricopeptide repeat domain 21A	0.21144792082
solute carrier family 12 member 3	0.30552708347
NCK associated protein 5 like	-0.10386517661
chitinase 3 like 1	0.28473268339
kinesin family member 18A	0.28984290125
olfactomedin 1	-0.23804462084
protein disulfide isomerase family A member 4	0.11275411653
ubiquitin conjugating enzyme E2 D1	-0.13411250875
serpin family A member 1	-0.14143491686
myosin binding protein H	0.31995707242
very low density lipoprotein receptor	-0.20183110862
adenylate kinase 4	-0.29986633243
fucosyltransferase 7	-0.19019176976
nuclear envelope integral membrane protein 1	0.10448840849
amine oxidase copper containing 2	0.17539568061
low density lipoprotein receptor	-0.14908118454
chromatin assembly factor 1 subunit A	0.09372859649
formyl peptide receptor 3	0.24348453571
translocation associated membrane protein 2	0.09054346192
matrix metalloproteinase 25	-0.14936253792
RAB30, member RAS oncogene family	0.16361674585
ATPase family AAA domain containing 5	0.13433085293
opioid growth factor receptor like 1	0.13277834326
oocyte secreted protein family member 3	-0.24620349871
nucleotide binding oligomerization domain containing 2	-0.13038864668
histone deacetylase 4	-0.12245462193
glycerol-3-phosphate acyltransferase 4	-0.0682551744
TATA-box binding protein associated factor 4b	0.11003055575
synaptogyrin 1	-0.13062340189
regulator of G protein signaling 3	-0.11052258009
mannosidase alpha class 1C member 1	-0.10338737405
glutathione S-transferase kappa 1	-0.08021477376
ubiquitin like with PHD and ring finger domains 2	0.08128904127
hedgehog acyltransferase	0.1188950868
ribonucleotide reductase regulatory subunit M2	0.27648874807

kinesin family member 20B	0.13434075909
MTSS I-BAR domain containing 1	0.1048702853
hyaluronan mediated motility receptor	0.33941900809
DEAH-box helicase 32 (putative)	-0.0731788155
ubiquitin associated protein 2	0.07811671835
zinc finger protein 33A	0.09689565467
zinc finger protein 697	-0.14661099251
centrosomal protein 128	0.10802033385
TRAF interacting protein with forkhead associated domain	-0.19084939995
FKBP prolyl isomerase 15	-0.0794643076
FA core complex associated protein 24	0.18310976299
phosphatidylinositol binding clathrin assembly protein	-0.09423352876
OTU deubiquitinase with linear linkage specificity like	-0.08863754217
solute carrier family 26 member 6	-0.12677981771
RAS guanyl releasing protein 4	-0.12065371748
interleukin 1 receptor associated kinase 3	-0.17737836088
ring finger protein 24	-0.138037774
HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2	0.18082587025
ZFP36 ring finger protein like 2	0.09744170325
plakophilin 4	0.09238265773
coiled-coil domain containing 167	0.12190519637
EF-hand calcium binding domain 12	-0.13837743199
calpastatin	-0.0668133536
adaptor related protein complex 3 subunit sigma 2	-0.10543494879
homeostatic iron regulator	-0.13321919231
transmembrane protein 273	0.13644974512
ubiquitin associated protein 1	-0.10322983133
TNF superfamily member 15	-0.25748374541
interleukin 1 receptor antagonist	-0.23583246301
BUB1 mitotic checkpoint serine/threonine kinase B	0.32732933359
transmembrane and coiled-coil domain family 1	0.14255078825
extra spindle pole bodies like 1, separase	0.26567685733
fragile histidine triad diadenosine triphosphatase	-0.11722056917
heat shock protein family A (Hsp70) member 12A	0.25388541582
SREBF chaperone	0.09176601123
S100 calcium binding protein A8	-0.28393381046
syntaxin 12	-0.05684489354
BICD cargo adaptor 1	0.09064633513
glyceraldehyde-3-phosphate dehydrogenase	-0.14630547781
novel protein, TPD52-MRPS28 readthrough	0.25670751446
CCAAT enhancer binding protein alpha	-0.17138544793
sialic acid binding Ig like lectin 12 (gene/pseudogene)	0.31524156995
HtrA serine peptidase 1	-0.31253902269
guanylate binding protein 2	-0.17313367325
lysine acetyltransferase 2A	0.08450083744
solute carrier family 25 member 40	-0.11321625321

synapsin III	0.23838628001
sorcin	-0.07455544575
FOS like 2, AP-1 transcription factor subunit	-0.13972973742
chromosome 10 open reading frame 105	0.18471570606
chimerin 1	0.17536606799
migration and invasion inhibitory protein	-0.11837393436
protein-L-isoaspartate (D-aspartate) O-methyltransferase	-0.08724508632
malic enzyme 2	-0.06435177031
exostosin glycosyltransferase 1	-0.14948804566
late endosomal/lysosomal adaptor, MAPK and MTOR activator 1	-0.08824730704
FYN binding protein 1	-0.08599147544
aquaporin 3 (Gill blood group)	0.12746710227
leucine rich single-pass membrane protein 1	-0.16476707991
prostaglandin I2 receptor	-0.15163783033
notch receptor 4	0.25016330732
lipin 2	0.11142582331
G-patch domain containing 1	0.0603225267
serine carboxypeptidase 1	-0.09033382455
zinc finger protein 85	0.13811638519
CD24 molecule	0.22543543958
family with sequence similarity 81 member A	0.20812842844
BCL6 antisense 1	-0.31291621204
nectin cell adhesion molecule 2	-0.17210738416
transmembrane protein 64	-0.12893697805
kelch like family member 2	-0.15229142128
zinc finger protein 274	0.06347487099
FERM domain containing 8	0.07638293865
family with sequence similarity 241 member A	-0.10500062212
C-C motif chemokine ligand 3 like 3	0.28279682002
RCSD domain containing 1	0.06344198616
kinesin family member 18B	0.33193644088
double PHD fingers 2	0.07291909647
phospholipase C delta 3	-0.19092480607
inosine monophosphate dehydrogenase 1	-0.11500949374
proline-serine-threonine phosphatase interacting protein 1	-0.07301524042
thymidine phosphorylase	-0.16538570596
minichromosome maintenance complex component 7	0.06620792402
structural maintenance of chromosomes 6	0.11555537648
store-operated calcium entry associated regulatory factor	0.0662590653
cyclin dependent kinase 1	0.35897779085
inner centromere protein	0.09110804578
acyl-CoA synthetase family member 2	0.08796589467
desumoylating isopeptidase 1	-0.07063197193
laminin subunit gamma 1	0.15795547803
cytochrome P450 family 1 subfamily B member 1	-0.17469154706
lemur tyrosine kinase 2	-0.12666508856

sorting nexin 18	-0.11633225891
GIT ArfGAP 2	-0.0603884481
family with sequence similarity 214 member A	0.1076462762
protein phosphatase 1 regulatory inhibitor subunit 14A	0.24192391815
adaptor related protein complex 5 subunit beta 1	-0.14608057176
cyclin and CBS domain divalent metal cation transport mediator 3	0.07283570279
establishment of sister chromatid cohesion N-acetyltransferase 2	0.29920710502
pygopus family PHD finger 2	0.06938719216
membrane spanning 4-domains A6A	-0.13913595037
kinesin family member 2C	0.27851138585
TEF transcription factor, PAR bZIP family member	0.11920641452
APC down-regulated 1	-0.23096435273
succinyl-CoA:glutarate-CoA transferase	0.21621399831
WASP family member 1	-0.18382210281
GRB2 associated binding protein 1	0.11344148076
tripartite motif containing 25	-0.14010847665
G protein-coupled receptor 25	0.29577687288
torsin family 4 member A	-0.12851047509
class II major histocompatibility complex transactivator	0.12025619824
transforming growth factor beta receptor 1	-0.0868616325
solute carrier family 27 member 1	-0.11103913624
dehydrogenase/reductase 9	0.21632955022
spermatogenesis associated serine rich 2	0.11638618131
solute carrier family 27 member 2	0.20316298536
C-type lectin domain containing 9A	0.24073271352
MYCL proto-oncogene, bHLH transcription factor	-0.14924017977
solute carrier family 4 member 3	0.30774954409
zinc finger CCCH-type containing 6	0.08818492257
zinc finger DHHC-type palmitoyltransferase 3	-0.08380741844
prolyl 3-hydroxylase 2	0.31548550947
cadherin related family member 2	-0.10766225473
solute carrier family 16 member 3	-0.12153717091
glutathione S-transferase omega 1	-0.10904135378
divergent protein kinase domain 1A	0.0937289023
zinc finger and BTB domain containing 38	0.09034819382
novel protein	-0.16176580226
signal regulatory protein alpha	-0.11975554665
serine/threonine kinase 32C	-0.08518278179
T cell activation RhoGTPase activating protein	0.10959581898
NK3 homeobox 1	0.26156769149
mucolipin 2	0.12407739372
CCR4-NOT transcription complex subunit 10	0.04723300008
EBP like	-0.08609006255
paxillin	-0.09929860621
fucosyltransferase 10	0.11186752409
glucosylceramidase beta	-0.1106240328

cytochrome b5 reductase 1	-0.09873693681
dermatan sulfate epimerase	-0.08201157903
nudix hydrolase 5	0.08719852916
microtubule associated serine/threonine kinase family member 4	-0.12698611532
delta 4-desaturase, sphingolipid 1	-0.0840849122
apoptosis associated tyrosine kinase	-0.14961455574
UDP-N-acetylglucosamine pyrophosphorylase 1 like 1	-0.09677037324
transient receptor potential cation channel subfamily M member 6	-0.15854883264
syntaxin binding protein 2	-0.12139818884
cyclin B2	0.3199234038
HORMA domain containing 1	-0.17185856061
DEAD-box helicase 27	0.05639520242
phosphodiesterase 3B	0.1042256817
FCH and double SH3 domains 2	0.07329017584
myosin binding protein C3	-0.14245893014
metaxin 1	-0.10899667111
ubiquitin protein ligase E3 component n-recognin 7	0.0701320348
family with sequence similarity 89 member A	-0.16610788511
dynein cytoplasmic 1 light intermediate chain 1	0.07803548241
serine protease 21	-0.1561861718
cap binding complex dependent translation initiation factor	-0.09544042733
SH3 domain containing GRB2 like, endophilin B1	-0.10350747368
serine peptidase inhibitor, Kunitz type 1	0.13853236788
deleted in azoospermia like	0.32807522815
serine/threonine kinase 38	-0.05341325605
ETS proto-oncogene 2, transcription factor	-0.11703349318
adducin 2	0.12715475837
RELT TNF receptor	-0.08218767388
GINS complex subunit 1	0.19670992873
CEA cell adhesion molecule 21	0.06064769679
sterol regulatory element binding transcription factor 1	-0.08370306308
chondroitin sulfate synthase 1	-0.1368723147
siah E3 ubiquitin protein ligase 1	0.08621786962
netrin G2	-0.17644906494
F-box protein 10	0.19837938935
solute carrier family 11 member 1	-0.15082488349
pleckstrin homology and RhoGEF domain containing G3	0.12482236855
WD repeat domain 86	0.13104715782
nucleic acid binding protein 1	-0.13232217806
MYD88 innate immune signal transduction adaptor	-0.11843763539
replication factor C subunit 5	0.07854992976
long intergenic non-protein coding RNA 672	-0.10767775668
galactokinase 1	-0.12212386998
MORN repeat containing 1	0.09102285326
sialic acid binding Ig like lectin 15	-0.18694942586
NADH:ubiquinone oxidoreductase complex assembly factor 7	-0.09453549931

phosphoinositide-3-kinase adaptor protein 1	-0.13658980825
sorting nexin 20	-0.09126373747
EMAP like 2	-0.06356036108
cut like homeobox 2	0.21001923052
erythroferrone	-0.54130829137
TBC1 domain family member 9	0.10492300961
coiled-coil domain containing 159	-0.0865472109
multiple coagulation factor deficiency 2, ER cargo receptor complex subunit	0.06656390284
MLLT1 super elongation complex subunit	-0.10198801611
WD repeat domain 76	0.11370090831
transmembrane protein 170B	-0.11139653152
NOP2/Sun RNA methyltransferase 3	-0.06739597978
DNA damage inducible 1 homolog 2	0.05664560746
CCCTC-binding factor	0.0436594487
mannosidase alpha class 2B member 1	-0.07184716049
heat shock factor binding protein 1 like 1	-0.10632277206
FA complementation group I	0.09840782751
microsomal glutathione S-transferase 3	-0.06857420572
RAD51 associated protein 1	0.21847779375
adenosine kinase	0.09973848019
TNF receptor superfamily member 10b	-0.07232759918
TatD DNase domain containing 3	0.08135958305
fatty acid desaturase 3	0.11197813063
zinc finger protein 710	-0.08260795249
stromal interaction molecule 2	0.05049373936
non-SMC condensin I complex subunit H	0.19442979263
Rho GTPase activating protein 15	-0.09335644671
zinc finger and BTB domain containing 16	0.33822343384
coiled-coil domain containing 6	0.06114197496
thyroid stimulating hormone receptor	0.23960849658
enoyl-CoA hydratase domain containing 3	0.28223088545
coagulation factor XIII A chain	-0.18766205372
shugoshin 2	0.13363079297
RAB GTPase activating protein 1 like	0.06683360511
jumonji and AT-rich interaction domain containing 2	0.0980295721
cortactin binding protein 2	0.34855781591
embigin	-0.09899713535
transmembrane protein 121B	-0.14859863625
selenoprotein O	-0.04882717728
E2F transcription factor 8	0.33987206172
1-acylglycerol-3-phosphate O-acyltransferase 2	-0.10963438455
maestro heat like repeat family member 6	-0.14216847304
stromal antigen 3	0.17503658339
protein tyrosine phosphatase receptor type J	-0.10961761658
major facilitator superfamily domain containing 13A	-0.11600297606
zinc finger protein 117	0.17907986105

nuclear factor, erythroid 2	-0.16713115553
matrix metallopeptidase 8	-0.40976153311
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1M	-0.08899097736
FAM20C golgi associated secretory pathway kinase	-0.15927293561
proteoglycan 4	0.21793436596
PX domain containing 1	0.17223977057
thymidine kinase 1	0.2670129977
mitogen-activated protein kinase kinase kinase 9	0.10007180846
round spermatid basic protein 1 like	0.06536312832
hematopoietically expressed homeobox	-0.11377788002
protein kinase C zeta	0.08458882056
poly(ADP-ribose) polymerase family member 15	0.12043958754
serine hydroxymethyltransferase 1	0.08941034263
WD repeat domain 82	0.05480148976
zinc finger CCCH-type containing, antiviral 1 like	0.25372397498
teneurin transmembrane protein 4	0.26938534994
5'-nucleotidase domain containing 1	0.05030446179
centromere protein N	0.13764574593
NLR family member X1	-0.11341039607
dimethylarginine dimethylaminohydrolase 2	-0.12353551446
adenylate kinase 5	-0.10283357123
CDC42 effector protein 1	-0.21974066587
limb and CNS expressed 1 like	0.06673039691
solute carrier family 20 member 1	-0.07828609227
insulin like growth factor binding protein 7	-0.11138769336
pleckstrin and Sec7 domain containing	-0.18316352372
cell death inducing DFFA like effector b	-0.09221950463
neogenin 1	0.1100007648
ArfGAP with dual PH domains 2	-0.12462088629
cyclin A2	0.21926603313
CEBPZ opposite strand	-0.07676639061
apolipoprotein B mRNA editing enzyme catalytic subunit 3A	-0.13625943921
F-box and leucine rich repeat protein 13	-0.15642581405
serine/threonine kinase 3	-0.12954211721
gamma-aminobutyric acid type A receptor subunit rho2	-0.19338705482
Fc receptor like 3	0.10752884809
ETS variant transcription factor 5	0.24630304593
epoxide hydrolase 2	-0.10697831745
hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit 1	-0.04381837225
dehydrogenase/reductase 7	-0.1027092522
NADH:ubiquinone oxidoreductase complex assembly factor 1	-0.07042634272
oxoeicosanoid receptor 1	-0.16909402295
senataxin	0.0705212631
PX domain containing serine/threonine kinase like	-0.10474854189
glucosamine (N-acetyl)-6-sulfatase	-0.0917854619
leukocyte immunoglobulin like receptor B2	-0.08368162536

novel protein	-0.16375811116
IQ motif containing N	0.11360353224
kinesin family member 3C	-0.1507147357
sulfatase modifying factor 1	-0.07404772843
solute carrier organic anion transporter family member 5A1	0.26725370563
zinc finger DHHC-type palmitoyltransferase 7	-0.0609848058
checkpoint kinase 1	0.21302139392
leptin receptor	-0.09022244359
PHD finger protein 12	-0.08274418021
TTK protein kinase	0.29243213722
KIAA0319 like	0.09749017885
ankyrin repeat domain 34B	-0.21852441823
amine oxidase copper containing 3	0.16935801324
galactosylceramidase	-0.08105467247
nuclear receptor subfamily 6 group A member 1	-0.13302891791
chaperonin containing TCP1 subunit 6B	0.16247519772
SH3 domain binding protein 2	-0.06393272928
transducer of ERBB2, 2	0.0754241752
C-type lectin domain family 12 member B	-0.15268814696
VENT homeobox	-0.13106539833
stabilin 1	-0.14295222283
Rho GTPase activating protein 44	0.39509060087
CD63 molecule	-0.12164695313
microtubule associated monooxygenase, calponin and LIM domain con	-0.07974119246
UPF1 RNA helicase and ATPase	0.08162901904
thioredoxin reductase 1	-0.07738234014
denticleless E3 ubiquitin protein ligase homolog	0.25200247834
kinesin family member 23	0.19291612344
ataxin 1	-0.08462856632
TNF superfamily member 13b	-0.16433069196
polyamine oxidase	0.10754773552
lysophosphatidic acid receptor 5	0.08556166901
cysteinyl-tRNA synthetase 2, mitochondrial	-0.07978834676
fibulin 2	0.16366802844
patatin like phospholipase domain containing 1	-0.1589002101
activating transcription factor 7 interacting protein 2	0.07702654397
ryanodine receptor 1	0.15346874637
exosome component 4	-0.1743787013
base methyltransferase of 25S rRNA 2 homolog	-0.07341111851
selenoprotein T	-0.08163090823
MOB kinase activator 3B	-0.09912438718
transcription factor 7 like 2	-0.12507726185
TAP binding protein	-0.08771161235
vasodilator stimulated phosphoprotein	-0.12700897802
nuclear transcription factor, X-box binding 1	0.0427944489
hypoxia up-regulated 1	0.07746916698

vimentin	-0.11468941174
major vault protein	-0.09029011039
C-X-C motif chemokine ligand 8	0.31238340641
clathrin heavy chain like 1	-0.12334248191
thrombospondin 3	-0.08452921914
5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP	0.07436672875
WNK lysine deficient protein kinase 2	0.24275388515
serum/glucocorticoid regulated kinase 1	0.16331176129
regulating synaptic membrane exocytosis 3	0.1246200641
replication factor C subunit 3	0.08825067285
CD33 molecule	-0.09982188189
ribonuclease A family member 2	-0.20194613936
myocyte enhancer factor 2A	-0.10695320902
membrane spanning 4-domains A14	-0.15344825119
BRCA1 DNA repair associated	0.08796028618
SLIT-ROBO Rho GTPase activating protein 2B	0.17144037282
chromosome 8 open reading frame 88	-0.21073859842
caspase recruitment domain family member 11	0.07536465289
Spi-1 proto-oncogene	-0.12067003028
tetraspanin 32	-0.06756908971
sulfide quinone oxidoreductase	-0.10485665157
CD300c molecule	-0.13962027442
ankyrin repeat domain 22	-0.36407257817
MOK protein kinase	0.19234217982
zinc finger protein 684	0.20074464874
thioredoxin like 4B	-0.0602445238
zinc finger protein 467	-0.12971674015
ankyrin repeat domain 50	-0.10704355278
coiled-coil domain containing 18	0.10301929837
interleukin 27 receptor subunit alpha	-0.07162353585
coiled-coil domain containing 32	0.04750636205
aldehyde dehydrogenase 1 family member L2	0.28818302675
protein tyrosine phosphatase 4A2	-0.07301470825
zinc finger protein 318	0.07298433334
oligodendrocyte transcription factor 1	-0.14919818675
thymidylate synthetase	0.26686839648
galectin 1	-0.13748761033
solute carrier family 11 member 2	-0.06902167474
histamine receptor H2	-0.13283052193
cilia and flagella associated protein 54	0.20252425903
kynurenine 3-monooxygenase	0.10777883501
protein tyrosine kinase 2 beta	-0.07495217278
beta-1,4-galactosyltransferase 5	-0.13064313246
interferon stimulated exonuclease gene 20	0.1144334592
kinesin family member 15	0.17066826415
glycosylphosphatidylinositol specific phospholipase D1	0.16830427743

sphingomyelin phosphodiesterase acid like 3B	0.16816950987
interleukin 1 receptor accessory protein	0.14164537486
cytochrome P450 family 2 subfamily E member 1	0.19450685762
butyrophilin subfamily 2 member A2	0.07839987178
lymphotoxin beta receptor	-0.10028354064
growth arrest specific 7	-0.11763864788
secernin 1	0.08584774887
C-C motif chemokine receptor 2	-0.14462297381
cytochrome P450 family 4 subfamily F member 12	-0.15491028006
adenosine deaminase tRNA specific 1	0.09644931878
nuclear receptor subfamily 1 group D member 1	0.1137540783
zinc finger protein 787	-0.09180720484
FAM3 metabolism regulating signaling molecule C	0.11255236783
acidic nuclear phosphoprotein 32 family member A	-0.06401960634
cell adhesion molecule L1 like	0.25095090951
phospholipase C delta 1	0.08403659677
EPH receptor A4	0.08728218151
potassium voltage-gated channel subfamily H member 7	-0.36382584729
cathepsin Z	-0.09038517499
zinc finger SWIM-type containing 6	-0.08903226307
mitogen-activated protein kinase kinase 6	-0.12099871885
pyroglutamyl-peptidase I	-0.05957097248
carbonic anhydrase 6	-0.20737462884
reticulon 3	-0.10685479499
NCK associated protein 1 like	-0.05365590478
transmembrane protein 19	0.08900521552
neural EGFL like 2	-0.1165723876
solute carrier family 39 member 6	0.07320057817
capping actin protein, gelsolin like	-0.12267506524
dual specificity phosphatase 19	-0.15707351096
dynamin binding protein	0.07181141093
splA/ryanodine receptor domain and SOCS box containing 1	0.11847800178
apolipoprotein L3	-0.10679900301
aldehyde dehydrogenase 18 family member A1	0.07019448656
caspase 1	-0.11403799599
hyaluronan and proteoglycan link protein 3	-0.11600742789
solute carrier family 31 member 2	0.12615318766
stathmin 1	0.14049261864
RasGEF domain family member 1A	0.13269612479
period circadian regulator 3	0.10872362779
NBPF member 26	-0.12021934475
family with sequence similarity 174 member A	0.11935060071
KIAA0319	-0.15990374849
FES proto-oncogene, tyrosine kinase	-0.09063475907
nuclear receptor subfamily 1 group D member 2	0.09327314725
zinc finger E-box binding homeobox 2	-0.07145984116

acyl-CoA synthetase short chain family member 3	-0.12053566494
AE binding protein 1	0.12252374731
interleukin 18 receptor accessory protein	-0.16718600161
TATA-box binding protein associated factor 8	0.09224740385
zinc finger protein 671	0.05697703236
nuclear receptor binding SET domain protein 2	0.06420576255
retinal outer segment membrane protein 1	-0.20337628642
ATP binding cassette subfamily A member 2	-0.09061627653
C-C motif chemokine receptor 4	0.12338438896
sorting nexin 3	-0.13148877218
chromosome 16 open reading frame 72	-0.09049918245
protein S	-0.21165208375
origin recognition complex subunit 1	0.18534331763
pleckstrin homology domain containing M3	-0.06304123821
HEAT repeat containing 5B	0.06075062591
TBC1 domain family member 3L	-0.1143847382
S100 calcium binding protein A6	-0.13273089367
peptidyl arginine deiminase 4	-0.16185932037
macrophage immunometabolism regulator	0.18115880909
TSPO associated protein 1	-0.12955055153
ankyrin repeat domain 9	-0.28215907793
HECT domain E3 ubiquitin protein ligase 2	0.15113161454
ADP ribosylation factor like GTPase 17B	-0.10551772204
major histocompatibility complex, class II, DP alpha 1	0.12685899906
phosphatase and actin regulator 1	0.12737352022
cyclin D3	0.14938376458
macrophage scavenger receptor 1	0.21420079575
zinc metallopeptidase STE24	0.07713530366
protein phosphatase 1 regulatory subunit 12A	-0.06891598514
sosondowah ankyrin repeat domain family member C	-0.16959071349
purinergic receptor P2X 1	-0.10019607662
BCL2 interacting killer	-0.15473471084
MCF.2 cell line derived transforming sequence-like 2	0.11277984712
sorbitol dehydrogenase	-0.09122059528
calpain 12	0.11311567211
polypeptide N-acetylgalactosaminyltransferase 3	-0.10404882569
bone morphogenetic protein 8b	0.16371641782
G protein-coupled receptor 15	0.17827429797
peroxidase like	0.09187364568
mitogen-activated protein kinase kinase kinase 14	0.05286078436
calcium binding protein 39	-0.07361248614
lon peptidase 2, peroxisomal	0.06617183043
homologous recombination factor with OB-fold	0.28616080959
solute carrier family 25 member 4	0.13826669163
zinc finger protein 264	0.05421910419
C-type lectin domain containing 6A	-0.19380168435

mediator complex subunit 25	0.10920930831
ASXL transcriptional regulator 1	0.04620655314
SEC11 homolog C, signal peptidase complex subunit	0.1143642095
zinc finger protein 398	0.06051279848
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7	0.21473567077
granule associated Rac and RHOG effector 1	0.06252412203
annexin A2	-0.11127102539
ERCC excision repair 6, chromatin remodeling factor	0.06263700807
histone deacetylase 7	-0.06314728065
solute carrier family 25 member 42	0.06825367355
anoctamin 10	-0.0878618324
MLLT3 super elongation complex subunit	-0.07971179701
protein kinase, DNA-activated, catalytic subunit	0.11047418589
CD300 molecule like family member d	-0.21968702746
NLR family CARD domain containing 5	-0.10440604336
ADP-ribosylserine hydrolase	0.08470019663
erythroblast membrane associated protein (Scianna blood group)	-0.06791327565
centrosomal protein 89	0.06180250501
PTTG1 interacting protein	-0.05601027355
cAMP regulated phosphoprotein 19	0.05814925028
formyl peptide receptor 2	-0.12935805576
polo like kinase 4	0.16446458039
fibrillin 2	-0.12449051712
interleukin 23 receptor	0.22370107621
Cbl proto-oncogene like 1	0.06887003591
rhomboid 5 homolog 2	-0.12124181769
TEA domain transcription factor 2	0.2433290549
ring finger protein 4	0.04411220215
round spermatid basic protein 1	-0.08282682034
protein phosphatase 1 regulatory subunit 16B	0.06814655245
UBE2F-SCLY readthrough (NMD candidate)	-0.08512403097
N-acetylneuraminate synthase	-0.0801723875
ras homolog family member Q	-0.06236668036
Rap1 GTPase-GDP dissociation stimulator 1	0.05063393215
NOP2/Sun RNA methyltransferase family member 7	-0.16268142759
replication factor C subunit 2	0.07074129072
Wnt family member 10A	-0.15023344469
RAS p21 protein activator 2	-0.06624424514
phosphatidylinositol glycan anchor biosynthesis class W	0.12597843792
ribosomal protein S6 kinase A5	0.09531508172
minichromosome maintenance 10 replication initiation factor	0.30474787138
transducer of ERBB2, 1	0.11364703
cytidine deaminase	-0.14462322346
microtubule affinity regulating kinase 3	-0.06583361469
solute carrier organic anion transporter family member 4C1	-0.14452645255
N-alpha-acetyltransferase 38, NatC auxiliary subunit	-0.05540609012

zinc finger protein 791	0.04500528017
cysteinyl-tRNA synthetase 1	-0.05133311743
thyroid hormone receptor interactor 6	-0.101662565
zinc finger CCCH-type containing 3	-0.08309708151
troponin T1, slow skeletal type	-0.20058291171
5'-nucleotidase domain containing 4	-0.16943022632
cyclin G2	0.09611728036
kinase suppressor of ras 1	0.08631267654
nicotinamide nucleotide adenylyltransferase 1	-0.06941928711
GM2 ganglioside activator	-0.0975324771
ETS proto-oncogene 1, transcription factor	0.08068371226
zinc finger CCCH-type containing 12D	0.07994972771
transcription factor 19	0.10783334609
EPH receptor B3	-0.22754834475
forkhead box N3	0.05501287311
Rho GTPase activating protein 17	0.06815906924
glutaredoxin	-0.08923230141
aspartyl-tRNA synthetase 2, mitochondrial	0.06870785339
dystrobrevin beta	-0.05652100073
vav guanine nucleotide exchange factor 3	-0.08060740719
ubiquitin specific peptidase like 1	0.07251799266
G protein-coupled receptor 18	0.12081141307
succinate dehydrogenase complex subunit C	-0.04651533221
phosphoinositide-3-kinase regulatory subunit 4	0.04765281102
signal peptide, CUB domain and EGF like domain containing 2	-0.18259430959
IKBKB interacting protein	0.10615519897
CKLF like MARVEL transmembrane domain containing 3	-0.08156682119
family with sequence similarity 200 member B	-0.08081050299
pecanex 1	-0.0886582702
WD repeat and HMG-box DNA binding protein 1	0.1213356228
formyl peptide receptor 1	-0.13303998119
zinc finger CCCH-type containing 4	0.05656527358
nucleolar and coiled-body phosphoprotein 1	0.06157157045
ER degradation enhancing alpha-mannosidase like protein 1	0.07124542713
chondroitin polymerizing factor	0.17975365251
ADP ribosylation factor like GTPase 8A	-0.07950229487
DEAD-box helicase 20	0.05963530737
methyltransferase like 4	0.08360912133
SDE2 telomere maintenance homolog	0.08554197612
natural cytotoxicity triggering receptor 1	-0.1507423732
nicotinate phosphoribosyltransferase	-0.09053021047
TPD52 like 2	-0.07202455245
neuroepithelial cell transforming 1	0.1023878979
phosphatidylinositol glycan anchor biosynthesis class H	0.06149105486
VRK serine/threonine kinase 1	0.09196309713
homocysteine inducible ER protein with ubiquitin like domain 1	0.0585740027

valyl-tRNA synthetase 1	0.0711072448
DEP domain containing 1B	0.22141153343
siah E3 ubiquitin protein ligase 2	-0.18774570162
chromosome 14 open reading frame 28	0.10448680137
carboxylesterase 1	-0.16888780355
mitogen-activated protein kinase kinase kinase 4	-0.0780907113
alpha-N-acetylgalactosaminidase	-0.09914378877
zinc finger protein 296	0.13205733863
calpain 14	0.17599217763
zinc finger protein 766	0.0492571488
SH2B adaptor protein 2	-0.09692568894
neurolysin	-0.09707952272
cytochrome P450 family 46 subfamily A member 1	0.204581657
Rho GTPase activating protein 31	-0.08835522851
TraB domain containing	-0.05835918257
ADP ribosylation factor like GTPase 6 interacting protein 5	-0.07253230721
WD repeat domain 53	0.06348093057
galectin 12	-0.15280614842
NGFI-A binding protein 2	0.09810544565
TEK receptor tyrosine kinase	0.29521932889
solute carrier family 66 member 2	-0.10740257229
rhomboid domain containing 1	0.04865512183
SIGLEC family like 1	-0.206513984
growth arrest and DNA damage inducible beta	-0.12746384128
acyl-CoA synthetase short chain family member 2	-0.06605178384
5'-nucleotidase domain containing 2	0.17703575603
PR/SET domain 5	-0.13366233721
ATPase plasma membrane Ca ²⁺ transporting 1	0.07026174116
vasohibin 1	-0.09978380047
purinergic receptor P2Y14	-0.22972273251
family with sequence similarity 43 member A	0.09796176461
ADP ribosylation factor like GTPase 11	-0.08486312383
methyltransferase like 22	-0.05142893362
NEDD4 binding protein 3	0.14146595582
cell division cycle associated 3	0.23552791168
2,4-dienoyl-CoA reductase 1	-0.05953053962
kelch domain containing 8B	0.1581541169
WDFY family member 4	0.09229664241
COMM domain containing 9	-0.08234608641
major facilitator superfamily domain containing 2A	-0.14198261699
histone deacetylase 9	0.10567352678
secretory leukocyte peptidase inhibitor	-0.23027647245
EGF containing fibulin extracellular matrix protein 2	-0.10002877464
beta-1,4-galactosyltransferase 2	0.17991107034
intraflagellar transport 22	0.16185398427
novel transcript	-0.11368038824

polo like kinase 1	0.1285589612
UBX domain protein 11	-0.08017840213
SHC binding and spindle associated 1	0.18965964409
ribosomal modification protein rimK like family member B	0.10261113605
centrosomal protein 295	0.06696117331
abhydrolase domain containing 5, lysophosphatidic acid acyltransferase	0.1155859916
CASP8 and FADD like apoptosis regulator	-0.08318821187
Janus kinase 2	-0.10312645484
Rho GTPase activating protein 11A	0.12938442678
oxysterol binding protein like 8	-0.07712426194
myosin light chain 9	-0.29034561984
CDP-diacylglycerol synthase 2	-0.06322112578
VPS41 subunit of HOPS complex	0.05422845517
STIL centriolar assembly protein	0.14528869156
pellino E3 ubiquitin protein ligase family member 3	-0.11389460105
early growth response 1	0.22969910143
jade family PHD finger 1	0.06711655999
SEC14 like lipid binding 1	0.11371520458
two pore segment channel 1	-0.08433403639
zinc finger CCCH-type containing 13	0.04353806575
AKT interacting protein	-0.07097582927
ring finger protein 149	-0.0834430406
small nuclear ribonucleoprotein U11/U12 subunit 25	0.1084180707
jagged canonical Notch ligand 1	-0.10395504763
integrin subunit alpha 4	0.08905451478
activated leukocyte cell adhesion molecule	0.08788969913
fatty acid desaturase 2	-0.10212184596
chloride intracellular channel 1	-0.10221480596
suppressor of cytokine signaling 2	-0.09304096386
HEAT repeat containing 5A	0.08106636139
novel protein, ZNRF2-LINC01176 readthrough	0.05058939427
multimerin 1	-0.18497640278
calcineurin like phosphoesterase domain containing 1	0.09946365608
family with sequence similarity 110 member A	-0.0748891255
abhydrolase domain containing 12B	-0.25320649196
FA complementation group M	0.08540837598
phosphoglycerate mutase 1	-0.08714094634
PAT1 homolog 2	0.07814834122
family with sequence similarity 160 member B1	-0.09799843466
SWI/SNF related, matrix associated, actin dependent regulator of chro	0.04048806345
tripartite motif containing 7	-0.14806198014
isocitrate dehydrogenase (NADP(+)) 1	-0.0783396015
potassium voltage-gated channel subfamily A member 2	0.12162857394
solute carrier family 39 member 13	-0.06928659566
B9 domain containing 2	-0.07974671575
apoptosis enhancing nuclease	0.08655055436

decaprenyl diphosphate synthase subunit 1	-0.09696596311
gamma-secretase activating protein	-0.07590826879
NODAL modulator 1	0.06305909714
arrestin beta 2	-0.08843916049
SAM domain, SH3 domain and nuclear localization signals 1	-0.15419145179
C2 calcium dependent domain containing 5	0.08337941369
transmembrane protein 38A	-0.1047435162
ectonucleoside triphosphate diphosphohydrolase 7	-0.14119217134
protein phosphatase 4 regulatory subunit 3A	0.05056377744
WD repeat domain 26	-0.07026162418
oligodendrocyte transcription factor 2	-0.26037222489
sterol O-acyltransferase 1	-0.05330594054
family with sequence similarity 83 member D	0.16361050118
mitochondrial fission regulator 2	0.1384609996
ATPase H ⁺ transporting V0 subunit d1	-0.08891580215
proliferation and apoptosis adaptor protein 15	-0.1006739826
family with sequence similarity 228 member B	-0.059044222
dual specificity phosphatase 16	0.06280892752
ankyrin repeat and death domain containing 1A	-0.09084109119
ribonuclease H2 subunit B	0.07453898199
transmembrane protein 163	0.17191955697
signal transducer and activator of transcription 5A	-0.07093251896
aurora kinase A	0.14353528331
salvador family WW domain containing protein 1	0.07965791262
membrane associated ring-CH-type finger 10	0.25334930155
KIAA1522	-0.15391237648
autophagy related 3	-0.10053377836
TRAF3 interacting protein 3	-0.05340542045
NDC1 transmembrane nucleoporin	0.0640900734
zinc finger protein 652	0.05767226175
apolipoprotein B mRNA editing enzyme catalytic subunit 3H	0.15294037218
signal peptidase complex subunit 2	0.05224790227
NFKB activating protein like	0.19980016158
TNF receptor superfamily member 11a	0.15208167703
carboxylesterase 4A	-0.0927322249
calcium binding protein 39 like	0.06038452734
DDHD domain containing 2	0.07206347071
anillin actin binding protein	0.22896990269
epsin 2	0.10322767992
nudix hydrolase 16	0.11328871747
RAB34, member RAS oncogene family	-0.12205775379
trio Rho guanine nucleotide exchange factor	0.08331209568
novel protein	-0.09183865549
TBC1 domain family member 5	0.04752166027
killer cell lectin like receptor B1	0.1494238617
amyloid beta precursor protein binding family A member 1	0.15156354577

ral guanine nucleotide dissociation stimulator like 3	0.18451929785
lymphocyte antigen 96	-0.10959174259
cyclic GMP-AMP synthase	-0.08684145285
interleukin 1 receptor associated kinase 4	-0.06163792697
tripartite motif containing 8	-0.08420895124
protein kinase cAMP-dependent type II regulatory subunit alpha	-0.05312884571
ubiquitin specific peptidase 19	0.05452756998
capping actin protein of muscle Z-line subunit alpha 2	-0.07715487451
hematopoietic SH2 domain containing	0.11773517494
BCL2 interacting protein 2	-0.07319561033
tyrosyl-DNA phosphodiesterase 2	-0.08679972002
colony stimulating factor 2 receptor subunit beta	-0.10683153042
NFKB inhibitor alpha	-0.12406784697
LSM6 homolog, U6 small nuclear RNA and mRNA degradation associa	-0.07134737233
RAB3A interacting protein	-0.09000412974
PDZ and LIM domain 7	-0.11485453593
nicastrin	-0.06207373581
leucine rich repeat and coiled-coil centrosomal protein 1	0.14014925832
phosphoribosylformylglycinamide synthase	0.07083814939
DBF4 zinc finger B	0.09767642693
RAB31, member RAS oncogene family	-0.09285915317
S100 calcium binding protein A11	-0.15307571526
chromosome 14 open reading frame 132	-0.13488761736
solute carrier family 1 member 4	0.11026638199
ADP ribosylation factor interacting protein 1	0.07636069855
DAB2 interacting protein	0.24639785165
N-acetyltransferase domain containing 1	-0.14541286583
nuclear factor I C	-0.06625788806
forkhead box P1	0.06288511478
sorting nexin 8	0.08700023144
cytoplasmic polyadenylation element binding protein 4	-0.09805898289
beta-secretase 2	0.11229272063
arachidonate 15-lipoxygenase type B	0.34346050363
apolipoprotein B mRNA editing enzyme catalytic subunit 3F	0.09391771394
ubiquitin domain containing 1	-0.10589636676
spectrin repeat containing nuclear envelope protein 1	-0.09266724534
G protein-coupled receptor 137B	-0.07021022829
sushi domain containing 1	-0.06112042079
sestrin 1	0.09745262717
synapsin II	-0.2603456643
tubulin beta 6 class V	0.10289785846
poly(A) binding protein cytoplasmic 1 like	-0.07256727266
trans-golgi network vesicle protein 23 homolog A	0.23803151818
DENN domain containing 4B	-0.05466539441
kinesin family member 3B	0.04203380151
sialic acid acetyltransferase	-0.07681362161

sidekick cell adhesion molecule 1	0.24267699664
baculoviral IAP repeat containing 5	0.27498351141
nudE neurodevelopment protein 1	0.07095023656
cytochrome b561 family member A3	0.07150564847
ankyrin repeat and LEM domain containing 2	0.03591403222
poly(ADP-ribose) polymerase 2	0.09171873085
zinc finger CCHC-type containing 7	0.07624337455
centromere protein M	0.23106384847
epithelial cell adhesion molecule	0.34009186567
RAB8B, member RAS oncogene family	-0.06272471783
NIMA related kinase 4	-0.05534158524
yippee like 1	0.09035269732
leukocyte immunoglobulin like receptor B4	-0.12352717134
Rho GTPase activating protein 18	-0.07179218855
sushi domain containing 4	-0.10880370428
von Willebrand factor A domain containing 8	0.10601683219
syndecan binding protein	-0.10061034906
sialic acid binding Ig like lectin 5	-0.14232870714
zinc finger protein 92	0.1243477939
helicase, lymphoid specific	0.11118130943
thymocyte selection associated family member 2	-0.07676253152
regulatory factor X2	-0.14752135016
chromosome 12 open reading frame 42	0.09638410908
growth arrest and DNA damage inducible alpha	-0.15251316834
consortin, connexin sorting protein	0.04814254439
fructose-bisphosphatase 1	-0.10675692534
RNF103-CHMP3 readthrough	0.12753919898
transmembrane and immunoglobulin domain containing 3	0.22240117663
Rho GTPase activating protein 25	0.05960796314
serine and arginine repetitive matrix 1	0.03358366539
small integral membrane protein 35	0.14956758881
cyclin L2	0.05125885352
tropomodulin 3	-0.03952554943
interleukin 7 receptor	0.10051299696
potassium inwardly rectifying channel subfamily J member 2	-0.1330074371
ISY1-RAB43 readthrough	-0.1186473496
POU class 5 homeobox 1	-0.13620841732
shootin 1	-0.10474783223
zinc finger protein 441	0.11693906501
tweety family member 3	-0.08747969343
sodium channel modifier 1	-0.05303217803
heparan sulfate proteoglycan 2	0.13757501097
ubiquitin like with PHD and ring finger domains 1	0.14837836711
RAD54 like	0.22950753957
serglycin	-0.11254764981
neuronal pentraxin receptor	-0.09858229118

zinc finger protein 439	0.08289686564
acetylcholinesterase (Cartwright blood group)	-0.35575530233
Ral GTPase activating protein catalytic subunit alpha 2	-0.08732078972
tweety family member 2	-0.08413891541
membrane bound O-acyltransferase domain containing 1	-0.06479810455
solute carrier family 25 member 37	-0.14380965455
SH3 domain binding protein 4	0.14364660162
CTP synthase 1	0.0663714621
epoxide hydrolase 1	0.10335698013
WD repeat domain 37	-0.0522348504
sidekick cell adhesion molecule 2	0.10385483905
LRR binding FLII interacting protein 2	-0.06569926369
apoptosis resistant E3 ubiquitin protein ligase 1	-0.0579712168
G protein-coupled receptor 183	0.10120666315
zinc finger CCCH-type containing 18	0.04957960615
citron rho-interacting serine/threonine kinase	0.17926659076
coiled-coil domain containing 24	0.1342211275
ankyrin repeat domain 33B	-0.09870859529
cytochrome P450 family 26 subfamily B member 1	-0.21722826836
EPH receptor B1	0.13448239754
coiled-coil domain containing 138	0.07826052012
N-alpha-acetyltransferase 50, NatE catalytic subunit	0.05681204722
transcription factor 7 like 1	0.22783033399
regulator of microtubule dynamics 2	0.08315636557
transmembrane protein 97	0.12477397474
otoferlin	0.41418208638
glutamic-oxaloacetic transaminase 1	0.0703041545
NFAT activating protein with ITAM motif 1	-0.09400987418
uridine-cytidine kinase 2	0.08070807133
meteorin like, glial cell differentiation regulator	-0.10541878629
cyclin D1	0.17913727236
protein tyrosine kinase 2	0.07290097294
PTTG1 regulator of sister chromatid separation, securin	0.14879334534
Kruppel like factor 9	0.1356779223
acyl-CoA synthetase medium chain family member 3	-0.12048335912
maternal embryonic leucine zipper kinase	0.25759097896
cell adhesion molecule 1	0.14866732449
microtubule associated protein 1 light chain 3 alpha	0.15812360911
G protein subunit beta 5	0.0554418232
TRAF3 interacting protein 2	0.06617286472
5-phosphohydroxy-L-lysine phospho-lyase	-0.05469987542
RAS like proto-oncogene B	-0.0996610994
cold inducible RNA binding protein	0.05091091131
MAX network transcriptional repressor	-0.06270969403
RNA polymerase II subunit C	-0.06745179602
heat shock protein family A (Hsp70) member 1A	-0.12036352641

origin recognition complex subunit 3	0.0612789329
5'-nucleotidase ecto	0.10063272436
DiGeorge syndrome critical region gene 2	-0.0611530581
chromosome 3 open reading frame 52	0.19660039823
H4 clustered histone 4	-0.17731150743
3-ketodihydrosphingosine reductase	0.06348397133
hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase	-0.06752523003
leucine rich repeat containing 4	-0.14230739986
activating signal cointegrator 1 complex subunit 1	0.05546599709
G protein-coupled receptor kinase 6	-0.07589832905
F-box protein 38	-0.07243421665
hippocalcin like 1	-0.06170649675
heat shock protein 90 beta family member 1	0.0945063896
zinc finger protein 3	0.04480036856
Dmx like 2	-0.11450376266
DISC1 scaffold protein	-0.10939253503
anaphase promoting complex subunit 15	-0.09858545073
novel protein, identical to neuroblastoma breakpoint family, member 1	-0.09638091472
lysophosphatidic acid receptor 2	-0.09645228044
purinergic receptor P2X 4	-0.0589957193
glycosylated lysosomal membrane protein	-0.0865260788
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma	-0.0691519937
cell cycle progression 1	-0.08732676787
origin recognition complex subunit 6	0.16578111663
germinal center associated signaling and motility like	-0.19937798705
rabaptin, RAB GTPase binding effector protein 1	0.03718180281
SECIS binding protein 2 like	0.05744932352
ATPase plasma membrane Ca ²⁺ transporting 4	-0.07375710221
vitamin D receptor	-0.08465863517
Ras and Rab interactor 1	-0.12071381816
cytidine and dCMP deaminase domain containing 1	-0.07376246991
H2A.Z variant histone 2	0.04063231469
golgi membrane protein 2	-0.04720397735
Rac GTPase activating protein 1	0.06808158101
chromosome 7 open reading frame 61	-0.11623438207
RAD17 checkpoint clamp loader component	0.05687693323
novel protein	-0.18584890764
AT-rich interaction domain 1B	0.04815398935
pleckstrin homology domain containing A7	0.11159985104
ghrelin and obestatin prepropeptide	-0.12822754474
malic enzyme 3	-0.11685203385
DOP1 leucine zipper like protein B	0.05721641028
phosphatidylethanolamine binding protein 4	0.19775914271
Rab interacting lysosomal protein like 2	-0.06936179487
methylcrotonoyl-CoA carboxylase 2	0.05069858071
F-box protein 5	0.12215018197

stomatin	-0.12489854913
inositol 1,4,5-trisphosphate receptor type 1	0.07047658211
SID1 transmembrane family member 1	0.05872504363
phenylalanyl-tRNA synthetase subunit beta	0.05521297341
TRAF interacting protein	0.14960029507
uracil DNA glycosylase	0.07848789385
Scm polycomb group protein homolog 1	0.0522291484
ubiquitin specific peptidase 1	0.07235150295
NLR family pyrin domain containing 1	0.06517268407
SAS-6 centriolar assembly protein	0.09140556442
family with sequence similarity 76 member A	0.0519879082
ankyrin repeat domain 16	0.07105472742
CD74 molecule	0.10836535006
chromodomain helicase DNA binding protein 2	0.04794109517
novel transcript	-0.08803882185
SKI like proto-oncogene	-0.07875727089
ABL proto-oncogene 2, non-receptor tyrosine kinase	-0.05422962284
serpin family B member 8	-0.07327921177
SWI/SNF related, matrix associated, actin dependent regulator of chro	0.05042140296
YTH domain containing 1	0.04903628521
cysteine and serine rich nuclear protein 1	-0.1341073736
golgi SNAP receptor complex member 1	0.0333051256
capping actin protein of muscle Z-line subunit alpha 1	-0.06718504631
zyxin	-0.1136013873
zinc finger protein 682	0.13060196111
ABO, alpha 1-3-N-acetylgalactosaminyltransferase and alpha 1-3-galac-	-0.12530891855
folistatin like 1	-0.19115161739
GIN5 complex subunit 2	0.22537671164
lymphotoxin beta	-0.07788174395
tumor protein p53 inducible protein 3	-0.12256829944
ubiquitin specific peptidase 32	-0.0686763422
zinc finger protein 623	0.04182754491
neural proliferation, differentiation and control 1	0.09529671921
dishevelled binding antagonist of beta catenin 1	-0.19165318394
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1H	0.1134663692
TNF receptor superfamily member 1A	-0.08694927755
dpy-19 like C-mannosyltransferase 3	-0.09316909632
noggin	-0.14045372761
activin A receptor type 2A	-0.07238682268
syntaphilin	-0.08882202978
selectin P	-0.1282833179
prefoldin subunit 1	-0.06738027247
nuclear factor of activated T cells 1	0.0440044461
secreted and transmembrane 1	-0.16311551619
cytokine inducible SH2 containing protein	-0.10224034858
junction plakoglobin	0.14905057391

chromosome 12 open reading frame 66	0.08185124275
SAP30 like	-0.04989198365
karyopherin subunit alpha 1	-0.05076874277
ADP ribosylation factor guanine nucleotide exchange factor 1	-0.04309989525
glucose-fructose oxidoreductase domain containing 2	-0.06436436169
golgin B1	0.04850481986
plexin A2	0.11866800508
glutamate ionotropic receptor kainate type subunit 5	-0.17005198635
SPRY domain containing 3	0.0783517955
estrogen receptor 2	0.14635604862
mixed lineage kinase domain like pseudokinase	-0.08300778695
insulin receptor substrate 2	0.15922178188
shortage in chiasmata 1	-0.262596245
HIVEP zinc finger 3	-0.07927090708
actin related protein 1A	-0.061359468
dedicator of cytokinesis 7	0.0942342365
golgin A3	0.04288704408
tetraspanin 4	-0.11197721551
transportin 1	-0.05775859574
schlafen family member 5	0.07899163621
leupaxin	-0.0423129382
FRAT regulator of WNT signaling pathway 2	-0.11429420493
par-6 family cell polarity regulator beta	0.10138821903
opsin 3	0.06554008301
mechanistic target of rapamycin kinase	0.04691668117
ETS variant transcription factor 6	-0.07134087537
integrin subunit alpha 3	0.09695986857
capicua transcriptional repressor	-0.074063451
solute carrier family 4 member 1 adaptor protein	-0.04910373203
phosphoribosylaminoimidazole carboxylase and phosphoribosylaminoi	0.06679446497
glycoprotein V platelet	-0.1209970339
cyclin dependent kinase 2 interacting protein	-0.05820761589
integrin subunit alpha 2b	-0.22375106967
RAB2A, member RAS oncogene family	-0.04169812778
CD40 molecule	0.10172512697
MANSC domain containing 1	-0.14070457888
lymphocyte activating 3	0.13791647699
methylenetetrahydrofolate reductase	-0.05238798519
acid phosphatase 3	-0.07893014938
mitochondrial ribosome associated GTPase 2	-0.05270836309
RAD18 E3 ubiquitin protein ligase	0.0554018742
Cdk5 and Abl enzyme substrate 1	0.20930489464
NDRG family member 3	0.05113594726
granulin precursor	-0.10994870849
G-patch domain containing 11	0.07719940056
novel protein	0.16652614195

transcription termination factor 2	0.06715528704
NADH:ubiquinone oxidoreductase complex assembly factor 6	0.05290497292
adenosine monophosphate deaminase 2	0.09998446764
inosine monophosphate dehydrogenase 2	0.0668219483
CTD phosphatase subunit 1	-0.06626807681
spermatogenesis associated 2 like	-0.10626428167
spectrin alpha, non-erythrocytic 1	0.05916117222
protein arginine methyltransferase 5	-0.07453488692
C-C motif chemokine receptor like 2	-0.13342293912
ADAMTS like 5	-0.12184668966
cell migration inducing hyaluronidase 2	-0.05910537998
kelch like family member 23	0.07484095778
CCAAT enhancer binding protein beta	-0.11699020291
cytosolic thiouridylase subunit 1	-0.07680966131
replication factor C subunit 4	0.08898188846
ADAM metallopeptidase with thrombospondin type 1 motif 6	0.13927059758
zinc finger protein 154	0.0975106718
ring finger protein, transmembrane 2	0.09448512669
membrane associated ring-CH-type finger 3	-0.08294567896
dynamamin 2	-0.04622373563
G protein subunit alpha 11	-0.10202358379
CFAP97 domain containing 2	-0.10250370464
RING1 and YY1 binding protein	0.07434594195
zinc finger protein 444	-0.05149287042
centromere protein J	0.08177485585
family with sequence similarity 168 member B	0.04240445676
testis expressed 2	0.0620600596
transmembrane protein 263	0.0702037345
tripartite motif containing 62	0.04658364774
PC-esterase domain containing 1B	-0.06396909333
ring finger protein 217	-0.10520385469
interleukin 15 receptor subunit alpha	-0.08879747762
tripartite motif containing 47	0.14429684455
ORAI calcium release-activated calcium modulator 2	-0.08579844397
cadherin 26	-0.09806341636
potassium voltage-gated channel subfamily Q member 5	0.08162421611
coiled-coil domain containing 106	0.10410575869
BTB domain and CNC homolog 1	-0.07117779116
amidohydrolase domain containing 2	0.07304832504
cyclin dependent kinase inhibitor 3	0.2099716668
solute carrier family 12 member 7	-0.07578133705
spermidine/spermine N1-acetyltransferase family member 2	-0.07946734477
catechol-O-methyltransferase	-0.05881792503
ArfGAP with FG repeats 1	-0.07162491361
ankyrin repeat domain 52	0.04385748335
1-acylglycerol-3-phosphate O-acyltransferase 5	0.07467616619

zinc finger protein 66	0.10313804144
period circadian regulator 1	0.21518943851
TATA-box binding protein associated factor 5	0.05814502132
adenylate cyclase 9	-0.06767787236
RAB1A, member RAS oncogene family	-0.0469619237
protein phosphatase 1 regulatory subunit 3D	-0.08723620258
SET domain containing 5	-0.03791952009
prolyl 4-hydroxylase subunit alpha 1	-0.04535552892
solute carrier family 40 member 1	-0.10649526489
Rho GTPase activating protein 22	-0.10217350672
chromosome 20 open reading frame 194	-0.06942120776
adaptor related protein complex 1 subunit sigma 3	0.11656590877
notch receptor 2	-0.08019389577
cyclin dependent kinase inhibitor 2D	-0.11637652436
DExH-box helicase 34	-0.08283689023
solute carrier family 44 member 5	0.2081838959
PR/SET domain 1	0.08916322606
novel protein, SIRPB1-SIRPD readthrough	-0.08049450079
cell division cycle associated 5	0.23003512901
selectin L	-0.09951584132
actinin alpha 1	-0.09122152899
integrin linked kinase	-0.06780125617
protein phosphatase 1 catalytic subunit gamma	0.05163628853
serine/threonine/tyrosine kinase 1	0.1394572177
myosin IC	0.0708558139
activating transcription factor 7 interacting protein	0.04779217545
kinesin family member 13A	-0.07772020775
sorting nexin 33	-0.0886253753
suppressor of cytokine signaling 6	-0.09369751024
cytoskeleton associated protein 2	0.06506374414
methyltransferase like 8	0.05410774508
nucleoporin 160	0.05296645387
cAMP responsive element binding protein 1	0.04988353101
TBK1 binding protein 1	-0.09512157121
sterol regulatory element binding transcription factor 2	-0.05319374874
WD repeat domain, phosphoinositide interacting 1	-0.08018998566
RAB3A, member RAS oncogene family	-0.11277907741
basic leucine zipper ATF-like transcription factor 3	0.1459395673
solute carrier family 9 member B2	0.06490097051
serine peptidase inhibitor, Kunitz type 2	-0.07677130811
succinate dehydrogenase complex assembly factor 3	-0.10415258284
zinc finger DHHC-type palmitoyltransferase 18	-0.09204451466
IQ motif containing GTPase activating protein 2	0.06583512439
CST telomere replication complex component 1	0.04983363055
poly(A)-specific ribonuclease	0.03358025701
fms related receptor tyrosine kinase 1	0.15387494779

semaphorin 6A	0.22893895363
oxysterol binding protein like 9	-0.06275981513
cerebellin 3 precursor	0.10709895307
VANGL planar cell polarity protein 1	0.0898556294
NUF2 component of NDC80 kinetochore complex	0.1575682269
nitrilase 1	-0.04407665906
methyl-CpG binding domain protein 2	-0.04629328182
toll like receptor adaptor molecule 1	-0.07310644053
structural maintenance of chromosomes 2	0.08971896322
hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit 1	-0.04648356493
family with sequence similarity 117 member B	0.05647485471
mitogen-activated protein kinase kinase 3	-0.12106160349
neutrophil cytosolic factor 2	-0.07038453249
PHD finger protein 7	0.06300194285
novel transcript	-0.06048843959
meiotic nuclear divisions 1	0.22629897349
nuclear factor, interleukin 3 regulated	-0.11350693379
activating transcription factor 6	-0.06994298351
NEDD4 E3 ubiquitin protein ligase	-0.08459529482
lysocardiolipin acyltransferase 1	0.04819120381
coiled-coil domain containing 15	0.09598403729
solute carrier family 38 member 6	-0.07110274095
oxysterol binding protein like 1A	-0.0846216422
solute carrier family 15 member 3	-0.08735646239
dystrobrevin binding protein 1	-0.06610658958
phosphatidylinositol-4-phosphate 5-kinase type 1 beta	0.06778617718
H4 histone 16	0.12693616295
phosphatidylethanolamine binding protein 1	0.07771113719
leucine rich melanocyte differentiation associated	-0.14640545432
chromosome 11 open reading frame 24	0.06946331449
BRCA1 interacting protein C-terminal helicase 1	0.1246883166
WD repeat and SOCS box containing 2	-0.0905415471
potassium channel tetramerization domain containing 15	-0.07918990936
proteasome 26S subunit, ATPase 1	-0.04642302085
nudix hydrolase 22	-0.05939677064
zinc finger protein 516	-0.08715503366
Rho GTPase activating protein 30	-0.05168722737
potassium calcium-activated channel subfamily N member 4	0.06845941798
selenophosphate synthetase 2	-0.07033787198
microtubule associated protein 1 light chain 3 beta 2	0.13185211238
1-acylglycerol-3-phosphate O-acyltransferase 3	-0.06307813122
trafficking kinesin protein 1	0.03829478222
MYC binding protein 2	0.06037225892
LLLL and CFNLAS motif containing 1	0.20353356064
Wnt family member 5B	0.13450578006
serine/threonine kinase 24	0.05394906671

glutathione S-transferase C-terminal domain containing	0.07496914659
BRISC and BRCA1 A complex member 2	-0.04491777871
RAB6B, member RAS oncogene family	-0.20350392063
ubiquitin specific peptidase 53	0.08956330689
T cell activation inhibitor, mitochondrial	-0.04747214334
novel protein	-0.07701765737
UDP-glucuronate decarboxylase 1	-0.04347339836
lysosomal trafficking regulator	-0.06250943335
RAB44, member RAS oncogene family	-0.09961207188
bromodomain adjacent to zinc finger domain 1B	0.0379534455
nei like DNA glycosylase 1	0.09422012646
sialic acid binding Ig like lectin 8	-0.20223245232
phospholipase A2 group IVC	-0.120638305
PR/SET domain 8	0.07121166342
methionine sulfoxide reductase B1	-0.12716762725
TUB bipartite transcription factor	0.20400889646
RNA polymerase III subunit G like	0.10166842476
non-SMC condensin II complex subunit H2	0.05840587955
lysozyme g1	-0.09393789202
neural precursor cell expressed, developmentally down-regulated 9	0.08102962376
peptidylglycine alpha-amidating monooxygenase	-0.07079058031
inositol polyphosphate-5-phosphatase F	0.06384722462
oncoprotein induced transcript 3	-0.1697187386
zinc finger protein 281	-0.07698000597
EvC ciliary complex subunit 2	0.13842506946
sphingosine-1-phosphate receptor 3	-0.11994414345
MTOR associated protein, eak-7 homolog	0.05557716198
DDB1 and CUL4 associated factor 4	0.07187464425
C-X-C motif chemokine ligand 10	-0.37796976195
phosphoethanolamine/phosphocholine phosphatase 1	0.1756370673
zinc finger protein 292	-0.06832923049
glucocorticoid induced 1	0.0787962919
UBX domain protein 2B	-0.07637275447
neutral cholesterol ester hydrolase 1	-0.06155195396
transmembrane protein 150B	-0.12384985783
zinc finger and AT-hook domain containing	0.05607600283
cytochrome b-245 alpha chain	-0.06632247139
low density lipoprotein receptor class A domain containing 3	-0.10678571628
cytoplasmic FMR1 interacting protein 2	-0.04346428856
AT-rich interaction domain 5A	-0.07815052968
PBX/knotted 1 homeobox 1	-0.05629492047
apoptosis inducing factor mitochondria associated 2	0.07159092053
non-SMC condensin II complex subunit D3	0.05333248864
pleckstrin homology domain containing A2	0.0408164344
ret finger protein like 2	0.11532391907
family with sequence similarity 114 member A1	-0.07967286162

cilia and flagella associated protein 97	0.07783198793
PDCD6-AHRR readthrough (NMD candidate)	0.19154416769
diacylglycerol kinase eta	0.13006383085
adaptor protein, phosphotyrosine interacting with PH domain and leucine	0.0573344789
TNF receptor superfamily member 8	-0.08260295576
taste 1 receptor member 3	0.16201328218
transforming growth factor alpha	-0.11402860069
sirtuin 5	0.06821163113
myelin protein zero	-0.07295187704
high mobility group nucleosomal binding domain 4	0.04672620428
potassium two pore domain channel subfamily K member 10	0.26216505588
F-box protein 6	-0.16579021069
Rho guanine nucleotide exchange factor 10 like	-0.10348741409
sodium channel and clathrin linker 1	0.09531438874
tubulin beta class I	0.07027554403
EPH receptor B4	-0.12077848884
dystroglycan 1	0.05208065584
nipsnap homolog 3B	0.10972817856
sarcoglycan epsilon	0.17136828632
centromere protein O	0.07332115217
leucine rich repeat kinase 2	-0.0935540715
RNA guanylyltransferase and 5'-phosphatase	0.04018810716
CDC28 protein kinase regulatory subunit 1B	0.12448816593
family with sequence similarity 172 member A	-0.06067198016
zinc finger DBF-type containing 2	0.1260507674
SR-related CTD associated factor 4	0.03889970625
NIMA related kinase 6	-0.08419665799
zinc finger protein 718	0.06108231956
G protein-coupled receptor class C group 5 member B	-0.19834745001
cysteine rich protein 3	0.12630820073
major histocompatibility complex, class II, DR beta 1	0.0954598908
adhesion G protein-coupled receptor A2	-0.11320284664
importin 5	0.05274396513
exportin 1	0.05790412042
phospholipase A2 group IVA	-0.07854880384
MYCBP associated protein	0.13833339835
muscleblind like splicing regulator 1	0.05902722297
leucine rich repeat containing 36	0.22896505158
PWP1 homolog, endonuclease	0.05654429742
LIM zinc finger domain containing 1	-0.05374648963
heme binding protein 1	-0.11785398846
G protein subunit alpha i3	-0.05178077616
TLE family member 4, transcriptional corepressor	-0.05870689801
Rap guanine nucleotide exchange factor 1	0.04771159802
zinc finger protein 430	0.04643535715
coiled-coil serine rich protein 2	0.03199902461

E74 like ETS transcription factor 1	0.06084501072
nei like DNA glycosylase 2	0.07050259526
transmembrane protein 33	-0.05197110697
tuftelin 1	0.09435792974
PLAG1 like zinc finger 2	-0.07236014642
aquaporin 10	-0.21945649831
lin-9 DREAM MuvB core complex component	0.07863477071
argininosuccinate lyase	0.07476054175
novel protein	-0.08879922216
ubiquitin conjugating enzyme E2 E1	-0.04764979782
chromatin licensing and DNA replication factor 1	0.23027494104
SPC24 component of NDC80 kinetochore complex	0.16903108647
ubiquitin like modifier activating enzyme 3	-0.06102723752
sorting nexin 1	-0.03041705121
lysine methyltransferase 5A	-0.05250541249
phospholipase A2 group XV	-0.08086319692
arachidonate 15-lipoxygenase	-0.19835262133
SH3 binding domain protein 5 like	-0.0730883861
cilia and flagella associated protein 45	0.15387698593
scavenger receptor family member expressed on T cells 1	0.10552182452
syntaxin 11	-0.11877565051
amyloid beta precursor like protein 2	-0.05858058605
syntaxin 10	-0.06632570274
interleukin 17 receptor C	-0.12972709118
H2B clustered histone 18	-0.1157135889
enhancer of mRNA decapping 3	-0.04044613343
solute carrier family 24 member 1	0.07034775459
Rho guanine nucleotide exchange factor 11	-0.06681216763
PIF1 5'-to-3' DNA helicase	0.16080412457
midnolin	-0.09011862997
striated muscle enriched protein kinase	-0.1045055381
heterogeneous nuclear ribonucleoprotein A1 like 2	0.12225394486
glucuronic acid epimerase	-0.06937515265
kinesin family member 14	0.20093617839
cell division cycle 45	0.22417920715
CLPTM1 like	0.04153283068
DNA helicase B	-0.05837463224
transketolase	-0.08683881878
chymotrypsin C	-0.15009185381
carboxypeptidase vitellogenic like	-0.1016941376
major histocompatibility complex, class I-related	-0.05655877834
RAP1 GTPase activating protein	-0.34091620257
lymphocyte cytosolic protein 1	-0.06882932615
PHD finger protein 1	0.05511627357
exocyst complex component 6	-0.07035328306
myosin IE	0.07950029334

coiled-coil domain containing 126	-0.05803838733
HSPB1 associated protein 1	-0.06781563248
ER degradation enhancing alpha-mannosidase like protein 2	-0.04796958146
fibulin 7	-0.1055351127
regulator of G protein signaling 1	-0.22977107391
protein kinase C and casein kinase substrate in neurons 2	-0.06971328327
zinc finger protein 862	-0.03807427829
NBPF member 10	-0.09222228223
solute carrier family 17 member 5	-0.04022062478
mediator complex subunit 1	0.04198467052
family with sequence similarity 177 member B	0.11632595651
oxysterol binding protein like 3	0.05642040335
nicotinamide nucleotide adenylyltransferase 3	-0.08755794558
H2B clustered histone 21	-0.12024103235
XPC complex subunit, DNA damage recognition and repair factor	0.04682422844
NOC3 like DNA replication regulator	0.08707627661
par-6 family cell polarity regulator alpha	0.13916789172
galactosamine (N-acetyl)-6-sulfatase	-0.06622628783
RecQ like helicase 4	0.14752684803
LBH regulator of WNT signaling pathway	0.06252281278
dachsous cadherin-related 1	-0.08913843822
activin A receptor type 1B	-0.0710489399
trimethylguanosine synthase 1	0.03858562474
glycerol-3-phosphate dehydrogenase 1 like	0.05067906054
histone deacetylase 11	-0.08104244799
SPT2 chromatin protein domain containing 1	0.05517389721
DEAD-box helicase 6	0.04692184276
Cas scaffold protein family member 4	0.09781279925
glycerophosphodiester phosphodiesterase domain containing 3	-0.08153555571
Sin3A associated protein 30	0.16176071924
rhotekin	0.16726852095
sine oculis binding protein homolog	0.17596144037
ADP ribosylation factor like GTPase 8B	-0.0413784765
PRELI domain containing 1	-0.08214450958
tripartite motif containing 9	-0.14450114804
NOP2/Sun RNA methyltransferase 4	0.04395763519
WD repeat domain 62	0.1173764673
gamma-glutamyl hydrolase	0.14122354422
BCL2 like 12	0.06778169678
potassium inwardly rectifying channel subfamily J member 10	-0.17861756019
membrane spanning 4-domains A4A	-0.14727166443
FA complementation group G	0.07138976475
zinc finger protein 329	0.06032776584
Scm polycomb group protein like 4	0.06167480622
interleukin 15	-0.10605428605
ATPase phospholipid transporting 11A	-0.06830088166

abhydrolase domain containing 8	-0.07193483909
BAR/IMD domain containing adaptor protein 2	0.07705720271
glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinas	0.04349222448
beta-1,4-galactosyltransferase 1	0.05015014796
IQ motif and Sec7 domain ArfGEF 1	-0.06021154071
platelet factor 4 variant 1	-0.19993083455
radial spoke head 14 homolog	0.14600826894
zinc finger protein 138	0.08318048162
myelin expression factor 2	0.1203931734
nuclear transcription factor Y subunit alpha	0.05380204742
tetratricopeptide repeat domain 28	0.1354536904
ring finger protein 32	0.15489631878
minichromosome maintenance complex component 3	0.05302098841
oligodendrocyte myelin glycoprotein	-0.13421589002
kyphoscoliosis peptidase	0.18364847848
cAMP responsive element binding protein 3 like 2	0.0501897371
CKLF like MARVEL transmembrane domain containing 7	0.04137252984
CAP-Gly domain containing linker protein 3	0.10121243748
RAR related orphan receptor A	0.06461060304
ELOVL fatty acid elongase 4	0.12821425352
chromodomain helicase DNA binding protein 7	0.06904081084
pyruvate carboxylase	-0.10041054203
sirtuin 1	0.04980121588
isthmin 1	-0.11101324421
golgi phosphoprotein 3 like	-0.06457101839
SH3 domain containing 19	0.19226081518
TBC1 domain family member 30	0.09575239923
actin related protein 3	-0.04785200372
RAB39A, member RAS oncogene family	-0.12802893103
solute carrier organic anion transporter family member 4A1	0.15196090528
kelch like family member 8	0.08159827215
cyclin F	0.10031816512
glucose-fructose oxidoreductase domain containing 1	0.08876124471
protein interacting with PRKCA 1	0.06341211725
tetratricopeptide repeat domain 30B	0.10435247759
MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	0.05360691248
SMAD family member 1	-0.10287656036
formin like 2	0.14032834055
eyes shut homolog	0.15747981306
pejvakin	0.14295560465
family with sequence similarity 53 member C	-0.08100051852
DNA polymerase epsilon 2, accessory subunit	0.12121660834
zinc finger protein 418	0.08980283746
HDGF like 3	-0.07643077722
zinc finger protein 256	0.09889722773
valosin containing protein lysine methyltransferase	-0.07556299041

unc-119 lipid binding chaperone B	0.05266460446
zinc finger protein 397	0.04266666889
DnaJ heat shock protein family (Hsp40) member C9	0.05007188201
sarcosine dehydrogenase	-0.09403706843
leucine rich repeat containing 42	0.06777186818
atlastin GTPase 2	0.0644842169
TraB domain containing 2A	-0.06867854512
G protein-coupled receptor 155	-0.0666359114
protein phosphatase 3 catalytic subunit gamma	0.05071741966
POU class 2 homeobox 1	0.04560893793
ras homolog family member B	0.10662070839
major histocompatibility complex, class II, DR beta 5	0.09254903247
potassium voltage-gated channel subfamily A member 3	0.08711273262
interleukin 1 receptor type 1	-0.14351397194
solute carrier family 36 member 1	-0.07333079811
C-C motif chemokine receptor 1	-0.12404066206
heat shock protein family A (Hsp70) member 4	0.03360953407
SPARC (osteonectin), cwcw and kazal like domains proteoglycan 2	0.06047037635
YEATS domain containing 2	0.04523221026
aspartate beta-hydroxylase domain containing 2	-0.11567642408
cytochrome c oxidase assembly factor 1 homolog	0.05982618724
N-alpha-acetyltransferase 40, NatD catalytic subunit	0.05496415472
twinfilin actin binding protein 2	-0.07452883614
suppression of tumorigenicity 7 like	-0.04809785626
glutaminy-peptide cyclotransferase like	0.07560782881
chromodomain Y like 2	-0.06006772778
LYN proto-oncogene, Src family tyrosine kinase	-0.07008277491
ZW10 interacting kinetochore protein	0.17232215952
ectonucleoside triphosphate diphosphohydrolase 2	0.2462491384
sterile alpha motif domain containing 4A	0.15533357572
major histocompatibility complex, class II, DM beta	0.0796602846
NADH:ubiquinone oxidoreductase core subunit S2	-0.03550805203
5'-aminolevulinate synthase 1	-0.05748632604
kelch repeat and BTB domain containing 6	0.09242225081
NUMB endocytic adaptor protein	-0.0635290826
glyoxalase I	0.05373314067
mitogen-activated protein kinase kinase kinase 6	-0.08737677293
COPI coat complex subunit alpha	-0.03646258038
enhancer of polycomb homolog 1	0.02648771372
X-ray repair cross complementing 2	0.16260118955
solute carrier family 9 member A9	-0.05962160645
storkhead box 1	0.19720795581
Rho guanine nucleotide exchange factor 5	0.11382679513
recombination signal binding protein for immunoglobulin kappa J region	-0.05501986121
solute carrier family 44 member 3	-0.15207756575
chromosome 13 open reading frame 46	-0.11161197126

inositol polyphosphate multikinase	-0.07507004512
ELL associated factor 2	0.07803177925
potassium channel tetramerization domain containing 12	-0.08204317214
CD1a molecule	0.12348652573
nardilysin convertase	-0.04911148261
novel protein	-0.10470099168
antagonist of mitotic exit network 1 homolog	-0.06653812113
cAMP responsive element binding protein like 2	-0.04807512394
rhophilin Rho GTPase binding protein 2	0.19952122812
tubulin alpha 1a	-0.10208771367
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 10 (pu	0.12834570608
RAB37, member RAS oncogene family	0.06751744372
papilin, proteoglycan like sulfated glycoprotein	0.13701441727
DAZ interacting zinc finger protein 3	0.07140758151
patatin like phospholipase domain containing 2	-0.09283483345
AKT serine/threonine kinase 1	0.06114589412
SprT-like N-terminal domain	0.05419142138
deltex E3 ubiquitin ligase 1	0.08613266913
choline phosphotransferase 1	-0.11614333292
coenzyme Q7, hydroxylase	-0.05370461017
PDZ and LIM domain 1	0.11523124683
solute carrier family 2 member 8	0.10740400289
arrestin domain containing 3	0.10408206317
cyclin dependent kinase 14	-0.08237811949
gasdermin D	-0.07606805625
polyamine modulated factor 1 binding protein 1	0.10410771063
WRN RecQ like helicase	0.052518511
novel transcript, METTL10-FAM53B readthrough	0.10012256066
solute carrier family 22 member 17	-0.10554641783
elongation factor for RNA polymerase II 2	0.07187035937
speedy/RINGO cell cycle regulator family member A	-0.09710534221
crystallin beta-gamma domain containing 1	-0.0437356507
X-prolyl aminopeptidase 3	0.03920272843
nicotinamide riboside kinase 1	-0.05389789202
zinc finger DHHC-type palmitoyltransferase 14	0.05912756769
methionine sulfoxide reductase A	-0.07270533919
nucleolar protein 4 like	-0.04231750661
ADP ribosylation factor like GTPase 10	0.05966395722
sodium channel epithelial 1 subunit delta	-0.10659761796
zinc finger DHHC-type containing 11B	0.16804297565
zinc finger with KRAB and SCAN domains 7	-0.08852086129
tripartite motif containing 27	0.04439565695
BCL2 like 11	-0.06083258623
interleukin 18 binding protein	0.05226278062
serine/threonine kinase 11 interacting protein	-0.04853617606
zinc finger and BTB domain containing 47	-0.08137724643

periphilin 1	0.0372935256
ATP synthase inhibitory factor subunit 1	0.04275954175
dicer 1, ribonuclease III	0.07569168837
family with sequence similarity 126 member A	0.05884719899
ETHE1 persulfide dioxygenase	-0.05960891266
PR/SET domain 4	0.0403101922
keratin 72	-0.09524162361
glucosidase II alpha subunit	0.0323444283
synergin gamma	0.03265553111
terminal nucleotidyltransferase 4B	0.04025611912
stabilizer of axonemal microtubules 2	0.14472911623
adhesion G protein-coupled receptor D1	-0.11290815307
Dmx like 1	0.05804922128
DNA ligase 3	0.04391309624
mitogen-activated protein kinase kinase 1	0.03573467071
prickle planar cell polarity protein 1	0.09807689934
tubulin gamma 1	0.08761340901
USO1 vesicle transport factor	0.0494967357
G protein-coupled receptor 27	-0.11373064082
TIMP metalloproteinase inhibitor 2	-0.07303239094
complement C1q C chain	0.30154346754
islet cell autoantigen 1	0.07004381061
GrpE like 1, mitochondrial	-0.05637281101
centrosomal protein 350	0.04313497942
TATA-box binding protein associated factor 13	-0.06165242895
leucine rich repeat neuronal 2	0.18334399702
cyclin T1	0.0456322224
breast carcinoma amplified sequence 4	0.06508688648
leucine rich repeat neuronal 1	-0.13196023521
MAF bZIP transcription factor G	-0.08546258767
C-terminal binding protein 2	-0.06186717593
GEM interacting protein	-0.06024065403
CDC28 protein kinase regulatory subunit 2	0.12857622945
transmembrane protein 243	0.04859102112
transmembrane protein 268	0.08939483519
chromobox 5	0.05210236097
ectodermal-neural cortex 1	-0.07722253806
ITPRIP like 1	0.09623737141
alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase	-0.07057211203
COP1 E3 ubiquitin ligase	-0.06352821954
zinc finger protein 839	-0.04702058208
ZFP82 zinc finger protein	0.06383962534
ras homolog family member G	-0.10678947725
zinc finger protein 470	0.08692344177
glycogen phosphorylase, muscle associated	-0.07466485282
melanoregulin	0.08195506947

leucine rich repeat protein 1	0.06265096318
Kruppel like factor 4	-0.09648688053
Ras like without CAAX 1	-0.06143581868
methyltransferase like 7A	0.0635590944
ubiquitin conjugating enzyme E2 R2	-0.07392708972
mitotic arrest deficient 2 like 2	-0.07808167841
exophilin 5	-0.09926004507
transmembrane protein 269	0.16320395441
outer dense fiber of sperm tails 2 like	0.08851929699
lectin, mannose binding 1	0.06834670182
aurora kinase B	0.12948340655
centromere protein U	0.11286131001
inka box actin regulator 2	0.0973618548
DDB1 and CUL4 associated factor 10	-0.03970104475
tubulin folding cofactor B	-0.04730012086
transmembrane protein 88	-0.09994361722
G protein-coupled receptor 55	0.08343868497
T cell immune regulator 1, ATPase H ⁺ transporting V0 subunit a3	-0.06287698093
ZFP30 zinc finger protein	0.07027332004
SATB homeobox 2	-0.12768861538
solute carrier family 24 member 3	-0.10995846418
zinc finger protein 429	-0.06455060856
cryptochrome circadian regulator 2	0.03822441955
chromosome 1 open reading frame 159	-0.05289134485
dipeptidase 2	0.08211632446
LHFPL tetraspan subfamily member 5	-0.20785199514
mannosidase alpha class 1A member 2	0.09954592336
transmembrane immune signaling adaptor TYROBP	-0.08270928523
SUMO specific peptidase 5	0.02569968783
tumor protein p53 binding protein 1	0.04517348576
palmitoyl-protein thioesterase 1	-0.05855556553
inositol polyphosphate-1-phosphatase	-0.05762278991
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 1	0.10521816228
E74 like ETS transcription factor 2	-0.06157851427
netrin G1	0.26755350454
steroid 5 alpha-reductase 3	-0.07258776757
catenin beta 1	-0.0339383557
heat shock protein family A (Hsp70) member 1 like	-0.06650852288
oxysterol binding protein	0.02795754857
TNFRSF1A associated via death domain	0.03939608748
eukaryotic translation initiation factor 4 gamma 3	-0.07628137668
programmed cell death 1	0.10648667447
synaptonemal complex protein 2	-0.10423249808
zinc finger protein 569	0.07156350723
MDM2 binding protein	0.07121591438
plectin	-0.05951078407

G protein-coupled receptor 132	-0.05366303614
tropomyosin 3	-0.04596854993
Yip1 interacting factor homolog B, membrane trafficking protein	-0.05399978729
RUNX family transcription factor 1	-0.0472650796
DBF4 zinc finger	0.06020158833
PML-RARA regulated adaptor molecule 1	-0.06976473128
BCAR3 adaptor protein, NSP family member	0.08439503279
kinesin light chain 4	0.04425899084
ring finger protein 144B	-0.07855748989
SET domain bifurcated histone lysine methyltransferase 1	-0.03754976761
dynein axonemal heavy chain 17	-0.15769532975
thioredoxin domain containing 16	0.0545121907
dynein axonemal assembly factor 2	0.07286842724
mitochondrial methionyl-tRNA formyltransferase	0.04957999886
C-type lectin domain family 12 member A	-0.08329275904
eukaryotic translation initiation factor 4E nuclear import factor 1	0.03365796925
regulator of G protein signaling 19	-0.07207049463
BRCA1 associated RING domain 1	0.07411376992
hypoxia inducible factor 1 subunit alpha	-0.0657382621
Sad1 and UNC84 domain containing 2	-0.03789356921
mitochondrial genome maintenance exonuclease 1	0.03657497454
RIO kinase 3	-0.09683263467
granzyme K	0.10220349964
autophagy related 2A	0.09526196236
makorin ring finger protein 2	0.04113244913
3'-phosphoadenosine 5'-phosphosulfate synthase 1	-0.06094826326
non-SMC condensin I complex subunit D2	0.04043696303
ATPase secretory pathway Ca ²⁺ transporting 1	0.03610465812
cytohesin 1	0.03905403275
protein phosphatase targeting COQ7	0.05749693117
Grid2 interacting protein	0.15445372813
growth arrest specific 2	0.11047800206
tumor necrosis factor	-0.0942447545
coiled-coil domain containing 191	0.07149705674
protein tyrosine phosphatase 4A3	0.08209806427
trichoplein keratin filament binding	-0.03937574967
adenylosuccinate synthase 1	-0.12005541865
VPS8 subunit of CORVET complex	-0.05136686839
TNFAIP3 interacting protein 2	-0.04235839671
mitochondrial amidoxime reducing component 2	0.15538143782
tropomyosin 4	-0.04975997847
membrane associated ring-CH-type finger 9	0.06556803705
hes family bHLH transcription factor 1	-0.16200974114
peroxisomal biogenesis factor 14	-0.03834435232
alanyl-tRNA synthetase 1	0.04927395754
IDNK gluconokinase	-0.06044742845

serpin family B member 10	-0.20035412007
ZFP36 ring finger protein	-0.07598669985
vascular endothelial growth factor B	0.08022446095
autophagy related 4D cysteine peptidase	-0.05134647338
ubiquitin conjugating enzyme E2 Q2	0.04722113172
deoxycytidine kinase	0.06027192086
zinc finger protein 665	0.0773487212
karyopherin subunit alpha 2	0.07844743729
prostaglandin F2 receptor inhibitor	-0.14407892744
interleukin 1 receptor associated kinase 1 binding protein 1	0.07395732012
SH3 domain containing ring finger 3	-0.11602431735
guanylate cyclase activator 1B	0.05836099212
RIC3 acetylcholine receptor chaperone	0.06666831877
RAD50 interactor 1	0.0528399648
heparan sulfate 2-O-sulfotransferase 1	-0.08827379124
intracisternal A particle-promoted polypeptide	0.04737072047
Cbl proto-oncogene B	0.04831785234
adenylate cyclase 3	-0.11151478763
transmembrane protein 106C	0.06089555738
R3H domain containing 1	0.03026445128
MAU2 sister chromatid cohesion factor	-0.04220562003
cellular repressor of E1A stimulated genes 1	-0.10219238618
zinc finger protein 253	0.06254367934
MAF bZIP transcription factor	0.07256397499
ACD shelterin complex subunit and telomerase recruitment factor	0.06258567289
calcyclin binding protein	0.05272961057
plasminogen receptor with a C-terminal lysine	-0.05708986077
mesencephalic astrocyte derived neurotrophic factor	0.06966500429
zinc finger protein 385A	-0.08805218627
patatin like phospholipase domain containing 6	-0.05570159345
arginine and serine rich protein 1	-0.04779925945
SID1 transmembrane family member 2	0.05626438296
thioredoxin reductase 2	-0.04633842122
caspase recruitment domain family member 16	-0.13217295118
MYC associated factor X	-0.05057317992
hdc homolog, cell cycle regulator	0.04683015842
DNA polymerase epsilon 4, accessory subunit	-0.07816190213
zinc finger and BTB domain containing 21	0.06367030135
transmembrane p24 trafficking protein 10	0.03658874984
A-kinase anchoring protein 7	0.06203742077
endoplasmic reticulum metalloproteinase 1	0.05569981192
clathrin light chain A	-0.03177884467
zinc finger protein 219	-0.08796816308
chromosome 4 open reading frame 19	0.20406989299
palladin, cytoskeletal associated protein	-0.10371719006
centromere protein Q	0.08076313018

deoxynucleotidyltransferase terminal interacting protein 1	-0.0503826237
membrane metalloendopeptidase	-0.12218689613
mediator complex subunit 16	-0.05745011063
catenin alpha 1	-0.05449963639
ankyrin repeat and SOCS box containing 1	-0.04254903186
replication factor C subunit 1	0.0383157811
cathepsin B	-0.08660182051
solute carrier family 22 member 13	-0.15395814664
zinc finger protein 317	0.03317947937
glycoprotein integral membrane 1	0.03603416006
MYB binding protein 1a	0.05038726236
M-phase phosphoprotein 8	0.02924255173
coiled-coil domain containing 93	-0.04767630971
WW domain binding protein 11	0.0456071594
inositol hexakisphosphate kinase 2	0.03268565182
mitogen-activated protein kinase 9	0.03557822918
calcium voltage-gated channel auxiliary subunit gamma 8	-0.1512923101
contactin associated protein 1	0.09177753406
X-ray repair cross complementing 4	-0.05017857124
adenosylmethionine decarboxylase 1	0.06307721777
serine hydroxymethyltransferase 2	0.06835007145
high mobility group nucleosome binding domain 1	0.05669161595
ArfGAP with FG repeats 2	0.05609293982
PARN like, ribonuclease domain containing 1	-0.15766491981
GRIP and coiled-coil domain containing 1	0.06203990036
serine/threonine kinase 33	0.14459058991
serine incorporator 2	-0.10779831487
actin related protein 2/3 complex subunit 3	-0.04995019679
chromosome alignment maintaining phosphoprotein 1	0.0516557319
phospholipase D family member 5	0.20746907388
formin 1	0.13556037799
mannosidase endo-alpha	0.09495552236
synaptotagmin like 3	0.07374628819
SEC14 like lipid binding 3	0.26573435267
EPH receptor A1	-0.09070306748
xyloside xylosyltransferase 1	-0.0470672727
N-acetylglucosamine kinase	-0.05510831158
SKI proto-oncogene	0.06184739979
CHURC1-FNTB readthrough	-0.04506819312
islet cell autoantigen 1 like	0.08162185994
ubiquitin specific peptidase 45	0.07229023868
COPI coat complex subunit beta 1	-0.04086220649
ribosomal protein S6 kinase C1	-0.04260934255
negative elongation factor complex member A	0.0352058718
RWD domain containing 4	0.05438802988
solute carrier family 12 member 1	0.24310698907

phospholipase C beta 3	-0.06307111564
BTB domain containing 8	-0.06879144992
leukotriene B4 receptor 2	-0.08450443209
dihydropyrimidinase like 2	-0.07112388163
adenylate kinase 8	0.17606494853
amyloid beta precursor protein binding family A member 3	-0.04403388495
ISL LIM homeobox 2	0.1269196562
zinc finger FYVE-type containing 16	-0.06896300514
beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group)	-0.15654852914
complement C5	0.09492372058
component of oligomeric golgi complex 1	0.0381592042
NHL repeat containing 2	0.06223599465
DDB1 and CUL4 associated factor 7	0.02660893887
Rho guanine nucleotide exchange factor 39	0.16452082059
syntrophin beta 1	-0.05357920943
aspartate beta-hydroxylase	-0.10797018281
zinc finger and SCAN domain containing 29	0.05010770593
RB binding protein 6, ubiquitin ligase	0.04063517732
tripartite motif containing 21	-0.08777078896
transmembrane protein 11	-0.05381925412
myotubularin related protein 3	-0.06137629918
glycoprotein IX platelet	-0.18400567726
galactosidase beta 1 like	-0.07950557068
LMBR1 domain containing 1	0.04860953028
syntaxin 16	-0.11422233175
transmembrane protein 123	0.08500955381
SH3 domain binding protein 1	-0.10373171099
polyribonucleotide nucleotidyltransferase 1	0.11187167547
SECIS binding protein 2	0.04256172261
titin-cap	-0.11092097789
POC1 centriolar protein B	-0.05320033057
abhydrolase domain containing 15	0.05366095864
CREB regulated transcription coactivator 3	-0.03937558028
ankyrin repeat and SOCS box containing 13	-0.0654438419
zinc finger and SCAN domain containing 9	0.06012815731
TAR (HIV-1) RNA binding protein 1	0.06649851573
folate receptor beta	-0.1295178902
sphingomyelin phosphodiesterase 3	-0.13557359938
FYVE, RhoGEF and PH domain containing 2	0.07476110929
tet methylcytosine dioxygenase 3	-0.0482382531
exocyst complex component 8	0.06708264961
integrator complex subunit 4	0.0258679614
zinc finger protein 367	0.06559787044
CCZ1 homolog, vacuolar protein trafficking and biogenesis associated	-0.04954743948
netrin 4	0.13721848518
TUB like protein 4	0.04563453658

peroxisomal biogenesis factor 11 gamma	-0.15889622984
zinc finger protein 614	0.0670877488
mesenchyme homeobox 1	-0.10066376719
single-pass membrane protein with coiled-coil domains 4	-0.08490929005
phosphorylase kinase regulatory subunit beta	0.03353348602
H2B clustered histone 12	-0.12754794559
activity dependent neuroprotector homeobox	0.03754616688
splicing factor 3a subunit 1	0.05715080811
ring finger protein 10	-0.14149608124
zinc finger protein 524	-0.07625411217
thrombomodulin	0.1104415482
UDP-glucose ceramide glucosyltransferase	-0.08395832746
C-type lectin domain family 4 member E	0.12371583656
phosphoglucomutase 2	-0.06198082795
glutathione S-transferase mu 3	-0.10328407203
lactate dehydrogenase A	-0.06530242381
zinc finger and SCAN domain containing 12	0.06433100658
cryptochrome circadian regulator 1	0.04951204631
RNA binding motif protein 4B	0.03832597415
sphingomyelin synthase 1	-0.04010926222
metallothionein 1F	-0.1085023526
F-box and leucine rich repeat protein 19	-0.05128904135
G protein-coupled receptor 135	0.07049258852
GTP binding protein 1	-0.07128357308
eukaryotic translation initiation factor 1A domain containing	0.03770253096
X-ray repair cross complementing 3	0.06162800259
leucine rich repeat containing 6	-0.09026806649
hyperpolarization activated cyclic nucleotide gated potassium and sodi	0.0884264524
TBCC domain containing 1	0.05387773643
CEA cell adhesion molecule 1	-0.13414567518
MOB kinase activator 1B	-0.05767162607
spermatogenesis associated serine rich 2 like	0.19512622644
NECAP endocytosis associated 2	-0.04354677389
ring finger protein 157	-0.06480730986
PDZ and LIM domain 5	-0.03423291915
dipeptidase 3	0.11835571857
transmembrane protein 53	0.07856745663
WD repeat domain 46	0.04876400309
mitogen-activated protein kinase kinase kinase 2	-0.05672725552
DS cell adhesion molecule like 1	0.136319127
WD repeat domain 77	0.05100072482
kynurenine aminotransferase 3	-0.03359822712
CD320 molecule	0.07480798661
collagen type VIII alpha 2 chain	-0.11962228487
glutamine--fructose-6-phosphate transaminase 1	0.0397028943
3-hydroxyacyl-CoA dehydratase 2	0.0484658015

pericentriolar material 1	0.05205300642
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation prc	0.04131499843
protein phosphatase 2 regulatory subunit B'delta	0.04012670137
chromodomain helicase DNA binding protein 9	0.04410167421
cell adhesion molecule 4	-0.0956026819
pre-mRNA processing factor 8	0.04433546393
TRIM59 and iFT80 readthrough	0.08526191032
endoplasmic reticulum-golgi intermediate compartment 1	0.08257093881
primase and DNA directed polymerase	0.05982109447
PTOV1 extended AT-hook containing adaptor protein	0.05251157017
epidermal growth factor	-0.16370467966
hepatitis A virus cellular receptor 2	-0.05321848178
ankyrin repeat domain 13D	-0.04262366885
C2 domain containing 3 centriole elongation regulator	0.0400136268
protein inhibitor of activated STAT 3	-0.03974711182
proteasome 20S subunit beta 3	-0.08113785288
synaptosome associated protein 23	-0.05155272577
SEC24 homolog C, COPII coat complex component	0.02993163441
nuclear factor of activated T cells 3	0.03660921034
retinoid X receptor alpha	-0.06603410708
Scm like with four mbt domains 1	0.05198510394
TNF receptor superfamily member 1B	-0.05887755817
Jun dimerization protein 2	0.08911412262
GDP-mannose pyrophosphorylase B	0.05546533469
c-Maf inducing protein	-0.05660325335
acyl-CoA synthetase short chain family member 1	0.03497228716
NLR family pyrin domain containing 3	-0.0706774499
major histocompatibility complex, class II, DR alpha	0.0884360991
melanocyte inducing transcription factor	-0.09887119798
G protein subunit beta 2	-0.08533802312
ADP ribosylation factor 6	0.04053121793
coiled-coil domain containing 137	0.04609264989
sphingosine kinase 1	-0.12354479769
fucose kinase	-0.04643061872
kelch like family member 11	0.07447851682
pellino E3 ubiquitin protein ligase 1	0.07042416731
clusterin	-0.16846596265
death effector domain containing	-0.04439725069
regulator of G protein signaling 14	-0.05042610045
acyl-CoA synthetase long chain family member 3	-0.0537118824
triggering receptor expressed on myeloid cells like 1	-0.1834429011
SH2 domain containing 3C	-0.04827753977
zinc finger protein 654	-0.03978851431
collagen type IX alpha 3 chain	-0.10605005966
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1	-0.05601796536
galectin like	0.10121925802

ATPase H ⁺ transporting accessory protein 1 like	0.07040557349
major facilitator superfamily domain containing 11	-0.04179305035
protein kinase AMP-activated non-catalytic subunit gamma 1	-0.03458964022
phospholipid phosphatase 6	0.0612634446
lysine demethylase 2A	-0.04343741486
lipase C, hepatic type	-0.06928852316
mitogen-activated protein kinase kinase kinase kinase 2	0.04296801059
EYA transcriptional coactivator and phosphatase 2	0.23720332563
PPFIA binding protein 1	0.07760741187
zinc finger protein 736	0.06560104273
metallophosphoesterase 1	0.05746818721
thyroid hormone receptor interactor 10	0.07880430369
dual adaptor of phosphotyrosine and 3-phosphoinositides 1	-0.07519002454
chloride intracellular channel 4	-0.06004173172
zinc finger protein 543	0.08143869959
BRI3 binding protein	0.04365800968
C-type lectin domain family 1 member A	-0.08311938807
tetraspanin 9	-0.12759297216
RNA polymerase III subunit E	0.0377544142
centriole, cilia and spindle associated protein	0.05660137501
semaphorin 4C	-0.06424332971
MICAL like 1	0.05950880966
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta	-0.05063132212
calcyphosine 2	0.07888606851
tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1	0.1930843353
transient receptor potential cation channel subfamily M member 4	-0.12882296924
methenyltetrahydrofolate synthetase	0.10703927877
treacle ribosome biogenesis factor 1	0.04258151486
annexin A7	-0.0395101139
ring finger protein 19B	-0.0718530863
G protein-coupled receptor kinase 3	-0.05363249393
zinc finger protein 606	0.05074576188
ubiquitin specific peptidase 35	-0.05083141367
Sp4 transcription factor	0.04696342386
synaptophysin like 1	0.04547091964
transmembrane serine protease 3	0.10289651155
Rab interacting lysosomal protein like 1	-0.08839330374
zinc finger protein 706	0.03333437654
potassium voltage-gated channel subfamily C member 3	-0.07863708677
caspase 8	0.04194676673
S100 calcium binding protein B	-0.10805313267
cadherin 2	0.19899082847
fibroblast growth factor receptor 2	-0.14189276768
dihydrouridine synthase 2	0.06405937352
gasdermin E	0.1630591711
free fatty acid receptor 4	-0.15484133456

ectopic P-granules autophagy protein 5 homolog	-0.0599620193
WW and C2 domain containing 2	-0.06856271597
ribonuclease P/MRP subunit p38	0.0413131476
kinetochore localized astrin (SPAG5) binding protein	0.07437237411
scavenger receptor class B member 1	0.05835627946
CD2 associated protein	0.06474319573
chromosome 19 open reading frame 54	0.04997674196
novel protein	0.08736792034
dihydrolipoamide S-acetyltransferase	0.05004452029
Ras and Rab interactor 2	-0.0834773266
3-oxoacid CoA-transferase 1	0.05005035408
zinc finger protein 136	0.04451386868
protein phosphatase 1 regulatory inhibitor subunit 14B	0.07985963928
cyclin B1 interacting protein 1	0.05751141505
CD27 molecule	0.06739692091
HIVEP zinc finger 2	-0.06235921304
DM1 protein kinase	-0.07139834442
LPS responsive beige-like anchor protein	0.03999711282
adenosine A2b receptor	-0.12631658876
	0.06772161079
chromosome 18 open reading frame 25	0.05724483505
HEAT repeat containing 3	-0.04388534199
URB1 ribosome biogenesis homolog	0.04802910731
interferon induced transmembrane protein 2	-0.12588433501
cyclin dependent kinase 5	-0.07914632199
leukocyte associated immunoglobulin like receptor 1	-0.0466441024
protein kinase, membrane associated tyrosine/threonine 1	0.15118247253
chromodomain helicase DNA binding protein 3	-0.03404558188
tripartite motif containing 13	0.03740597728
peptidase D	-0.04960805929
podocalyxin like 2	0.11585422929
fasciculation and elongation protein zeta 2	-0.0360161251
C-type lectin domain family 4 member C	0.12682650895
cyclase associated actin cytoskeleton regulatory protein 1	-0.05904858079
LDL receptor related protein 1	-0.10441222678
elongation factor Tu GTP binding domain containing 2	-0.03722057743
ring finger and CHY zinc finger domain containing 1	-0.05181519975
zinc finger protein 814	0.04720953632
TATA-box binding protein associated factor 10	0.0447502579
cardiomyopathy associated 5	-0.09283029347
thioredoxin related transmembrane protein 4	0.06594269077
centrosomal protein 164	0.03826058054
phosphofurin acidic cluster sorting protein 1	0.04630901908
tectonin beta-propeller repeat containing 1	-0.03798889834
engulfment and cell motility 3	-0.06556349221
TBC1 domain family member 14	-0.06094246914

hexosaminidase subunit beta	-0.04193545586
complement C5a receptor 1	-0.08914309263
xenotropic and polytropic retrovirus receptor 1	0.02985572841
RAD21 cohesin complex component	0.05294914027
novel transcript	-0.08801701245
AT-rich interaction domain 3A	-0.06027593453
BCL2 related protein A1	-0.12710378288
solute carrier family 49 member 3	-0.07567974901
zinc finger GRF-type containing 1	0.07031725836
abhydrolase domain containing 6, acylglycerol lipase	0.05023636319
mitogen-activated protein kinase kinase kinase 8	-0.0391187452
BLCAP apoptosis inducing factor	0.02295491043
TSPY like 5	0.10619458536
chromosome 12 open reading frame 73	0.06888187032
ras responsive element binding protein 1	-0.03700959098
CKLF like MARVEL transmembrane domain containing 5	-0.18115890849
Bcl2 modifying factor	-0.05077274631
UBX domain protein 10	0.1214386593
centrosomal protein 170	-0.04771961997
tetratricopeptide repeat domain 7B	-0.08746681748
solute carrier family 30 member 5	0.03243505617
DDB1 and CUL4 associated factor 16	0.05217630027
activin A receptor like type 1	-0.15426725312
ATPase family AAA domain containing 2	0.05797356891
gelsolin	-0.07853777426
orosomuroid 1	-0.18636183128
TATA-box binding protein	0.03519543759
NSE1 homolog, SMC5-SMC6 complex component	-0.03725157259
retinol dehydrogenase 11	-0.0586644031
transforming acidic coiled-coil containing protein 3	-0.04887313192
ubiquitin specific peptidase 24	0.04560597812
obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF	-0.06926750157
ubiquitin specific peptidase 3	-0.037500957
MALT1 paracaspase	0.03580929594
coenzyme Q8A	0.04452060647
cilia and flagella associated protein 20	0.04335274024
CTD nuclear envelope phosphatase 1 regulatory subunit 1	-0.05042782656
BTB domain and CNC homolog 2	0.0658078347
synaptotagmin 1	0.17505041458
kinesin family binding protein	0.04198404739
zinc finger protein 720	0.05541837133
proline rich basic protein 1	0.14850618603
sequestosome 1	-0.05821519463
phospholipase B domain containing 2	-0.0581205546
zinc finger protein 134	0.04316363087
SFT2 domain containing 1	-0.04445602487

NSF attachment protein beta	-0.05123701575
trans-L-3-hydroxyproline dehydratase	0.06174884159
adrenoceptor beta 2	0.08223665057
sterile alpha motif domain containing 8	-0.0427870766
speckle type BTB/POZ protein like	-0.05541062093
mitogen-activated protein kinase 13	-0.06982745195
DNA replication helicase/nuclease 2	0.0743734306
pleckstrin homology and FYVE domain containing 2	0.05271734861
RNA polymerase III subunit G	0.11790854711
protein kinase D1	0.2993410375
REV3 like, DNA directed polymerase zeta catalytic subunit	-0.03633323658
copine family member 9	-0.13598737056
olfactomedin 4	-0.27458224128
replication protein A3	0.07659106715
C-type lectin domain containing 16A	0.03243150161
Abelson helper integration site 1	0.06257477796
heat shock protein 90 alpha family class B member 1	0.04961923613
inhibitor of DNA binding 3, HLH protein	0.09482752144
opioid related nociceptin receptor 1	-0.05685493163
serine/threonine kinase 10	-0.03807298687
cleavage and polyadenylation specific factor 2	-0.03165092933
suppressor of variegation 3-9 homolog 2	0.1033100761
collagen type XXIV alpha 1 chain	0.14102486521
zinc finger CCHC-type containing 3	0.03800133756
potassium channel tetramerization domain containing 21	-0.05063921327
interferon gamma inducible protein 16	-0.08410275789
Jupiter microtubule associated homolog 1	-0.07675885901
doublecortin like kinase 2	0.17162279827
zinc finger protein 446	0.06059294494
zinc finger protein 875	0.03900350812
syntaxin 3	-0.06318491672
MIA SH3 domain ER export factor 2	-0.03281713161
bromodomain containing 3	0.03907184013
RAB19, member RAS oncogene family	-0.11842063196
semaphorin 3C	0.06640198057
anoctamin 8	-0.06234312751
mucosal vascular addressin cell adhesion molecule 1	0.13297231017
serine peptidase inhibitor Kazal type 8 (putative)	-0.13952260446
G protein-coupled receptor 137	-0.05150120626
lysosomal associated membrane protein 1	-0.05129917219
zinc finger protein 226	0.06625249662
RE1 silencing transcription factor	0.02850779261
N-acetyltransferase 10	0.03998171273
homeobox C4	0.10974012184
exostosin like glycosyltransferase 2	0.09093023418
toll like receptor 10	0.07667195949

CBFA2/RUNX1 partner transcriptional co-repressor 2	0.03172196318
ubiquitin conjugating enzyme E2 D2	0.02838907739
microtubule associated protein 9	0.08379036405
leukotriene B4 receptor	-0.06252332604
neurocalcin delta	0.06646369784
ras homolog family member T1	-0.04399281076
CD101 molecule	-0.06852258085
chromobox 8	0.0814416671
creatine kinase B	-0.16825110131
solute carrier family 25 member 24	-0.0569053603
DNA replication fork stabilization factor DONSON	0.06539160227
spectrin beta, non-erythrocytic 5	-0.09702060545
protein kinase N2	0.06288358404
catalase	-0.06691240055
mitogen-activated protein kinase kinase kinase 11	-0.0602891981
SP100 nuclear antigen	-0.05851398196
nuclear receptor coactivator 3	0.03928588507
zinc finger AN1-type containing 2A	0.0468863907
TNF superfamily member 8	0.05811270119
fibronectin type III domain containing 10	-0.10971913761
serine protease 41	-0.16998771651
mevalonate kinase	-0.06077762764
interferon alpha inducible protein 27	0.3966166792
methionine adenosyltransferase 2A	0.038540467
C-terminal Src kinase	-0.04960652714
protein tyrosine phosphatase receptor type G	0.21370329025
lysine demethylase 3B	-0.03778433588
late endosomal/lysosomal adaptor, MAPK and MTOR activator 5	-0.08426197934
Ras and Rab interactor 3	-0.04965619217
EH domain containing 4	-0.05124007314
zinc finger protein 33B	0.03857925105
ERCC excision repair 1, endonuclease non-catalytic subunit	0.03982742133
serpin family B member 9	-0.06278441556
signal-induced proliferation-associated 1	-0.05677139602
misato mitochondrial distribution and morphology regulator 1	0.0730457616
zinc finger protein 701	0.03576350109
chromosome 6 open reading frame 62	0.04130508131
TSC22 domain family member 4	-0.0536256284
proline rich nuclear receptor coactivator 2	0.05051685606
transmembrane anterior posterior transformation 1	0.0415519251
HEAT repeat containing 1	0.03907409339
eukaryotic translation initiation factor 4E family member 2	-0.03040188164
zinc finger protein 658	-0.10768342402
RAB40C, member RAS oncogene family	-0.04294051111
colony stimulating factor 3 receptor	-0.06868987697
TIAM Rac1 associated GEF 1	-0.05574400313

matrix metalloproteinase 11	0.12956884766
complement C1q A chain	0.18919506984
zinc finger protein 230	-0.06195140863
terminal uridylyl transferase 4	0.04174204342
peroxisomal trans-2-enoyl-CoA reductase	-0.0691770811
transforming growth factor beta 1	-0.06938009966
protein kinase C alpha	-0.04664343855
LDL receptor related protein 10	-0.07488707026
ataxin 3	-0.02883947784
biotinidase	0.03465017771
inorganic pyrophosphatase 2	-0.03963041089
N-acylsphingosine amidohydrolase 1	-0.0550362042
ATPase sarcoplasmic/endoplasmic reticulum Ca ²⁺ transporting 3	0.04153551912
cytotoxic T-lymphocyte associated protein 4	0.08547078053
pro-platelet basic protein	-0.15431251616
engulfment and cell motility 1	0.04981454779
pyruvate dehydrogenase kinase 1	-0.05180637821
transcription factor 20	0.03635312921
NIMA related kinase 10	0.11793575329
serum/glucocorticoid regulated kinase family member 3	-0.04228156865
lanosterol synthase	-0.04106079382
embryonic ectoderm development	0.03976550966
GRB2 related adaptor protein like	0.09888366789
zinc finger protein 135	0.0761031006
ATPase phospholipid transporting 8B2	0.04651848739
phosphodiesterase 7B	0.08689090849
family with sequence similarity 136 member A	0.04769610755
SIN3-HDAC complex associated factor	0.04188493155
sorting nexin 16	-0.05959921644
5'-nucleotidase, cytosolic IIIA	-0.07972482414
growth arrest specific 2 like 1	-0.12284139426
secretogranin V	0.12742599185
SP140 nuclear body protein	0.08288774116
anoctamin 6	-0.0503610916
taxilin alpha	0.03455687808
FA complementation group F	0.05233066187
prostaglandin D2 receptor 2	-0.13149254084
formiminotransferase cyclodeaminase N-terminal like	0.0701163684
sorting nexin 2	0.04647015196
calmodulin binding transcription activator 2	-0.04244987561
Rho GTPase activating protein 35	0.03348771185
glutamyl-tRNA synthetase 2, mitochondrial	0.04275295298
arginyl-tRNA synthetase 2, mitochondrial	0.04086544803
coiled-coil domain containing 61	-0.04530236558
6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2	0.13263816704
chromosome 4 open reading frame 3	-0.06418212436

SPT5 homolog, DSIF elongation factor subunit	0.03662669709
sarcoglycan beta	0.06574489447
family with sequence similarity 13 member A	-0.05978168713
leucine rich repeat containing 56	0.08435294705
zinc finger protein 469	0.0997494961
leucine rich repeat containing 1	0.08258824119
presenilin 1	-0.03529435917
BRCA1 associated protein	0.02659388997
CXXC repeat containing interactor of PDZ3 domain	0.05661161954
G3BP stress granule assembly factor 1	0.03118111416
supervillin	-0.06025816516
crystallin beta-gamma domain containing 3	-0.06085968359
GCN1 activator of EIF2AK4	0.03948449905
DEP domain containing MTOR interacting protein	0.13732364192
ankyrin repeat domain 28	0.05567127475
RB binding protein 8, endonuclease	0.06522286794
caspase 5	-0.14707869346
zinc finger protein 717	0.04878858932
suppressor of IKBKE 1	0.05350138488
COBW domain containing 6	0.08026772475
adhesion G protein-coupled receptor L1	-0.04787103411
DNA cross-link repair 1C	0.0271497307
potassium voltage-gated channel subfamily A regulatory beta subunit 2	-0.03791694304
family with sequence similarity 8 member A1	-0.07756345795
proliferating cell nuclear antigen	0.06169950372
integrin subunit alpha 1	-0.08079609126
brain enriched myelin associated protein 1	0.15088712372
tumor protein p53 binding protein 2	-0.03872539698
MRE11 homolog, double strand break repair nuclease	0.04488130329
RAD51 recombinase	0.15405264907
phosphoinositide-3-kinase regulatory subunit 6	-0.0655499251
threonine synthase like 2	0.11403037701
ubiquitin specific peptidase 18	0.22720939715
coiled-coil domain containing 9B	0.08553116999
TGF-beta activated kinase 1 (MAP3K7) binding protein 1	-0.03560887024
mitogen-activated protein kinase 3	-0.07500471774
GLE1 RNA export mediator	0.02331856944
protein kinase cAMP-dependent type II regulatory subunit beta	-0.13020190016
clock circadian regulator	0.0376285473
DNA cross-link repair 1A	0.07499819078
mannose-P-dolichol utilization defect 1	-0.058261277
Gse1 coiled-coil protein	0.04678114162
LIM domain containing preferred translocation partner in lipoma	0.04434057024
C2 calcium dependent domain containing 2	-0.04856601754
protein tyrosine phosphatase non-receptor type 11	0.03211113891
zinc finger protein 507	0.07197597995

sacsin molecular chaperone	0.08129432468
fibroblast growth factor receptor 1	0.05685783341
matrilin 2	0.16792570356
osteoclast stimulating factor 1	-0.04246373149
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2	-0.06398972803
AMMECR1 like	0.03690235619
ERGIC and golgi 2	-0.06272197789
DENN domain containing 4A	0.03945993991
nuclear cap binding subunit 3	0.03609144876
proteasome activator subunit 3	0.04385438785
mitochondrial ribosomal protein L1	0.05992269101
chromosome 2 open reading frame 69	0.05065073519
WD repeat domain 59	0.02851430936
decapping mRNA 2	-0.04199029472
biliverdin reductase A	-0.07825869382
phospholipase D1	0.61914617614
sarcospan	0.99237001545
sarcospan	1.20815667564
ankyrin repeat and sterile alpha motif domain containing 1A	0.60797173271
FLT3 interacting zinc finger 1	-0.38243283401
pleckstrin homology and RhoGEF domain containing G7	0.9831801662
RNA polymerase III subunit G	0.81599754427
acylaminoacyl-peptide hydrolase	-0.29017204534
collagen type IV alpha 3 chain	1.0382843298
cleavage stimulation factor subunit 3	0.32486238925
FA complementation group L	0.66744537161
Ral GTPase activating protein catalytic subunit alpha 1	0.36159098159
zinc finger protein 569	0.34803141618
poly(A) binding protein cytoplasmic 1	-0.41025371196
formin like 2	0.99033790428
zinc finger protein 720	0.3509896889
testis expressed 9	0.72032680996
collagen type IV alpha 4 chain	1.02683954853
marginal zone B and B1 cell specific protein	0.5666515275
TNF receptor superfamily member 13B	0.79468779498
zinc finger DBF-type containing 2	0.67083416769
sarcospan	0.48824664589
collagen type XXIII alpha 1 chain	0.75291962544
intracisternal A particle-promoted polypeptide	0.23746885217
HECT domain and ankyrin repeat containing E3 ubiquitin protein ligase	0.46874614929
fibronectin type III and SPRY domain containing 1	0.9501540811
La ribonucleoprotein 1B	0.5139589924
HPS6 biogenesis of lysosomal organelles complex 2 subunit 3	-0.451575466
zinc finger and BTB domain containing 47	-0.46513796746
fructose-bisphosphatase 1	-0.48627126044
BRCA1 associated RING domain 1	0.41439491096

septin 9	-0.25152249354
regulator of G protein signaling 17	1.17651674007
vimentin	-0.50656615308
nuclear factor kappa B subunit 2	-0.35260764786
transforming growth factor beta regulator 4	-0.24682720153
KH-type splicing regulatory protein	-0.23567374009
centriolin	0.43786199397
nuclear factor kappa B subunit 1	-0.28269959307
E2F transcription factor 5	0.45935159494
reticulon 2	-0.38787566155
NEDD4 binding protein 2	0.45439542364
notch receptor 4	0.89371308159
N-terminal glutamine amidase 1	0.31176074034
leucine rich repeat and Ig domain containing 2	0.947943626
nurim	-0.35870902936
zinc finger protein 684	1.13984855755
twinfilin actin binding protein 2	-0.38227309145
sialic acid binding Ig like lectin 6	0.70532193871
B cell scaffold protein with ankyrin repeats 1	0.49099266431
mitochondrial calcium uptake family member 3	0.66997184387
high mobility group 20B	-0.25076235479
caseinolytic mitochondrial matrix peptidase proteolytic subunit	-0.38640989458
BRCA2 DNA repair associated	0.91556124537
nudix hydrolase 16 like 1	-0.33295717557
transcription factor 4	0.69775946109
complement C5	0.72976613405
alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase	-0.3501719929
small nuclear RNA activating complex polypeptide 2	-0.42463967533
CCAAT enhancer binding protein alpha	-0.63749732823
MARCKS like 1	-0.57500788194
transmembrane protein 69	-0.21978457542
kinesin family member 20B	0.42532608489
cartilage associated protein	-0.45259877139
tetraspanin 13	0.50799938086
novel protein	0.67186942617
zinc finger CCHC-type containing 4	0.30386085222
RNA binding motif protein 15B	-0.31958817632
sialic acid binding Ig like lectin 15	-0.68035728434
microtubule associated protein 1S	-0.34155327573
charged multivesicular body protein 6	-0.25102699908
C-type lectin domain family 4 member F	1.28020283501
NIMA related kinase 1	0.2884299641
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1E	1.87464445898
translocator protein	-0.62919796226
chromosome 1 open reading frame 35	-0.36932172689
ADP ribosylation factor like GTPase 2 binding protein	-0.25703622027

PHD finger protein 23	-0.3520233028
beta-1,4-galactosyltransferase 6	0.56573733472
transmembrane protein 11	-0.31794863209
pro-apoptotic WT1 regulator	0.57188499462
ankyrin repeat and SOCS box containing 13	-0.35352313455
abhydrolase domain containing 8	-0.38934317094
chondroitin sulfate synthase 3	1.50280080214
annexin A7	-0.29222840432
cytokine dependent hematopoietic cell linker	0.75788817914
THAP domain containing 3	-0.29324472579
solute carrier family 12 member 2	0.35865443012
DALR anticodon binding domain containing 3	-0.23625487319
zinc finger SWIM-type containing 1	-0.29955076777
protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1M	-0.30033101391
integrator complex subunit 2	0.28569115682
tumor suppressor 2, mitochondrial calcium regulator	-0.33051111686
collagen type XXIV alpha 1 chain	1.01488695238
kelch domain containing 3	-0.27477889661
casein kinase 2 alpha 1	-0.19122813122
MYC associated zinc finger protein	-0.36773872219
EMAP like 6	0.78429493003
centrosomal protein 76	0.30443241562
serum response factor	-0.3567442494
oxoeicosanoid receptor 1	-0.56030131893
transketolase	-0.45675709333
prohibitin 2	-0.32043630168
family with sequence similarity 189 member B	-0.33284984441
ubiquitin specific peptidase 20	-0.14951804508
cortactin binding protein 2	1.25169833171
regulating synaptic membrane exocytosis 2	1.82167662544
N-myristoyltransferase 1	-0.17940278376
interleukin 7	0.47775776822
citrate synthase	-0.25775697685
Bcl2 modifying factor	-0.31845737791
solute carrier family 25 member 20	0.53962170073
oligodendrocyte transcription factor 1	-0.50290361194
zinc finger protein 257	0.5456512822
TNF receptor associated factor 7	-0.27867375955
syntaphilin	-0.42804792453
HAUS augmin like complex subunit 6	0.28787281207
zinc finger protein 519	0.40976686391
zinc finger protein 787	-0.31642317342
glutamic-oxaloacetic transaminase 2	-0.18703553693
TNFAIP3 interacting protein 1	-0.49532848586
protein kinase cAMP-activated catalytic subunit alpha	-0.40691951603
protein arginine methyltransferase 3	0.27820637652

ankyrin repeat and SOCS box containing 3	0.35540601718
poly(A) binding protein cytoplasmic 4	-0.24415664978
X-ray repair cross complementing 1	-0.24561234677
pyruvate kinase M1/2	-0.45718686299
YKT6 v-SNARE homolog	-0.20943566672
LDL receptor related protein 5	0.62658447826
methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2 like	0.27900867426
TIMELESS interacting protein	0.49323464634
SRY-box transcription factor 5	0.96659905619
solute carrier family 25 member 11	-0.35898885081
zinc finger protein 25	0.32033392573
succinate dehydrogenase complex iron sulfur subunit B	-0.20029909407
solute carrier family 12 member 8	1.00797527657
zinc finger protein 574	-0.34353856939
zinc finger protein 414	-0.30797416635
zinc finger protein 85	0.36392466118
potassium channel tetramerization domain containing 2	-0.30773631526
geminin DNA replication inhibitor	0.46098752613
phosphoglycerate mutase 1	-0.36079120442
utrophin	0.328921293
VANGL planar cell polarity protein 1	0.44040544959
eukaryotic translation elongation factor 2	-0.44898337169
beta-carotene oxygenase 2	0.5669667476
TNF receptor superfamily member 11a	0.74206151507
interleukin 27 receptor subunit alpha	-0.23818304513
selenoprotein I	0.32298947795
alkB homolog 7	-0.52518434638
SCY1 like pseudokinase 1	-0.33703599383
POU class 2 homeobox associating factor 1	0.44532733706
zinc finger protein 596	0.28613572274
vacuolar protein sorting 13 homolog A	0.42152902705
TBC1 domain family member 30	0.3489753747
intraflagellar transport associated protein	0.68450472023
solute carrier family 12 member 3	0.84833687311
retinoid X receptor alpha	-0.37653733219
tripartite motif containing 28	-0.27309141448
tumor protein p63	1.16808057199
metastasis associated 1 family member 2	-0.19199821721
upstream transcription factor 2, c-fos interacting	-0.21628713665
calcineurin like EF-hand protein 1	-0.35719458693
cyclin dependent kinase 17	0.40124799117
RAB, member RAS oncogene family like 6	-0.2605670734
MYC binding protein 2	0.24756666389
helicase, lymphoid specific	0.49720135658
C-type lectin like 1	0.50681914169
leucine rich repeat containing 43	1.20445266231

Aly/REF export factor	-0.36543890305
protein phosphatase 6 catalytic subunit	-0.20528466158
cyclin dependent kinase 9	-0.17387661594
late endosomal/lysosomal adaptor, MAPK and MTOR activator 1	-0.27306894245
deoxyribonuclease 1 like 3	0.79305142382
islet cell autoantigen 1 like	0.52437164019
ALG11 alpha-1,2-mannosyltransferase	0.35002900352
pre-mRNA processing factor 6	-0.18550843974
nucleophosmin/nucleoplasmin 3	-0.34698294728
PAF1 homolog, Paf1/RNA polymerase II complex component	-0.29870689775
CD109 molecule	0.98921364771
RNA polymerase II subunit L	-0.48010506199
Sad1 and UNC84 domain containing 2	-0.22999923232
enamelin	1.09904003085
carboxylesterase 1	-0.62432719343
calpain 12	0.45009351372
PIF1 5'-to-3' DNA helicase	0.63147026156
zinc finger DHHC-type palmitoyltransferase 21	0.48933139854
RAB34, member RAS oncogene family	-0.3965727259
dishevelled associated activator of morphogenesis 1	0.25148158167
aldehyde dehydrogenase 2 family member	-0.42780494885
zinc finger protein 860	0.72521252582
heat shock transcription factor 1	-0.19759529811
potassium channel tetramerization domain containing 17	-0.277840038
Yip1 interacting factor homolog B, membrane trafficking protein	-0.24407496883
junction mediating and regulatory protein, p53 cofactor	0.28602962597
cytochrome P450 family 2 subfamily S member 1	-0.40400503681
pleckstrin homology and RhoGEF domain containing G1	0.45188775019
metaxin 2	0.34308037567
coactosin like F-actin binding protein 1	-0.43528066291
peptidase inhibitor 3	-1.15718129884
NCK associated protein 5 like	-0.25883648946
sperm associated antigen 6	0.56522846366
Wnt family member 10A	-0.54902100404
family with sequence similarity 227 member B	0.38012700549
platelet activating factor acetylhydrolase 1b catalytic subunit 3	-0.42223998855
joining chain of multimeric IgA and IgM	0.84743322745
sterile alpha motif domain containing 1	-0.29074562464
zinc finger protein 215	1.16172727804
DEAD-box helicase 49	-0.22112332257
TATA-box binding protein associated factor, RNA polymerase I subunit	0.27346020685
eukaryotic translation initiation factor 3 subunit F	-0.32517737927
inosine monophosphate dehydrogenase 2	-0.31186631832
dimethylglycine dehydrogenase	0.86422310684
secretory carrier membrane protein 5	0.70875531735
NIM1 serine/threonine protein kinase	0.81837503373

zinc finger protein 784	-0.37955161956
PHD finger protein 19	-0.22244584292
RAD17 checkpoint clamp loader component	0.18135580016
integrator complex subunit 5	-0.3162941435
SEC13 homolog, nuclear pore and COPII coat complex component	-0.23223300311
capicua transcriptional repressor	-0.32110342775
zinc finger protein 620	0.28644473562
zinc finger and BTB domain containing 7A	-0.24771856121
zinc finger protein like 1	-0.202300715
WW domain containing transcription regulator 1	0.84332016826
ring finger protein 167	-0.29162016989
Rho GDP dissociation inhibitor beta	-0.42933983391
pyridoxal phosphate binding protein	-0.22277676112
eukaryotic translation initiation factor 3 subunit H	-0.2518667228
solute carrier family 4 member 4	0.69736156436
zinc finger and BTB domain containing 22	-0.2471072789
integrin subunit beta 2	-0.31878356232
transcription elongation factor A2	-0.2474750177
sodium voltage-gated channel alpha subunit 3	0.56444924382
glutamate ionotropic receptor kainate type subunit 4	1.08211536843
growth differentiation factor 7	0.76314388183
protein tyrosine phosphatase receptor type G	1.27311550838
transmembrane protein 135	0.39012639883
ADP ribosylation factor 5	-0.34388364738
KDEL endoplasmic reticulum protein retention receptor 1	-0.3291747979
transducin beta like 3	-0.26603091349
zinc finger CCCH-type containing, antiviral 1 like	0.7930930665
ER membrane protein complex subunit 10	-0.25757742198
VAC14 component of PIKFYVE complex	-0.15876556323
RAB32, member RAS oncogene family	-0.43447991689
glyceraldehyde-3-phosphate dehydrogenase	-0.48524413872
myristoylated alanine rich protein kinase C substrate	-0.56499954765
transmembrane protein 101	-0.25230703585
mercaptopyruvate sulfurtransferase	-0.30804646745
BTG anti-proliferation factor 3	0.34254431081
RUN and FYVE domain containing 2	0.26988773012
host cell factor C1 regulator 1	-0.34886640859
ADAMTS like 5	-0.51157526616
leucyl and cystinyl aminopeptidase	0.19597704161
U6 snRNA biogenesis phosphodiesterase 1	-0.40245569688
D-box binding PAR bZIP transcription factor	-0.3184365443
angio associated migratory cell protein	-0.25990007687
eukaryotic translation initiation factor 4A3	-0.3133700715
receptor for activated C kinase 1	-0.34859166097
fermitin family member 3	-0.31981849843
arginyl aminopeptidase like 1	-0.37236430093

trans-L-3-hydroxyproline dehydratase	0.32921580784
adhesion G protein-coupled receptor V1	1.36600473602
serine palmitoyltransferase small subunit B	0.88759948594
vesicle amine transport 1	-0.37109947598
UBX domain protein 1	-0.24033929455
bone morphogenetic protein receptor type 1A	0.40945331904
translational activator of cytochrome c oxidase I	-0.23958187828
pleckstrin homology and coiled-coil domain containing D1	0.9898705978
lectin, mannose binding 2	-0.23419038311
mediator complex subunit 16	-0.25154835863
endothelin converting enzyme 1	-0.27956427736
cordon-bleu WH2 repeat protein like 1	0.49206697837
lymphotoxin beta	-0.35238138049
cut like homeobox 2	0.76254305992
family with sequence similarity 117 member B	0.26265080278
coiled-coil domain containing 7	0.38605460021
sphingosine-1-phosphate receptor 3	-0.50269461881
jagunal homolog 1	-0.30977143862
sperm tail PG-rich repeat containing 2	0.81366170935
inhibitor of nuclear factor kappa B kinase subunit epsilon	-0.21645618142
DET1 and DDB1 associated 1	-0.21585979382
TAFA chemokine like family member 2	0.43811114094
tripartite motif containing 8	-0.34308792688
dynactin subunit 3	-0.20319456407
BTG anti-proliferation factor 2	-0.39641283341
zinc finger protein 124	0.27650040386
SPT5 homolog, DSIF elongation factor subunit	-0.14169091623
hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex sul	-0.21202869257
chromosome 4 open reading frame 33	0.44592191021
TIR domain containing adaptor protein	-0.20713935279
FRA10A associated CGG repeat 1	0.34851105546
enhancer of zeste 2 polycomb repressive complex 2 subunit	0.36217774396
Fc receptor like 5	0.63688858659
enolase 1	-0.40697970999
ATPase phospholipid transporting 8A1	0.30531341886
charged multivesicular body protein 4B	-0.35796453852
Tu translation elongation factor, mitochondrial	-0.30632245761
DnaJ heat shock protein family (Hsp40) member B12	-0.27160326138
G protein-coupled receptor kinase 6	-0.29120999706
DNA polymerase nu	0.37273450729
cytochrome b5 reductase 1	-0.29987345462
MAX network transcriptional repressor	-0.27061544113
glycolipid transfer protein	-0.28015378027
CD80 molecule	0.73964060324
chromosome 4 open reading frame 50	0.6956161579
HDGF like 3	0.37321029392

endoplasmic reticulum oxidoreductase 1 alpha	-0.30113832785
KIAA1109	0.37040719332
basonuclin 2	0.8349717435
transgelin 2	-0.63241458327
RAB3D, member RAS oncogene family	-0.37157693394
proteasome 26S subunit, non-ATPase 2	-0.26177225303
golgin A7	-0.26607653503
zinc finger and BTB domain containing 7B	-0.29509722588
janus kinase and microtubule interacting protein 2	0.49213564556
tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1	1.11112616184
FLII actin remodeling protein	-0.25541376948
kinesin family member 19	0.70224418722
terminal nucleotidyltransferase 4B	0.24122313981
zinc finger protein 804B	1.73608313199
zinc finger GRF-type containing 1	0.42078152625
ubinnuclein 2	0.20311794402
DNA polymerase epsilon 3, accessory subunit	-0.27200523684
angiopoietin 1	0.73307416232
discoidin, CUB and LCCL domain containing 1	0.36169343477
mediator complex subunit 29	-0.21179900699
sterol regulatory element binding transcription factor 1	-0.34445434339
ATP synthase F1 subunit delta	-0.40215580515
zinc finger and BTB domain containing 32	0.72870684522
catechol-O-methyltransferase	-0.21800793032
attractin like 1	1.81280946699
ankyrin repeat and fibronectin type III domain containing 1	1.3476402722
tRNA methyltransferase 11 homolog	0.29460842939
mediator complex subunit 8	-0.2085511087
sorting nexin 25	0.30252926149
DENN domain containing 5B	0.5297999828
eukaryotic translation initiation factor 4E binding protein 2	-0.37646798014
capping actin protein of muscle Z-line subunit beta	-0.29147331692
solute carrier family 8 member B1	-0.19966867114
peptidoglycan recognition protein 1	-0.77768151599
neural cell adhesion molecule 1	0.65254926702
SSU72 homolog, RNA polymerase II CTD phosphatase	-0.21601914866
GID complex subunit 8 homolog	-0.23523396496
6-phosphogluconolactonase	-0.24713064188
putative homeodomain transcription factor 2	0.32484003697
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha	0.22472123238
interferon gamma receptor 2	-0.29605776577
protein O-mannose kinase	0.25154062986
integrin subunit alpha V	0.33010781654
phosphatidylserine synthase 1	-0.20057382818
NUF2 component of NDC80 kinetochore complex	0.69400032525
ubiquitin conjugating enzyme E2 M	-0.40675471141

tubulin tyrosine ligase like 12	-0.27466412305
ribosomal modification protein rimK like family member B	0.41981492632
CD82 molecule	-0.34074276077
eukaryotic translation initiation factor 3 subunit K	-0.26387199407
leucine rich repeat and coiled-coil centrosomal protein 1	0.3709580778
zinc finger protein, FOG family member 2	1.478182849
ATP binding cassette subfamily B member 10	0.19537983308
SEM1 26S proteasome complex subunit	0.39029324474
DEAD-box helicase 41	-0.25940092939
ALG10 alpha-1,2-glucosyltransferase B	0.41421512981
BH3 interacting domain death agonist	-0.38340695595
TOG array regulator of axonemal microtubules 2	0.54075574983
pre-mRNA processing factor 31	-0.19473609596
solute carrier family 22 member 17	-0.43328057019
adaptor related protein complex 3 subunit sigma 2	-0.34280392048
chromosome 12 open reading frame 60	0.81334077043
pre-mRNA processing factor 19	-0.25209238281
ring finger protein 26	-0.31387490583
tight junction associated protein 1	-0.17547352986
MET transcriptional regulator MACC1	0.6825606852
zinc finger CCCH-type containing 12A	-0.24846010688
tet methylcytosine dioxygenase 1	0.65051252534
NADH:ubiquinone oxidoreductase subunit B10	-0.31923640057
autophagy related 9B	-0.33524964286
upstream binding transcription factor	-0.20248146093
sacsin molecular chaperone	0.46181579147
transmembrane BAX inhibitor motif containing 6	-0.27638466154
chromosome 7 open reading frame 26	-0.16077259289
ribosomal protein L7a	-0.30722237126
phosphatidylethanolamine binding protein 4	0.90817237775
transmembrane 9 superfamily member 4	-0.18997204313
zinc finger MYM-type containing 1	0.28077352244
torsin family 2 member A	-0.29555725698
ZFP36 ring finger protein like 1	-0.42536663393
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2	0.27019822874
ceramide synthase 2	-0.25313558191
COBW domain containing 5	0.38051679175
CD14 molecule	-0.47411764999
ER membrane protein complex subunit 2	0.33541478742
ribosomal protein S6 kinase B1	0.27926840297
TBC1 domain family member 12	0.76102119978
Bardet-Biedl syndrome 7	0.28179940677
serine and arginine rich splicing factor 9	-0.19561265321
neuronal pentraxin receptor	-0.35150119391
LIM domain binding 2	0.97413974081
thrombospondin type 1 domain containing 7B	1.48100924836

katanin catalytic subunit A1 like 2	0.68005158427
myeloid associated differentiation marker	-0.51812818326
protein phosphatase 2 scaffold subunit Aalpha	-0.23517415941
eyes shut homolog	0.69795980288
protein kinase C substrate 80K-H	-0.2591657011
novel transcript	0.8165320904
motile sperm domain containing 3	-0.39823434112
cilia and flagella associated protein 251	0.43066232651
Kruppel like factor 16	-0.35570230577
amine oxidase copper containing 1	-0.93853996245
calcium voltage-gated channel subunit alpha1 D	0.35734016385
EYA transcriptional coactivator and phosphatase 2	1.37183517711
kirre like nephrin family adhesion molecule 3	1.03885935299
MYCL proto-oncogene, bHLH transcription factor	-0.45901653708
zinc finger protein 629	-0.30778514476
WD repeat domain 49	0.70694190908
solute carrier family 9 member A5	0.39297778695
1-acylglycerol-3-phosphate O-acyltransferase 5	0.27962314607
serine protease 33	-0.79925528568
BUB1 mitotic checkpoint serine/threonine kinase B	1.13276219583
RELB proto-oncogene, NF-kB subunit	-0.40174187882
IST1 factor associated with ESCRT-III	-0.16819122349
solute carrier family 30 member 4	0.28889991223
family with sequence similarity 89 member B	-0.57731818831
VAMP associated protein B and C	-0.16113477338
oxysterol binding protein like 10	0.57420784464
mitochondrially encoded cytochrome b	-0.75873956894
carnitine palmitoyltransferase 1A	0.64770689459
enoyl-CoA hydratase, short chain 1	-0.29455872357
YY1 transcription factor	-0.16297997988
StAR related lipid transfer domain containing 4	0.49740298629
chromosome 19 open reading frame 25	-0.18363271972
electron transfer flavoprotein dehydrogenase	0.28574027144
proteoglycan 4	0.60800113495
EH domain containing 1	-0.42390645127
RB transcriptional corepressor like 1	0.18160755381
solute carrier family 23 member 2	0.25981481402
PDGFA associated protein 1	-0.23164004138
calcium regulated heat stable protein 1	-0.33991501162
B9 domain containing 2	-0.25501007017
zinc finger protein 395	-0.28668536582
small integral membrane protein 20	0.22361301451
post-GPI attachment to proteins inositol deacylase 1	0.48860009064
WD repeat domain 82	-0.22110619198
transmembrane protein 248	-0.15269379859
ubiquitin protein ligase E3 component n-recogin 1	0.225720433

CCR4-NOT transcription complex subunit 11	-0.1683885858
malate dehydrogenase 2	-0.29270246637
RNA polymerase II subunit C	-0.30903663045
novel transcript	0.5763199806
dynein axonemal heavy chain 14	1.34250338959
small nuclear ribonucleoprotein 13	-0.21631066609
XPA binding protein 2	-0.19301536491
kelch like family member 5	-0.28737045523
ubiquitin conjugating enzyme E2 T	0.52805936583
zinc finger protein 460	0.35570651577
CCAAT enhancer binding protein epsilon	-0.70601339785
MAPK interacting serine/threonine kinase 2	-0.38221043603
killer cell lectin like receptor C2	0.78241122694
heterogeneous nuclear ribonucleoprotein U like 1	-0.24469752341
signal peptide, CUB domain and EGF like domain containing 2	0.48863953404
G protein-coupled receptor 137	-0.2027348556
basic helix-loop-helix family member e41	0.51425606615
alkB homolog 5, RNA demethylase	-0.24083661197
intraflagellar transport 81	0.69324592921
galectin 12	-0.41262608045
CTD nuclear envelope phosphatase 1	-0.34944866033
SH3 domain containing GRB2 like 1, endophilin A2	-0.19594832409
eukaryotic translation initiation factor 4H	-0.1703630409
ephrin A5	0.83367647884
zinc finger protein 428	-0.31707023231
transmembrane 7 superfamily member 2	-0.29375129805
jumonji domain containing 8	-0.27902785463
synaptopodin 2	0.77739735838
TNF alpha induced protein 8 like 1	-0.27066108727
killer cell lectin like receptor G1	0.37527463203
C-X9-C motif containing 1	0.27501341926
MAP7 domain containing 1	-0.28611864234
microsomal glutathione S-transferase 1	-0.38702908356
protocadherin 9	0.75260333577
DnaJ heat shock protein family (Hsp40) member C4	-0.31454696206
otoferlin	1.79445080752
VPS11 core subunit of CORVET and HOPS complexes	-0.16891219757
calcyphosine 2	0.40926703365
TNF superfamily member 14	-0.4475277572
TBC1 domain family member 2	-0.26685555411
EF-hand domain family member D2	-0.3693089984
PMS1 homolog 1, mismatch repair system component	0.28046855876
TBC1 domain family member 31	0.27676728152
EPH receptor B6	-0.22524985351
dual specificity phosphatase 23	-0.37960205449
trafficking protein particle complex 1	-0.43262909398

ADP ribosylation factor like GTPase 6	0.38803668035
cullin 5	0.21011550902
haptoglobin	-0.97608713131
flotillin 2	-0.34432817103
LSM4 homolog, U6 small nuclear RNA and mRNA degradation associa-	-0.26307857942
deleted in azoospermia like	0.9335248103
B cell linker	0.31733378785
eukaryotic translation initiation factor 4B	-0.31282664175
paraoxonase 2	0.33283422374
hydroxysteroid 17-beta dehydrogenase 8	-0.34837793653
dynein axonemal heavy chain 10	0.66673735281
BRMS1 like transcriptional repressor	0.39271814926
solute carrier family 25 member 3	-0.21383027768
centrosome and spindle pole associated protein 1	0.20899285105
CD163 molecule like 1	0.80440661911
profilin 1	-0.41964470001
zinc finger protein 208	0.85414423158
STAM binding protein like 1	0.28327278743
MMS22 like, DNA repair protein	0.23829845139
arginyl-tRNA synthetase 2, mitochondrial	0.19947417827
complement C5a receptor 1	-0.45478642037
pseudouridine synthase 7	0.30346615027
glycerol-3-phosphate acyltransferase, mitochondrial	0.31237962351
taspase 1	0.31280770078
FXD domain containing ion transport regulator 5	-0.32238638069
kelch like ECH associated protein 1	-0.26612928739
RAB11B, member RAS oncogene family	-0.31134125909
complement C1q B chain	1.14292228272
centrosomal protein 83	0.33230571812
Fas apoptotic inhibitory molecule	0.41260912238
KxDL motif containing 1	-0.17651554302
N-acetyltransferase domain containing 1	-0.56486547465
mitochondrial ribosomal protein S2	-0.31445424068
proline rich 16	0.89275625704
NAD kinase 2, mitochondrial	0.27132293205
zinc finger protein 691	-0.1854390023
UDP-glucose glycoprotein glucosyltransferase 2	0.47133871529
RFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	-0.23284858192
brain abundant membrane attached signal protein 1	-0.58829122966
potassium channel tetramerization domain containing 21	-0.26178984237
mitogen-activated protein kinase 3	-0.33827971319
sterile alpha motif domain containing 14	-0.99417419088
TruB pseudouridine synthase family member 2	-0.18625288758
mucin 16, cell surface associated	1.19157448071
BEN domain containing 4	0.5373778889
ALG3 alpha-1,3- mannosyltransferase	-0.24714865699

guanylate cyclase 2C	0.89755412978
transmembrane protein 230	-0.18241306731
StAR related lipid transfer domain containing 9	0.36569690178
DEAD-box helicase 43	0.66892730711
Kin17 DNA and RNA binding protein	0.21123644338
splicing factor 3a subunit 2	-0.26142004394
zinc finger protein 678	0.31344778161
centrosomal protein 57 like 1	0.38119071186
BCL2 binding component 3	-0.3423347081
ephrin A3	-0.54661809062
ankyrin repeat domain 36C	0.26198851419
cyclin Y	-0.24629944608
G protein pathway suppressor 1	-0.23050922991
double zinc ribbon and ankyrin repeat domains 1	0.3989094633
dual specificity tyrosine phosphorylation regulated kinase 1B	-0.29098352068
striated muscle enriched protein kinase	-0.35076888804
DEP domain containing MTOR interacting protein	0.90274208289
SP140 nuclear body protein like	0.38917497683
protein kinase C and casein kinase substrate in neurons 1	0.52844063639
tumor protein p53 inducible protein 11	-0.48202384347
nucleus accumbens associated 1	-0.25444810094
solute carrier family 14 member 2	1.06715615375
H4 clustered histone 8	0.40932808199
MTOR associated protein, LST8 homolog	-0.27344302584
high mobility group AT-hook 1	-0.32541647079
uveal autoantigen with coiled-coil domains and ankyrin repeats	0.7009482059
SR-related CTD associated factor 1	-0.18850544331
CD2 associated protein	0.43814812925
zinc finger protein 532	0.33754507947
coiled-coil domain containing 124	-0.39271648597
desmoplakin	1.40678910448
prolyl 4-hydroxylase subunit beta	-0.24422640586
actin related protein 1B	-0.1785876884
growth arrest specific 2 like 1	-0.59742820573
cell division cycle 42	-0.21977855022
cyclin dependent kinase 5	-0.35108645568
KIAA1671	0.4524892883
RAB5B, member RAS oncogene family	-0.29603603932
AFG1 like ATPase	0.49287634419
docking protein 4	-0.67197255444
zinc finger protein 467	-0.38615422553
ubiquitin related modifier 1	-0.22225924523
replication timing regulatory factor 1	0.27160492476
ring finger protein 41	-0.18258782971
ankyrin 2	1.27984089624
BTB domain containing 6	-0.21767857252

DNA cross-link repair 1A	0.290546671
Kruppel like factor 2	-0.31199528061
zinc finger protein 444	-0.16658109734
dynein axonemal heavy chain 7	0.83774304896
SLIT-ROBO Rho GTPase activating protein 1	1.12304486465
EH domain containing 4	-0.21989458945
tumor protein p53	-0.16310950854
lymphocyte expansion molecule	0.67800598461
HMG-box containing 4	-0.16918138562
HDGF like 2	-0.19737655309
MYG1 exonuclease	-0.23953811814
sterile alpha motif domain containing 4A	0.62522856
single-pass membrane protein with aspartate rich tail 1	-0.20838791372
NSE1 homolog, SMC5-SMC6 complex component	-0.19356037543
surfeit 4	-0.23038478651
G kinase anchoring protein 1	0.281371612
small glutamine rich tetratricopeptide repeat containing alpha	-0.21880567581
thyroid hormone receptor alpha	-0.26720855323
small RNA binding exonuclease protection factor La	0.49490770369
outer dense fiber of sperm tails 2 like	0.38931472853
HEAT repeat containing 5B	0.18937079925
dpy-19 like 4	0.28355717827
RAB3C, member RAS oncogene family	0.73571358825
transforming growth factor beta receptor 2	-0.24543001827
BRCA1 interacting protein C-terminal helicase 1	0.60818103075
ubiquitin specific peptidase 45	0.3712301831
fibroblast growth factor 12	1.47595630115
growth arrest specific 6	0.51516581899
protein arginine methyltransferase 9	0.19520991254
poly(rC) binding protein 1	-0.38007099418
UBX domain protein 10	0.52586590004
Ras association domain family member 7	-0.3161664451
ELOVL fatty acid elongase 6	0.41666764628
tenascin R	0.90271343075
heart development protein with EGF like domains 1	0.26204319348
aconitase 2	-0.22144392364
poly(rC) binding protein 2	-0.28087861748
stathmin 3	-0.3099181503
pygopus family PHD finger 2	-0.19816890067
solute carrier family 4 member 10	0.74784834567
MAPK regulated corepressor interacting protein 2	-0.24152650001
leucine rich repeat containing 41	-0.1663001848
ribonuclease P/MRP subunit p25 like	-0.3553170801
CKLF like MARVEL transmembrane domain containing 5	-1.02131040349
ribosomal RNA processing 1	-0.21064743998
ATP synthase F1 subunit alpha	-0.21298250833

villin 1	-0.78885780012
dual specificity phosphatase 7	-0.25006903694
marginal zone B and B1 cell specific protein	0.76286648763
spermatogenesis associated 33	-0.39366817046
POU class 2 homeobox associating factor 1	0.5301772346
growth differentiation factor 7	0.97359970381
immunoglobulin heavy variable 4-38-2-like	1.18825013642
BEN domain containing 4	0.69868314379
enamelin	1.29648142734
POU class 2 homeobox associating factor 1	0.61743994465

P.Value	adj.P.Val	Comparison	endpoint
3.1061448E-22	4.8371993E-18	R_WEEK12vsWEEK0	Endoscopic_Remission
7.327221E-22	5.7053407E-18	R_WEEK12vsWEEK0	Endoscopic_Remission
2.3097878E-21	8.9925814E-18	R_WEEK12vsWEEK0	Endoscopic_Remission
9.3076356E-21	2.8989562E-17	R_WEEK12vsWEEK0	Endoscopic_Remission
3.1321987E-20	8.1296218E-17	R_WEEK12vsWEEK0	Endoscopic_Remission
3.9780464E-20	8.8500167E-17	R_WEEK12vsWEEK0	Endoscopic_Remission
1.0538501E-19	2.0514509E-16	R_WEEK12vsWEEK0	Endoscopic_Remission
2.224425E-19	3.8489968E-16	R_WEEK12vsWEEK0	Endoscopic_Remission
1.3090875E-18	2.038642E-15	R_WEEK12vsWEEK0	Endoscopic_Remission
8.6942157E-18	1.1282918E-14	R_WEEK12vsWEEK0	Endoscopic_Remission
1.3886067E-17	1.663444E-14	R_WEEK12vsWEEK0	Endoscopic_Remission
2.9484278E-17	3.2797047E-14	R_WEEK12vsWEEK0	Endoscopic_Remission
5.2199247E-17	5.4193259E-14	R_WEEK12vsWEEK0	Endoscopic_Remission
1.1340321E-16	1.1037676E-13	R_WEEK12vsWEEK0	Endoscopic_Remission
1.5996474E-16	1.4653711E-13	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9582529E-16	1.6942152E-13	R_WEEK12vsWEEK0	Endoscopic_Remission
2.5048499E-16	2.0530541E-13	R_WEEK12vsWEEK0	Endoscopic_Remission
2.8687248E-16	2.2337325E-13	R_WEEK12vsWEEK0	Endoscopic_Remission
3.8314285E-16	2.7465723E-13	R_WEEK12vsWEEK0	Endoscopic_Remission
3.8800867E-16	2.7465723E-13	R_WEEK12vsWEEK0	Endoscopic_Remission
4.0582147E-16	2.7477642E-13	R_WEEK12vsWEEK0	Endoscopic_Remission
5.8365667E-16	3.7872022E-13	R_WEEK12vsWEEK0	Endoscopic_Remission
7.0557785E-16	4.2920918E-13	R_WEEK12vsWEEK0	Endoscopic_Remission
7.1658888E-16	4.2920918E-13	R_WEEK12vsWEEK0	Endoscopic_Remission
9.3468633E-16	5.391063E-13	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4059702E-15	1.292006E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
2.8606887E-15	1.4849835E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
4.5776032E-15	2.2995811E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
6.2634086E-15	3.0481269E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
6.7043181E-15	3.1467717E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
7.1567265E-15	3.1467717E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
7.2284716E-15	3.1467717E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
7.2743712E-15	3.1467717E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
8.2929534E-15	3.4904369E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
9.1649851E-15	3.7559556E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
1.0407549E-14	4.1558145E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
1.2218649E-14	4.6685434E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
1.2291163E-14	4.6685434E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
1.7525402E-14	6.3470486E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9562023E-14	6.9236223E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
2.6421935E-14	9.1437511E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
2.8033603E-14	9.288666E-12	R_WEEK12vsWEEK0	Endoscopic_Remission
3.7128519E-14	1.2045884E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
4.17631E-14	1.3272995E-11	R_WEEK12vsWEEK0	Endoscopic_Remission

5.0422941E-14	1.5704729E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
5.353389E-14	1.6346731E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
6.7757314E-14	2.0292013E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
7.6179884E-14	2.238395E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
8.0646234E-14	2.3257478E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
8.9946544E-14	2.5467955E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
1.1348243E-13	3.1558247E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
1.219428E-13	3.3316056E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
1.3653131E-13	3.6658656E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4098081E-13	3.7211764E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
1.5220917E-13	3.950589E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
2.2290981E-13	5.6907778E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
3.0530994E-13	7.6686962E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
3.2003296E-13	7.9109099E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
3.2624261E-13	7.9384003E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
3.5311533E-13	8.4601001E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
3.7053236E-13	8.7428795E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
4.0910472E-13	9.508937E-11	R_WEEK12vsWEEK0	Endoscopic_Remission
5.4255073E-13	1.242521E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
6.8002595E-13	1.534789E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
7.2970693E-13	1.6233894E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
8.1973597E-13	1.7979927E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
8.5447768E-13	1.848164E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
1.3121719E-12	2.7992401E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
1.5992596E-12	3.3207026E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
1.7442068E-12	3.5740175E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
1.8807076E-12	3.8036701E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9152407E-12	3.8238517E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9560141E-12	3.8558238E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4652508E-12	4.7989188E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
3.0409846E-12	5.8465744E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
3.2017489E-12	6.041564E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
3.219995E-12	6.041564E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
4.0367374E-12	7.4838229E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
4.3487092E-12	7.9510547E-10	R_WEEK12vsWEEK0	Endoscopic_Remission
5.8575493E-12	1.0309833E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
5.8920896E-12	1.0309833E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
6.2155733E-12	1.0755014E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
6.5690728E-12	1.1241777E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
6.8346206E-12	1.1569081E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
7.3873146E-12	1.2370177E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
8.0176516E-12	1.3282861E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
8.3129567E-12	1.3627124E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
9.0516304E-12	1.4532066E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
9.4848905E-12	1.5072265E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
9.6353589E-12	1.5156711E-09	R_WEEK12vsWEEK0	Endoscopic_Remission

1.0523114E-11	1.6387646E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
1.1235762E-11	1.732421E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
1.1888541E-11	1.8151005E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
1.3517481E-11	2.0048356E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
1.3926492E-11	2.0396309E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
1.6533772E-11	2.3407312E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
1.7151732E-11	2.4063417E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
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2.6822672E-11	3.4809123E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
2.9953948E-11	3.8551474E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
3.0873272E-11	3.9408972E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
4.3574149E-11	5.5169123E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
4.4181176E-11	5.5486569E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
4.611102E-11	5.7250797E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
4.63212E-11	5.7250797E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
4.7466733E-11	5.7971316E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
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5.1101285E-11	6.1689947E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
5.2047349E-11	6.2348721E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
5.4218981E-11	6.3966076E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
5.4864753E-11	6.4241263E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
5.865317E-11	6.8164613E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
5.9190082E-11	6.8279047E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
6.2062512E-11	7.1066139E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
6.7514301E-11	7.5640303E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
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8.674035E-11	9.5127287E-09	R_WEEK12vsWEEK0	Endoscopic_Remission
9.4623273E-11	1.0304673E-08	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.0184356E-10	1.0937999E-08	R_WEEK12vsWEEK0	Endoscopic_Remission
1.1358414E-10	1.2115383E-08	R_WEEK12vsWEEK0	Endoscopic_Remission
1.1921464E-10	1.2629453E-08	R_WEEK12vsWEEK0	Endoscopic_Remission
1.2028655E-10	1.2656909E-08	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.891831E-10	1.8646509E-08	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.2089587E-09	9.1142572E-08	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.2400993E-09	9.2846474E-08	R_WEEK12vsWEEK0	Endoscopic_Remission
1.248214E-09	9.3006876E-08	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.3921195E-09	1.0178158E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4424559E-09	1.04969E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4671428E-09	1.0584403E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4680736E-09	1.0584403E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.5331587E-09	1.0983122E-07	R_WEEK12vsWEEK0	Endoscopic_Remission

1.5374819E-09	1.0983122E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.5544953E-09	1.1053952E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.5807738E-09	1.1189723E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.6360001E-09	1.1484822E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.6429239E-09	1.1484822E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.644587E-09	1.1484822E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.7281603E-09	1.1961173E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
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2.5140747E-09	1.6450288E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
2.6772433E-09	1.7444648E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
2.7670842E-09	1.7954917E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
2.8426706E-09	1.8368842E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
2.9606299E-09	1.905202E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
3.1098297E-09	1.973555E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
3.1198135E-09	1.973555E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
3.1325994E-09	1.973555E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
3.1374743E-09	1.973555E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
3.1628772E-09	1.973555E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
3.1682201E-09	1.973555E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
3.1853716E-09	1.9763264E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
3.2124267E-09	1.9852032E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
3.3039849E-09	2.0337137E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
3.5796339E-09	2.1861035E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
3.9327287E-09	2.3923587E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
4.0265988E-09	2.4399308E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
4.0446391E-09	2.441363E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
4.0673669E-09	2.4456025E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
4.097554E-09	2.4542772E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
4.5716725E-09	2.7173533E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
4.6670738E-09	2.763511E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
4.8745293E-09	2.8754184E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
4.9548145E-09	2.9117481E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
5.1017421E-09	2.9756341E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
5.193656E-09	3.0125099E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
5.2036547E-09	3.0125099E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
5.556081E-09	3.2046241E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
5.6765722E-09	3.2503088E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
5.6770308E-09	3.2503088E-07	R_WEEK12vsWEEK0	Endoscopic_Remission

6.0146496E-09	3.4309941E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
6.0708821E-09	3.4504324E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
6.1585094E-09	3.4875079E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
6.4985137E-09	3.6667157E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
6.8354293E-09	3.8428932E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
7.0550156E-09	3.9490394E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
7.0749501E-09	3.9490394E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
7.15976E-09	3.9821051E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
7.8131944E-09	4.3300668E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
7.962821E-09	4.3555526E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
7.9707817E-09	4.3555526E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
7.9710557E-09	4.3555526E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
8.3107342E-09	4.525282E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
8.4521196E-09	4.586232E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
9.0664536E-09	4.9024959E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
9.315952E-09	5.0199765E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
9.4068897E-09	5.0514998E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
9.5410081E-09	5.1059147E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
9.6027805E-09	5.1213733E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
9.9345181E-09	5.2622534E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.0105272E-08	5.3345559E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4137559E-08	7.3880604E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4298019E-08	7.4469246E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4559572E-08	7.5578739E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.5640051E-08	8.0917777E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.6819554E-08	8.587899E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.740725E-08	8.8589251E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.7750967E-08	9.0044239E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.8363582E-08	9.2849371E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
1.8456536E-08	9.3017355E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.9224266E-08	9.5954964E-07	R_WEEK12vsWEEK0	Endoscopic_Remission
2.0365881E-08	1.0132839E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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2.1628013E-08	1.0658641E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.2288785E-08	1.0915196E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.2364401E-08	1.0917894E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.2634022E-08	1.0980674E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.3021789E-08	1.1134109E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4248711E-08	1.1691182E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4401737E-08	1.1702692E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4422879E-08	1.1702692E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4600787E-08	1.1751781E-06	R_WEEK12vsWEEK0	Endoscopic_Remission

2.5141194E-08	1.1973206E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.5652492E-08	1.2179459E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.6659094E-08	1.2618908E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.7415113E-08	1.2898355E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.8939031E-08	1.3574323E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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3.1232143E-08	1.4475541E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
3.228996E-08	1.4921411E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
3.6332697E-08	1.6627162E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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4.0305422E-08	1.8353109E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
4.3511605E-08	1.9697855E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
4.467081E-08	2.0164015E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
4.6571574E-08	2.0961246E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
4.7976726E-08	2.1469585E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
5.1079463E-08	2.2727442E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
5.1752375E-08	2.2961246E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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5.8698495E-08	2.5895515E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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6.0406159E-08	2.6498736E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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6.6185117E-08	2.878868E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
6.6365736E-08	2.878868E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
6.861032E-08	2.9597466E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
6.9132219E-08	2.9740222E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
7.0633219E-08	3.0302235E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
7.1260212E-08	3.0487233E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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7.4157135E-08	3.1553253E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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7.586177E-08	3.2103134E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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8.1961837E-08	3.4311605E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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8.5825724E-08	3.5737005E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
8.7107231E-08	3.6173891E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
9.3428068E-08	3.869562E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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9.8587286E-08	4.0402627E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
1.0031131E-07	4.1001263E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
1.0079805E-07	4.1092356E-06	R_WEEK12vsWEEK0	Endoscopic_Remission

1.0468388E-07	4.2565067E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.0529301E-07	4.259034E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.0739761E-07	4.3105749E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.1428133E-07	4.540059E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.1663701E-07	4.6101224E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.2466609E-07	4.8779523E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
1.2567586E-07	4.9051384E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
1.3411252E-07	5.2213358E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
1.3626616E-07	5.2919525E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.524336E-07	5.8904427E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
1.606729E-07	6.1934631E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
1.6152421E-07	6.2109052E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
1.7720683E-07	6.7804471E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
1.778879E-07	6.7898242E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.7972276E-07	6.8263963E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
1.8554273E-07	7.0132451E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
1.8712992E-07	7.0561019E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
1.8758275E-07	7.0561019E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
1.8950337E-07	7.0940768E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.9922371E-07	7.4222746E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.1225724E-07	7.8885798E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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2.2040557E-07	8.0952263E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.2267275E-07	8.1592534E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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2.4662026E-07	8.9944201E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
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2.502538E-07	9.0843878E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.5613088E-07	9.2761073E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.6160034E-07	9.4522091E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.7001142E-07	9.7335366E-06	R_WEEK12vsWEEK0	Endoscopic_Remission
2.8483884E-07	1.0244331E-05	R_WEEK12vsWEEK0	Endoscopic_Remission

2.9210731E-07	1.0457442E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
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3.0572989E-07	1.0895038E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
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3.2914974E-07	1.1603127E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.2932525E-07	1.1603127E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.3784524E-07	1.1849693E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.429226E-07	1.1968964E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
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7.2956179E-07	2.3052704E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
7.2978765E-07	2.3052704E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
7.54519E-07	2.3785677E-05	R_WEEK12vsWEEK0	Endoscopic_Remission

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7.6853911E-07	2.4087408E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
7.687306E-07	2.4087408E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
7.8660568E-07	2.4526253E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
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9.1886057E-07	2.783933E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.0183907E-06	3.0440303E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.0340315E-06	3.0848606E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.0515447E-06	3.1311099E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.0539658E-06	3.13233E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.0790302E-06	3.2007117E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.0852426E-06	3.2069229E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.1085941E-06	3.2652919E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.1091886E-06	3.2652919E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.1374262E-06	3.3358075E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.1458033E-06	3.3540592E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.1687542E-06	3.4084285E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.1805756E-06	3.4364681E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.1979456E-06	3.4805236E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.2061064E-06	3.4977085E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.2336102E-06	3.5708199E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.2378906E-06	3.5765624E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.2524052E-06	3.6068882E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.2567322E-06	3.6068882E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.2568636E-06	3.6068882E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.2576513E-06	3.6068882E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.3266172E-06	3.7976857E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.3673362E-06	3.8999132E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.3776477E-06	3.9221405E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4233674E-06	4.0449087E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4654685E-06	4.1545455E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4672831E-06	4.1545455E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4912477E-06	4.2147368E-05	R_WEEK12vsWEEK0	Endoscopic_Remission

1.5219885E-06	4.2938275E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.5531298E-06	4.3658648E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.5634438E-06	4.3869389E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.6023836E-06	4.4800573E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.6480372E-06	4.5937729E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.6620179E-06	4.6218936E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.6778572E-06	4.657624E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.7005044E-06	4.7120917E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.7344791E-06	4.7976986E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.7618348E-06	4.8647256E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.7866003E-06	4.9243763E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.7978826E-06	4.9467184E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.8343352E-06	5.0381134E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.8923475E-06	5.1855546E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.9254378E-06	5.2604987E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9588792E-06	5.3424914E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9714317E-06	5.3673263E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
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2.0646595E-06	5.5821081E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.1074522E-06	5.6879294E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.149276E-06	5.7907743E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.2103758E-06	5.9451093E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.3047867E-06	6.1575794E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.3078382E-06	6.1575794E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
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2.3170052E-06	6.1575794E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
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2.3223192E-06	6.1575794E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
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2.4060591E-06	6.3507725E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4835409E-06	6.541217E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4866117E-06	6.541217E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4934946E-06	6.5482617E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
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2.5268195E-06	6.6134722E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.5356082E-06	6.62534E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.5652734E-06	6.6916252E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.5768661E-06	6.7106247E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.5941148E-06	6.7442655E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.6530235E-06	6.8859224E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.6658233E-06	6.9076315E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.6753666E-06	6.9208445E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.6821788E-06	6.9269602E-05	R_WEEK12vsWEEK0	Endoscopic_Remission

2.6921567E-06	6.9412179E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.7095065E-06	6.9744041E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.731614E-06	7.019707E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.7628867E-06	7.0883747E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.8540181E-06	7.3101354E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.8907795E-06	7.3800179E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.9183571E-06	7.4382282E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.9946301E-06	7.6201593E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
2.9998608E-06	7.6210167E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.0048191E-06	7.6211804E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.1079308E-06	7.8698873E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.1643859E-06	7.9766576E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
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3.1654623E-06	7.9766576E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
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3.2680361E-06	8.2085688E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.2761635E-06	8.2157318E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.2869735E-06	8.2198335E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.2883557E-06	8.2198335E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.3844808E-06	8.4465576E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.4740708E-06	8.6460187E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.4755074E-06	8.6460187E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.4892906E-06	8.6664629E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.5681666E-06	8.8482578E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
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3.63553E-06	8.986684E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.6909755E-06	9.1092807E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.7417949E-06	9.2200905E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.8173415E-06	9.3913837E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.9296274E-06	9.637179E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.9448595E-06	9.649921E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.9472161E-06	9.649921E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
3.9915261E-06	9.7429524E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
4.0000563E-06	9.7484939E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
4.0223232E-06	9.7874437E-05	R_WEEK12vsWEEK0	Endoscopic_Remission
4.1197687E-06	0.00010008917	R_WEEK12vsWEEK0	Endoscopic_Remission
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4.3174873E-06	0.00010440408	R_WEEK12vsWEEK0	Endoscopic_Remission
4.3291597E-06	0.00010452404	R_WEEK12vsWEEK0	Endoscopic_Remission
4.3539064E-06	0.0001049588	R_WEEK12vsWEEK0	Endoscopic_Remission
4.4318742E-06	0.00010667323	R_WEEK12vsWEEK0	Endoscopic_Remission
4.5536031E-06	0.00010939142	R_WEEK12vsWEEK0	Endoscopic_Remission
4.5588539E-06	0.00010939142	R_WEEK12vsWEEK0	Endoscopic_Remission
4.6116761E-06	0.00011048866	R_WEEK12vsWEEK0	Endoscopic_Remission
4.6623415E-06	0.00011153094	R_WEEK12vsWEEK0	Endoscopic_Remission

4.6706638E-06	0.00011155866	R_WEEK12vsWEEK0	Endoscopic_Remission
4.7101137E-06	0.00011208898	R_WEEK12vsWEEK0	Endoscopic_Remission
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4.7216573E-06	0.00011208898	R_WEEK12vsWEEK0	Endoscopic_Remission
4.7476321E-06	0.00011253406	R_WEEK12vsWEEK0	Endoscopic_Remission
4.766294E-06	0.00011267105	R_WEEK12vsWEEK0	Endoscopic_Remission
4.7678816E-06	0.00011267105	R_WEEK12vsWEEK0	Endoscopic_Remission
4.7800912E-06	0.00011276788	R_WEEK12vsWEEK0	Endoscopic_Remission
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5.0341946E-06	0.00011754026	R_WEEK12vsWEEK0	Endoscopic_Remission
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5.3761606E-06	0.00012366758	R_WEEK12vsWEEK0	Endoscopic_Remission
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6.1831201E-06	0.00013894622	R_WEEK12vsWEEK0	Endoscopic_Remission
6.2118909E-06	0.00013928118	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.1637393E-05	0.00022824825	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.1733915E-05	0.00022956314	R_WEEK12vsWEEK0	Endoscopic_Remission
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1.253838E-05	0.00024407525	R_WEEK12vsWEEK0	Endoscopic_Remission
1.2599062E-05	0.00024468881	R_WEEK12vsWEEK0	Endoscopic_Remission
1.2842078E-05	0.00024905314	R_WEEK12vsWEEK0	Endoscopic_Remission
1.302369E-05	0.0002522611	R_WEEK12vsWEEK0	Endoscopic_Remission
1.3317962E-05	0.00025732086	R_WEEK12vsWEEK0	Endoscopic_Remission
1.3528016E-05	0.00026105551	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4070665E-05	0.00027052156	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4136175E-05	0.00027132126	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4256278E-05	0.00027274327	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4275732E-05	0.00027278033	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4322874E-05	0.00027334573	R_WEEK12vsWEEK0	Endoscopic_Remission
1.443988E-05	0.00027524143	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4572103E-05	0.0002774222	R_WEEK12vsWEEK0	Endoscopic_Remission
1.4891329E-05	0.00028315344	R_WEEK12vsWEEK0	Endoscopic_Remission
1.5063297E-05	0.00028607405	R_WEEK12vsWEEK0	Endoscopic_Remission
1.516529E-05	0.00028766025	R_WEEK12vsWEEK0	Endoscopic_Remission
1.5194246E-05	0.00028785888	R_WEEK12vsWEEK0	Endoscopic_Remission
1.5360085E-05	0.00029029442	R_WEEK12vsWEEK0	Endoscopic_Remission

1.5767891E-05	0.00029728011	R_WEEK12vsWEEK0	Endoscopic_Remission
1.589992E-05	0.00029940684	R_WEEK12vsWEEK0	Endoscopic_Remission
1.5959242E-05	0.00030016096	R_WEEK12vsWEEK0	Endoscopic_Remission
1.5986223E-05	0.00030030573	R_WEEK12vsWEEK0	Endoscopic_Remission
1.638477E-05	0.00030742172	R_WEEK12vsWEEK0	Endoscopic_Remission
1.6452571E-05	0.00030832237	R_WEEK12vsWEEK0	Endoscopic_Remission
1.6529766E-05	0.00030939669	R_WEEK12vsWEEK0	Endoscopic_Remission
1.6594662E-05	0.00031023851	R_WEEK12vsWEEK0	Endoscopic_Remission
1.6644758E-05	0.00031080194	R_WEEK12vsWEEK0	Endoscopic_Remission
1.6796032E-05	0.00031325103	R_WEEK12vsWEEK0	Endoscopic_Remission
1.7020148E-05	0.00031705116	R_WEEK12vsWEEK0	Endoscopic_Remission
1.7116787E-05	0.00031847039	R_WEEK12vsWEEK0	Endoscopic_Remission
1.7157123E-05	0.00031883994	R_WEEK12vsWEEK0	Endoscopic_Remission
1.7252723E-05	0.0003202344	R_WEEK12vsWEEK0	Endoscopic_Remission
1.7460806E-05	0.00032371087	R_WEEK12vsWEEK0	Endoscopic_Remission
1.840526E-05	0.00033960321	R_WEEK12vsWEEK0	Endoscopic_Remission
1.873714E-05	0.00034531772	R_WEEK12vsWEEK0	Endoscopic_Remission
1.8783747E-05	0.00034576748	R_WEEK12vsWEEK0	Endoscopic_Remission
1.8848361E-05	0.00034654725	R_WEEK12vsWEEK0	Endoscopic_Remission
1.8875426E-05	0.00034663562	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9062001E-05	0.00034964964	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9119465E-05	0.00034997551	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9124713E-05	0.00034997551	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9303946E-05	0.00035242714	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9389804E-05	0.00035358011	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9414952E-05	0.00035362462	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9479915E-05	0.00035439337	R_WEEK12vsWEEK0	Endoscopic_Remission
1.958023E-05	0.0003554301	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9582548E-05	0.0003554301	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9828415E-05	0.0003594737	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9916495E-05	0.00036065066	R_WEEK12vsWEEK0	Endoscopic_Remission
1.9983179E-05	0.00036143792	R_WEEK12vsWEEK0	Endoscopic_Remission
2.0262259E-05	0.0003660605	R_WEEK12vsWEEK0	Endoscopic_Remission
2.0522261E-05	0.00037019173	R_WEEK12vsWEEK0	Endoscopic_Remission
2.068531E-05	0.00037191476	R_WEEK12vsWEEK0	Endoscopic_Remission
2.0705715E-05	0.00037191476	R_WEEK12vsWEEK0	Endoscopic_Remission
2.1517849E-05	0.00038605698	R_WEEK12vsWEEK0	Endoscopic_Remission
2.1785198E-05	0.00038995505	R_WEEK12vsWEEK0	Endoscopic_Remission
2.1931188E-05	0.00039211756	R_WEEK12vsWEEK0	Endoscopic_Remission
2.239941E-05	0.00039957161	R_WEEK12vsWEEK0	Endoscopic_Remission
2.2571917E-05	0.00040218818	R_WEEK12vsWEEK0	Endoscopic_Remission
2.2631471E-05	0.00040278846	R_WEEK12vsWEEK0	Endoscopic_Remission
2.2872522E-05	0.00040661391	R_WEEK12vsWEEK0	Endoscopic_Remission
2.2988072E-05	0.00040820211	R_WEEK12vsWEEK0	Endoscopic_Remission
2.3050921E-05	0.00040885193	R_WEEK12vsWEEK0	Endoscopic_Remission
2.3458203E-05	0.00041513022	R_WEEK12vsWEEK0	Endoscopic_Remission

2.4098897E-05	0.00042598425	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4137361E-05	0.00042618041	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4168625E-05	0.00042624915	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4220638E-05	0.00042651208	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4238309E-05	0.00042651208	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4518737E-05	0.00043079408	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4536977E-05	0.00043079408	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4643351E-05	0.00043172208	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4893089E-05	0.00043508426	R_WEEK12vsWEEK0	Endoscopic_Remission
2.4981469E-05	0.00043613947	R_WEEK12vsWEEK0	Endoscopic_Remission
2.5124752E-05	0.0004381498	R_WEEK12vsWEEK0	Endoscopic_Remission
2.5263097E-05	0.00044006959	R_WEEK12vsWEEK0	Endoscopic_Remission
2.5517756E-05	0.00044400896	R_WEEK12vsWEEK0	Endoscopic_Remission
2.5596232E-05	0.00044487737	R_WEEK12vsWEEK0	Endoscopic_Remission
2.5995191E-05	0.00045130781	R_WEEK12vsWEEK0	Endoscopic_Remission
2.6305899E-05	0.0004561935	R_WEEK12vsWEEK0	Endoscopic_Remission
2.6340407E-05	0.00045628382	R_WEEK12vsWEEK0	Endoscopic_Remission
2.6802767E-05	0.00046377721	R_WEEK12vsWEEK0	Endoscopic_Remission
2.6905271E-05	0.00046490227	R_WEEK12vsWEEK0	Endoscopic_Remission
2.6927493E-05	0.00046490227	R_WEEK12vsWEEK0	Endoscopic_Remission
2.701806E-05	0.00046594934	R_WEEK12vsWEEK0	Endoscopic_Remission
2.7128642E-05	0.00046733888	R_WEEK12vsWEEK0	Endoscopic_Remission
2.7948662E-05	0.00048093316	R_WEEK12vsWEEK0	Endoscopic_Remission
2.9044659E-05	0.0004986907	R_WEEK12vsWEEK0	Endoscopic_Remission
2.9261613E-05	0.00050186245	R_WEEK12vsWEEK0	Endoscopic_Remission
2.9544982E-05	0.00050616502	R_WEEK12vsWEEK0	Endoscopic_Remission
3.0085049E-05	0.00051485106	R_WEEK12vsWEEK0	Endoscopic_Remission
3.0365288E-05	0.00051850728	R_WEEK12vsWEEK0	Endoscopic_Remission
3.1333955E-05	0.00053446186	R_WEEK12vsWEEK0	Endoscopic_Remission
3.2220118E-05	0.00054897583	R_WEEK12vsWEEK0	Endoscopic_Remission
3.2942724E-05	0.00056006228	R_WEEK12vsWEEK0	Endoscopic_Remission
3.3039343E-05	0.00056109235	R_WEEK12vsWEEK0	Endoscopic_Remission
3.3298875E-05	0.00056488386	R_WEEK12vsWEEK0	Endoscopic_Remission
3.3458217E-05	0.00056696933	R_WEEK12vsWEEK0	Endoscopic_Remission
3.4076006E-05	0.00057681048	R_WEEK12vsWEEK0	Endoscopic_Remission
3.4679331E-05	0.0005857497	R_WEEK12vsWEEK0	Endoscopic_Remission
3.4791551E-05	0.00058700848	R_WEEK12vsWEEK0	Endoscopic_Remission
3.5322991E-05	0.00059468642	R_WEEK12vsWEEK0	Endoscopic_Remission
3.6004655E-05	0.00060550809	R_WEEK12vsWEEK0	Endoscopic_Remission
3.6161529E-05	0.00060642594	R_WEEK12vsWEEK0	Endoscopic_Remission
3.6172463E-05	0.00060642594	R_WEEK12vsWEEK0	Endoscopic_Remission
3.6176055E-05	0.00060642594	R_WEEK12vsWEEK0	Endoscopic_Remission
3.6255572E-05	0.00060652076	R_WEEK12vsWEEK0	Endoscopic_Remission
3.62903E-05	0.00060652076	R_WEEK12vsWEEK0	Endoscopic_Remission
3.6298552E-05	0.00060652076	R_WEEK12vsWEEK0	Endoscopic_Remission
3.6881834E-05	0.00061542468	R_WEEK12vsWEEK0	Endoscopic_Remission

3.6910464E-05	0.00061542468	R_WEEK12vsWEEK0	Endoscopic_Remission
3.7460644E-05	0.0006233059	R_WEEK12vsWEEK0	Endoscopic_Remission
3.7463194E-05	0.0006233059	R_WEEK12vsWEEK0	Endoscopic_Remission
3.7639912E-05	0.00062557775	R_WEEK12vsWEEK0	Endoscopic_Remission
3.7796778E-05	0.00062751516	R_WEEK12vsWEEK0	Endoscopic_Remission
3.7859462E-05	0.00062788647	R_WEEK12vsWEEK0	Endoscopic_Remission
3.8373179E-05	0.00063572927	R_WEEK12vsWEEK0	Endoscopic_Remission
3.8765789E-05	0.00064087009	R_WEEK12vsWEEK0	Endoscopic_Remission
3.9019202E-05	0.00064437543	R_WEEK12vsWEEK0	Endoscopic_Remission
3.9670706E-05	0.00065376867	R_WEEK12vsWEEK0	Endoscopic_Remission
3.9671957E-05	0.00065376867	R_WEEK12vsWEEK0	Endoscopic_Remission
4.0576219E-05	0.00066796349	R_WEEK12vsWEEK0	Endoscopic_Remission
4.0678769E-05	0.00066894454	R_WEEK12vsWEEK0	Endoscopic_Remission
4.0723974E-05	0.00066898149	R_WEEK12vsWEEK0	Endoscopic_Remission
4.0791784E-05	0.0006693893	R_WEEK12vsWEEK0	Endoscopic_Remission
4.1290743E-05	0.00067686393	R_WEEK12vsWEEK0	Endoscopic_Remission
4.1903107E-05	0.00068617991	R_WEEK12vsWEEK0	Endoscopic_Remission
4.212723E-05	0.00068912537	R_WEEK12vsWEEK0	Endoscopic_Remission
4.2385075E-05	0.00069261572	R_WEEK12vsWEEK0	Endoscopic_Remission
4.2501938E-05	0.00069324628	R_WEEK12vsWEEK0	Endoscopic_Remission
4.2512695E-05	0.00069324628	R_WEEK12vsWEEK0	Endoscopic_Remission
4.3517724E-05	0.00070889279	R_WEEK12vsWEEK0	Endoscopic_Remission
4.3758846E-05	0.00071207577	R_WEEK12vsWEEK0	Endoscopic_Remission
4.4057678E-05	0.00071619021	R_WEEK12vsWEEK0	Endoscopic_Remission
4.41647E-05	0.00071718131	R_WEEK12vsWEEK0	Endoscopic_Remission
4.4461578E-05	0.00072125016	R_WEEK12vsWEEK0	Endoscopic_Remission
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4.4708409E-05	0.00072351307	R_WEEK12vsWEEK0	Endoscopic_Remission
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4.5075491E-05	0.00072817493	R_WEEK12vsWEEK0	Endoscopic_Remission
4.5183824E-05	0.0007291686	R_WEEK12vsWEEK0	Endoscopic_Remission
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4.5743554E-05	0.0007359136	R_WEEK12vsWEEK0	Endoscopic_Remission
4.5877802E-05	0.00073711718	R_WEEK12vsWEEK0	Endoscopic_Remission
4.5913033E-05	0.00073711718	R_WEEK12vsWEEK0	Endoscopic_Remission
4.6061888E-05	0.0007387454	R_WEEK12vsWEEK0	Endoscopic_Remission
4.6245941E-05	0.0007409342	R_WEEK12vsWEEK0	Endoscopic_Remission
4.6501254E-05	0.00074425903	R_WEEK12vsWEEK0	Endoscopic_Remission
4.6648178E-05	0.00074584402	R_WEEK12vsWEEK0	Endoscopic_Remission
4.6791374E-05	0.00074736622	R_WEEK12vsWEEK0	Endoscopic_Remission
4.6983925E-05	0.00074967282	R_WEEK12vsWEEK0	Endoscopic_Remission
4.7513536E-05	0.00075734729	R_WEEK12vsWEEK0	Endoscopic_Remission
4.759098E-05	0.00075780606	R_WEEK12vsWEEK0	Endoscopic_Remission
4.8028819E-05	0.00076399673	R_WEEK12vsWEEK0	Endoscopic_Remission
4.841848E-05	0.00076889978	R_WEEK12vsWEEK0	Endoscopic_Remission
4.8435798E-05	0.00076889978	R_WEEK12vsWEEK0	Endoscopic_Remission

4.8530163E-05	0.00076961327	R_WEEK12vsWEEK0	Endoscopic_Remission
4.8620229E-05	0.0007702572	R_WEEK12vsWEEK0	Endoscopic_Remission
4.870169E-05	0.00077076363	R_WEEK12vsWEEK0	Endoscopic_Remission
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5.0107094E-05	0.00078899674	R_WEEK12vsWEEK0	Endoscopic_Remission
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5.5164454E-05	0.00086200631	R_WEEK12vsWEEK0	Endoscopic_Remission
5.5186559E-05	0.00086200631	R_WEEK12vsWEEK0	Endoscopic_Remission
5.5318461E-05	0.0008632008	R_WEEK12vsWEEK0	Endoscopic_Remission
5.6029653E-05	0.00087313444	R_WEEK12vsWEEK0	Endoscopic_Remission
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5.6300416E-05	0.00087589049	R_WEEK12vsWEEK0	Endoscopic_Remission
5.6439135E-05	0.0008771723	R_WEEK12vsWEEK0	Endoscopic_Remission
5.6755419E-05	0.00088120851	R_WEEK12vsWEEK0	Endoscopic_Remission
5.722272E-05	0.0008875791	R_WEEK12vsWEEK0	Endoscopic_Remission
5.8195963E-05	0.00090087363	R_WEEK12vsWEEK0	Endoscopic_Remission
5.8253371E-05	0.00090087363	R_WEEK12vsWEEK0	Endoscopic_Remission
5.834406E-05	0.000901381	R_WEEK12vsWEEK0	Endoscopic_Remission
5.8539888E-05	0.00090351008	R_WEEK12vsWEEK0	Endoscopic_Remission
5.8918252E-05	0.00090844945	R_WEEK12vsWEEK0	Endoscopic_Remission
5.9015637E-05	0.00090846568	R_WEEK12vsWEEK0	Endoscopic_Remission
5.9035977E-05	0.00090846568	R_WEEK12vsWEEK0	Endoscopic_Remission
5.9761991E-05	0.00091784025	R_WEEK12vsWEEK0	Endoscopic_Remission
5.9763052E-05	0.00091784025	R_WEEK12vsWEEK0	Endoscopic_Remission
6.0232929E-05	0.00092414523	R_WEEK12vsWEEK0	Endoscopic_Remission
6.0552514E-05	0.00092813415	R_WEEK12vsWEEK0	Endoscopic_Remission
6.0855112E-05	0.00093093974	R_WEEK12vsWEEK0	Endoscopic_Remission
6.1100695E-05	0.00093377932	R_WEEK12vsWEEK0	Endoscopic_Remission
6.1497846E-05	0.0009389274	R_WEEK12vsWEEK0	Endoscopic_Remission
6.1765966E-05	0.00094209735	R_WEEK12vsWEEK0	Endoscopic_Remission
6.1918039E-05	0.00094349278	R_WEEK12vsWEEK0	Endoscopic_Remission
6.2957445E-05	0.00095839324	R_WEEK12vsWEEK0	Endoscopic_Remission
6.3099324E-05	0.000959615	R_WEEK12vsWEEK0	Endoscopic_Remission
6.3407851E-05	0.0009633663	R_WEEK12vsWEEK0	Endoscopic_Remission
6.3646911E-05	0.0009660559	R_WEEK12vsWEEK0	Endoscopic_Remission
6.4581499E-05	0.00097928693	R_WEEK12vsWEEK0	Endoscopic_Remission
6.5002659E-05	0.0009847144	R_WEEK12vsWEEK0	Endoscopic_Remission
6.5736839E-05	0.0009948686	R_WEEK12vsWEEK0	Endoscopic_Remission
6.6201549E-05	0.00100092885	R_WEEK12vsWEEK0	Endoscopic_Remission
6.7072203E-05	0.00101310903	R_WEEK12vsWEEK0	Endoscopic_Remission

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6.7697998E-05	0.00101860959	R_WEEK12vsWEEK0	Endoscopic_Remission
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6.8186005E-05	0.00102298714	R_WEEK12vsWEEK0	Endoscopic_Remission
6.8723911E-05	0.00103006493	R_WEEK12vsWEEK0	Endoscopic_Remission
6.9437873E-05	0.00103976539	R_WEEK12vsWEEK0	Endoscopic_Remission
7.0030735E-05	0.00104663017	R_WEEK12vsWEEK0	Endoscopic_Remission
7.0207005E-05	0.00104825857	R_WEEK12vsWEEK0	Endoscopic_Remission
7.0503816E-05	0.00105156287	R_WEEK12vsWEEK0	Endoscopic_Remission
7.0563359E-05	0.00105156287	R_WEEK12vsWEEK0	Endoscopic_Remission
7.141784E-05	0.00106226364	R_WEEK12vsWEEK0	Endoscopic_Remission
7.1560164E-05	0.00106336492	R_WEEK12vsWEEK0	Endoscopic_Remission
7.2648834E-05	0.00107851315	R_WEEK12vsWEEK0	Endoscopic_Remission
7.2761336E-05	0.00107915456	R_WEEK12vsWEEK0	Endoscopic_Remission
7.4515249E-05	0.00110306652	R_WEEK12vsWEEK0	Endoscopic_Remission
7.507106E-05	0.00111023895	R_WEEK12vsWEEK0	Endoscopic_Remission
7.5516422E-05	0.00111576588	R_WEEK12vsWEEK0	Endoscopic_Remission
7.6976868E-05	0.00113626613	R_WEEK12vsWEEK0	Endoscopic_Remission
7.7358004E-05	0.00114081079	R_WEEK12vsWEEK0	Endoscopic_Remission
7.7553248E-05	0.00114222155	R_WEEK12vsWEEK0	Endoscopic_Remission
7.7600359E-05	0.00114222155	R_WEEK12vsWEEK0	Endoscopic_Remission
7.7872456E-05	0.00114514424	R_WEEK12vsWEEK0	Endoscopic_Remission
7.8801597E-05	0.00115771441	R_WEEK12vsWEEK0	Endoscopic_Remission
7.9336786E-05	0.00116446259	R_WEEK12vsWEEK0	Endoscopic_Remission
7.9410471E-05	0.00116446259	R_WEEK12vsWEEK0	Endoscopic_Remission
8.0148518E-05	0.00117417956	R_WEEK12vsWEEK0	Endoscopic_Remission
8.1082043E-05	0.00118562503	R_WEEK12vsWEEK0	Endoscopic_Remission
8.2386999E-05	0.00120357668	R_WEEK12vsWEEK0	Endoscopic_Remission
8.3285817E-05	0.00121502943	R_WEEK12vsWEEK0	Endoscopic_Remission
8.3327004E-05	0.00121502943	R_WEEK12vsWEEK0	Endoscopic_Remission
8.409586E-05	0.00122509339	R_WEEK12vsWEEK0	Endoscopic_Remission
8.4319751E-05	0.00122720699	R_WEEK12vsWEEK0	Endoscopic_Remission
8.5157042E-05	0.00123823587	R_WEEK12vsWEEK0	Endoscopic_Remission
8.5691763E-05	0.00124368856	R_WEEK12vsWEEK0	Endoscopic_Remission
8.647211E-05	0.0012538456	R_WEEK12vsWEEK0	Endoscopic_Remission
8.6885306E-05	0.001258665	R_WEEK12vsWEEK0	Endoscopic_Remission
8.7572948E-05	0.00126744751	R_WEEK12vsWEEK0	Endoscopic_Remission
8.8275542E-05	0.00127642992	R_WEEK12vsWEEK0	Endoscopic_Remission
8.8697564E-05	0.00128134245	R_WEEK12vsWEEK0	Endoscopic_Remission
8.9344486E-05	0.00128949183	R_WEEK12vsWEEK0	Endoscopic_Remission
9.1733633E-05	0.00132030302	R_WEEK12vsWEEK0	Endoscopic_Remission
9.313529E-05	0.00133923903	R_WEEK12vsWEEK0	Endoscopic_Remission
9.3314924E-05	0.00133964591	R_WEEK12vsWEEK0	Endoscopic_Remission
9.3335633E-05	0.00133964591	R_WEEK12vsWEEK0	Endoscopic_Remission

9.3470182E-05	0.00134034176	R_WEEK12vsWEEK0	Endoscopic_Remission
9.3725864E-05	0.00134277175	R_WEEK12vsWEEK0	Endoscopic_Remission
9.4169781E-05	0.00134665381	R_WEEK12vsWEEK0	Endoscopic_Remission
9.4260052E-05	0.00134670806	R_WEEK12vsWEEK0	Endoscopic_Remission
9.504714E-05	0.00135670863	R_WEEK12vsWEEK0	Endoscopic_Remission
9.6182353E-05	0.00137165547	R_WEEK12vsWEEK0	Endoscopic_Remission
9.7510763E-05	0.00138932764	R_WEEK12vsWEEK0	Endoscopic_Remission
9.9386582E-05	0.0014134678	R_WEEK12vsWEEK0	Endoscopic_Remission
9.9808329E-05	0.00141817072	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00010028865	0.00142369661	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00010052264	0.00142571861	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00010083333	0.00142882385	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00010315692	0.00146042069	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00010346248	0.00146341622	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00010378583	0.00146665767	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00010478639	0.00147811451	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00010614859	0.00149597458	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00010759548	0.00151226033	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00010868388	0.00152444281	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00010875592	0.00152444281	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0001095612	0.00153434939	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00011008997	0.00154036931	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00011137678	0.00155478445	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00011177904	0.0015584019	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00011209251	0.00156137451	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00011416503	0.00158841713	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00011477055	0.00159439943	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0001156825	0.00160563595	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00011586192	0.00160669422	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0001182901	0.00163890721	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00012041092	0.00166385031	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00012058063	0.00166471816	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00012078137	0.00166601259	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00012162807	0.00167544304	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00012168022	0.00167544304	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00012387437	0.00170414801	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00012419255	0.00170701722	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00012517458	0.00171899795	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0001259596	0.00172825448	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00012615255	0.00172937825	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0001271553	0.00174159145	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00012754234	0.00174481507	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00012847928	0.00175509453	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00013149851	0.00179476454	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0001322196	0.00180302607	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00013310734	0.00181354378	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00013340939	0.00181487255	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00013343794	0.00181487255	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00013376235	0.0018176973	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00013518566	0.00183224226	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00013612209	0.00184332981	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00013755525	0.00186111899	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00013786428	0.001863681	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0001380043	0.0018639558	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00013820841	0.00186509496	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00014167493	0.00190856725	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00014331673	0.0019290159	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00014386479	0.00193472055	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0001441796	0.00193728123	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0001443544	0.00193795789	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00014484569	0.00194287849	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00014521298	0.00194612885	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00014557105	0.00194833122	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00014757327	0.0019709765	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00014835102	0.0019766478	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00014856952	0.0019766478	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00014866215	0.0019766478	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00014872417	0.0019766478	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00014875065	0.0019766478	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00014884119	0.0019766478	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0001488864	0.0019766478	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0001516576	0.00201172386	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00015241825	0.00202009305	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00015259257	0.00202068375	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00015344488	0.00202869312	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00015345794	0.00202869312	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00015480372	0.00204474844	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0001573221	0.00207449369	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00015770446	0.00207777622	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00015905781	0.00209081961	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00015909723	0.00209081961	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00016074581	0.00210872599	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00016086525	0.00210872599	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00016121974	0.00210981087	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00016190681	0.00211702333	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00016437486	0.00214592244	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00016439257	0.00214592244	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00016594119	0.00216109149	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00016597094	0.00216109149	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00016752945	0.00217774295	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00016979538	0.00220351954	R_WEEK12vsWEEK0	Endoscopic_Remission
0.000170449	0.00221016011	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00017146547	0.00222149064	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00017342278	0.00224498166	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00017474876	0.00225628921	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00017483626	0.00225628921	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00017487582	0.00225628921	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00017623992	0.00227200683	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00017781286	0.00229038853	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00017816347	0.00229145566	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00017819	0.00229145566	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00017969729	0.0023051284	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00018187752	0.00233117586	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00018310972	0.00234503915	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00018344287	0.00234737538	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0001838004	0.00234989695	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00018394172	0.00234989695	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00018483929	0.00235942815	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00018505609	0.00236026081	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00018545857	0.00236345858	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0001868213	0.00237887824	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00018739947	0.0023823444	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00018757732	0.00238266042	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00018874909	0.0023952771	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0001888782	0.0023952771	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00019063131	0.00241554224	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00019171634	0.00242731589	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00019277281	0.00243493556	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0001928941	0.00243493556	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00019294359	0.00243493556	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00019399572	0.002446231	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00019613998	0.00247126853	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00019718435	0.00248241865	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00019781525	0.00248834963	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00019826911	0.00249014594	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00019828546	0.00249014594	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00019946942	0.00250107677	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00019976365	0.00250275082	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00020035118	0.002508094	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00020131327	0.00251811371	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00020149604	0.00251837712	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00020225521	0.00252583828	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00020328097	0.00253458328	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00020346306	0.0025348242	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00020496503	0.00254945721	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00020527397	0.00255126226	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00020672948	0.0025673032	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0002071119	0.00257000284	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00020783178	0.00257688245	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00020833929	0.00258111991	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00021120354	0.00261334343	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00021367368	0.00263881066	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00021457836	0.00264473389	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0002149753	0.00264473389	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00021513499	0.00264473389	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0002151391	0.00264473389	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00021517227	0.00264473389	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00021597658	0.00265252619	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00021723708	0.00266590463	R_WEEK12vsWEEK0	Endoscopic_Remission
0.000217482	0.00266680882	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00021802124	0.00267131768	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00021850189	0.00267510211	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00021869896	0.00267541156	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00021970158	0.00268556725	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00022038825	0.00269184805	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00022263333	0.00271647818	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0002241946	0.00272977518	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00022459392	0.00273146512	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00022498275	0.00273146512	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0002251044	0.00273146512	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00022521038	0.00273146512	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00022651154	0.00274510834	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0002283481	0.00276521379	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00023131495	0.00279896487	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00023244487	0.00281045344	R_WEEK12vsWEEK0	Endoscopic_Remission
0.000232969	0.00281460528	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0002342558	0.00282795785	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00023591928	0.00284583342	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00023667884	0.00284959681	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00023691823	0.00284959681	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0002369632	0.00284959681	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00023826443	0.00286303393	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00023862869	0.00286520011	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00023924831	0.00286657413	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00023933268	0.00286657413	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00023947755	0.00286657413	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00023960284	0.00286657413	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00023966349	0.00286657413	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00024087552	0.00287885986	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00024200185	0.0028873631	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0002424272	0.00288838814	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0002450654	0.00291264033	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00024527453	0.00291264033	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00024527541	0.00291264033	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00024538523	0.00291264033	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00024578035	0.00291508871	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00024596587	0.00291508871	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00024635198	0.00291744443	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00024906381	0.00294508032	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00024930104	0.0029456488	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00024957888	0.00294669594	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00025349646	0.00299068204	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00025368935	0.00299069208	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00025496548	0.00300346252	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00025560785	0.00300665955	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00025562302	0.00300665955	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00025805874	0.00303301794	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00025846784	0.00303553515	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00026153535	0.00306693519	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00026230323	0.0030736254	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00026269572	0.00307591006	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00026297663	0.00307660762	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00026328023	0.00307660762	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00026343412	0.00307660762	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00026354553	0.00307660762	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0002641757	0.00308165403	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00026442777	0.00308228573	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00026540806	0.00309139846	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00026730825	0.00311120436	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00026753205	0.00311148368	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00026815947	0.00311645334	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00026842589	0.00311722329	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00027133146	0.00314861759	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00027170932	0.00314881691	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00027175303	0.00314881691	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00027533547	0.00318795486	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00027700878	0.00319881325	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00027805672	0.0032054869	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00027808469	0.0032054869	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00027885784	0.00321064071	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00027894413	0.00321064071	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00027986453	0.00321885544	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00028026222	0.00321905585	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00028029537	0.00321905585	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00028181244	0.00323409366	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00028241591	0.00323863256	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00028265144	0.00323894842	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00028637021	0.00327914947	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00028762278	0.00328855951	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00028772861	0.00328855951	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00028803668	0.00328855951	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00028838548	0.00329012977	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0002911192	0.00331715488	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00029118029	0.00331715488	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00029466855	0.00335198931	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00029537893	0.00335761763	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00030421017	0.00345548134	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00030566684	0.00346949686	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00030838261	0.00349777308	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00030922607	0.003503174	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00030930869	0.003503174	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00031139327	0.00352422044	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00031392193	0.00355025874	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00031633614	0.00357496568	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00031856454	0.00359753845	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00031904195	0.00360031903	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00032147586	0.0036251583	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00032410153	0.00365212241	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00032463797	0.00365552217	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00032585047	0.00366652412	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00032651127	0.00366865803	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00032899455	0.00369389482	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00032933705	0.00369507631	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00033087123	0.00370763378	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00033800277	0.00377628021	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00033802958	0.00377628021	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00034106525	0.00380707147	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00034249199	0.00381791531	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00034281236	0.00381875315	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00034329423	0.00382138749	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00034624649	0.00385149753	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00034710701	0.00385831372	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00034851218	0.00387116986	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00034894322	0.00387319512	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00034975869	0.00387396305	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00035087006	0.00388351062	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00035166693	0.00388956616	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00035210119	0.00389160524	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00035422488	0.0039123008	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00035566503	0.00392542275	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00035812373	0.00394696447	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00035855194	0.00394866415	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00035878506	0.00394866415	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00035963988	0.00395527677	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00036046876	0.0039615949	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00036230894	0.00397620658	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00036433269	0.00399560064	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00036557147	0.00400354743	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0003660687	0.00400617555	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00036893843	0.00403474587	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00036920733	0.00403485317	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00036969077	0.00403730324	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00037070882	0.00404558408	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0003721907	0.00405607126	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00037357214	0.00406827896	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00037906415	0.00412232264	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00038135147	0.00413848445	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00038171605	0.00413848445	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00038187903	0.00413848445	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00038234335	0.00414063489	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00038295957	0.00414442621	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00038845134	0.0041951128	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00039475316	0.00426021554	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00039551608	0.00426549296	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00039787492	0.00428796271	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00039833454	0.00428994727	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00040048809	0.00430535334	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00040059443	0.00430535334	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00040144694	0.0043115401	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00040186598	0.00431235173	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00040329625	0.00432245871	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00040655594	0.00435439863	R_WEEK12vsWEEK0	Endoscopic_Remission
0.000407627	0.00436157612	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00040873912	0.00436429038	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00040888073	0.00436429038	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00041188182	0.00439331202	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00041465337	0.00441984734	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0004181622	0.00445419968	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00041887845	0.00445831459	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00041912108	0.00445831459	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00042161441	0.00448177561	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00042233025	0.00448485815	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00042248038	0.00448485815	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00042352469	0.00449288142	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00042443827	0.00449950796	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00042473866	0.00449962937	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00042577901	0.00450758426	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00042631629	0.00451020626	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00042738129	0.0045184038	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00043112998	0.00455253523	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00043119434	0.00455253523	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00043317007	0.00456997835	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00043513411	0.00458480617	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00043551586	0.0045857258	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00043941819	0.00462368882	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00044360217	0.00466456222	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00044578464	0.00468197418	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00044585935	0.00468197418	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00045119417	0.00473161398	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00045164797	0.00473318568	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00045801698	0.00479166701	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00045815143	0.00479166701	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0004617176	0.00481857265	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00046177644	0.00481857265	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0004622677	0.00481857265	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00046238055	0.00481857265	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00046239239	0.00481857265	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00046552224	0.00484597451	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00047369617	0.00492524793	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00047377008	0.00492524793	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00047747633	0.0049571593	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00048141598	0.00498808454	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00048309651	0.00500216887	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00048782002	0.00504102268	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00049563556	0.00511839031	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00049624593	0.00512129747	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00049667108	0.00512229051	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00049762803	0.00512876331	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00049814102	0.00513065482	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00050341649	0.00517876656	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00050347734	0.00517876656	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00050515282	0.00519031954	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00050526709	0.00519031954	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00050805547	0.00521208685	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00051021492	0.00523079453	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00051375855	0.00526019849	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0005165755	0.00528209476	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0005169959	0.00528292461	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00051891402	0.0052990479	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00051970877	0.00530368589	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00052153734	0.00531886119	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00052325182	0.0053328538	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00052675054	0.00536500077	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00053071741	0.00540187074	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00053313848	0.0054194292	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00053460407	0.00543078219	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00053497189	0.00543097606	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00053937693	0.00547212831	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00054111114	0.0054861483	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0005419546	0.00549101039	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00054236584	0.00549101039	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00054320127	0.00549101039	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00054353916	0.00549101039	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00054370629	0.00549101039	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00054515776	0.00550210099	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00054626508	0.00550935239	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00054702444	0.00550935239	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00054704624	0.00550935239	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00054729135	0.00550935239	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00054930916	0.00552609269	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0005499612	0.00552908059	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00056106866	0.00563711115	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00056264968	0.005649351	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00056342654	0.00565350615	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00056600661	0.00567208559	R_WEEK12vsWEEK0	Endoscopic_Remission
0.000567341	0.00568180153	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00056928407	0.00569266248	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00056952213	0.00569266248	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00057005179	0.00569430182	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00057140006	0.00570411095	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0005737142	0.00572113635	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0005738403	0.00572113635	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00057427866	0.00572184361	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00057822371	0.00575378779	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00058091087	0.0057731493	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00058176365	0.00577793707	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00058959847	0.00585201848	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00059319199	0.00588019028	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00059397921	0.00588424826	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00059880028	0.00592823699	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00059980148	0.00593437635	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00060202957	0.00594886197	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00060303241	0.00595499283	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00060613401	0.00598182826	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00060708318	0.00598740116	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00060904044	0.00599957907	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00060908845	0.00599957907	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00061076066	0.00600844963	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00061182834	0.00601515321	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0006124808	0.0060177688	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00061434457	0.00603227486	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00062089388	0.0060889045	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00062346809	0.00611030117	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00062456633	0.00611721478	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00062651148	0.00613240938	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00062879885	0.00614927014	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00062907272	0.00614927014	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00062941865	0.00614927014	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00063024229	0.00615345652	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00063279966	0.00617455454	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00063706519	0.00621228312	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00064560455	0.00629161433	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0006466251	0.00629761896	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00064880794	0.00631492878	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00065150088	0.00633717881	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00065656113	0.00637843199	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00065986307	0.00640651344	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00066604178	0.00645844872	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00066847801	0.00647803866	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00066923346	0.00648132627	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00067171386	0.00650130512	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00067544564	0.00653336334	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00067631883	0.00653774866	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00067724717	0.00654266144	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00067850013	0.00655070212	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0006805992	0.00656689672	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00068427066	0.00659415037	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00069588172	0.00669361707	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00069658622	0.0066955314	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00069717762	0.0066955314	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00069737057	0.0066955314	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00069863468	0.00669930362	R_WEEK12vsWEEK0	Endoscopic_Remission
0.000699291	0.00669930362	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00069948422	0.00669930362	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00070011315	0.00670120594	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00070561363	0.00674556233	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00070813089	0.00676547384	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00071108211	0.00678950438	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00071517175	0.00682018966	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00071992869	0.00685997606	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0007202248	0.00685997606	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00072109683	0.00686408366	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00072200406	0.00686852118	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00072443006	0.00688739273	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00072874222	0.00692416265	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00073013683	0.00693318343	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00073387203	0.00696440533	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00073446609	0.0069657981	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00073491795	0.00696584125	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00074096206	0.00700618719	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00074097414	0.00700618719	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00074175665	0.0070093303	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00074450579	0.0070294978	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00074479364	0.0070294978	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00074534418	0.00703043306	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00074989817	0.00706483014	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00075747326	0.00713188092	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0007635607	0.00718485242	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00076808096	0.00721866315	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00076912302	0.00722409695	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0007699702	0.00722769498	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00077180725	0.00724057486	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00078175487	0.00732021474	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00078235291	0.00732021474	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00078264673	0.00732021474	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00078464207	0.00733447237	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00078751478	0.00735690921	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0007934487	0.0074078996	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00079800164	0.00744594343	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00079886876	0.00744957081	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00080052471	0.00746054533	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00081092672	0.00752643994	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00081254206	0.00753526811	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00081289735	0.00753526811	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00081662873	0.00756535346	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00082034048	0.00759522133	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00082285699	0.00761399399	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00082960501	0.00766732276	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00083274943	0.00768725959	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00083479378	0.0077015661	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00083978319	0.00774300988	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00084223888	0.00776105684	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00085247811	0.00785076379	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00085799878	0.00788761216	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00086514018	0.00794857107	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00086597447	0.00795154504	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00086719255	0.00795803748	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00086989079	0.00796484896	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00086998061	0.00796484896	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00087233512	0.00798171263	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00087329786	0.00798394102	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00087360403	0.00798394102	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00088624834	0.008094748	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00088696469	0.00809603324	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0008874288	0.00809603324	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0008908711	0.00812267894	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00089252896	0.00813303308	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00089599112	0.00815980687	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00089657434	0.00816034608	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00090093039	0.00819520385	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00090428957	0.00822095824	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00090517476	0.00822420452	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0009062685	0.00822934077	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00090688945	0.00823018032	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0009127634	0.0082705784	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0009129342	0.0082705784	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00091595071	0.0082930816	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0009200676	0.00832068103	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00092169079	0.00833052275	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00092838541	0.00838616356	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00093245667	0.00841805669	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00093606054	0.00844569569	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00094162991	0.00849102637	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00094711455	0.00853554104	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00095087027	0.00855948131	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00095427841	0.00858519797	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00095493132	0.00858611173	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00096025205	0.0086289701	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00096205539	0.00864018947	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00096655396	0.00867558776	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00098167584	0.00880117324	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00098670718	0.00884119152	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00098906719	0.00885724174	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00099135232	0.00886853345	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00099146707	0.00886853345	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00099384554	0.00888001957	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00099389161	0.00888001957	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00099486973	0.00888366188	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0009976846	0.00890369187	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00099998808	0.00890722058	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00100114492	0.00890722058	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00100127112	0.00890722058	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0010015118	0.00890722058	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00100858052	0.00896496828	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00101075999	0.00897921579	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00101546397	0.00901586116	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00102233016	0.00907165102	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00102800556	0.00911681694	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00103051956	0.00913391072	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00103196986	0.00914156234	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00104211446	0.0092220844	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00104229968	0.0092220844	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00104283636	0.0092220844	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00104435887	0.00923030686	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00105068565	0.00928095728	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0010519004	0.00928642002	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00106240756	0.00936855774	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00106653311	0.00939961524	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00106893475	0.00941462145	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00106951393	0.00941462145	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00107004944	0.00941462145	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0010715564	0.00942255668	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00107799567	0.00946848654	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00108286164	0.00950586489	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00108525959	0.00951648302	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00108529338	0.00951648302	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00108952854	0.00954824309	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00109238322	0.00956328016	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00109247257	0.00956328016	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00109815822	0.00960765054	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00110116216	0.00962752669	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00110166651	0.00962752669	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00110489813	0.00965035256	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0011062746	0.00965695873	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00110768753	0.00966387556	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00111272815	0.00969698686	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00111518336	0.0097129477	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00111597639	0.00971442167	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00111966734	0.00973889515	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00112534242	0.00977955218	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00112790282	0.00979633605	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00112909454	0.00980122034	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00113015258	0.00980493933	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00113436179	0.00983597783	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00114248803	0.00989542051	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00114390006	0.00990214319	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00114528515	0.00990862538	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00114819359	0.00992427505	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00114836856	0.00992427505	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00115337078	0.00995912991	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00115368075	0.00995912991	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00115859566	0.00999048183	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00116214527	0.01001554411	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00117098561	0.01008057432	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0011771272	0.01012225397	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00117824231	0.01012625135	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00117969948	0.01013318254	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00118631066	0.01017874157	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00118879927	0.01019447741	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00118947479	0.01019465653	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00119141504	0.01020566912	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00119736734	0.01024722975	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00119781784	0.01024722975	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00119837671	0.01024722975	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0011988989	0.01024722975	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0012065727	0.01030530495	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00120701703	0.01030530495	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00120770736	0.0103055489	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00120844039	0.01030595615	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0012099367	0.01030595615	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00121032211	0.01030595615	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00121040222	0.01030595615	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00121525374	0.01033477128	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00121577737	0.01033477128	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00121693344	0.01033895498	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00122146957	0.01036408768	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00122148782	0.01036408768	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00122308707	0.01036860909	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0012312115	0.01043180448	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00123301821	0.01044143155	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00123651709	0.01046536993	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0012404245	0.01048093412	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00124387713	0.010499132	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00124623542	0.01051333926	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00125058908	0.01054207916	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0012509961	0.01054207916	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00125184757	0.01054354906	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00125275685	0.01054550399	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00125491214	0.01055793987	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00125883098	0.01057947915	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00126383026	0.01061576518	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00126466218	0.01061702645	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00126806078	0.01063409295	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00129421178	0.01081263949	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00129876716	0.01083674332	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00129918447	0.01083674332	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00130066592	0.01084329247	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00131038464	0.01090679847	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00131563434	0.01093862426	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00131631554	0.01093862426	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00132549722	0.01100318131	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00132689958	0.0110089543	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00132788145	0.01101123418	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00132886803	0.01101355071	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00133351062	0.01104306886	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00133384785	0.01104306886	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00133906422	0.01108036506	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00134325894	0.0111046897	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00134343	0.0111046897	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00134983049	0.01113978731	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00135706806	0.01117589684	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00136181693	0.01120416687	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00136255717	0.01120416687	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00136295195	0.01120416687	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00136850348	0.01123442524	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00137206388	0.01125771911	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00137317162	0.01126087499	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00137700374	0.01128357102	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00137738833	0.01128357102	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00137938162	0.01129395897	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00138099287	0.01130120968	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00138369381	0.01130707494	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00138388781	0.01130707494	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00138542984	0.01131373824	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00138847781	0.01133065208	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00139339706	0.01134904416	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0013983098	0.01137576216	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00139882131	0.01137576216	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00139886885	0.01137576216	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00140109639	0.01138793013	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00141175275	0.0114625785	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00141479312	0.01147529853	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00141558645	0.01147575625	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00142082652	0.01151224317	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00142726753	0.0115584177	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0014298476	0.01156431796	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0014299911	0.01156431796	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00143283555	0.01157495658	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00143422126	0.01157495658	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00143436078	0.01157495658	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00143451269	0.01157495658	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00144445432	0.01164310931	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00144637145	0.01164797595	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00144719108	0.01164797595	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0014478875	0.01164797595	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00144804992	0.01164797595	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00145343382	0.01168524772	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0014574344	0.01171136525	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00147670728	0.01184179321	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00148217277	0.01187950412	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00148415923	0.01188930639	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.001492756	0.01192849246	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00151085196	0.01203503711	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00152074768	0.01209530319	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00152594819	0.01212395298	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00152664889	0.01212395298	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0015272744	0.01212395298	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00152746393	0.01212395298	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00153016103	0.01213917354	R_WEEK12vsWEEK0	Endoscopic_Remission

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0.00153532879	0.01216569771	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00153584805	0.01216569771	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00153799568	0.01217032862	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00153996093	0.01217969102	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00154605718	0.0122115049	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00154633582	0.0122115049	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00154849861	0.01221619499	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00156605273	0.01232103795	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00156660947	0.01232103795	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00156732654	0.01232103795	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00156971532	0.01232803645	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00156980006	0.01232803645	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00158214241	0.01241244519	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00158610965	0.01243730393	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00159800158	0.01252424687	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00159937287	0.012528689	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00160183385	0.01254165838	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00160277699	0.01254273673	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00160557775	0.01255247496	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00161013413	0.01258134414	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00161346778	0.01260107005	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0016219426	0.01265456517	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00163850428	0.01277098453	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00164084991	0.01278286928	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00166370407	0.01295443176	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00166837227	0.01298428855	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00167732148	0.01304741631	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00168362354	0.01308989988	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00170678751	0.01325015048	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00171601619	0.01331262017	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0017165441	0.01331262017	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00172108748	0.01334121223	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00174079516	0.01347385833	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00174571044	0.01350395934	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00176063002	0.01359298756	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00176350746	0.01360232873	R_WEEK12vsWEEK0	Endoscopic_Remission

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0.00178312048	0.01372641387	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00178434145	0.01372902641	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00178831327	0.01374527559	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00178885714	0.01374527559	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00178910124	0.01374527559	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00179057054	0.01374978055	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00180931623	0.01386637874	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00181527194	0.01390517947	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00182074676	0.01394026026	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00182607214	0.01397416286	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00182962092	0.01399444333	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00183734742	0.01404664279	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00184025135	0.01406194024	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00184875195	0.01411063961	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00186793839	0.01422464767	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00187073527	0.01423898355	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00187360944	0.01425389339	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00187558036	0.01425495993	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00188161706	0.01427869171	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00188237039	0.01427869171	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00188742999	0.01431010086	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0018917077	0.01433206209	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00189216719	0.01433206209	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00190233449	0.01440206852	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00190540205	0.0144157565	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00190599388	0.0144157565	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00303525152	0.02057813321	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00304343823	0.02062465774	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00305816161	0.02070641337	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00308263821	0.02085400734	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00308561048	0.02085912544	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00308607365	0.02085912544	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00309047711	0.02087982651	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00310167473	0.02094602293	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0031038776	0.02094602293	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00310431008	0.02094602293	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00310735285	0.02095747332	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00311251073	0.02097849329	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00311316368	0.02097849329	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00311752287	0.02099315777	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00311803596	0.02099315777	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00312244894	0.02100787495	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00312291983	0.02100787495	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00312759058	0.02103021077	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00313000181	0.02103734063	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00315858883	0.0212203209	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00316945986	0.02127815969	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00317829868	0.02132513799	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00317993575	0.02132693341	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00318341571	0.02134108171	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00318793232	0.02136216441	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00321742312	0.02155050762	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00321891254	0.02155121451	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00322182736	0.02156146003	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00322346862	0.02156317734	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0032455447	0.02169358245	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00324574887	0.02169358245	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00325527167	0.02173857018	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00326195794	0.02177388386	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0032645077	0.02178156746	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00329692785	0.02197904853	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00330110733	0.02199749439	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00330904548	0.02204096036	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00331692296	0.02208398516	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00332213559	0.02210412978	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00332387131	0.02210412978	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00332459429	0.02210412978	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0033415698	0.02220062566	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00335252682	0.02225443317	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00336419893	0.02232239877	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00336733849	0.02233371475	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00337002133	0.02234199327	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00337204398	0.02234588975	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0033782668	0.02237760478	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00338201585	0.0223929136	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0033914436	0.02243625794	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00339802521	0.02247025336	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00340059499	0.02247770197	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00342082816	0.02259226334	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00343389661	0.02266188532	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00343579997	0.02266188532	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00343627212	0.02266188532	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00343719085	0.02266188532	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00344386857	0.02269630352	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00344547481	0.02269728392	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00345955222	0.02275152313	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00346940537	0.02280669052	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00347699918	0.02284451743	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00347954728	0.02284451743	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00347956048	0.02284451743	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00349053577	0.02290691678	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00349761313	0.02294369389	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00350488626	0.02298172366	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00350951239	0.02300237224	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00352576215	0.02308944238	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00353018186	0.02310866839	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0035337401	0.02312224144	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00354097107	0.02315982465	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00354791993	0.02318667619	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00354805428	0.02318667619	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00356003861	0.02325523542	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00357188215	0.02332281789	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00358305373	0.02338595797	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00358756743	0.02339580719	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00360519886	0.02350094675	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00361961638	0.02358505683	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00362321575	0.0235986361	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00362717427	0.02361454217	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00363069351	0.02362757626	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00364436002	0.02370660758	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00365029528	0.0237253958	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00367398426	0.02385944821	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00367875921	0.02388049906	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00369598669	0.02398175965	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00369954759	0.02398545152	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00371861465	0.02408901249	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00372744697	0.02413618783	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00372989607	0.02414200808	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00373431275	0.02414979005	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00373558196	0.02414979005	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00373575061	0.02414979005	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00374291698	0.02417782887	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00374319305	0.02417782887	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00374878861	0.02420393245	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00375854317	0.0242568557	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00376465905	0.0242719481	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00376984192	0.02428951109	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00377209224	0.02429092944	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00377318168	0.02429092944	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0037752638	0.02429429058	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00378133898	0.02430325711	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00378811887	0.02433678842	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00379242395	0.02435439922	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00381136863	0.02446597019	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00382189397	0.02452342598	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00383429051	0.02459283612	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00384379103	0.02464362196	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00385336836	0.02468999574	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00385419506	0.02468999574	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00387535335	0.02480845045	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00387587234	0.02480845045	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0038864142	0.02486570599	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00388955346	0.02487557124	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00389418293	0.02489495517	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00390286189	0.02494020034	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00393352953	0.0251258636	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00394187	0.02516881568	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00394944592	0.02520685299	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00395747098	0.02524772455	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00397456082	0.02534637007	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00399189242	0.02543623932	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00399351621	0.02543623932	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00399355327	0.02543623932	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00400774332	0.02551092522	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00400855545	0.02551092522	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00401551126	0.0255447536	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00402875407	0.02561853291	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0040331415	0.0256359643	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0040349362	0.02563690798	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00403814284	0.0256468183	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00406204038	0.02578807777	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00406965728	0.02579843643	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00407166437	0.02579843643	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00407234942	0.02579843643	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0040798657	0.02582754003	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00409361568	0.02590405407	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00410032603	0.02593597776	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00412642504	0.02605646218	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00412773982	0.02605646218	R_WEEK12vsWEEK0	Endoscopic_Remission
0.004131853	0.02607185849	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00414450444	0.02613954343	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00414607284	0.02613954343	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00414761522	0.02613954343	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00415746666	0.02619103089	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00416082199	0.02620156928	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00417012913	0.02624956387	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00417304639	0.0262573137	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00417936169	0.02628642954	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00419961811	0.02638770586	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00420054728	0.02638770586	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00421167015	0.02644691096	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00421496475	0.0264510422	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00421572508	0.0264510422	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0042177898	0.02645333893	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00422069379	0.02646089547	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00423621013	0.02654748503	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00424061665	0.02656440995	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00424256662	0.02656593884	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00425848471	0.02664418736	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00426878046	0.02669787876	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00428686479	0.02677871858	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00429041128	0.02678279073	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00429179825	0.02678279073	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00430034176	0.02680913618	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00430603893	0.02683391124	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0043134025	0.02685985467	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00431365161	0.02685985467	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00431997468	0.02687634548	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00432084771	0.02687634548	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0043214775	0.02687634548	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00433573108	0.02693272442	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00435082227	0.02700492433	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0043544519	0.02700835653	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00435484385	0.02700835653	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00436751754	0.02707617462	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00439007195	0.02720516929	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00440057196	0.02725939027	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00440913251	0.02729070771	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00441466502	0.02731409548	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00442774659	0.02737328213	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00443409221	0.02740163409	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0044476164	0.02747430791	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00445364503	0.02750063998	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00445682219	0.02750935074	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00447414295	0.02760345208	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0044756127	0.02760345208	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00448619735	0.02765777965	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00449039722	0.027672717	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00449800098	0.02769830013	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00449810576	0.02769830013	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00450257331	0.02770866512	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00451467293	0.02776737817	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00452278307	0.02780627746	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0045259983	0.02781506372	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00453868056	0.02788200091	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00454177885	0.02789003236	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00456579381	0.02800437457	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00456931555	0.02801494136	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00457161447	0.02801800559	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00457661692	0.02803762995	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00458069678	0.02805158903	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00461014386	0.02814962361	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00464754904	0.02824080849	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00464786439	0.02824080849	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00466109998	0.02830363371	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00466298755	0.02830363371	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00466365659	0.02830363371	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00467637556	0.02836976885	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00468223256	0.02839423972	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00468514894	0.0284008659	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00468989448	0.02841857071	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00471023029	0.02849744221	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00472148623	0.02855444858	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0047252589	0.02855536521	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00472530509	0.02855536521	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00473255467	0.02858808142	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00475136592	0.02868057772	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00475155015	0.02868057772	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00477533805	0.02879068507	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00478063139	0.02881144453	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0047829153	0.02881405799	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00480616833	0.02894294638	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00481431452	0.02896959818	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00481679323	0.02897008815	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0048181165	0.02897008815	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00482248591	0.02898516906	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00483844922	0.02905868482	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00484069708	0.02906097751	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00485953885	0.02915161729	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00487092502	0.02920866974	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00487765465	0.02923776593	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00487959536	0.02923814491	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00489058493	0.02929272273	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00490356883	0.02935919929	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00490545986	0.02935923381	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00491519325	0.02940618687	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00493675706 0.02952385471 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00495304173 0.029605479 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00495420781 0.029605479 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00497172359 0.0296987539 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00499031017 0.02979576768 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00499179078 0.02979576768 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00500165161 0.02984318792 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00502288959 0.02993549928 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00505785738 0.03013236917 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00508027559 0.03025435248 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00509269092 0.03031669563 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00509988238 0.03034515802 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00510136927 0.03034515802 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00510785885 0.03036196961 R_WEEK12vsWEEK0	Endoscopic_Remission
0.0051080948 0.03036196961 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00511204253 0.0303738414 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00513299642 0.03048670988 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00514690817 0.03055768241 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00514940929 0.03056088067 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00515746388 0.03059702285 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00516338921 0.03062051037 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00517677634 0.03068821391 R_WEEK12vsWEEK0	Endoscopic_Remission
0.0051929588 0.03077243053 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00523856272 0.03101906358 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00524331137 0.03103538119 R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00525722356 0.03108378243 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00525747659 0.03108378243 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00528161886 0.03121466815 R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00537777199 0.03162708244 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00537924662 0.03162708244 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00538061247 0.03162708244 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00538186402 0.03162708244 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00540791524 0.03175620817 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00541350351 0.03177704113 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00541573461 0.03177815943 R_WEEK12vsWEEK0	Endoscopic_Remission
0.00542198442 0.03179889263 R_WEEK12vsWEEK0	Endoscopic_Remission

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0.00543238847	0.03183988921	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00544653041	0.03191076674	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00545025476	0.03191961043	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0054521392	0.03191961043	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00546504066	0.03198311843	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00548509763	0.03208071069	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.005506505	0.03216534221	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00553285661	0.03228764606	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00553676573	0.03228764606	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0055378092	0.03228764606	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00554466991	0.03231554808	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00555264067	0.03234989645	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00555765459	0.03236699887	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00559478104	0.03257103746	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00559848128	0.03257814463	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00579802188	0.03345409218	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00580768169	0.03349021469	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00580858344	0.03349021469	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00582159957	0.03353724552	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00583264019	0.03357918878	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00586049414	0.0337270788	R_WEEK12vsWEEK0	Endoscopic_Remission

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0.00587664211	0.03376026426	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00588169392	0.03377419593	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0058924418	0.03382325852	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00589458188	0.03382325852	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00592026747	0.03394562787	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00592400228	0.03395454086	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00593075815	0.03398075668	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00595342769	0.03407303541	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00597567424	0.03417714297	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00598051752	0.03419038158	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00598731925	0.03421670557	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00601692344	0.03434807505	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00602528689	0.03437349542	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00603538991	0.03440304795	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00603972483	0.03441516092	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00607493596	0.0345879798	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0060817861	0.03459215157	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00608344018	0.03459215157	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00608411373	0.03459215157	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00609662641	0.03463498335	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00609831917	0.03463498335	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00610827396	0.03467887362	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00611169635	0.03468565864	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00611538342	0.03469394025	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00611978916	0.03470629154	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00613945024	0.03479245215	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00615023954	0.03484091684	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00615465361	0.03485324389	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00618428296	0.03498819286	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0061861906	0.03498819286	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00618801513	0.03498819286	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00618971754	0.03498819286	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.0062319904	0.03517607337	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00623811227	0.03519787045	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00624829832	0.03524257505	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00625932794	0.0352920036	R_WEEK12vsWEEK0	Endoscopic_Remission

0.0062701982	0.03534049822	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00630539397	0.03550032551	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0063099402	0.03550471794	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00632315087	0.03554323913	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00632369343	0.03554323913	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0063244279	0.03554323913	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0063267647	0.03554354497	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00635033413	0.03565023555	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00639478953	0.03586102175	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00641768557	0.03596351831	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00642275127	0.0359789588	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00649584814	0.0363025563	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00649683583	0.0363025563	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0065069125	0.0363354021	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0065073805	0.0363354021	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00657066675	0.03667562484	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00657412276	0.03668176776	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00665323138	0.03703029746	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00667295227	0.03711785349	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00667372952	0.03711785349	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00670232065	0.03725458388	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00673836645	0.03738389055	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00675115213	0.0374281567	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00679508018	0.03760177985	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00679793972	0.03760177985	R_WEEK12vsWEEK0	Endoscopic_Remission

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0.00679937148	0.03760177985	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00730592201	0.03964290016	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00736137073	0.0399298594	R_WEEK12vsWEEK0	Endoscopic_Remission

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0.00737055058	0.03995182184	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00738216023	0.03999637497	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00738390664	0.03999637497	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00740278035	0.04004959788	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00745297715	0.04020678824	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00745373388	0.04020678824	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00746690848	0.04026390779	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00747198072	0.04027618533	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0074743579	0.04027618533	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00748639175	0.04032707672	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00750516639	0.04041423105	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00753301593	0.04052216132	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00755488346	0.04059115459	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00755626772	0.04059115459	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00756172884	0.04060648387	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00760079208	0.04078812372	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00761601591	0.04085574086	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00764490577	0.04099659695	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00765695687	0.04104708755	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00771330396	0.04133492175	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00772873992	0.04138332644	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00772944558	0.04138332644	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00773030865	0.04138332644	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0077411083	0.04142690019	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00774601887	0.04143893913	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00777386674	0.04157363553	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00780540846	0.04172798691	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00780905438	0.04173070522	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0078131287	0.04173070522	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00781395598	0.04173070522	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00782374599	0.04176866516	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00782886971	0.04178169567	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00784836722	0.04185706256	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0078833617	0.0420293022	R_WEEK12vsWEEK0	Endoscopic_Remission
0.007886814	0.04203331775	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00790929032	0.04213868563	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00792223222	0.04218919126	R_WEEK12vsWEEK0	Endoscopic_Remission

0.00792482355	0.04218919126	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00792689743	0.04218919126	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00793503793	0.04221113413	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00793756532	0.04221113413	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00793915186	0.04221113413	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00796207643	0.04230413385	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00797188528	0.04234180404	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.0080676558	0.04276941916	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00807037569	0.04276941916	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00807360705	0.04276941916	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00807589779	0.04276941916	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00807711178	0.04276941916	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00814432236	0.04303750667	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00816186979	0.04311560321	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00819477434	0.04326007483	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00843088015	0.04410536265	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00844005693	0.04413599953	R_WEEK12vsWEEK0	Endoscopic_Remission

0.008455162	0.04420014699	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00847767117	0.04430294402	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00903710496	0.04623352024	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00921845834	0.04693005943	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00923505887	0.04698385228	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00925918189	0.04709119516	R_WEEK12vsWEEK0	Endoscopic_Remission
0.00926764167	0.04710427051	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00928045779	0.0471345909	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.0093013839	0.0471979314	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.00934890545	0.04739274235	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.0094467494	0.04774858298	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.01049521017 0.05123570782 R_WEEK12vsWEEK0	Endoscopic_Remission

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0.01060822438	0.05167403136	R_WEEK12vsWEEK0	Endoscopic_Remission
0.01061356431	0.0516838765	R_WEEK12vsWEEK0	Endoscopic_Remission
0.01061905501	0.05169236407	R_WEEK12vsWEEK0	Endoscopic_Remission
0.010621946	0.05169236407	R_WEEK12vsWEEK0	Endoscopic_Remission
0.01063240145	0.05172708148	R_WEEK12vsWEEK0	Endoscopic_Remission
0.01064404464	0.05175252622	R_WEEK12vsWEEK0	Endoscopic_Remission
0.01064613394	0.05175252622	R_WEEK12vsWEEK0	Endoscopic_Remission
0.01064768854	0.05175252622	R_WEEK12vsWEEK0	Endoscopic_Remission
0.01068694915	0.05189518527	R_WEEK12vsWEEK0	Endoscopic_Remission
0.01071203	0.05200076161	R_WEEK12vsWEEK0	Endoscopic_Remission
0.01072821588	0.05206310559	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0107349213	0.05207768013	R_WEEK12vsWEEK0	Endoscopic_Remission
0.01073790733	0.05207768013	R_WEEK12vsWEEK0	Endoscopic_Remission
0.01075168807	0.05211205673	R_WEEK12vsWEEK0	Endoscopic_Remission
0.01077167658	0.0521862607	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.01480050881	0.06559665189	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.01482927635	0.06570023344	R_WEEK12vsWEEK0	Endoscopic_Remission
0.01487324858	0.06583885733	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.0150833456	0.06650423019	R_WEEK12vsWEEK0	Endoscopic_Remission

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0.02026445299	0.08235342546	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02034802008	0.08267146274	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02041604014	0.08290456142	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02044065621	0.08296532266	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02044165819	0.08296532266	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02049110561	0.08310700592	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02049257707	0.08310700592	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02054549987	0.08329993999	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.02056060391	0.08330259012	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02056220102	0.08330259012	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02057683776	0.08333818106	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0205816891	0.08333818106	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.0206204321	0.08342997896	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02063713064	0.08347585338	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02064647076	0.083486407	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02065046168	0.083486407	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02069695901	0.08365267133	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02070709216	0.08367191131	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02071870327	0.08369711183	R_WEEK12vsWEEK0	Endoscopic_Remission
0.0208123939	0.08405378896	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02085924583	0.08422116549	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02088457368	0.08426691032	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02088680883	0.08426691032	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02093113292	0.08440189099	R_WEEK12vsWEEK0	Endoscopic_Remission
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0.02588635344 0.09742102034 R_WEEK12vsWEEK0	Endoscopic_Remission
0.02592649384 0.09754851135 R_WEEK12vsWEEK0	Endoscopic_Remission
0.0259891438 0.09776061266 R_WEEK12vsWEEK0	Endoscopic_Remission
0.026002108 0.09778575896 R_WEEK12vsWEEK0	Endoscopic_Remission
0.02607023405 0.09797401674 R_WEEK12vsWEEK0	Endoscopic_Remission
0.02607104125 0.09797401674 R_WEEK12vsWEEK0	Endoscopic_Remission
0.02608399832 0.09797793216 R_WEEK12vsWEEK0	Endoscopic_Remission

0.0260846662	0.09797793216	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02612554136	0.0980605099	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02615856968	0.09809729695	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02616128796	0.09809729695	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02616454545	0.09809729695	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02616527619	0.09809729695	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02616683822	0.09809729695	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02618032324	0.09810061931	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02620032759	0.09815196093	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02620748849	0.09815517513	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02623120364	0.09821599467	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02623634096	0.09821599467	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02624703419	0.09823241129	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02630002128	0.09839055771	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02630378683	0.09839055771	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02631456192	0.09839055771	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02643955366	0.09881045576	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02646959017	0.09889897497	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02649533129	0.09897140661	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02652599118	0.09906217283	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02654090172	0.09909409313	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02655027986	0.09910534714	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02656172992	0.09912432785	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02658043288	0.09917035966	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02659756235	0.09921050024	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02666098299	0.09942324906	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02666790011	0.09942523545	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02669192532	0.09949098922	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02675638002	0.09970737163	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02678677075	0.09977287272	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02679479958	0.09977891292	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02681605301	0.09983418443	R_WEEK12vsWEEK0	Endoscopic_Remission
0.02686457542	0.09999092565	R_WEEK12vsWEEK0	Endoscopic_Remission
7.2423276E-19	1.1278477E-14	R_WEEK2vsWEEK0	Endoscopic_Remission
1.9506305E-18	1.1863329E-14	R_WEEK2vsWEEK0	Endoscopic_Remission
2.2853649E-18	1.1863329E-14	R_WEEK2vsWEEK0	Endoscopic_Remission
5.3017484E-18	2.0641032E-14	R_WEEK2vsWEEK0	Endoscopic_Remission
4.1608928E-16	1.2959517E-12	R_WEEK2vsWEEK0	Endoscopic_Remission
9.0818258E-16	2.0249712E-12	R_WEEK2vsWEEK0	Endoscopic_Remission
9.4546747E-16	2.0249712E-12	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1702781E-15	2.0249712E-12	R_WEEK2vsWEEK0	Endoscopic_Remission
1.6678183E-15	2.4945917E-12	R_WEEK2vsWEEK0	Endoscopic_Remission
1.7620567E-15	2.4945917E-12	R_WEEK2vsWEEK0	Endoscopic_Remission
3.6160286E-15	4.5329066E-12	R_WEEK2vsWEEK0	Endoscopic_Remission
3.7839713E-15	4.5329066E-12	R_WEEK2vsWEEK0	Endoscopic_Remission
4.7728909E-15	5.3091593E-12	R_WEEK2vsWEEK0	Endoscopic_Remission

6.0433479E-15	6.2742038E-12	R_WEEK2vsWEEK0	Endoscopic_Remission
1.0108083E-14	9.8383238E-12	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1528518E-14	1.0560801E-11	R_WEEK2vsWEEK0	Endoscopic_Remission
2.5313355E-14	2.1900271E-11	R_WEEK2vsWEEK0	Endoscopic_Remission
3.6484555E-14	2.9903894E-11	R_WEEK2vsWEEK0	Endoscopic_Remission
4.7065479E-14	3.6647535E-11	R_WEEK2vsWEEK0	Endoscopic_Remission
6.0156133E-14	4.4610069E-11	R_WEEK2vsWEEK0	Endoscopic_Remission
9.2476868E-14	6.5461012E-11	R_WEEK2vsWEEK0	Endoscopic_Remission
9.8776148E-14	6.6880041E-11	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3489169E-13	8.7527846E-11	R_WEEK2vsWEEK0	Endoscopic_Remission
2.1788212E-13	1.3572313E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
2.4720449E-13	1.4729011E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
2.6389086E-13	1.4729011E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
2.6482522E-13	1.4729011E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
2.8212919E-13	1.5121121E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
3.1050301E-13	1.5598269E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
3.7051862E-13	1.7815279E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
3.7751506E-13	1.7815279E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
4.1236622E-13	1.8887586E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
5.9584979E-13	2.5775469E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
6.9438936E-13	2.9226285E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
8.0793629E-13	3.3110505E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
1.0411975E-12	4.1516941E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
1.0663826E-12	4.1516941E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1585293E-12	4.3006923E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
1.182724E-12	4.3006923E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1875025E-12	4.3006923E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
2.1069444E-12	7.1329229E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
2.2129507E-12	7.3324002E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
2.4666328E-12	7.8393618E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
2.8110457E-12	8.5836107E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
3.0929316E-12	9.2627353E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
3.2840563E-12	9.6495489E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
3.3476529E-12	9.6542591E-10	R_WEEK2vsWEEK0	Endoscopic_Remission
3.8166077E-12	1.0613577E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
3.9053125E-12	1.0669725E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
4.9504377E-12	1.3277512E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
5.0303293E-12	1.3277512E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
5.2361585E-12	1.3469781E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
5.2761614E-12	1.3469781E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
5.7661607E-12	1.4362693E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
6.0005889E-12	1.4601121E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
7.1334309E-12	1.7090603E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
7.6422939E-12	1.77632E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
7.8426378E-12	1.7960794E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
8.050665E-12	1.8170001E-09	R_WEEK2vsWEEK0	Endoscopic_Remission

9.9961815E-12	2.2238648E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
1.0193724E-11	2.2358713E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
1.0864759E-11	2.3177656E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1102371E-11	2.336449E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3609082E-11	2.7851938E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3618505E-11	2.7851938E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3771266E-11	2.7851938E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
1.4289303E-11	2.8529144E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
1.4777969E-11	2.9131305E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
2.2625328E-11	4.4043029E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
2.4531395E-11	4.7163879E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
2.6159284E-11	4.9680309E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
3.9951936E-11	7.4960421E-09	R_WEEK2vsWEEK0	Endoscopic_Remission
6.1448972E-11	1.1171239E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
6.169181E-11	1.1171239E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
6.7701423E-11	1.2118555E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
7.094561E-11	1.2554954E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
8.0038647E-11	1.3899423E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
8.0328007E-11	1.3899423E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
8.2429557E-11	1.4106324E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
9.4701421E-11	1.5689205E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
1.053344E-10	1.726708E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1937134E-10	1.936427E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3441141E-10	2.1579266E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
1.4603811E-10	2.2972237E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
1.4883374E-10	2.3177878E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
1.5984686E-10	2.4646486E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
1.8328011E-10	2.798256E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
1.9603897E-10	2.935495E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
2.0571481E-10	3.0510445E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
2.0801195E-10	3.0560095E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
2.4093999E-10	3.4749796E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
2.4099261E-10	3.4749796E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
2.8385867E-10	4.0555332E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
2.9257891E-10	4.1421194E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
3.2341085E-10	4.5373668E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
3.3334793E-10	4.6350243E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
3.4356202E-10	4.7347711E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
3.5170267E-10	4.7626658E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
4.7665002E-10	6.3990266E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
5.6499728E-10	7.5202587E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
5.6999526E-10	7.5224883E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
6.3580021E-10	8.2553999E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
6.3613176E-10	8.2553999E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
6.7068028E-10	8.5610688E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
6.8856412E-10	8.7178935E-08	R_WEEK2vsWEEK0	Endoscopic_Remission

7.8419129E-10	9.7433213E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
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7.9458152E-10	9.7433213E-08	R_WEEK2vsWEEK0	Endoscopic_Remission
8.3317379E-10	1.0136731E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
8.5473618E-10	1.0318455E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
8.6897287E-10	1.0409627E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
9.2193958E-10	1.0959821E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
9.3723721E-10	1.1057269E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
9.7903602E-10	1.1463555E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
9.9400917E-10	1.1552018E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.0112588E-09	1.1665432E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1213857E-09	1.2840691E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1484329E-09	1.2959816E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3396736E-09	1.4901955E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.5112906E-09	1.6691723E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.6302346E-09	1.7878622E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.752132E-09	1.8948577E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.7809528E-09	1.9127433E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.8247583E-09	1.9463672E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.8466645E-09	1.9551114E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.8580652E-09	1.9551114E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.9158867E-09	2.002423E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.9590534E-09	2.0338892E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
2.1218157E-09	2.1882805E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
2.1728158E-09	2.2261356E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
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2.3416038E-09	2.3453203E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
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2.6946078E-09	2.6391904E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
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4.1995486E-09	3.7925213E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
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4.2474642E-09	3.8014804E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
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4.7429767E-09	4.1967259E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
4.8823866E-09	4.2844291E-07	R_WEEK2vsWEEK0	Endoscopic_Remission

4.8971192E-09	4.2844291E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
4.9258733E-09	4.2855098E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
5.1727302E-09	4.4752738E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
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5.5592817E-09	4.7568513E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
6.1438044E-09	5.2282768E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
6.3078919E-09	5.3387391E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
6.4956003E-09	5.467891E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
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7.7220896E-09	6.3292685E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
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9.0935866E-09	7.2252257E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
9.494081E-09	7.5051433E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.0173157E-08	8.0013421E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.0621731E-08	8.3121715E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
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1.0889622E-08	8.4370192E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
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1.1079648E-08	8.4996727E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.2278973E-08	9.3278269E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.2646903E-08	9.5606904E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.2995177E-08	9.7765164E-07	R_WEEK2vsWEEK0	Endoscopic_Remission
1.4117491E-08	1.053771E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.4142307E-08	1.053771E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
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1.7682029E-08	1.2867394E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.7955192E-08	1.3005405E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.8096498E-08	1.3047072E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.8336692E-08	1.3159322E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.9534673E-08	1.3954746E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.974067E-08	1.3999553E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.9777189E-08	1.3999553E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
2.0024441E-08	1.4110435E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
2.0209393E-08	1.4176616E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
2.0826677E-08	1.4544118E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
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2.2858529E-08	1.5681757E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
2.3282221E-08	1.590237E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
2.4862741E-08	1.6834238E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
2.6201537E-08	1.7587782E-06	R_WEEK2vsWEEK0	Endoscopic_Remission

2.7663857E-08	1.8489667E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
2.8134988E-08	1.8724195E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
2.9109221E-08	1.9290124E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
2.9570752E-08	1.943614E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
2.9579176E-08	1.943614E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
3.1757414E-08	2.0779757E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
3.1983023E-08	2.0839816E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
3.3593852E-08	2.1798211E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
3.3915024E-08	2.1915297E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
3.4791002E-08	2.2296308E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
3.5047446E-08	2.2368602E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
3.6907457E-08	2.3380954E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
3.6933889E-08	2.3380954E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
3.8020907E-08	2.3962515E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
3.8160301E-08	2.3962515E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
3.8526795E-08	2.4095493E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
4.0606881E-08	2.5294838E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
4.3684593E-08	2.7103592E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
4.39423E-08	2.7155295E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
4.9337853E-08	3.0249543E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
5.1305003E-08	3.1332267E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
5.4180018E-08	3.2830561E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
5.4969956E-08	3.3180121E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
5.8038812E-08	3.4897236E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
6.2517601E-08	3.7302169E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
6.490802E-08	3.8580633E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
6.6244996E-08	3.8962902E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
6.6301734E-08	3.8962902E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
6.7009665E-08	3.9230884E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
6.8017076E-08	3.9523505E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
7.109062E-08	4.100349E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
7.4576979E-08	4.285562E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
7.5385868E-08	4.3161181E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
7.6241922E-08	4.3491409E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
8.0299381E-08	4.5638768E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
8.5338172E-08	4.8326231E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
8.7702509E-08	4.9485188E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
9.2571941E-08	5.2044145E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
9.3770091E-08	5.2528116E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
9.4810893E-08	5.2747798E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
9.483968E-08	5.2747798E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
9.8488419E-08	5.4582212E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
9.8903807E-08	5.4600424E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
9.9575743E-08	5.4600424E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
9.9636851E-08	5.4600424E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
9.992372E-08	5.4600424E-06	R_WEEK2vsWEEK0	Endoscopic_Remission

1.0029591E-07	5.4612174E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
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1.0463486E-07	5.6479757E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
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1.0735242E-07	5.7648249E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.150379E-07	6.1563066E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1743757E-07	6.2632028E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.2171463E-07	6.4549072E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.2186109E-07	6.4549072E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.2993041E-07	6.8128155E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3250975E-07	6.9063707E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3260161E-07	6.9063707E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3396393E-07	6.9540676E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3735054E-07	7.1061793E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3868985E-07	7.1517119E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.4415513E-07	7.4090028E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.478621E-07	7.574528E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
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1.6241026E-07	8.2654083E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.6375749E-07	8.3068254E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.6668981E-07	8.4260192E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.6718936E-07	8.4260192E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.7823343E-07	8.9536426E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.7972712E-07	8.9996476E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.8487098E-07	9.2275507E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.8680227E-07	9.2297911E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.8728658E-07	9.2297911E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.9188867E-07	9.4267579E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
1.9703222E-07	9.6187546E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
2.0425304E-07	9.9091358E-06	R_WEEK2vsWEEK0	Endoscopic_Remission
2.0789126E-07	1.0054319E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
2.1730938E-07	1.0477272E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
2.1872179E-07	1.0495389E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
2.1903302E-07	1.0495389E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
2.1993837E-07	1.0506442E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
2.21237E-07	1.0536158E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
2.265277E-07	1.0755231E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
2.4434388E-07	1.1495973E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
2.4743977E-07	1.1545045E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
2.4773789E-07	1.1545045E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
2.4835229E-07	1.1545045E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
2.5197123E-07	1.1643763E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
2.5786611E-07	1.1880914E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
2.657109E-07	1.2170341E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
2.6689574E-07	1.2188761E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
2.76463E-07	1.2537269E-05	R_WEEK2vsWEEK0	Endoscopic_Remission

2.7694218E-07	1.2537269E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
2.9497367E-07	1.3314855E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
3.0696805E-07	1.3776408E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
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3.428466E-07	1.5125071E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
3.6375654E-07	1.5957129E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
3.8464978E-07	1.6826267E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
3.9145723E-07	1.702839E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
3.9338813E-07	1.7064717E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
4.0383835E-07	1.7420982E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
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4.1469954E-07	1.7790953E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
4.1680336E-07	1.7832085E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
4.2029334E-07	1.7932132E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
4.298452E-07	1.820695E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
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4.375361E-07	1.8465446E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
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4.5273454E-07	1.890197E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
4.5429191E-07	1.8916278E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
4.6704656E-07	1.9292616E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
4.8170125E-07	1.9792964E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
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5.2571991E-07	2.1376074E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
5.2901946E-07	2.1454219E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
5.4027473E-07	2.1797146E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
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6.6394207E-07	2.6242563E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
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7.0499851E-07	2.7516145E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
7.1846433E-07	2.7883824E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
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7.3503385E-07	2.8403678E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
7.4572412E-07	2.874545E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
7.5922409E-07	2.9121667E-05	R_WEEK2vsWEEK0	Endoscopic_Remission

7.6381009E-07	2.9225589E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
7.7621477E-07	2.9627433E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
7.8020791E-07	2.9707036E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
7.9255639E-07	3.0103611E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
8.167702E-07	3.0872724E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
8.2483835E-07	3.1102198E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
8.6367115E-07	3.240952E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
8.9377038E-07	3.3330833E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
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8.9969563E-07	3.3439045E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
9.0409039E-07	3.3492222E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
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1.1265692E-06	4.0705482E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1387504E-06	4.0872509E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
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1.2637044E-06	4.4625098E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
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1.2990107E-06	4.5561923E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
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2.3815083E-06	7.4472348E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
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3.2589987E-06	9.7226795E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
3.2706566E-06	9.7388023E-05	R_WEEK2vsWEEK0	Endoscopic_Remission
3.4031154E-06	0.00010113877	R_WEEK2vsWEEK0	Endoscopic_Remission
3.4412655E-06	0.00010207777	R_WEEK2vsWEEK0	Endoscopic_Remission
3.5309764E-06	0.00010453973	R_WEEK2vsWEEK0	Endoscopic_Remission
3.5763676E-06	0.00010548253	R_WEEK2vsWEEK0	Endoscopic_Remission
3.598901E-06	0.00010590331	R_WEEK2vsWEEK0	Endoscopic_Remission
3.6042353E-06	0.00010590331	R_WEEK2vsWEEK0	Endoscopic_Remission
3.6859069E-06	0.00010809911	R_WEEK2vsWEEK0	Endoscopic_Remission
3.7487361E-06	0.00010952921	R_WEEK2vsWEEK0	Endoscopic_Remission
3.7960774E-06	0.00011070471	R_WEEK2vsWEEK0	Endoscopic_Remission
3.8080353E-06	0.00011084586	R_WEEK2vsWEEK0	Endoscopic_Remission
3.9274408E-06	0.00011389578	R_WEEK2vsWEEK0	Endoscopic_Remission
3.9459231E-06	0.00011400716	R_WEEK2vsWEEK0	Endoscopic_Remission
4.1718502E-06	0.00012008914	R_WEEK2vsWEEK0	Endoscopic_Remission
4.2747573E-06	0.00012259815	R_WEEK2vsWEEK0	Endoscopic_Remission
4.3367961E-06	0.00012404142	R_WEEK2vsWEEK0	Endoscopic_Remission
4.3410115E-06	0.00012404142	R_WEEK2vsWEEK0	Endoscopic_Remission
4.3583643E-06	0.00012422398	R_WEEK2vsWEEK0	Endoscopic_Remission
4.45738E-06	0.00012658261	R_WEEK2vsWEEK0	Endoscopic_Remission
4.4684509E-06	0.00012658261	R_WEEK2vsWEEK0	Endoscopic_Remission
4.5826424E-06	0.00012905152	R_WEEK2vsWEEK0	Endoscopic_Remission
4.5957537E-06	0.00012918713	R_WEEK2vsWEEK0	Endoscopic_Remission
4.7710467E-06	0.00013363221	R_WEEK2vsWEEK0	Endoscopic_Remission
4.7987104E-06	0.00013416574	R_WEEK2vsWEEK0	Endoscopic_Remission
4.8142486E-06	0.00013435895	R_WEEK2vsWEEK0	Endoscopic_Remission
4.8619327E-06	0.00013535714	R_WEEK2vsWEEK0	Endoscopic_Remission
4.8673985E-06	0.00013535714	R_WEEK2vsWEEK0	Endoscopic_Remission
4.8812394E-06	0.00013550007	R_WEEK2vsWEEK0	Endoscopic_Remission
4.9095437E-06	0.00013604328	R_WEEK2vsWEEK0	Endoscopic_Remission
5.0080145E-06	0.0001382798	R_WEEK2vsWEEK0	Endoscopic_Remission
5.1029392E-06	0.00014040295	R_WEEK2vsWEEK0	Endoscopic_Remission
5.1773392E-06	0.00014194842	R_WEEK2vsWEEK0	Endoscopic_Remission
5.2199378E-06	0.00014286484	R_WEEK2vsWEEK0	Endoscopic_Remission
5.3312154E-06	0.00014565442	R_WEEK2vsWEEK0	Endoscopic_Remission
5.4134271E-06	0.00014764151	R_WEEK2vsWEEK0	Endoscopic_Remission
5.6705133E-06	0.0001543827	R_WEEK2vsWEEK0	Endoscopic_Remission
5.720743E-06	0.00015547841	R_WEEK2vsWEEK0	Endoscopic_Remission
5.8978248E-06	0.00015973361	R_WEEK2vsWEEK0	Endoscopic_Remission
5.9714985E-06	0.00016144817	R_WEEK2vsWEEK0	Endoscopic_Remission
6.0510385E-06	0.00016331512	R_WEEK2vsWEEK0	Endoscopic_Remission
6.0863821E-06	0.00016398482	R_WEEK2vsWEEK0	Endoscopic_Remission
6.1709554E-06	0.00016597351	R_WEEK2vsWEEK0	Endoscopic_Remission
6.3141344E-06	0.00016924271	R_WEEK2vsWEEK0	Endoscopic_Remission
6.3617947E-06	0.0001702272	R_WEEK2vsWEEK0	Endoscopic_Remission
6.4285114E-06	0.0001714233	R_WEEK2vsWEEK0	Endoscopic_Remission

6.4578111E-06	0.00017191024	R_WEEK2vsWEEK0	Endoscopic_Remission
6.5579461E-06	0.00017427798	R_WEEK2vsWEEK0	Endoscopic_Remission
6.6795604E-06	0.00017720749	R_WEEK2vsWEEK0	Endoscopic_Remission
6.7788523E-06	0.00017953583	R_WEEK2vsWEEK0	Endoscopic_Remission
6.8992546E-06	0.00018241442	R_WEEK2vsWEEK0	Endoscopic_Remission
7.0830453E-06	0.00018664004	R_WEEK2vsWEEK0	Endoscopic_Remission
7.1718517E-06	0.00018834274	R_WEEK2vsWEEK0	Endoscopic_Remission
7.2754181E-06	0.00019042031	R_WEEK2vsWEEK0	Endoscopic_Remission
7.3382812E-06	0.00019161946	R_WEEK2vsWEEK0	Endoscopic_Remission
7.3898562E-06	0.0001924452	R_WEEK2vsWEEK0	Endoscopic_Remission
7.4373511E-06	0.00019335871	R_WEEK2vsWEEK0	Endoscopic_Remission
7.459294E-06	0.00019360598	R_WEEK2vsWEEK0	Endoscopic_Remission
7.5410888E-06	0.00019540329	R_WEEK2vsWEEK0	Endoscopic_Remission
7.8815629E-06	0.00020338219	R_WEEK2vsWEEK0	Endoscopic_Remission
7.9081617E-06	0.00020338219	R_WEEK2vsWEEK0	Endoscopic_Remission
7.9172988E-06	0.00020338219	R_WEEK2vsWEEK0	Endoscopic_Remission
8.0161984E-06	0.00020532279	R_WEEK2vsWEEK0	Endoscopic_Remission
8.0623644E-06	0.00020616618	R_WEEK2vsWEEK0	Endoscopic_Remission
8.2049543E-06	0.00020946845	R_WEEK2vsWEEK0	Endoscopic_Remission
8.3447676E-06	0.00021234161	R_WEEK2vsWEEK0	Endoscopic_Remission
8.4750535E-06	0.00021495441	R_WEEK2vsWEEK0	Endoscopic_Remission
8.5360638E-06	0.00021614979	R_WEEK2vsWEEK0	Endoscopic_Remission
8.5784297E-06	0.00021686994	R_WEEK2vsWEEK0	Endoscopic_Remission
8.8184272E-06	0.0002220806	R_WEEK2vsWEEK0	Endoscopic_Remission
8.8273223E-06	0.0002220806	R_WEEK2vsWEEK0	Endoscopic_Remission
9.1707015E-06	0.00022999603	R_WEEK2vsWEEK0	Endoscopic_Remission
9.1714848E-06	0.00022999603	R_WEEK2vsWEEK0	Endoscopic_Remission
9.2683715E-06	0.00023205201	R_WEEK2vsWEEK0	Endoscopic_Remission
9.3570467E-06	0.00023389613	R_WEEK2vsWEEK0	Endoscopic_Remission
9.3978156E-06	0.00023453875	R_WEEK2vsWEEK0	Endoscopic_Remission
9.5716857E-06	0.00023811479	R_WEEK2vsWEEK0	Endoscopic_Remission
9.811272E-06	0.00024368571	R_WEEK2vsWEEK0	Endoscopic_Remission
9.924687E-06	0.00024577286	R_WEEK2vsWEEK0	Endoscopic_Remission
1.0142493E-05	0.00025062264	R_WEEK2vsWEEK0	Endoscopic_Remission
1.015494E-05	0.00025062264	R_WEEK2vsWEEK0	Endoscopic_Remission
1.035684E-05	0.00025479564	R_WEEK2vsWEEK0	Endoscopic_Remission
1.037311E-05	0.00025479564	R_WEEK2vsWEEK0	Endoscopic_Remission
1.0463292E-05	0.00025660605	R_WEEK2vsWEEK0	Endoscopic_Remission
1.0569866E-05	0.00025881215	R_WEEK2vsWEEK0	Endoscopic_Remission
1.0664998E-05	0.00026073157	R_WEEK2vsWEEK0	Endoscopic_Remission
1.0694667E-05	0.0002610471	R_WEEK2vsWEEK0	Endoscopic_Remission
1.0782125E-05	0.00026277002	R_WEEK2vsWEEK0	Endoscopic_Remission
1.0997339E-05	0.00026717873	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1085562E-05	0.00026890257	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1110468E-05	0.0002690876	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1281494E-05	0.00027236463	R_WEEK2vsWEEK0	Endoscopic_Remission

1.1298244E-05	0.00027236463	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1374608E-05	0.00027378172	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1426599E-05	0.00027385303	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1430326E-05	0.00027385303	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1709149E-05	0.00028010226	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1839469E-05	0.00028278535	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1887528E-05	0.0002833669	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1914342E-05	0.0002833669	R_WEEK2vsWEEK0	Endoscopic_Remission
1.1918405E-05	0.0002833669	R_WEEK2vsWEEK0	Endoscopic_Remission
1.2007937E-05	0.00028506038	R_WEEK2vsWEEK0	Endoscopic_Remission
1.2131489E-05	0.00028711806	R_WEEK2vsWEEK0	Endoscopic_Remission
1.2373332E-05	0.00029239742	R_WEEK2vsWEEK0	Endoscopic_Remission
1.2565472E-05	0.00029648802	R_WEEK2vsWEEK0	Endoscopic_Remission
1.2699405E-05	0.0002991949	R_WEEK2vsWEEK0	Endoscopic_Remission
1.2754181E-05	0.00029962618	R_WEEK2vsWEEK0	Endoscopic_Remission
1.275619E-05	0.00029962618	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3016829E-05	0.00030511495	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3029053E-05	0.00030511495	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3116196E-05	0.00030669447	R_WEEK2vsWEEK0	Endoscopic_Remission
1.314305E-05	0.00030686165	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3167794E-05	0.00030697913	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3224419E-05	0.00030783837	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3356637E-05	0.00030952814	R_WEEK2vsWEEK0	Endoscopic_Remission
1.344335E-05	0.00031098775	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3459561E-05	0.00031098775	R_WEEK2vsWEEK0	Endoscopic_Remission
1.351687E-05	0.00031182012	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3535632E-05	0.00031182012	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3725827E-05	0.00031573456	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3778309E-05	0.00031639246	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3815377E-05	0.00031639246	R_WEEK2vsWEEK0	Endoscopic_Remission
1.3936821E-05	0.00031870501	R_WEEK2vsWEEK0	Endoscopic_Remission
1.4256634E-05	0.00032424773	R_WEEK2vsWEEK0	Endoscopic_Remission
1.4262486E-05	0.00032424773	R_WEEK2vsWEEK0	Endoscopic_Remission
1.4567052E-05	0.00033005063	R_WEEK2vsWEEK0	Endoscopic_Remission
1.4581316E-05	0.00033005063	R_WEEK2vsWEEK0	Endoscopic_Remission
1.4747109E-05	0.00033331891	R_WEEK2vsWEEK0	Endoscopic_Remission
1.4838399E-05	0.00033489621	R_WEEK2vsWEEK0	Endoscopic_Remission
1.4885631E-05	0.00033547602	R_WEEK2vsWEEK0	Endoscopic_Remission
1.4934499E-05	0.00033609096	R_WEEK2vsWEEK0	Endoscopic_Remission
1.5343025E-05	0.00034428952	R_WEEK2vsWEEK0	Endoscopic_Remission
1.5641017E-05	0.00035020109	R_WEEK2vsWEEK0	Endoscopic_Remission
1.5651445E-05	0.00035020109	R_WEEK2vsWEEK0	Endoscopic_Remission
1.5722413E-05	0.00035128426	R_WEEK2vsWEEK0	Endoscopic_Remission
1.5776714E-05	0.00035199249	R_WEEK2vsWEEK0	Endoscopic_Remission
1.5889091E-05	0.00035399258	R_WEEK2vsWEEK0	Endoscopic_Remission
1.6038878E-05	0.00035681921	R_WEEK2vsWEEK0	Endoscopic_Remission

1.6163281E-05	0.00035907385	R_WEEK2vsWEEK0	Endoscopic_Remission
1.6539261E-05	0.00036638109	R_WEEK2vsWEEK0	Endoscopic_Remission
1.6879549E-05	0.00037338809	R_WEEK2vsWEEK0	Endoscopic_Remission
1.7002905E-05	0.00037558332	R_WEEK2vsWEEK0	Endoscopic_Remission
1.7196751E-05	0.00037879067	R_WEEK2vsWEEK0	Endoscopic_Remission
1.7308801E-05	0.00038072029	R_WEEK2vsWEEK0	Endoscopic_Remission
1.7484236E-05	0.00038349579	R_WEEK2vsWEEK0	Endoscopic_Remission
1.7704791E-05	0.00038724257	R_WEEK2vsWEEK0	Endoscopic_Remission
1.7827434E-05	0.00038883281	R_WEEK2vsWEEK0	Endoscopic_Remission
1.8229992E-05	0.00039705688	R_WEEK2vsWEEK0	Endoscopic_Remission
1.8282671E-05	0.00039709349	R_WEEK2vsWEEK0	Endoscopic_Remission
1.8515991E-05	0.00040160101	R_WEEK2vsWEEK0	Endoscopic_Remission
1.8707368E-05	0.00040518754	R_WEEK2vsWEEK0	Endoscopic_Remission
1.9016172E-05	0.00041130394	R_WEEK2vsWEEK0	Endoscopic_Remission
1.9120173E-05	0.00041297982	R_WEEK2vsWEEK0	Endoscopic_Remission
1.9405538E-05	0.00041851361	R_WEEK2vsWEEK0	Endoscopic_Remission
1.9439873E-05	0.00041851361	R_WEEK2vsWEEK0	Endoscopic_Remission
1.9456999E-05	0.00041851361	R_WEEK2vsWEEK0	Endoscopic_Remission
1.9530821E-05	0.00041952203	R_WEEK2vsWEEK0	Endoscopic_Remission
1.9579647E-05	0.00041999152	R_WEEK2vsWEEK0	Endoscopic_Remission
2.0096185E-05	0.00042929752	R_WEEK2vsWEEK0	Endoscopic_Remission
2.0342108E-05	0.00043395568	R_WEEK2vsWEEK0	Endoscopic_Remission
2.0621638E-05	0.00043931705	R_WEEK2vsWEEK0	Endoscopic_Remission
2.0837449E-05	0.00044330818	R_WEEK2vsWEEK0	Endoscopic_Remission
2.1190087E-05	0.00044844575	R_WEEK2vsWEEK0	Endoscopic_Remission
2.1560163E-05	0.0004555718	R_WEEK2vsWEEK0	Endoscopic_Remission
2.190777E-05	0.00046215906	R_WEEK2vsWEEK0	Endoscopic_Remission
2.1931262E-05	0.00046215906	R_WEEK2vsWEEK0	Endoscopic_Remission
2.2601206E-05	0.00047499133	R_WEEK2vsWEEK0	Endoscopic_Remission
2.2656079E-05	0.00047550286	R_WEEK2vsWEEK0	Endoscopic_Remission
2.2722155E-05	0.00047624781	R_WEEK2vsWEEK0	Endoscopic_Remission
2.3012927E-05	0.00048169397	R_WEEK2vsWEEK0	Endoscopic_Remission
2.3367901E-05	0.00048846754	R_WEEK2vsWEEK0	Endoscopic_Remission
2.3474945E-05	0.00049004734	R_WEEK2vsWEEK0	Endoscopic_Remission
2.3891002E-05	0.00049739917	R_WEEK2vsWEEK0	Endoscopic_Remission
2.3985282E-05	0.00049869533	R_WEEK2vsWEEK0	Endoscopic_Remission
2.4261004E-05	0.00050375549	R_WEEK2vsWEEK0	Endoscopic_Remission
2.4346998E-05	0.00050486792	R_WEEK2vsWEEK0	Endoscopic_Remission
2.4709166E-05	0.00051101705	R_WEEK2vsWEEK0	Endoscopic_Remission
2.4821607E-05	0.00051266166	R_WEEK2vsWEEK0	Endoscopic_Remission
2.4865557E-05	0.00051288916	R_WEEK2vsWEEK0	Endoscopic_Remission
2.4974205E-05	0.00051444881	R_WEEK2vsWEEK0	Endoscopic_Remission
2.5032457E-05	0.00051496758	R_WEEK2vsWEEK0	Endoscopic_Remission
2.507011E-05	0.00051506177	R_WEEK2vsWEEK0	Endoscopic_Remission
2.5638072E-05	0.00052508522	R_WEEK2vsWEEK0	Endoscopic_Remission
2.5653962E-05	0.00052508522	R_WEEK2vsWEEK0	Endoscopic_Remission

2.5659144E-05	0.00052508522	R_WEEK2vsWEEK0	Endoscopic_Remission
2.5880883E-05	0.00052892781	R_WEEK2vsWEEK0	Endoscopic_Remission
2.6004448E-05	0.00053006188	R_WEEK2vsWEEK0	Endoscopic_Remission
2.6059604E-05	0.00053049177	R_WEEK2vsWEEK0	Endoscopic_Remission
2.6156025E-05	0.00053106621	R_WEEK2vsWEEK0	Endoscopic_Remission
2.6734796E-05	0.00054154732	R_WEEK2vsWEEK0	Endoscopic_Remission
2.7355608E-05	0.00055254071	R_WEEK2vsWEEK0	Endoscopic_Remission
2.7714055E-05	0.00055905568	R_WEEK2vsWEEK0	Endoscopic_Remission
2.800228E-05	0.00056341022	R_WEEK2vsWEEK0	Endoscopic_Remission
2.8636121E-05	0.00057541976	R_WEEK2vsWEEK0	Endoscopic_Remission
2.8731643E-05	0.00057659521	R_WEEK2vsWEEK0	Endoscopic_Remission
2.9475171E-05	0.00059075526	R_WEEK2vsWEEK0	Endoscopic_Remission
2.9881885E-05	0.00059813701	R_WEEK2vsWEEK0	Endoscopic_Remission
3.0131769E-05	0.00060236462	R_WEEK2vsWEEK0	Endoscopic_Remission
3.0739922E-05	0.00061373437	R_WEEK2vsWEEK0	Endoscopic_Remission
3.1544504E-05	0.00062899176	R_WEEK2vsWEEK0	Endoscopic_Remission
3.1607666E-05	0.00062944525	R_WEEK2vsWEEK0	Endoscopic_Remission
3.1801428E-05	0.00063249506	R_WEEK2vsWEEK0	Endoscopic_Remission
3.1989181E-05	0.00063541774	R_WEEK2vsWEEK0	Endoscopic_Remission
3.2553648E-05	0.00064580632	R_WEEK2vsWEEK0	Endoscopic_Remission
3.2696142E-05	0.00064780791	R_WEEK2vsWEEK0	Endoscopic_Remission
3.2941165E-05	0.00065183324	R_WEEK2vsWEEK0	Endoscopic_Remission
3.3087529E-05	0.00065355578	R_WEEK2vsWEEK0	Endoscopic_Remission
3.311215E-05	0.00065355578	R_WEEK2vsWEEK0	Endoscopic_Remission
3.3180055E-05	0.00065406709	R_WEEK2vsWEEK0	Endoscopic_Remission
3.3526956E-05	0.00066006989	R_WEEK2vsWEEK0	Endoscopic_Remission
3.3754741E-05	0.00066371539	R_WEEK2vsWEEK0	Endoscopic_Remission
3.3842742E-05	0.00066460658	R_WEEK2vsWEEK0	Endoscopic_Remission
3.408487E-05	0.0006685185	R_WEEK2vsWEEK0	Endoscopic_Remission
3.4450631E-05	0.00067419666	R_WEEK2vsWEEK0	Endoscopic_Remission
3.4460961E-05	0.00067419666	R_WEEK2vsWEEK0	Endoscopic_Remission
3.4974022E-05	0.00068337571	R_WEEK2vsWEEK0	Endoscopic_Remission
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3.5376952E-05	0.00068865659	R_WEEK2vsWEEK0	Endoscopic_Remission
3.5455226E-05	0.00068931864	R_WEEK2vsWEEK0	Endoscopic_Remission
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3.5592472E-05	0.00069026347	R_WEEK2vsWEEK0	Endoscopic_Remission
3.6033026E-05	0.00069740217	R_WEEK2vsWEEK0	Endoscopic_Remission
3.6050135E-05	0.00069740217	R_WEEK2vsWEEK0	Endoscopic_Remission
3.6906732E-05	0.00071308751	R_WEEK2vsWEEK0	Endoscopic_Remission
3.7257658E-05	0.00071897585	R_WEEK2vsWEEK0	Endoscopic_Remission
3.7398322E-05	0.00072079712	R_WEEK2vsWEEK0	Endoscopic_Remission
3.8611506E-05	0.00074234195	R_WEEK2vsWEEK0	Endoscopic_Remission
3.9605521E-05	0.0007605139	R_WEEK2vsWEEK0	Endoscopic_Remission
3.9767326E-05	0.00076235884	R_WEEK2vsWEEK0	Endoscopic_Remission
3.9799508E-05	0.00076235884	R_WEEK2vsWEEK0	Endoscopic_Remission

3.9900273E-05	0.00076335007	R_WEEK2vsWEEK0	Endoscopic_Remission
3.9967153E-05	0.00076369139	R_WEEK2vsWEEK0	Endoscopic_Remission
4.043196E-05	0.00077068165	R_WEEK2vsWEEK0	Endoscopic_Remission
4.0625283E-05	0.00077341997	R_WEEK2vsWEEK0	Endoscopic_Remission
4.1262771E-05	0.00078459723	R_WEEK2vsWEEK0	Endoscopic_Remission
4.358399E-05	0.00082470654	R_WEEK2vsWEEK0	Endoscopic_Remission
4.3694418E-05	0.00082579269	R_WEEK2vsWEEK0	Endoscopic_Remission
4.3958099E-05	0.00082976906	R_WEEK2vsWEEK0	Endoscopic_Remission
4.414389E-05	0.00083226731	R_WEEK2vsWEEK0	Endoscopic_Remission
4.6558472E-05	0.00087567039	R_WEEK2vsWEEK0	Endoscopic_Remission
4.6925157E-05	0.00088150238	R_WEEK2vsWEEK0	Endoscopic_Remission
4.7317846E-05	0.00088780822	R_WEEK2vsWEEK0	Endoscopic_Remission
4.775883E-05	0.00089500392	R_WEEK2vsWEEK0	Endoscopic_Remission
4.798022E-05	0.00089807208	R_WEEK2vsWEEK0	Endoscopic_Remission
4.8296982E-05	0.00090291585	R_WEEK2vsWEEK0	Endoscopic_Remission
4.8756644E-05	0.00091041633	R_WEEK2vsWEEK0	Endoscopic_Remission
4.911386E-05	0.00091489251	R_WEEK2vsWEEK0	Endoscopic_Remission
4.9374642E-05	0.0009186515	R_WEEK2vsWEEK0	Endoscopic_Remission
4.9487086E-05	0.00091964487	R_WEEK2vsWEEK0	Endoscopic_Remission
5.1425405E-05	0.00095407552	R_WEEK2vsWEEK0	Endoscopic_Remission
5.1462367E-05	0.00095407552	R_WEEK2vsWEEK0	Endoscopic_Remission
5.1715928E-05	0.00095763631	R_WEEK2vsWEEK0	Endoscopic_Remission
5.2085799E-05	0.00096267052	R_WEEK2vsWEEK0	Endoscopic_Remission
5.2111427E-05	0.00096267052	R_WEEK2vsWEEK0	Endoscopic_Remission
5.2336752E-05	0.00096568748	R_WEEK2vsWEEK0	Endoscopic_Remission
5.2793693E-05	0.0009729659	R_WEEK2vsWEEK0	Endoscopic_Remission
5.4325727E-05	0.00099531124	R_WEEK2vsWEEK0	Endoscopic_Remission
5.4952584E-05	0.00100443262	R_WEEK2vsWEEK0	Endoscopic_Remission
5.5331904E-05	0.00101018024	R_WEEK2vsWEEK0	Endoscopic_Remission
5.5474976E-05	0.00101160632	R_WEEK2vsWEEK0	Endoscopic_Remission
5.5870228E-05	0.00101762229	R_WEEK2vsWEEK0	Endoscopic_Remission
5.6293801E-05	0.00102294442	R_WEEK2vsWEEK0	Endoscopic_Remission
5.6642304E-05	0.00102688079	R_WEEK2vsWEEK0	Endoscopic_Remission
5.6755423E-05	0.00102773512	R_WEEK2vsWEEK0	Endoscopic_Remission
5.7010289E-05	0.00103115126	R_WEEK2vsWEEK0	Endoscopic_Remission
5.7310754E-05	0.0010344375	R_WEEK2vsWEEK0	Endoscopic_Remission
5.7324829E-05	0.0010344375	R_WEEK2vsWEEK0	Endoscopic_Remission
5.7603949E-05	0.00103827118	R_WEEK2vsWEEK0	Endoscopic_Remission
5.7928188E-05	0.00104170402	R_WEEK2vsWEEK0	Endoscopic_Remission
5.8585685E-05	0.00105110008	R_WEEK2vsWEEK0	Endoscopic_Remission
5.894911E-05	0.00105640333	R_WEEK2vsWEEK0	Endoscopic_Remission
5.9734509E-05	0.00106924772	R_WEEK2vsWEEK0	Endoscopic_Remission
6.0347682E-05	0.0010789833	R_WEEK2vsWEEK0	Endoscopic_Remission
6.0526428E-05	0.00108093814	R_WEEK2vsWEEK0	Endoscopic_Remission
6.0700144E-05	0.00108279879	R_WEEK2vsWEEK0	Endoscopic_Remission
6.1099395E-05	0.00108867377	R_WEEK2vsWEEK0	Endoscopic_Remission

6.1204463E-05	0.00108929955	R_WEEK2vsWEEK0	Endoscopic_Remission
6.1486292E-05	0.00109306625	R_WEEK2vsWEEK0	Endoscopic_Remission
6.1626093E-05	0.00109321004	R_WEEK2vsWEEK0	Endoscopic_Remission
6.1641982E-05	0.00109321004	R_WEEK2vsWEEK0	Endoscopic_Remission
6.1704978E-05	0.00109321004	R_WEEK2vsWEEK0	Endoscopic_Remission
6.1864258E-05	0.00109478646	R_WEEK2vsWEEK0	Endoscopic_Remission
6.2280002E-05	0.00109980385	R_WEEK2vsWEEK0	Endoscopic_Remission
6.2289026E-05	0.00109980385	R_WEEK2vsWEEK0	Endoscopic_Remission
6.272187E-05	0.00110619216	R_WEEK2vsWEEK0	Endoscopic_Remission
6.3548771E-05	0.00111950794	R_WEEK2vsWEEK0	Endoscopic_Remission
6.4090744E-05	0.00112777983	R_WEEK2vsWEEK0	Endoscopic_Remission
6.4260953E-05	0.00112949866	R_WEEK2vsWEEK0	Endoscopic_Remission
6.4835446E-05	0.00113831162	R_WEEK2vsWEEK0	Endoscopic_Remission
6.574954E-05	0.00115176331	R_WEEK2vsWEEK0	Endoscopic_Remission
6.6088253E-05	0.00115639591	R_WEEK2vsWEEK0	Endoscopic_Remission
6.641314E-05	0.0011593269	R_WEEK2vsWEEK0	Endoscopic_Remission
6.6473778E-05	0.0011593269	R_WEEK2vsWEEK0	Endoscopic_Remission
6.7625083E-05	0.00117536319	R_WEEK2vsWEEK0	Endoscopic_Remission
6.7708416E-05	0.00117549963	R_WEEK2vsWEEK0	Endoscopic_Remission
7.0078612E-05	0.0012139424	R_WEEK2vsWEEK0	Endoscopic_Remission
7.0370172E-05	0.00121763855	R_WEEK2vsWEEK0	Endoscopic_Remission
7.1019415E-05	0.00122750872	R_WEEK2vsWEEK0	Endoscopic_Remission
7.3249406E-05	0.00126324806	R_WEEK2vsWEEK0	Endoscopic_Remission
7.3649528E-05	0.00126874347	R_WEEK2vsWEEK0	Endoscopic_Remission
7.3812391E-05	0.00127014405	R_WEEK2vsWEEK0	Endoscopic_Remission
7.4465148E-05	0.00127996219	R_WEEK2vsWEEK0	Endoscopic_Remission
7.5446115E-05	0.00129466536	R_WEEK2vsWEEK0	Endoscopic_Remission
7.5486813E-05	0.00129466536	R_WEEK2vsWEEK0	Endoscopic_Remission
7.5796473E-05	0.00129854618	R_WEEK2vsWEEK0	Endoscopic_Remission
7.6309573E-05	0.0013044665	R_WEEK2vsWEEK0	Endoscopic_Remission
7.6990598E-05	0.00131466512	R_WEEK2vsWEEK0	Endoscopic_Remission
7.7163681E-05	0.00131617743	R_WEEK2vsWEEK0	Endoscopic_Remission
7.7918116E-05	0.0013275917	R_WEEK2vsWEEK0	Endoscopic_Remission
7.8511458E-05	0.00133396471	R_WEEK2vsWEEK0	Endoscopic_Remission
7.8549133E-05	0.00133396471	R_WEEK2vsWEEK0	Endoscopic_Remission
7.8844736E-05	0.00133607081	R_WEEK2vsWEEK0	Endoscopic_Remission
7.9832036E-05	0.00135098149	R_WEEK2vsWEEK0	Endoscopic_Remission
7.9898154E-05	0.00135098149	R_WEEK2vsWEEK0	Endoscopic_Remission
7.9985403E-05	0.00135098989	R_WEEK2vsWEEK0	Endoscopic_Remission
8.0587939E-05	0.00135828275	R_WEEK2vsWEEK0	Endoscopic_Remission
8.0591618E-05	0.00135828275	R_WEEK2vsWEEK0	Endoscopic_Remission
8.0863344E-05	0.00136065492	R_WEEK2vsWEEK0	Endoscopic_Remission
8.0907112E-05	0.00136065492	R_WEEK2vsWEEK0	Endoscopic_Remission
8.1674079E-05	0.00137207166	R_WEEK2vsWEEK0	Endoscopic_Remission
8.1780711E-05	0.00137238255	R_WEEK2vsWEEK0	Endoscopic_Remission
8.1993018E-05	0.00137446423	R_WEEK2vsWEEK0	Endoscopic_Remission

8.2613193E-05	0.00138337125	R_WEEK2vsWEEK0	Endoscopic_Remission
8.3440072E-05	0.0013957167	R_WEEK2vsWEEK0	Endoscopic_Remission
8.3793569E-05	0.00140012581	R_WEEK2vsWEEK0	Endoscopic_Remission
8.4066945E-05	0.00140318814	R_WEEK2vsWEEK0	Endoscopic_Remission
8.4489037E-05	0.00140872353	R_WEEK2vsWEEK0	Endoscopic_Remission
8.4788511E-05	0.00141220479	R_WEEK2vsWEEK0	Endoscopic_Remission
8.5965302E-05	0.00143027526	R_WEEK2vsWEEK0	Endoscopic_Remission
8.6792437E-05	0.00144249586	R_WEEK2vsWEEK0	Endoscopic_Remission
8.7178467E-05	0.00144736703	R_WEEK2vsWEEK0	Endoscopic_Remission
8.7972378E-05	0.00145744026	R_WEEK2vsWEEK0	Endoscopic_Remission
8.8544348E-05	0.00146535721	R_WEEK2vsWEEK0	Endoscopic_Remission
8.9306645E-05	0.0014764038	R_WEEK2vsWEEK0	Endoscopic_Remission
8.9632368E-05	0.00147864922	R_WEEK2vsWEEK0	Endoscopic_Remission
8.9833406E-05	0.00147900539	R_WEEK2vsWEEK0	Endoscopic_Remission
8.9843903E-05	0.00147900539	R_WEEK2vsWEEK0	Endoscopic_Remission
9.0538312E-05	0.00148886287	R_WEEK2vsWEEK0	Endoscopic_Remission
9.1429054E-05	0.00150192474	R_WEEK2vsWEEK0	Endoscopic_Remission
9.2327496E-05	0.00151508546	R_WEEK2vsWEEK0	Endoscopic_Remission
9.27327E-05	0.00152013299	R_WEEK2vsWEEK0	Endoscopic_Remission
9.3228471E-05	0.00152665298	R_WEEK2vsWEEK0	Endoscopic_Remission
9.3402397E-05	0.00152789446	R_WEEK2vsWEEK0	Endoscopic_Remission
9.4885846E-05	0.001548907	R_WEEK2vsWEEK0	Endoscopic_Remission
9.5569146E-05	0.001556024	R_WEEK2vsWEEK0	Endoscopic_Remission
9.5623142E-05	0.001556024	R_WEEK2vsWEEK0	Endoscopic_Remission
9.5847949E-05	0.00155645476	R_WEEK2vsWEEK0	Endoscopic_Remission
9.6910485E-05	0.00157206977	R_WEEK2vsWEEK0	Endoscopic_Remission
9.9901215E-05	0.0016138606	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00010389323	0.0016710696	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0001039791	0.0016710696	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0001045547	0.00167685929	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0001048258	0.0016794776	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00010507945	0.00168176165	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00010518435	0.00168176165	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00010624774	0.00169640034	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00010631778	0.00169640034	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00010716378	0.00170814896	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00010776334	0.00171419755	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0001077634	0.00171419755	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00010854816	0.00172491894	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0001095039	0.00173833263	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00011039198	0.00175064589	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00011101178	0.00175838194	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00011110562	0.00175838194	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00011145336	0.00176209467	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00011234055	0.00177431989	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00011462476	0.00180673213	R_WEEK2vsWEEK0	Endoscopic_Remission

0.00011498658	0.00181060267	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00011524086	0.00181122983	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00011525902	0.00181122983	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00011591341	0.00181753788	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00011595187	0.00181753788	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00011612728	0.00181753788	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00011694624	0.0018285179	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00011719485	0.00183056709	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00012032817	0.00187302999	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00012051474	0.00187302999	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00012141075	0.00188385885	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00012187496	0.00188851624	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00012228669	0.00189301248	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00012288194	0.00190033813	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00012340864	0.00190658998	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00012370976	0.00190934801	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00012581443	0.00193990901	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00012600429	0.0019409147	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00012892114	0.00198192387	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00012912707	0.00198313195	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00012943572	0.00198591372	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00013004389	0.00199328101	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00013103404	0.00200648292	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00013120249	0.0020070888	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00013249442	0.00202486317	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00013276615	0.00202702667	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00013329969	0.00203317925	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00013443624	0.0020425127	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00013511698	0.00204885752	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0001355383	0.0020532218	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00013566848	0.0020532218	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00013638868	0.00206211743	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00013928487	0.00210182487	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0001396534	0.00210534603	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00014043089	0.00211401233	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00014049976	0.00211401233	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00014283532	0.00214707951	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00014641638	0.00219453952	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00014655629	0.00219453952	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00014889417	0.00222740522	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00014921598	0.00223007727	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00015034786	0.00224483912	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00015103265	0.00225290372	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0001530354	0.00227884439	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00015306436	0.00227884439	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00015358857	0.00228446493	R_WEEK2vsWEEK0	Endoscopic_Remission

0.00015403728	0.00228895277	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00015491653	0.00229982377	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00015547138	0.00230568663	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00015605807	0.0023101638	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00015730701	0.00232423347	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00015746801	0.0023244069	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00015841088	0.0023361104	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00015934648	0.00234768476	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00016047759	0.00236211482	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00016192805	0.00238121397	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00016404983	0.00240786809	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00016494183	0.00241868097	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00016617247	0.00243443444	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00016668901	0.00243859169	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00016676942	0.00243859169	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00016778116	0.00245108441	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00017056214	0.00248670212	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00017058072	0.00248670212	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0001706983	0.00248670212	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0001712201	0.00249197259	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00017222258	0.0025018864	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00017380902	0.00252061645	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00017396285	0.00252061645	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00017399748	0.00252061645	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00017620613	0.0025485492	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00017625297	0.0025485492	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00017745565	0.00256355922	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00017781828	0.00256641709	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00017846839	0.00257341505	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00018047964	0.00259520722	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00018089505	0.00259878102	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00018133367	0.00260208955	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00018155878	0.00260208955	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00018162662	0.00260208955	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00018409326	0.00263500404	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00018732002	0.00267872789	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00018986407	0.00271064935	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0001926866	0.00274411982	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00019277384	0.00274411982	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00019301745	0.00274507825	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00019356869	0.00275040623	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00019555769	0.00277613488	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00019664984	0.00278909653	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00019695461	0.00279083729	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00019819313	0.0028033257	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00019849339	0.00280484934	R_WEEK2vsWEEK0	Endoscopic_Remission

0.00019881025	0.00280484934	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00019884118	0.00280484934	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00020399674	0.00287496942	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00020884958	0.00293804378	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00021174634	0.00297342265	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00021373485	0.00299864211	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00021434351	0.00300447472	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00021626412	0.00302594898	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00021917757	0.00305846979	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00022087971	0.00307527417	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00022091996	0.00307527417	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00022097424	0.00307527417	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0002216081	0.00308134191	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00022182645	0.00308162647	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00022360754	0.00310360091	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00022544385	0.00312630187	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00022598587	0.00313103027	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00022739207	0.00314771259	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00022840001	0.00315885739	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00022972714	0.00317439289	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00023197924	0.00320267078	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00023423031	0.00323088453	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00023459331	0.00323302804	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00023532687	0.00324027004	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00023555421	0.00324053503	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0002360901	0.003242456	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00023616385	0.003242456	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00023631847	0.003242456	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00023911014	0.00327787163	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00024000933	0.00328564497	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00024030865	0.00328564497	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00024079489	0.00328938497	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00024179842	0.00330019878	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00024329715	0.00331774648	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0002468221	0.00335993062	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00024789448	0.00336863933	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00025027019	0.00339795787	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00025075101	0.00340152039	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00025212198	0.00341714154	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00025456285	0.00344368337	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00025509762	0.00344368337	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00025514882	0.00344368337	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00025517745	0.00344368337	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00025518594	0.00344368337	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00025889138	0.00348462874	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00025922901	0.00348616003	R_WEEK2vsWEEK0	Endoscopic_Remission

0.00025988292	0.00349193853	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00026056308	0.00349805932	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00026106162	0.00350173348	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00026171532	0.00350748074	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00026576809	0.00355873293	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00026600797	0.00355888502	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0002673858	0.00357424816	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00027209039	0.0036320802	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00027217862	0.0036320802	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00027890504	0.00371427148	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00027980735	0.00371795208	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00028372604	0.00376359928	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00028868716	0.00382614911	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00028900438	0.00382709633	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00029155172	0.00385427409	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00029682619	0.00391735104	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00030055815	0.00396324481	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00030152099	0.00396921932	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00030229414	0.00397603605	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00031042146	0.0040794881	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00031615191	0.00414081891	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00031718384	0.00415084368	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00031791451	0.00415685438	R_WEEK2vsWEEK0	Endoscopic_Remission
0.000318177	0.00415685438	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00031931746	0.00416825723	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00032169077	0.00419572063	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00032225304	0.00419907208	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00032248701	0.00419907208	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00032321261	0.0042050042	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00032437709	0.00421531209	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00032496407	0.00421722121	R_WEEK2vsWEEK0	Endoscopic_Remission
0.000327749	0.00424982117	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00032916485	0.00426462915	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00033142155	0.00429029742	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00033240268	0.00429942434	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00033371675	0.00431283897	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00033471958	0.00432221225	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00033746561	0.00435105597	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00033751208	0.00435105597	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00034110595	0.00439011811	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00035055363	0.00448207857	R_WEEK2vsWEEK0	Endoscopic_Remission

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0.00049427967	0.00584249445	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00049447169	0.00584249445	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00049557329	0.00585107118	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00052838961	0.00615453361	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00079265683 0.00843748793 R_WEEK2vsWEEK0	Endoscopic_Remission

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0.00082878107	0.00871252026	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00083320499	0.00874359923	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0008359666	0.00876263842	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00093376714	0.00956052315	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00094665094	0.00968139135	R_WEEK2vsWEEK0	Endoscopic_Remission

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0.00217203499	0.0184850057	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00217219293	0.0184850057	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00217646549	0.01851124908	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00218375996	0.0185575515	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00218429281	0.0185575515	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0021872982	0.01857295253	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00219223575	0.01860473422	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00220648617	0.01870528531	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00222326048	0.01883723362	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00223321002	0.01891124507	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00223731781	0.01893573382	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00225257882	0.01905454098	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00226640034	0.01915336796	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00226672171	0.01915336796	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00227637652	0.01922451818	R_WEEK2vsWEEK0	Endoscopic_Remission
0.002277923	0.01922715166	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00228804165	0.0193020978	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00232561615	0.01958724731	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00232767732	0.01959401023	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00233255657	0.01962250063	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00233358192	0.01962250063	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00233586704	0.01962823678	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00233678488	0.01962823678	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00233817333	0.01962931173	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00234083661	0.01964108218	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00235550192	0.01974285863	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00236196652	0.01978638445	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00236323605	0.01978638445	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00237381494	0.01986427729	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00238334896	0.01992702906	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00238387306	0.01992702906	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00239538378	0.01999105657	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00240545753	0.02006168496	R_WEEK2vsWEEK0	Endoscopic_Remission

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0.00242397911 0.02018643139 R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00270384636 0.02187376588 R_WEEK2vsWEEK0	Endoscopic_Remission

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0.0027231855	0.02198453487	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00272804301	0.02201233872	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00273210301	0.02203368213	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00282847491	0.0226350667	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00290573327	0.02308723688	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0029078586	0.02308853353	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0029232152	0.02317936913	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00292328267	0.02317936913	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00292803392	0.02320522757	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00303421401	0.02380598095	R_WEEK2vsWEEK0	Endoscopic_Remission

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0.003059313	0.02398926552	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00307528275	0.02407811879	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00308486591	0.02412335178	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00308611028	0.02412335178	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00309008038	0.02412335178	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00309016252	0.02412335178	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00309035425	0.02412335178	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00309689216	0.0241445767	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00309711033	0.0241445767	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00312433495	0.02429119732	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00317191167	0.02463649897	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00335822697	0.02558594356	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00346684085	0.02620830703	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.0038062152	0.02821237	R_WEEK2vsWEEK0	Endoscopic_Remission

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0.00403985759	0.02942260435	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00404128625	0.02942260435	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00406171383	0.02950136294	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00406347033	0.02950136294	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00406588524	0.02950514016	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00409362882	0.02965120073	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00410095145	0.02966517848	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00410116185	0.02966517848	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00412571679	0.02980045803	R_WEEK2vsWEEK0	Endoscopic_Remission

0.00413470031	0.02984122336	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00413519296	0.02984122336	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00414206539	0.02986314092	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00414723621	0.02988146806	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00414967689	0.02988146806	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0041694294	0.0299910042	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00418738152	0.03010622918	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00420968207	0.03025259752	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00421719979	0.0302926441	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00423894289	0.03043478911	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00425012118	0.03050098485	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00426406129	0.03056829523	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00426624728	0.03056829523	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00426625721	0.03056829523	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00426735207	0.03056829523	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00427208545	0.03058813179	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00427949985	0.03060804831	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00430023233	0.03071904498	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00432825588	0.03089089316	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00433296773	0.03091035572	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00434077174	0.03095184905	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00434303293	0.03095379946	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.0043554667	0.03101402966	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00441917616	0.031395908	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00442690757	0.0314221657	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00460107931	0.03249551389	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00463018098	0.03264183265	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00463611433	0.03266887262	R_WEEK2vsWEEK0	Endoscopic_Remission
0.00466764583	0.03287618656	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00472643643	0.03318520942	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.00547674258	0.0368898409	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.01056566187	0.05901687673	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.01059554087	0.05912440474	R_WEEK2vsWEEK0	Endoscopic_Remission
0.01059630217	0.05912440474	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.01062186199	0.05916882762	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.01068251419	0.0594563236	R_WEEK2vsWEEK0	Endoscopic_Remission
0.01069865311	0.05950361603	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.01072530749	0.05957453562	R_WEEK2vsWEEK0	Endoscopic_Remission
0.01072670634	0.05957453562	R_WEEK2vsWEEK0	Endoscopic_Remission
0.01077891169	0.05984193441	R_WEEK2vsWEEK0	Endoscopic_Remission
0.01078253824	0.05984193441	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0108093298	0.05996485966	R_WEEK2vsWEEK0	Endoscopic_Remission
0.01081238849	0.05996485966	R_WEEK2vsWEEK0	Endoscopic_Remission
0.01082683351	0.06002164772	R_WEEK2vsWEEK0	Endoscopic_Remission
0.01083033649	0.06002164772	R_WEEK2vsWEEK0	Endoscopic_Remission
0.01083870739	0.06004667028	R_WEEK2vsWEEK0	Endoscopic_Remission
0.01086313742	0.06013922468	R_WEEK2vsWEEK0	Endoscopic_Remission
0.01087190018	0.06014813155	R_WEEK2vsWEEK0	Endoscopic_Remission
0.01087247096	0.06014813155	R_WEEK2vsWEEK0	Endoscopic_Remission
0.01087665492	0.06014991018	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.0108994662	0.06021536764	R_WEEK2vsWEEK0	Endoscopic_Remission
0.01090925098	0.06021536764	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.01091421946	0.06021536764	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.02007506226 0.0913051824 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02009313208 0.09136068493 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02014042892 0.0915381949 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02015326397 0.0915381949 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02016120412 0.0915381949 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02016536542 0.0915381949 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02016744023 0.0915381949 R_WEEK2vsWEEK0	Endoscopic_Remission
0.0202283289 0.09178781061 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02024115637 0.09181926249 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02025111669 0.09183769372 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02030321154 0.09201433272 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02031370166 0.09201433272 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02033406287 0.09207977932 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02034339167 0.09209524372 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02037233406 0.0921500599 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02037325218 0.0921500599 R_WEEK2vsWEEK0	Endoscopic_Remission
0.0203803366 0.09215138356 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02038537959 0.09215138356 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02045639326 0.09243300458 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02045954966 0.09243300458 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02052477952 0.09268162451 R_WEEK2vsWEEK0	Endoscopic_Remission
0.0205264832 0.09268162451 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02058729999 0.09291688733 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02059052066 0.09291688733 R_WEEK2vsWEEK0	Endoscopic_Remission
0.02061484944 0.0929625012 R_WEEK2vsWEEK0	Endoscopic_Remission

0.02062855588	0.0929625012	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02063420972	0.0929625012	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02063644556	0.0929625012	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0206494821	0.09297081342	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02067031857	0.09300747505	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02068395719	0.09304195996	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02070161446	0.09306762184	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02077096869	0.09324561868	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.0207932918	0.0932912513	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02084388516	0.09349130863	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02085282456	0.0935044736	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02086351743	0.09352549136	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.02089909875	0.09363108884	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02091034	0.09365450814	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02092007089	0.09367115123	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02101602466	0.09405612961	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02101812952	0.09405612961	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.02107721245	0.09423286408	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02108824422	0.09423449847	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02112201953	0.09435835058	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02117127984	0.0945512879	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02120156896	0.09465941327	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02123762634	0.09479322296	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0212595812	0.09486402807	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02128644864	0.09495670713	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02134129586	0.09517411237	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02135580835	0.09520506205	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0213645923	0.09520506205	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02136657625	0.09520506205	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02144594382	0.09553137387	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02149441042	0.09571988946	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02155727522	0.09596414174	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0215642781	0.09596414174	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02156774521	0.09596414174	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02160163459	0.09608747657	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02167525642	0.09635353216	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02168679368	0.09635618775	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02171242	0.09641955459	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02171435149	0.09641955459	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02171962997	0.09641955459	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02173291622	0.09645104142	R_WEEK2vsWEEK0	Endoscopic_Remission

0.02178692883	0.09664043738	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02178800332	0.09664043738	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02192718944	0.09711948836	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02194927378	0.09718966182	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02198740495	0.09731032917	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02198902256	0.09731032917	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02199667628	0.09731654535	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02200631129	0.09733152106	R_WEEK2vsWEEK0	Endoscopic_Remission
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0.02207053774	0.09750481822	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02210654788	0.09757046092	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02211012681	0.09757046092	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02211045762	0.09757046092	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02211993526	0.0975822422	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02212565962	0.0975822422	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02222923949	0.09801130992	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02223997733	0.09803089923	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02224794081	0.09803825189	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0223007985	0.09824337625	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0223274085	0.09833278635	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02235822541	0.09844066844	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0223930253	0.09856602118	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0224121081	0.09860110852	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02241365981	0.09860110852	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02244215342	0.09869857532	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02247347887	0.09880843773	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02249374679	0.09886963554	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02256430269	0.09915177363	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02257359068	0.09916460581	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02260038843	0.09922634592	R_WEEK2vsWEEK0	Endoscopic_Remission
0.0226099874	0.09923061664	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02261410508	0.09923061664	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02266687912	0.09935522784	R_WEEK2vsWEEK0	Endoscopic_Remission
0.02268411653	0.09939779031	R_WEEK2vsWEEK0	Endoscopic_Remission
1.506262E-24	1.2320812E-20	R_WEEK4vsWEEK0	Endoscopic_Remission
1.5823299E-24	1.2320812E-20	R_WEEK4vsWEEK0	Endoscopic_Remission
1.240131E-22	4.82814E-19	R_WEEK4vsWEEK0	Endoscopic_Remission
2.827036E-21	8.8050864E-18	R_WEEK4vsWEEK0	Endoscopic_Remission
1.9474683E-20	5.054654E-17	R_WEEK4vsWEEK0	Endoscopic_Remission
2.8626039E-20	6.3684757E-17	R_WEEK4vsWEEK0	Endoscopic_Remission
4.7377479E-20	9.2226184E-17	R_WEEK4vsWEEK0	Endoscopic_Remission
1.5874592E-19	2.2664181E-16	R_WEEK4vsWEEK0	Endoscopic_Remission
1.6008861E-19	2.2664181E-16	R_WEEK4vsWEEK0	Endoscopic_Remission
9.8525853E-19	1.2786193E-15	R_WEEK4vsWEEK0	Endoscopic_Remission
6.036441E-18	6.936473E-15	R_WEEK4vsWEEK0	Endoscopic_Remission
6.2358326E-18	6.936473E-15	R_WEEK4vsWEEK0	Endoscopic_Remission

8.747591E-18	9.0817489E-15	R_WEEK4vsWEEK0	Endoscopic_Remission
1.9263313E-17	1.8749223E-14	R_WEEK4vsWEEK0	Endoscopic_Remission
4.4907992E-17	4.1138362E-14	R_WEEK4vsWEEK0	Endoscopic_Remission
5.6630707E-17	4.8995E-14	R_WEEK4vsWEEK0	Endoscopic_Remission
7.229449E-17	5.9254847E-14	R_WEEK4vsWEEK0	Endoscopic_Remission
1.2680805E-16	9.873909E-14	R_WEEK4vsWEEK0	Endoscopic_Remission
1.5388342E-16	1.1411555E-13	R_WEEK4vsWEEK0	Endoscopic_Remission
1.8096475E-16	1.2770675E-13	R_WEEK4vsWEEK0	Endoscopic_Remission
1.8861204E-16	1.2770675E-13	R_WEEK4vsWEEK0	Endoscopic_Remission
3.1973752E-16	2.0746968E-13	R_WEEK4vsWEEK0	Endoscopic_Remission
5.021272E-16	3.1278507E-13	R_WEEK4vsWEEK0	Endoscopic_Remission
6.0963026E-16	3.6514508E-13	R_WEEK4vsWEEK0	Endoscopic_Remission
7.437668E-16	4.2898816E-13	R_WEEK4vsWEEK0	Endoscopic_Remission
1.1612641E-15	6.4587018E-13	R_WEEK4vsWEEK0	Endoscopic_Remission
1.2474986E-15	6.6990677E-13	R_WEEK4vsWEEK0	Endoscopic_Remission
1.6643133E-15	8.6394503E-13	R_WEEK4vsWEEK0	Endoscopic_Remission
1.7504542E-15	8.7934914E-13	R_WEEK4vsWEEK0	Endoscopic_Remission
3.0998379E-15	1.5085555E-12	R_WEEK4vsWEEK0	Endoscopic_Remission
3.6252733E-15	1.6604818E-12	R_WEEK4vsWEEK0	Endoscopic_Remission
4.64986E-15	2.068922E-12	R_WEEK4vsWEEK0	Endoscopic_Remission
6.2820834E-15	2.7175246E-12	R_WEEK4vsWEEK0	Endoscopic_Remission
8.1137011E-15	3.3251228E-12	R_WEEK4vsWEEK0	Endoscopic_Remission
1.1440644E-14	4.5683372E-12	R_WEEK4vsWEEK0	Endoscopic_Remission
1.441509E-14	5.5078767E-12	R_WEEK4vsWEEK0	Endoscopic_Remission
1.4500928E-14	5.5078767E-12	R_WEEK4vsWEEK0	Endoscopic_Remission
1.9221297E-14	7.1269823E-12	R_WEEK4vsWEEK0	Endoscopic_Remission
2.4617447E-14	8.9155233E-12	R_WEEK4vsWEEK0	Endoscopic_Remission
2.5440741E-14	9.0042877E-12	R_WEEK4vsWEEK0	Endoscopic_Remission
3.6923891E-14	1.2500343E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
3.9618445E-14	1.2853709E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
4.4713902E-14	1.4210808E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
5.0388506E-14	1.5694004E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
5.1715865E-14	1.5791591E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
5.4340866E-14	1.6274044E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
5.6932488E-14	1.6728484E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
6.1712709E-14	1.779726E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
7.1936628E-14	2.0368529E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
7.7342293E-14	2.1508063E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
8.724314E-14	2.3630613E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
8.8009733E-14	2.3630613E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
9.749799E-14	2.5734512E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
1.0424166E-13	2.7055924E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
1.4113123E-13	3.5448979E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
1.4477648E-13	3.5787367E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
1.4810072E-13	3.6037071E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
1.5798818E-13	3.7851538E-11	R_WEEK4vsWEEK0	Endoscopic_Remission

1.6272091E-13	3.8394739E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
1.719842E-13	3.938691E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
1.8760157E-13	4.2340858E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
2.4462138E-13	5.4421268E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
2.4883319E-13	5.4578581E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
3.4702899E-13	7.4031266E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
3.5237915E-13	7.4156763E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
3.7330672E-13	7.7513408E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
4.0102635E-13	8.2173466E-11	R_WEEK4vsWEEK0	Endoscopic_Remission
5.416669E-13	1.0955037E-10	R_WEEK4vsWEEK0	Endoscopic_Remission
5.5639894E-13	1.1108719E-10	R_WEEK4vsWEEK0	Endoscopic_Remission
7.2724365E-13	1.4335906E-10	R_WEEK4vsWEEK0	Endoscopic_Remission
9.4208134E-13	1.8338791E-10	R_WEEK4vsWEEK0	Endoscopic_Remission
1.1601668E-12	2.2305282E-10	R_WEEK4vsWEEK0	Endoscopic_Remission
1.6002432E-12	3.0024804E-10	R_WEEK4vsWEEK0	Endoscopic_Remission
1.6649291E-12	3.0866597E-10	R_WEEK4vsWEEK0	Endoscopic_Remission
1.9407332E-12	3.5556515E-10	R_WEEK4vsWEEK0	Endoscopic_Remission
2.0035331E-12	3.6280258E-10	R_WEEK4vsWEEK0	Endoscopic_Remission
2.106504E-12	3.7706421E-10	R_WEEK4vsWEEK0	Endoscopic_Remission
3.0536307E-12	5.3431676E-10	R_WEEK4vsWEEK0	Endoscopic_Remission
4.5407683E-12	7.6862374E-10	R_WEEK4vsWEEK0	Endoscopic_Remission
5.1023446E-12	8.5439583E-10	R_WEEK4vsWEEK0	Endoscopic_Remission
5.7989488E-12	9.6071308E-10	R_WEEK4vsWEEK0	Endoscopic_Remission
6.0889878E-12	9.87748E-10	R_WEEK4vsWEEK0	Endoscopic_Remission
6.9415864E-12	1.1144466E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
7.0470761E-12	1.1198379E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
7.4888057E-12	1.1780118E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
8.2525081E-12	1.2724387E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
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1.2818423E-11	1.9011553E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
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1.5501573E-11	2.2561308E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
1.6482374E-11	2.3595292E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
1.6515038E-11	2.3595292E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
2.0516879E-11	2.9046305E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
2.8957355E-11	4.0626387E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
3.3067112E-11	4.5571163E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
3.3643189E-11	4.5958366E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
3.4496687E-11	4.6714514E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
3.5625253E-11	4.7826902E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
4.1406142E-11	5.4772373E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
4.1502215E-11	5.4772373E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
4.6605878E-11	6.0482779E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
4.8921615E-11	6.2963332E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
6.394207E-11	8.0916484E-09	R_WEEK4vsWEEK0	Endoscopic_Remission

6.4429744E-11	8.0916484E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
6.6005471E-11	8.2232256E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
7.8683657E-11	9.6483511E-09	R_WEEK4vsWEEK0	Endoscopic_Remission
8.5153956E-11	1.0360176E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
9.2184648E-11	1.1128617E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
1.0397447E-10	1.2455341E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
1.1655813E-10	1.3856181E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
1.185643E-10	1.3987892E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
1.2896586E-10	1.498795E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
1.6065708E-10	1.8417235E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
1.6083889E-10	1.8417235E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
1.7040407E-10	1.9370091E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
1.7501322E-10	1.9607776E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
1.843036E-10	2.0501142E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
2.0385837E-10	2.2356947E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
2.8744204E-10	3.0598996E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
2.8883661E-10	3.0598996E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
3.6689804E-10	3.8091355E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
3.7441569E-10	3.8614408E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
4.0157051E-10	4.1142484E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
4.2110045E-10	4.286142E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
4.9191499E-10	4.9423175E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
4.9786448E-10	4.9700279E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
5.075569E-10	5.0345118E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
5.235215E-10	5.1600002E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
5.2792256E-10	5.1690278E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
5.3107587E-10	5.1690278E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
5.4629095E-10	5.2520244E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
5.4634813E-10	5.2520244E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
5.6094902E-10	5.3593001E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
5.8151854E-10	5.5219441E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
5.8741647E-10	5.5441434E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
6.8000875E-10	6.3411834E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
6.841172E-10	6.3415221E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
7.2224249E-10	6.655315E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
7.4916481E-10	6.8627903E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
7.9177087E-10	7.1687487E-08	R_WEEK4vsWEEK0	Endoscopic_Remission
1.2020717E-09	1.0636285E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.224083E-09	1.0733191E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.2268079E-09	1.0733191E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.2896478E-09	1.1219936E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.2982549E-09	1.1232069E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.3838122E-09	1.1906137E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.4069293E-09	1.2038522E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.4512811E-09	1.2350164E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.4803323E-09	1.2528921E-07	R_WEEK4vsWEEK0	Endoscopic_Remission

1.4923702E-09	1.256253E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.7102744E-09	1.4242836E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.7337213E-09	1.4361299E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.7504408E-09	1.4423076E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.7713056E-09	1.451818E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.8339476E-09	1.4952914E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.9727112E-09	1.5917633E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
2.1142238E-09	1.6884516E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
2.2976519E-09	1.8255782E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
2.4792116E-09	1.9499375E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
2.5241005E-09	1.9752672E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
2.720981E-09	2.1135679E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
2.8635473E-09	2.2076249E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
3.1423428E-09	2.4106258E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
3.3760184E-09	2.5771929E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
3.3976381E-09	2.5810448E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
3.6681473E-09	2.7596163E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
3.7131445E-09	2.7800385E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
3.9076265E-09	2.9116492E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
3.9547302E-09	2.9327149E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
4.0279251E-09	2.9728378E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
4.581561E-09	3.3655023E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
4.6921404E-09	3.4145188E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
4.7833666E-09	3.4647148E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
7.1181539E-09	5.0386823E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
7.3313872E-09	5.1661399E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
7.453712E-09	5.2286782E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
7.7221322E-09	5.3686056E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
8.4549017E-09	5.8519193E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
8.6500329E-09	5.9304358E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
8.6660638E-09	5.9304358E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
8.6825875E-09	5.9304358E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
8.9821824E-09	6.1082763E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
9.3032308E-09	6.2990962E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.0007655E-08	6.7051655E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.0073751E-08	6.7051655E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.0075186E-08	6.7051655E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.021565E-08	6.7411228E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.021579E-08	6.7411228E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.0500004E-08	6.8994332E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.1124247E-08	7.2408854E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.1159138E-08	7.2408854E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.1494696E-08	7.4276721E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.1863284E-08	7.6341702E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.1986105E-08	7.6814654E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.2081019E-08	7.7105618E-07	R_WEEK4vsWEEK0	Endoscopic_Remission

1.2785761E-08	8.0940104E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.3130134E-08	8.2783637E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.3250056E-08	8.3202872E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.356186E-08	8.4818816E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.4461011E-08	8.9825071E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.4477681E-08	8.9825071E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.5201827E-08	9.3943669E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.5366607E-08	9.4406714E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.6319208E-08	9.9662365E-07	R_WEEK4vsWEEK0	Endoscopic_Remission
1.6513276E-08	1.0045361E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.7448494E-08	1.0531992E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.8260945E-08	1.0920095E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.8301835E-08	1.0920095E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.9417776E-08	1.1541718E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.9792851E-08	1.1703564E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.9840371E-08	1.1703564E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.2330219E-08	1.3078203E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.2338676E-08	1.3078203E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.3024131E-08	1.337891E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.4073425E-08	1.3936634E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.4817272E-08	1.4314051E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.5258912E-08	1.451502E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.6441075E-08	1.5138488E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.6599799E-08	1.5173578E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.8702782E-08	1.6313446E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.8858015E-08	1.6342031E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.9497458E-08	1.664362E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
3.0433376E-08	1.710971E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
3.0869313E-08	1.7292368E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
3.428568E-08	1.90011E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
3.6535096E-08	2.0175924E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
3.9134322E-08	2.153494E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
3.9828421E-08	2.1839718E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
4.0886018E-08	2.2340981E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
4.4043694E-08	2.3861784E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
4.4061578E-08	2.3861784E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
4.4532519E-08	2.399671E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
4.4878283E-08	2.4099638E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
4.6582395E-08	2.4843412E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
4.7268722E-08	2.5123407E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
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5.2899217E-08	2.7644279E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
5.5123052E-08	2.8710077E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
5.6340335E-08	2.9149104E-06	R_WEEK4vsWEEK0	Endoscopic_Remission

5.8762843E-08	3.030178E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
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6.0744529E-08	3.1110087E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
6.1137394E-08	3.1114139E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
6.149204E-08	3.1192689E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
6.2289165E-08	3.1454889E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
6.2412899E-08	3.1454889E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
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6.5356196E-08	3.2685992E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
6.5485325E-08	3.2685992E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
6.6171788E-08	3.2923107E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
6.6799795E-08	3.3122464E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
6.8165036E-08	3.348688E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
7.1316163E-08	3.4752874E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
7.1411545E-08	3.4752874E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
7.5389321E-08	3.6574389E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
7.5784299E-08	3.6651829E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
7.7092578E-08	3.7169124E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
7.9096128E-08	3.8017407E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
8.0582236E-08	3.8612528E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
8.0859252E-08	3.8626415E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
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8.6884554E-08	4.1126236E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
8.7365103E-08	4.1228386E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
8.7975109E-08	4.1390827E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
8.940397E-08	4.1810451E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
9.0143061E-08	4.2029877E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
9.8105042E-08	4.5605666E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
9.8763283E-08	4.5775018E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.0013062E-07	4.6134146E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.0203059E-07	4.6870865E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.0832971E-07	4.9618195E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.0962736E-07	4.9966438E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.0973173E-07	4.9966438E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.1254085E-07	5.1096172E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.1838557E-07	5.3593562E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.1896472E-07	5.3699641E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.2361132E-07	5.5635811E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.3419418E-07	6.0224955E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.3834849E-07	6.1910951E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.4798048E-07	6.6031517E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.5010836E-07	6.659936E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.5289045E-07	6.7626326E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.5626582E-07	6.874372E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.6577813E-07	7.2518617E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.6936726E-07	7.3674758E-06	R_WEEK4vsWEEK0	Endoscopic_Remission

1.8261887E-07	7.9217931E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.8356045E-07	7.9405193E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.885716E-07	8.1122253E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.8994943E-07	8.1489876E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
1.9451771E-07	8.3220447E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.0477577E-07	8.731514E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.0520992E-07	8.731514E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.1516881E-07	9.1303101E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.2214337E-07	9.4006487E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.231586E-07	9.4180188E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.2488189E-07	9.4434393E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.2791008E-07	9.5153987E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.2956087E-07	9.5586936E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.3113169E-07	9.5984369E-06	R_WEEK4vsWEEK0	Endoscopic_Remission
2.4362507E-07	1.0090354E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.5217032E-07	1.0391085E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.5249246E-07	1.0391085E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.5288776E-07	1.0391085E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.5405954E-07	1.0411761E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.5843972E-07	1.0563469E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.6335893E-07	1.0736358E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.6472037E-07	1.0763682E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.7176283E-07	1.1021257E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.7516204E-07	1.1101291E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
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2.8082391E-07	1.1213515E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
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2.9042344E-07	1.1537664E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
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3.2756421E-07	1.2881711E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
3.2990862E-07	1.2918837E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
3.3054736E-07	1.2918837E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
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3.7037167E-07	1.4241477E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
3.8566845E-07	1.4756793E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
3.9904519E-07	1.5231203E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
4.064695E-07	1.5476649E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
4.8567704E-07	1.8402551E-05	R_WEEK4vsWEEK0	Endoscopic_Remission

4.9500267E-07	1.8685953E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
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4.9675622E-07	1.8685953E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
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5.3414301E-07	1.980526E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
5.4755561E-07	2.0254355E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
5.6272256E-07	2.0766063E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
5.68728E-07	2.0938064E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
6.0734361E-07	2.2306986E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
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6.1653624E-07	2.2538307E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
6.2437547E-07	2.2771427E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
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6.568063E-07	2.3842528E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
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8.2159975E-07	2.9079029E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
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8.9427656E-07	3.1508074E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
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9.483495E-07	3.3039478E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
9.723539E-07	3.380015E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
9.9166635E-07	3.43947E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.0036465E-06	3.4724266E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.0056279E-06	3.4724266E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.0125383E-06	3.4885527E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.0264183E-06	3.5285678E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.1409387E-06	3.9136207E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.1680606E-06	3.9890807E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.1909212E-06	4.0582531E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.2166444E-06	4.1368565E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.2238872E-06	4.1524174E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.2547317E-06	4.2478123E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.2625093E-06	4.263712E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.264904E-06	4.263712E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.2687214E-06	4.267343E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.2837154E-06	4.30847E-05	R_WEEK4vsWEEK0	Endoscopic_Remission

1.2884822E-06	4.3151684E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.3199434E-06	4.4089863E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.3249892E-06	4.4089863E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.3519688E-06	4.4891707E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.3560106E-06	4.4930112E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.429277E-06	4.7157058E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.4642435E-06	4.8208591E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.4823428E-06	4.8701528E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.4997762E-06	4.9170557E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.5152668E-06	4.9574053E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.5383635E-06	5.0119111E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.5627866E-06	5.080851E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.5973913E-06	5.1717619E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.6383241E-06	5.2823231E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.6690174E-06	5.3612834E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.8118816E-06	5.7939285E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.8167565E-06	5.7976126E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.8939327E-06	6.0192274E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.9310636E-06	6.1101893E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.9343243E-06	6.1101893E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.954427E-06	6.1611926E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
1.9681225E-06	6.1918328E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.0169489E-06	6.3326503E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.0357111E-06	6.3786979E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.0735064E-06	6.4840792E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.098308E-06	6.5484872E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.1838089E-06	6.7881151E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.3478757E-06	7.2835595E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.3699434E-06	7.3374014E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.4338542E-06	7.5203197E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.4907846E-06	7.6739531E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.4934311E-06	7.6739531E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.5303952E-06	7.7723558E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.5530247E-06	7.8264279E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.616099E-06	8.0040293E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.6462156E-06	8.0802972E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.6929189E-06	8.1907864E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.7384403E-06	8.3130079E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.7692387E-06	8.3901466E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.7803708E-06	8.4075173E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.8831379E-06	8.7013771E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.9261954E-06	8.8142438E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
2.9775903E-06	8.9517401E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
3.0270605E-06	9.0798925E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
3.0318783E-06	9.0798925E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
3.0755552E-06	9.1930175E-05	R_WEEK4vsWEEK0	Endoscopic_Remission

3.1013224E-06	9.2522785E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
3.1546719E-06	9.3934427E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
3.2464014E-06	9.6481316E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
3.2634113E-06	9.6802104E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
3.2724648E-06	9.6886112E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
3.291785E-06	9.7273182E-05	R_WEEK4vsWEEK0	Endoscopic_Remission
3.5258729E-06	0.00010379663	R_WEEK4vsWEEK0	Endoscopic_Remission
3.6772963E-06	0.00010805007	R_WEEK4vsWEEK0	Endoscopic_Remission
3.6884297E-06	0.0001081731	R_WEEK4vsWEEK0	Endoscopic_Remission
3.8496228E-06	0.00011262776	R_WEEK4vsWEEK0	Endoscopic_Remission
3.8547869E-06	0.00011262776	R_WEEK4vsWEEK0	Endoscopic_Remission
3.9866149E-06	0.00011604403	R_WEEK4vsWEEK0	Endoscopic_Remission
4.0296883E-06	0.00011691148	R_WEEK4vsWEEK0	Endoscopic_Remission
4.1056917E-06	0.00011862326	R_WEEK4vsWEEK0	Endoscopic_Remission
4.1542752E-06	0.00011980468	R_WEEK4vsWEEK0	Endoscopic_Remission
4.2573897E-06	0.00012232533	R_WEEK4vsWEEK0	Endoscopic_Remission
4.2864756E-06	0.00012281706	R_WEEK4vsWEEK0	Endoscopic_Remission
4.2902767E-06	0.00012281706	R_WEEK4vsWEEK0	Endoscopic_Remission
4.320436E-06	0.00012338669	R_WEEK4vsWEEK0	Endoscopic_Remission
4.3655752E-06	0.00012411005	R_WEEK4vsWEEK0	Endoscopic_Remission
4.3673221E-06	0.00012411005	R_WEEK4vsWEEK0	Endoscopic_Remission
4.3929911E-06	0.00012461211	R_WEEK4vsWEEK0	Endoscopic_Remission
4.4165627E-06	0.00012505297	R_WEEK4vsWEEK0	Endoscopic_Remission
4.4509629E-06	0.00012579827	R_WEEK4vsWEEK0	Endoscopic_Remission
4.6933829E-06	0.00013240951	R_WEEK4vsWEEK0	Endoscopic_Remission
4.7379463E-06	0.00013342502	R_WEEK4vsWEEK0	Endoscopic_Remission
4.8002022E-06	0.0001349342	R_WEEK4vsWEEK0	Endoscopic_Remission
4.8174306E-06	0.0001351745	R_WEEK4vsWEEK0	Endoscopic_Remission
4.8535622E-06	0.00013594339	R_WEEK4vsWEEK0	Endoscopic_Remission
4.9940702E-06	0.00013962775	R_WEEK4vsWEEK0	Endoscopic_Remission
5.0933396E-06	0.00014214799	R_WEEK4vsWEEK0	Endoscopic_Remission
5.5355261E-06	0.00015366265	R_WEEK4vsWEEK0	Endoscopic_Remission
5.5789072E-06	0.00015458499	R_WEEK4vsWEEK0	Endoscopic_Remission
5.5886053E-06	0.00015458499	R_WEEK4vsWEEK0	Endoscopic_Remission
5.6994717E-06	0.00015709358	R_WEEK4vsWEEK0	Endoscopic_Remission
5.7318539E-06	0.00015751371	R_WEEK4vsWEEK0	Endoscopic_Remission
5.7349433E-06	0.00015751371	R_WEEK4vsWEEK0	Endoscopic_Remission
6.0393961E-06	0.00016529265	R_WEEK4vsWEEK0	Endoscopic_Remission
6.1162771E-06	0.00016710313	R_WEEK4vsWEEK0	Endoscopic_Remission
6.1711122E-06	0.00016830601	R_WEEK4vsWEEK0	Endoscopic_Remission
6.2036529E-06	0.0001688977	R_WEEK4vsWEEK0	Endoscopic_Remission
6.2556287E-06	0.00017001554	R_WEEK4vsWEEK0	Endoscopic_Remission
6.282168E-06	0.00017043938	R_WEEK4vsWEEK0	Endoscopic_Remission
6.319406E-06	0.0001711515	R_WEEK4vsWEEK0	Endoscopic_Remission
6.5098423E-06	0.00017545854	R_WEEK4vsWEEK0	Endoscopic_Remission
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6.6014124E-06	0.00017755405	R_WEEK4vsWEEK0	Endoscopic_Remission
6.6826243E-06	0.00017942846	R_WEEK4vsWEEK0	Endoscopic_Remission
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7.0968336E-06	0.00018894992	R_WEEK4vsWEEK0	Endoscopic_Remission
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7.2310067E-06	0.00019086181	R_WEEK4vsWEEK0	Endoscopic_Remission
7.2957469E-06	0.00019192004	R_WEEK4vsWEEK0	Endoscopic_Remission
7.4145423E-06	0.00019471613	R_WEEK4vsWEEK0	Endoscopic_Remission
7.4451693E-06	0.00019487839	R_WEEK4vsWEEK0	Endoscopic_Remission
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7.4953484E-06	0.00019584742	R_WEEK4vsWEEK0	Endoscopic_Remission
7.5208924E-06	0.00019585762	R_WEEK4vsWEEK0	Endoscopic_Remission
7.6890722E-06	0.00019990304	R_WEEK4vsWEEK0	Endoscopic_Remission
7.8533636E-06	0.00020383405	R_WEEK4vsWEEK0	Endoscopic_Remission
7.9202573E-06	0.00020522823	R_WEEK4vsWEEK0	Endoscopic_Remission
8.2178108E-06	0.00021223212	R_WEEK4vsWEEK0	Endoscopic_Remission
8.2729435E-06	0.00021330223	R_WEEK4vsWEEK0	Endoscopic_Remission
8.3391915E-06	0.00021430071	R_WEEK4vsWEEK0	Endoscopic_Remission
8.5208173E-06	0.00021824784	R_WEEK4vsWEEK0	Endoscopic_Remission
8.7846094E-06	0.00022463501	R_WEEK4vsWEEK0	Endoscopic_Remission
8.8139619E-06	0.00022501611	R_WEEK4vsWEEK0	Endoscopic_Remission
9.0546646E-06	0.0002304057	R_WEEK4vsWEEK0	Endoscopic_Remission
9.1653929E-06	0.00023284284	R_WEEK4vsWEEK0	Endoscopic_Remission
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9.5886686E-06	0.00024201675	R_WEEK4vsWEEK0	Endoscopic_Remission
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9.8993003E-06	0.00024888055	R_WEEK4vsWEEK0	Endoscopic_Remission
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1.1996033E-05	0.00029189723	R_WEEK4vsWEEK0	Endoscopic_Remission
1.2192341E-05	0.00029621111	R_WEEK4vsWEEK0	Endoscopic_Remission
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1.8506987E-05	0.00042508748	R_WEEK4vsWEEK0	Endoscopic_Remission
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2.5478631E-05	0.00056200951	R_WEEK4vsWEEK0	Endoscopic_Remission
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3.65975E-05	0.00076956628	R_WEEK4vsWEEK0	Endoscopic_Remission
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3.8735544E-05	0.00080861747	R_WEEK4vsWEEK0	Endoscopic_Remission
3.9183942E-05	0.0008168829	R_WEEK4vsWEEK0	Endoscopic_Remission
3.9906636E-05	0.00083083696	R_WEEK4vsWEEK0	Endoscopic_Remission

4.0294501E-05	0.00083779207	R_WEEK4vsWEEK0	Endoscopic_Remission
4.0382286E-05	0.00083806325	R_WEEK4vsWEEK0	Endoscopic_Remission
4.0415174E-05	0.00083806325	R_WEEK4vsWEEK0	Endoscopic_Remission
4.0704769E-05	0.00084294596	R_WEEK4vsWEEK0	Endoscopic_Remission
4.078262E-05	0.00084343657	R_WEEK4vsWEEK0	Endoscopic_Remission
4.1623447E-05	0.00085968427	R_WEEK4vsWEEK0	Endoscopic_Remission
4.173776E-05	0.0008609035	R_WEEK4vsWEEK0	Endoscopic_Remission
4.2250054E-05	0.00086850661	R_WEEK4vsWEEK0	Endoscopic_Remission
4.2593846E-05	0.00087393144	R_WEEK4vsWEEK0	Endoscopic_Remission
4.2979348E-05	0.00088041491	R_WEEK4vsWEEK0	Endoscopic_Remission
4.3022908E-05	0.00088041491	R_WEEK4vsWEEK0	Endoscopic_Remission
4.362043E-05	0.00089147108	R_WEEK4vsWEEK0	Endoscopic_Remission
4.3788758E-05	0.00089373831	R_WEEK4vsWEEK0	Endoscopic_Remission
4.4549101E-05	0.00090806696	R_WEEK4vsWEEK0	Endoscopic_Remission
4.4666071E-05	0.00090926108	R_WEEK4vsWEEK0	Endoscopic_Remission
4.5500619E-05	0.00092504065	R_WEEK4vsWEEK0	Endoscopic_Remission
4.5619526E-05	0.00092624887	R_WEEK4vsWEEK0	Endoscopic_Remission
4.6014965E-05	0.00093179872	R_WEEK4vsWEEK0	Endoscopic_Remission
4.6042693E-05	0.00093179872	R_WEEK4vsWEEK0	Endoscopic_Remission
4.6553226E-05	0.0009403027	R_WEEK4vsWEEK0	Endoscopic_Remission
4.702524E-05	0.00094860631	R_WEEK4vsWEEK0	Endoscopic_Remission
4.7233274E-05	0.00095157021	R_WEEK4vsWEEK0	Endoscopic_Remission
4.7430757E-05	0.00095431418	R_WEEK4vsWEEK0	Endoscopic_Remission
4.8098474E-05	0.00096650004	R_WEEK4vsWEEK0	Endoscopic_Remission
4.8510869E-05	0.0009725855	R_WEEK4vsWEEK0	Endoscopic_Remission
4.8526227E-05	0.0009725855	R_WEEK4vsWEEK0	Endoscopic_Remission
4.9231105E-05	0.00098405548	R_WEEK4vsWEEK0	Endoscopic_Remission
4.928808E-05	0.00098405548	R_WEEK4vsWEEK0	Endoscopic_Remission
4.9524765E-05	0.00098715797	R_WEEK4vsWEEK0	Endoscopic_Remission
4.9570252E-05	0.00098715797	R_WEEK4vsWEEK0	Endoscopic_Remission
5.0278696E-05	0.0009999874	R_WEEK4vsWEEK0	Endoscopic_Remission
5.0374771E-05	0.00100062029	R_WEEK4vsWEEK0	Endoscopic_Remission
5.0448079E-05	0.00100079991	R_WEEK4vsWEEK0	Endoscopic_Remission
5.2900076E-05	0.00104677621	R_WEEK4vsWEEK0	Endoscopic_Remission
5.5114705E-05	0.00108758749	R_WEEK4vsWEEK0	Endoscopic_Remission
5.5172036E-05	0.00108758749	R_WEEK4vsWEEK0	Endoscopic_Remission
5.5545491E-05	0.00109356503	R_WEEK4vsWEEK0	Endoscopic_Remission
5.5641097E-05	0.00109406415	R_WEEK4vsWEEK0	Endoscopic_Remission
5.5752779E-05	0.00109487771	R_WEEK4vsWEEK0	Endoscopic_Remission
5.6741676E-05	0.00111289437	R_WEEK4vsWEEK0	Endoscopic_Remission
5.7486402E-05	0.00112608268	R_WEEK4vsWEEK0	Endoscopic_Remission
5.9354434E-05	0.00115830401	R_WEEK4vsWEEK0	Endoscopic_Remission
6.0144631E-05	0.00117225575	R_WEEK4vsWEEK0	Endoscopic_Remission
6.0629182E-05	0.00118022281	R_WEEK4vsWEEK0	Endoscopic_Remission
6.2215971E-05	0.00120809141	R_WEEK4vsWEEK0	Endoscopic_Remission
6.2527183E-05	0.00121262245	R_WEEK4vsWEEK0	Endoscopic_Remission

6.3174059E-05	0.00122364381	R_WEEK4vsWEEK0	Endoscopic_Remission
6.3728056E-05	0.001232841	R_WEEK4vsWEEK0	Endoscopic_Remission
6.3966559E-05	0.00123591963	R_WEEK4vsWEEK0	Endoscopic_Remission
6.4316047E-05	0.00124011392	R_WEEK4vsWEEK0	Endoscopic_Remission
6.476686E-05	0.00124674203	R_WEEK4vsWEEK0	Endoscopic_Remission
6.501933E-05	0.00125005683	R_WEEK4vsWEEK0	Endoscopic_Remission
6.530098E-05	0.00125392375	R_WEEK4vsWEEK0	Endoscopic_Remission
6.5700782E-05	0.00126004714	R_WEEK4vsWEEK0	Endoscopic_Remission
6.5975181E-05	0.00126375337	R_WEEK4vsWEEK0	Endoscopic_Remission
6.6690062E-05	0.00127587757	R_WEEK4vsWEEK0	Endoscopic_Remission
6.7810827E-05	0.00129572762	R_WEEK4vsWEEK0	Endoscopic_Remission
6.8225754E-05	0.00130205841	R_WEEK4vsWEEK0	Endoscopic_Remission
6.8400695E-05	0.00130379929	R_WEEK4vsWEEK0	Endoscopic_Remission
6.8704551E-05	0.00130799019	R_WEEK4vsWEEK0	Endoscopic_Remission
6.9493888E-05	0.00132140209	R_WEEK4vsWEEK0	Endoscopic_Remission
7.0484875E-05	0.00133698046	R_WEEK4vsWEEK0	Endoscopic_Remission
7.1578828E-05	0.00135607918	R_WEEK4vsWEEK0	Endoscopic_Remission
7.2010461E-05	0.00136259892	R_WEEK4vsWEEK0	Endoscopic_Remission
7.2115166E-05	0.00136292412	R_WEEK4vsWEEK0	Endoscopic_Remission
7.2607617E-05	0.00137056779	R_WEEK4vsWEEK0	Endoscopic_Remission
7.2745386E-05	0.00137150593	R_WEEK4vsWEEK0	Endoscopic_Remission
7.4326619E-05	0.0013979329	R_WEEK4vsWEEK0	Endoscopic_Remission
7.4753512E-05	0.00140426591	R_WEEK4vsWEEK0	Endoscopic_Remission
7.5093761E-05	0.001408958	R_WEEK4vsWEEK0	Endoscopic_Remission
7.5188399E-05	0.00140903602	R_WEEK4vsWEEK0	Endoscopic_Remission
7.532483E-05	0.00140989612	R_WEEK4vsWEEK0	Endoscopic_Remission
7.5516862E-05	0.00141179363	R_WEEK4vsWEEK0	Endoscopic_Remission
7.583234E-05	0.00141599164	R_WEEK4vsWEEK0	Endoscopic_Remission
7.64219E-05	0.00142358642	R_WEEK4vsWEEK0	Endoscopic_Remission
7.6546019E-05	0.00142419493	R_WEEK4vsWEEK0	Endoscopic_Remission
7.8684687E-05	0.00145875789	R_WEEK4vsWEEK0	Endoscopic_Remission
8.3483131E-05	0.00154220973	R_WEEK4vsWEEK0	Endoscopic_Remission
8.3643141E-05	0.00154333487	R_WEEK4vsWEEK0	Endoscopic_Remission
8.4197624E-05	0.00154989315	R_WEEK4vsWEEK0	Endoscopic_Remission
8.6554053E-05	0.00158951211	R_WEEK4vsWEEK0	Endoscopic_Remission
8.7327373E-05	0.00160182472	R_WEEK4vsWEEK0	Endoscopic_Remission
8.7484806E-05	0.00160282457	R_WEEK4vsWEEK0	Endoscopic_Remission
8.7801223E-05	0.00160673143	R_WEEK4vsWEEK0	Endoscopic_Remission
8.8254565E-05	0.00161313185	R_WEEK4vsWEEK0	Endoscopic_Remission
8.8830379E-05	0.00162175322	R_WEEK4vsWEEK0	Endoscopic_Remission
8.8939801E-05	0.00162184956	R_WEEK4vsWEEK0	Endoscopic_Remission
8.9278202E-05	0.0016261163	R_WEEK4vsWEEK0	Endoscopic_Remission
9.0292995E-05	0.00164073488	R_WEEK4vsWEEK0	Endoscopic_Remission
9.0410687E-05	0.00164073488	R_WEEK4vsWEEK0	Endoscopic_Remission
9.0502232E-05	0.00164073488	R_WEEK4vsWEEK0	Endoscopic_Remission
9.0985294E-05	0.00164757439	R_WEEK4vsWEEK0	Endoscopic_Remission

9.2465055E-05	0.00166897824	R_WEEK4vsWEEK0	Endoscopic_Remission
9.2781299E-05	0.00167231849	R_WEEK4vsWEEK0	Endoscopic_Remission
9.3440131E-05	0.00168224642	R_WEEK4vsWEEK0	Endoscopic_Remission
9.4289795E-05	0.00169558311	R_WEEK4vsWEEK0	Endoscopic_Remission
9.4451222E-05	0.00169652697	R_WEEK4vsWEEK0	Endoscopic_Remission
9.5187374E-05	0.00170777992	R_WEEK4vsWEEK0	Endoscopic_Remission
9.6982741E-05	0.00173353532	R_WEEK4vsWEEK0	Endoscopic_Remission
9.7224663E-05	0.00173434098	R_WEEK4vsWEEK0	Endoscopic_Remission
9.8374216E-05	0.00175283943	R_WEEK4vsWEEK0	Endoscopic_Remission
9.8602199E-05	0.00175489376	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00010111612	0.00179553179	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00010145644	0.001799523	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0001023285	0.001811632	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00010237181	0.001811632	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00010271459	0.00181563481	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00010410413	0.00183811061	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0001069475	0.00188404239	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0001106277	0.00194667247	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00011415374	0.0020041896	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00011526664	0.0020191759	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00011587461	0.00202754523	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0001161012	0.00202923014	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00011684188	0.00203760195	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00011735397	0.00204424318	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00011810309	0.00205499368	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00011883433	0.00206536566	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00011896443	0.00206536566	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00011983447	0.00207815387	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00012202724	0.00211382666	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0001226663	0.00212218737	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00012279852	0.00212218737	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00012291871	0.00212218737	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00012351048	0.00212938648	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00012368528	0.00212938648	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00012379554	0.00212938648	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00012434812	0.00213503117	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00012459038	0.00213683478	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00012486258	0.0021391473	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00012609692	0.0021555514	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00012812318	0.00218778756	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00012830301	0.00218845867	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00013241081	0.00224867336	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0001325753	0.00224901438	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00013300841	0.00225381617	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00013640499	0.00230644398	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00013695716	0.00231326881	R_WEEK4vsWEEK0	Endoscopic_Remission

0.00013758727	0.00232139397	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00013789949	0.00232414364	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00013882553	0.00233722168	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00013967595	0.00234899952	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00014002665	0.00235235706	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00014119904	0.00236694584	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00014264303	0.00238858053	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00014286955	0.00238980392	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00014425621	0.00241040979	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00014498295	0.00241769053	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00014500244	0.00241769053	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00014570752	0.00242684831	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00014594167	0.00242815128	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00014766583	0.00245421548	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00014823733	0.00246108734	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00014911869	0.00247308342	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00015301788	0.00253505044	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00015354448	0.00254107147	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00015432847	0.00255133463	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00015597408	0.00257580518	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00015646386	0.00258115652	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00015798997	0.00260357437	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00016133859	0.00265594695	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00016282038	0.00267750972	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00016442952	0.0027011191	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00016952261	0.00278185	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00017314588	0.00283533211	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00017412475	0.00284836626	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00017978922	0.00293254061	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00017986778	0.00293254061	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00018002368	0.00293254061	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00018158027	0.00295172193	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00018238603	0.00296172845	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00018555362	0.00300536268	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00018565202	0.00300536268	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00018611304	0.00300657505	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00018878848	0.00304381279	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00018880904	0.00304381279	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00018999347	0.00305973969	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00019033622	0.00306209288	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00019231958	0.00309080779	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00019285593	0.00309517258	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00019298867	0.00309517258	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00019338685	0.00309836767	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00019451282	0.00311320465	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00019523206	0.00312150813	R_WEEK4vsWEEK0	Endoscopic_Remission

0.00019612803	0.00313261726	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00019884792	0.00316955852	R_WEEK4vsWEEK0	Endoscopic_Remission
0.000200712	0.00319357237	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00020076462	0.00319357237	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0002014453	0.00319967835	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0002015594	0.00319967835	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00020200112	0.00320342229	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00020220665	0.00320342229	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00020460969	0.00323489131	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00020481621	0.00323489131	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00020584409	0.0032478318	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00020663455	0.00325436579	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00020667616	0.00325436579	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00020747024	0.00326356978	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00020790832	0.00326716071	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00020888564	0.00327920981	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00021099794	0.00330903417	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00021555747	0.00337713928	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00021615496	0.00338309661	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00021680972	0.00338993758	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00022182787	0.00346144831	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00022360425	0.00348305606	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00022365993	0.00348305606	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00022584445	0.00351005545	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00022643653	0.00351574887	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00022821417	0.00353782375	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00022831265	0.00353782375	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00023021639	0.00356377725	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00023114241	0.00357455877	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0002317288	0.00358007207	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00023509945	0.00362136864	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00023651932	0.00363963971	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00023706288	0.00364440307	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00023902662	0.00367096807	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00024370839	0.00373550267	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00024610305	0.00376849832	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00024638036	0.00376903859	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00024820369	0.00379320515	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00024880492	0.00379608714	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00024887979	0.00379608714	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00025013338	0.00381147464	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00025146284	0.00382508255	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00025151766	0.00382508255	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00025233069	0.00383370331	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00025467417	0.00386553689	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00025616795	0.00388442397	R_WEEK4vsWEEK0	Endoscopic_Remission

0.00025703074	0.00388885562	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00025716023	0.00388885562	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00025720936	0.00388885562	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00025797135	0.0038928176	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00026015402	0.00391816102	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00026197189	0.00394172775	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00026320177	0.0039564104	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00026492122	0.00397841668	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00026570137	0.00398628847	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00026648571	0.00399420792	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0002677586	0.00400942758	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00026833556	0.00401203839	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00026844821	0.00401203839	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00026901871	0.00401567215	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00026920707	0.00401567215	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00027082828	0.00403598931	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00027123905	0.00403824645	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0002721032	0.00404724276	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00027342214	0.00406297992	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00027640945	0.00410345505	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00027789066	0.00412151541	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00028043961	0.00415141257	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00028290094	0.0041799017	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00028372744	0.00418735526	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00028410831	0.00418735526	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00028448095	0.00418735526	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0002887359	0.00424571327	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00029025065	0.00426020106	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00029081909	0.00426452512	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00029170709	0.00427352259	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00029264888	0.00428329042	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00029341063	0.00429040733	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00029583923	0.00431376805	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00029709023	0.00432795716	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00029881684	0.00434686498	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00029894641	0.00434686498	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00029981362	0.00435540808	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00030087056	0.00436668901	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00030244339	0.00438134969	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0003062451	0.00443230007	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00031031	0.00448696152	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0003117654	0.00450382425	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00031608945	0.00456205836	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00032338915	0.00465877815	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00032484082	0.00467104897	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00032756407	0.00470586276	R_WEEK4vsWEEK0	Endoscopic_Remission

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0.00062201946	0.00796082389	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00062502375	0.00798481936	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00073738236	0.00912093365	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00074934354	0.00923953043	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00075114693	0.00925443923	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00108777992 0.01249262297 R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00293280103	0.02669346019	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00294899337	0.02680950018	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00295078091	0.02681009979	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00296580329	0.02692850169	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00296727085	0.02692850169	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00298026601	0.0270306829	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00298321855	0.02704171274	R_WEEK4vsWEEK0	Endoscopic_Remission

0.00298547292 0.02704640475 R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00305740786 0.0275378905 R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00309152727 0.02778093142 R_WEEK4vsWEEK0	Endoscopic_Remission
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0.0038248965	0.03240756974	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.0038347654	0.03242447318	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00383626918	0.03242447318	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00383995329	0.03242447318	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00384061346	0.03242447318	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00385973255	0.03254707387	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00386161062	0.03254707387	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00386226113	0.03254707387	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00388090177	0.0326688018	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00403137373	0.0335725043	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00416572295	0.03432423466	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00418210172	0.03442276428	R_WEEK4vsWEEK0	Endoscopic_Remission

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0.0042542133	0.03481390635	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00429216223	0.0350324122	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00429693583	0.03504189883	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00533809478	0.04089038364	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00535562196	0.04100447434	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00536341785	0.0410439834	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00537283909	0.04109588562	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00537628543	0.04110205844	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00538001054	0.04111035535	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00539862898	0.04123239292	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00540228392	0.04124008208	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00541702929	0.04133238468	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00542787275	0.04139483957	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00551680884	0.04197032927	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0055254144	0.04201527271	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00555352738	0.042173069	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0055552183	0.042173069	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00560380618	0.04244672783	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00561534428	0.04251227834	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00562116678	0.04253568038	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00563403543	0.04261235251	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00567178911	0.0428770737	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00567548532	0.04288362313	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0056781629	0.04288362313	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00571355685	0.04313001491	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00573800177	0.04325164643	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00577671124	0.04350131729	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00578310925	0.04352844868	R_WEEK4vsWEEK0	Endoscopic_Remission

0.00578824173	0.04354603308	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0058133275	0.04367146604	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00583606677	0.0438000327	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00585735204	0.04393860472	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00586179065	0.04393955263	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00586312145	0.04393955263	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00588458572	0.04405800647	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00593137286	0.04436564341	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00595477392	0.04445868564	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00598933922	0.04469189251	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00599849062	0.04471913583	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00599873337	0.04471913583	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00600772348	0.04476472618	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00601472663	0.04477406203	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0060358381	0.04490975002	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00604522356	0.04493784693	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00604778968	0.04493784693	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00605576352	0.04497205782	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00606085268	0.04498839787	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0060868731	0.04513555419	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00608937259	0.04513555419	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00610037419	0.04519558864	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00610864064	0.04523531182	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0061312933	0.04535991949	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00615020656	0.04547823681	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00616342203	0.04555432906	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00617074091	0.04558223093	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00617597812	0.04558223093	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00618245374	0.04560840931	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00619922601	0.04564979752	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00620129935	0.04564979752	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00620272083	0.04564979752	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00620872245	0.04567238295	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00622635182	0.04574037596	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00623712578	0.04579479478	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00625132368	0.04585580011	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00626427949	0.04592920176	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00627151686	0.04596062686	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00628989819	0.04605199084	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00629713098	0.04608328046	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00630830785	0.04614339037	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00632957436	0.04627721195	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00633364035	0.04628520937	R_WEEK4vsWEEK0	Endoscopic_Remission

0.00635837711	0.04644418703	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00636252059	0.04645266443	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00638220849	0.04657457017	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00639067121	0.04659266045	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00639659773	0.04661404604	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00643254392	0.04681028337	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00648135521	0.0471083822	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00648258287	0.0471083822	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00648658815	0.04711418204	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00652205997	0.0472849348	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00658898306	0.04761495738	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00673563844	0.04833829378	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00673885247	0.04833908318	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00674560771	0.04836526193	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00676093256	0.04845283142	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00684216076	0.0488887932	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00685519325	0.04892483701	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00693419704	0.04935386221	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0069404457	0.04937577016	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00696684211	0.04954092795	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00699566032	0.04970046448	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0070859778	0.05029623163	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00711537695	0.05048189759	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00712264295	0.05051043655	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00712801592	0.05052553111	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00713483146	0.05054250944	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00713690222	0.05054250944	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00714554622	0.05058067039	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00715203469	0.05058067039	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00717084121	0.05065233313	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00717192542	0.05065233313	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00717697373	0.05066500993	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00718687746	0.05068896859	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00720450144	0.05076728547	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00724824697	0.05102097847	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00725033233	0.05102097847	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00726385092	0.05109302188	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00728387757	0.05121075639	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00732838769	0.05145459667	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00733147316	0.05145459667	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00733281265	0.05145459667	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0073535322	0.05157357754	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00738798981	0.05177910227	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00739948903	0.05181305878	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00742074733	0.05192119196	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00742405244	0.05192119196	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00744628093	0.05202374735	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0074730142	0.05218710771	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00748904049	0.05227558386	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00749428136	0.05228632487	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00751556476	0.05238602142	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.007582597	0.05271597457	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00765917333	0.05315343417	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00922447005 0.06097312056 R_WEEK4vsWEEK0	Endoscopic_Remission
0.0092348687 0.06101595686 R_WEEK4vsWEEK0	Endoscopic_Remission

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0.00926645917	0.06112938223	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.0092751047	0.06112938223	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00927687589	0.06112938223	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00927791759	0.06112938223	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00928026468	0.06112938223	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00928343858	0.06112938223	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00933006238	0.06135855633	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00933457671	0.0613623314	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00935469168	0.06146861333	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00951025621	0.06233001005	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00952505563	0.0623725384	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00953457483	0.06238736713	R_WEEK4vsWEEK0	Endoscopic_Remission
0.00955451972	0.06249161514	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.00959969698	0.06269824142	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.01533351738 0.08859282092 R_WEEK4vsWEEK0	Endoscopic_Remission
0.01536025239 0.08868773601 R_WEEK4vsWEEK0	Endoscopic_Remission
0.01548206893 0.08929713314 R_WEEK4vsWEEK0	Endoscopic_Remission
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0.01778370806	0.09819834156	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.01799502915	0.09901940058	R_WEEK4vsWEEK0	Endoscopic_Remission
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0.0181294449	0.0996575522	R_WEEK4vsWEEK0	Endoscopic_Remission
0.01819060861	0.09987372667	R_WEEK4vsWEEK0	Endoscopic_Remission
0.01819299041	0.09987372667	R_WEEK4vsWEEK0	Endoscopic_Remission
0.01819442385	0.09987372667	R_WEEK4vsWEEK0	Endoscopic_Remission
0.01821007936	0.09990497082	R_WEEK4vsWEEK0	Endoscopic_Remission
0.0182239469	0.09993011448	R_WEEK4vsWEEK0	Endoscopic_Remission
0.01824002191	0.09998305566	R_WEEK4vsWEEK0	Endoscopic_Remission
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8.140694E-33	2.5355006E-29	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.3345975E-30	1.3845948E-26	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.2580915E-29	2.7988942E-26	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.066141E-29	9.8618768E-26	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.2939375E-28	2.2389432E-25	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.7356389E-28	1.5161311E-24	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2731331E-27	3.1585675E-24	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.632537E-27	4.3514999E-24	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.36415E-26	2.6297791E-23	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.2867593E-26	3.4123135E-23	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.4374265E-26	7.2389402E-23	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.5137584E-25	3.2188094E-22	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.0237453E-25	6.0767103E-22	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.0307609E-24	1.6644757E-21	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.8217409E-24	2.1971485E-21	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.1763398E-24	2.3554828E-21	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.9111273E-24	3.4764084E-21	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.4493089E-24	4.3667429E-21	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.2944208E-23	8.0913631E-21	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.298941E-23	8.0913631E-21	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.9209839E-23	1.1505955E-20	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2358911E-23	1.2896123E-20	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.1090298E-23	1.7147318E-20	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.5145321E-23	1.8243936E-20	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.2508084E-23	2.1354142E-20	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.7112268E-23	2.280623E-20	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.8327593E-23	2.280623E-20	NR_WEEK12vsWEEK0	Endoscopic_Remission

1.1808508E-22	5.2913058E-20	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.3819525E-22	5.9780963E-20	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.2918354E-22	1.8063987E-19	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.8150521E-22	1.9732844E-19	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.3001231E-21	5.1914915E-19	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.3723168E-21	5.3427723E-19	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6943979E-21	6.4358193E-19	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.82044E-21	6.7499313E-19	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.146159E-21	1.8213894E-18	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.2557753E-21	2.1649153E-18	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.4866644E-21	2.8731049E-18	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.353622E-20	4.4850967E-18	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5405613E-20	4.9981586E-18	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6450217E-20	5.2281474E-18	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.9770262E-20	6.1576457E-18	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.9138809E-20	8.726513E-18	NR_WEEK12vsWEEK0	Endoscopic_Remission
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3.454992E-20	9.9638131E-18	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.9447105E-20	1.1169268E-17	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.095668E-20	1.1389614E-17	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.7972544E-20	1.3106604E-17	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.9465432E-20	1.3281469E-17	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.1169346E-20	1.8785089E-17	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.5849742E-20	1.96868E-17	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.9982056E-20	2.0419026E-17	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.8160371E-19	4.4890707E-17	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.9706496E-19	7.2284259E-17	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.1745584E-19	7.6057534E-17	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.1882993E-19	9.8824826E-17	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.4741096E-19	1.03993E-16	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.4722894E-19	1.6864632E-16	NR_WEEK12vsWEEK0	Endoscopic_Remission
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9.6620362E-19	2.119252E-16	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.9846877E-19	2.1596047E-16	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.2948162E-18	2.7248883E-16	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6181899E-18	3.3437926E-16	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6318515E-18	3.3437926E-16	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.8800865E-18	5.8248814E-16	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.980966E-18	5.9516132E-16	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.9543198E-18	1.3537453E-15	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.2703012E-18	1.7823012E-15	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.010204E-17	1.9185253E-15	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.1006602E-17	2.0651302E-15	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.1970219E-17	2.2191931E-15	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.2458031E-17	2.2824579E-15	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.268834E-17	2.2976223E-15	NR_WEEK12vsWEEK0	Endoscopic_Remission

1.4540723E-17	2.6027895E-15	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5152681E-17	2.6815079E-15	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7269055E-17	3.0216966E-15	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.8893599E-17	3.2138721E-15	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.8986466E-17	3.2138721E-15	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.8272439E-17	4.683901E-15	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.4563765E-17	5.6659106E-15	NR_WEEK12vsWEEK0	Endoscopic_Remission
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7.7950712E-17	1.190124E-14	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.0234921E-16	1.5474604E-14	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.1559853E-16	1.7309769E-14	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5067259E-16	2.2346897E-14	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5279878E-16	2.2448447E-14	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.0230004E-16	2.9170541E-14	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.082611E-16	2.9754589E-14	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.6231107E-16	3.7136093E-14	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.2780436E-16	4.5990066E-14	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.443598E-16	6.1239073E-14	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.5605901E-16	6.2300061E-14	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.7397708E-16	8.9708077E-14	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.1158707E-16	1.0532371E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.1450232E-15	1.4736733E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.5464547E-15	1.9421725E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.7272529E-15	2.1348023E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.3322557E-15	2.837517E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.491772E-15	2.9621653E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.9184361E-15	3.4172034E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.9758349E-15	3.4584087E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.2440482E-15	3.7421898E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.3071455E-15	3.7869248E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.1121975E-15	4.6743979E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.2623294E-15	4.8099461E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.3737421E-15	4.9001644E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.7451489E-15	5.2783002E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.9144049E-15	6.5322715E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.1897994E-15	6.788292E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.0007353E-15	8.7129686E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.7921381E-15	9.4761511E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission

8.823232E-15	9.4761511E-13	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.4454097E-15	1.0074888E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.6087745E-15	1.0179418E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.0979396E-14	1.1552847E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.1134983E-14	1.1637925E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.2045094E-14	1.2495931E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.2176702E-14	1.2495931E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.2196632E-14	1.2495931E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.3979878E-14	1.4229323E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5843934E-14	1.6021921E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.676039E-14	1.6839326E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.9847649E-14	1.9813297E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.0395364E-14	2.0230382E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.1239484E-14	2.0934334E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3099437E-14	2.2605205E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3225022E-14	2.2605205E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.5263447E-14	2.4436501E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.5662471E-14	2.4669239E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.6047322E-14	2.4885579E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.3528815E-14	3.1645105E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.5073794E-14	3.2903867E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.7320623E-14	3.480204E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.0830255E-14	3.7624234E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.1715988E-14	3.8214299E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.4113995E-14	4.0174692E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.4494019E-14	4.0285195E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.7713223E-14	4.2950175E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.0328479E-14	4.5043989E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.5054882E-14	5.7322775E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.5152065E-14	5.7322775E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.8664806E-14	6.007399E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.5474281E-14	6.5662625E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.7947814E-14	6.743785E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.7423084E-14	7.5217662E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.8149347E-14	7.5425812E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.7239937E-14	8.1645856E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.8254902E-14	8.1645856E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.8564316E-14	8.1645856E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.0202759E-13	8.4067494E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.0330902E-13	8.4675337E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.1636183E-13	9.4874492E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.1981128E-13	9.7178182E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.2321919E-13	9.9424476E-12	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.2845367E-13	1.0311387E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.3444209E-13	1.0736752E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.4007585E-13	1.1129598E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission

1.5502979E-13	1.2193328E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5905965E-13	1.2447417E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6229819E-13	1.2558835E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6290276E-13	1.2558835E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.777006E-13	1.3574213E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.778167E-13	1.3574213E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.8663097E-13	1.4177581E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.903822E-13	1.439234E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.0189509E-13	1.5188948E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.0636166E-13	1.5450337E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.224189E-13	1.6559679E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3061631E-13	1.7020796E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.7966777E-13	2.0351711E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.1161486E-13	2.2571061E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.2866761E-13	2.3696022E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.6142171E-13	2.5937421E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.8076542E-13	2.7200275E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.3851907E-13	3.0900713E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.7112803E-13	3.3048995E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.775451E-13	3.3200044E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.803003E-13	3.3243185E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.1800048E-13	3.5536658E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.3534489E-13	3.6565464E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.438359E-13	3.6983216E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.2776172E-13	4.2138505E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.0871569E-13	4.6965232E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.3817542E-13	4.8710194E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.6170306E-13	5.0050641E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.3050193E-13	5.4342045E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.4497753E-13	5.5057887E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.3843133E-13	6.0892463E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.0670859E-12	6.8668299E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.3170859E-12	8.3718281E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.3764407E-12	8.713541E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.4787008E-12	9.2854066E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5340748E-12	9.5944363E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5474001E-12	9.6390649E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5897282E-12	9.8632815E-11	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7219731E-12	1.0580768E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.0000775E-12	1.2166878E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.0651929E-12	1.2514105E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2023424E-12	1.3293441E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission

2.2110832E-12	1.3294672E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.4015365E-12	1.4329168E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.4813731E-12	1.473465E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.4884178E-12	1.473465E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.640877E-12	1.5519388E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
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4.0564739E-12	2.2642103E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
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4.3249269E-12	2.3937574E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
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4.3723168E-12	2.4060102E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.8257306E-12	2.6461656E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
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6.2503194E-12	3.3680355E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.3840137E-12	3.4282154E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.4389142E-12	3.4458148E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.1193944E-11	5.6052507E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.1430005E-11	5.6868841E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.1612912E-11	5.7412023E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.2143868E-11	5.9284154E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.2811833E-11	6.2349585E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.3653312E-11	6.6031995E-10	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.4598967E-11	1.1300286E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.6905115E-11	1.2180039E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
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4.9056306E-11	2.0647401E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.9537804E-11	2.0793861E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission

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5.1913432E-11	2.155861E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.2015095E-10	4.5777286E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.2022674E-10	4.5777286E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.3074768E-10	4.9540966E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.3737418E-10	5.1799714E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.9381981E-10	7.1187638E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.9617649E-10	7.1883681E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.9721682E-10	7.2095246E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission

2.0610435E-10	7.5167751E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.1327325E-10	7.7600567E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.1786796E-10	7.9087593E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2122618E-10	8.011989E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2224386E-10	8.0301708E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3077707E-10	8.3191927E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.363026E-10	8.4791254E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.4301389E-10	8.6998973E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.5324043E-10	9.0452139E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.5849906E-10	9.2119127E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.5990485E-10	9.2408636E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.699323E-10	9.5755256E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.7613879E-10	9.7734305E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.7677243E-10	9.7736442E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.7849491E-10	9.8122199E-09	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.0461573E-10	1.0708309E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.0753569E-10	1.0779974E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.0803882E-10	1.0779974E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.1591302E-10	1.1030748E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.1788616E-10	1.1074813E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.5452306E-10	1.2241658E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.5878728E-10	1.2361492E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.6450673E-10	1.2503223E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.775283E-10	1.2893088E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.8119267E-10	1.2964446E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.8128275E-10	1.2964446E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.9278488E-10	1.3326447E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.9765891E-10	1.3462483E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.9975708E-10	1.3504158E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.324895E-10	1.4515429E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.4928104E-10	1.5046567E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.7472542E-10	1.586459E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.8871466E-10	1.6297116E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.9187267E-10	1.6367378E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.9698964E-10	1.6471308E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.9711133E-10	1.6471308E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.4156271E-10	1.7906064E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.4786821E-10	1.8076169E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.6235987E-10	1.8515075E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.6698393E-10	1.8627934E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.7589175E-10	1.8880763E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.0666313E-10	1.9847825E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.0883219E-10	1.9877031E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.1547515E-10	2.0051871E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.1776837E-10	2.0084565E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.3351087E-10	2.0553468E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission

6.3912736E-10	2.0692579E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.6646385E-10	2.1532866E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.8484104E-10	2.2080806E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.0206837E-10	2.2581972E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.083564E-10	2.2698013E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.353611E-10	2.3514945E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.4776873E-10	2.386271E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.5616994E-10	2.4081461E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.6699422E-10	2.4376329E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.8370056E-10	2.4856556E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.864192E-10	2.4892086E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.007954E-10	2.5278536E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
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8.1311777E-10	2.5581178E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.6572273E-10	2.718125E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.8555935E-10	2.774812E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.8836629E-10	2.7780177E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.0649361E-10	2.8212917E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.0763961E-10	2.8212917E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.1919041E-10	2.8511168E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.2089627E-10	2.8511168E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.2700923E-10	2.8643481E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.6632279E-10	2.9740207E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.0037131E-09	3.0830026E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.0270291E-09	3.1423725E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.0270774E-09	3.1423725E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.0510815E-09	3.2039173E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.0513079E-09	3.2039173E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.0550149E-09	3.2089351E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.0635507E-09	3.2285917E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.0859227E-09	3.2900924E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.1184195E-09	3.3731544E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.1198361E-09	3.3731544E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.126275E-09	3.3860001E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.1425644E-09	3.4283536E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.2264307E-09	3.6729239E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.2957408E-09	3.8730463E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.3050873E-09	3.8935103E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.3407609E-09	3.9922887E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.3572834E-09	4.0337738E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.3695212E-09	4.0623911E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.3929802E-09	4.1241217E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.4966508E-09	4.4142694E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5642223E-09	4.6048457E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5765464E-09	4.6323692E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6077871E-09	4.7152671E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission

1.6131558E-09	4.7221194E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6792844E-09	4.906472E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6856829E-09	4.9159437E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6905983E-09	4.921063E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7242482E-09	5.0096488E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7281868E-09	5.0117418E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7414708E-09	5.0408782E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.758375E-09	5.0803661E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7781907E-09	5.1281045E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7939195E-09	5.1639018E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.816143E-09	5.2182279E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.8517003E-09	5.3010842E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.8787543E-09	5.3684112E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.0883491E-09	5.8933873E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.1132377E-09	5.951076E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.1282719E-09	5.9825953E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.1347384E-09	5.9899606E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.1547125E-09	6.0284203E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.1899913E-09	6.1010257E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.1988833E-09	6.1148588E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2070179E-09	6.12654E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2323846E-09	6.1859298E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2613194E-09	6.2549782E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3429423E-09	6.4692626E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.4007647E-09	6.6054962E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.4161636E-09	6.6361404E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.4533177E-09	6.7263235E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.5062771E-09	6.8594469E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.5358143E-09	6.9259741E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.5394794E-09	6.9259741E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.6316467E-09	7.1647962E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.7077013E-09	7.3589934E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.7912377E-09	7.5728127E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.039827E-09	8.2186157E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.0704357E-09	8.2869837E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.1756775E-09	8.5561982E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.3350624E-09	8.9546426E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.4147183E-09	9.152738E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.4513065E-09	9.2349133E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.5568605E-09	9.5010271E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.6776447E-09	9.7900788E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission

3.6945844E-09	9.8183895E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.711229E-09	9.8458211E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.7205224E-09	9.8536896E-08	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.8599504E-09	1.0205604E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.9340093E-09	1.0383784E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.1146149E-09	1.0842115E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.1413043E-09	1.0887189E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.1457027E-09	1.0887189E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.4388446E-09	1.1578916E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.471875E-09	1.164557E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.8933291E-09	1.2686164E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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5.069785E-09	1.3093161E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.4831182E-09	1.4090528E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.7256579E-09	1.4665406E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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6.4003526E-09	1.6259819E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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7.0392985E-09	1.7640496E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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7.1970065E-09	1.7961375E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.2685156E-09	1.8110815E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.2976332E-09	1.815432E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.6332977E-09	1.8959066E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.660189E-09	1.8995561E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.6907431E-09	1.9041008E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.9871527E-09	1.9712192E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.0048876E-09	1.9724702E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.0466158E-09	1.97962E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.1233506E-09	1.9922038E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.3532835E-09	2.0453724E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.389712E-09	2.0510673E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.4558848E-09	2.0640046E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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8.5843567E-09	2.0888154E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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9.6816776E-09	2.3375623E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.7297922E-09	2.3455426E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.8054455E-09	2.3601268E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.0053127E-08	2.4160084E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission

1.0223295E-08	2.4531181E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.0458666E-08	2.5018865E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.1091939E-08	2.6270565E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.275697E-08	3.0055112E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.7868553E-08	4.0981881E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.861595E-08	4.2570659E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.889393E-08	4.3079821E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.1098621E-08	4.7687783E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.1199571E-08	4.784651E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.15833E-08	4.8642074E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2171162E-08	4.9894726E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2290868E-08	5.009173E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2336261E-08	5.012141E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2756737E-08	5.0923245E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2803041E-08	5.0948602E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.3695653E-08	5.2716057E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3747936E-08	5.2757005E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.4301216E-08	5.3885627E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.4359777E-08	5.3885627E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.4991681E-08	5.5126835E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission

2.5086687E-08	5.525813E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.5147759E-08	5.5314415E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.5513341E-08	5.5926726E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.5520443E-08	5.5926726E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.5533874E-08	5.5926726E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.5727022E-08	5.6270635E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.6096078E-08	5.6997786E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.6696673E-08	5.8065265E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.6772309E-08	5.8148558E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.7012148E-08	5.8587769E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.7233173E-08	5.8985006E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.7977615E-08	6.051325E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.8388843E-08	6.1317539E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.9217603E-08	6.3020185E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.9376431E-08	6.3275125E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.0264338E-08	6.4918256E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.0560433E-08	6.5373299E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.1391577E-08	6.7059126E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.2234371E-08	6.8765185E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.3017879E-08	7.0340277E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.367028E-08	7.163214E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.3822667E-08	7.1819347E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.3850511E-08	7.1819347E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.4116132E-08	7.2284425E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.462383E-08	7.3260448E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.4851703E-08	7.3642547E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.5171739E-08	7.4218089E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.5790243E-08	7.5319116E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.5933335E-08	7.5518196E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.6070197E-08	7.5703662E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.621998E-08	7.585192E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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3.6443417E-08	7.6178972E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.8708295E-08	8.069669E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.8766098E-08	8.0709151E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.8847622E-08	8.0770896E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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4.5183045E-08	9.2461967E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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4.550085E-08	9.2868248E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission

4.6325225E-08	9.4427059E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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4.7004595E-08	9.5437101E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.7873724E-08	9.7075197E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.7971159E-08	9.7146275E-07	NR_WEEK12vsWEEK0	Endoscopic_Remission
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5.0992612E-08	1.0273065E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
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5.1614039E-08	1.0371425E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.2090515E-08	1.0440226E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.4891667E-08	1.0917343E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
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6.2270108E-08	1.2200258E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
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7.1342001E-08	1.3818617E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
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7.1607857E-08	1.3835598E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
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8.5503075E-08	1.6198776E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
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8.8120208E-08	1.6593664E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.7358611E-07	4.5911169E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.8361882E-07	4.7380859E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
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5.7643834E-07	8.9589564E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.7895991E-07	8.9891752E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.8727775E-07	9.1092394E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.8825385E-07	9.1153006E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.9519551E-07	9.186303E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.9717429E-07	9.2077181E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.9972241E-07	9.2378606E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.0735116E-07	9.3461261E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.1481712E-07	9.442354E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.2469196E-07	9.5845594E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.3157101E-07	9.6805663E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.3404825E-07	9.7089807E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.3533016E-07	9.7190536E-06	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.593651E-07	1.0066954E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.683515E-07	1.019416E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.9579452E-07	1.0602356E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.0742785E-07	1.0769085E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.2450257E-07	1.1007491E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.3108705E-07	1.1096704E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.3428946E-07	1.1134459E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.4975682E-07	1.1357941E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.6243674E-07	1.1527599E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.7381195E-07	1.1676912E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.8144545E-07	1.1769294E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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8.0090965E-07	1.2004395E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.0515955E-07	1.2044908E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.2751484E-07	1.2362544E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.2798009E-07	1.2362544E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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8.8880125E-07	1.3219964E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.9507201E-07	1.3300531E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.9660489E-07	1.3310608E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.1591372E-07	1.3584309E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission

9.2511747E-07	1.3707759E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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9.5469441E-07	1.4105746E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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9.6033169E-07	1.4162164E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.7042902E-07	1.4274532E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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9.7509927E-07	1.4315813E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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9.8220718E-07	1.4402931E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.0028366E-06	1.4677796E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.0578306E-06	1.5439172E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.1544851E-06	1.6599167E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.1670763E-06	1.6721157E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.1684779E-06	1.6724915E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.1827678E-06	1.6882899E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.3579685E-06	1.908632E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.3870448E-06	1.9477411E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.39795E-06	1.9612861E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission

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1.4404322E-06	2.0136312E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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4.3234868E-06	5.2234026E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.3283531E-06	5.2252281E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.3394745E-06	5.2338149E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.3421877E-06	5.2338149E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.3755892E-06	5.2659236E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.4765626E-06	5.3832825E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.5236219E-06	5.4356762E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.5477285E-06	5.4604299E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.5940253E-06	5.5075255E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.6339952E-06	5.5511698E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.6564672E-06	5.573802E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.6623017E-06	5.5764996E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.7792462E-06	5.7076074E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.790832E-06	5.7170596E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.8054037E-06	5.7300575E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.8159568E-06	5.7371438E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.8187145E-06	5.7371438E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.9083397E-06	5.8393868E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.9540213E-06	5.8892346E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.9675776E-06	5.9008456E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.0183938E-06	5.9566651E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.022678E-06	5.9572098E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.0280429E-06	5.9590344E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.1362341E-06	6.0826292E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.1613112E-06	6.1076823E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.22941E-06	6.1835689E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.2516937E-06	6.2052068E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.2567305E-06	6.2064492E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.2712319E-06	6.2188556E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.2792229E-06	6.2220339E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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5.3006851E-06	6.2347107E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.3102756E-06	6.2412772E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.393286E-06	6.3340606E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.4354179E-06	6.3787312E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.500047E-06	6.4400174E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission

5.5611613E-06	6.5017991E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.6309554E-06	6.5784598E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.6437143E-06	6.588423E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.7000803E-06	6.640637E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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5.8536117E-06	6.8040711E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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5.8884084E-06	6.8289682E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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5.9854296E-06	6.9250442E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.0049866E-06	6.9425135E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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6.0731417E-06	7.0108996E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.1169238E-06	7.0531226E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.2095675E-06	7.1419199E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.2348845E-06	7.1657459E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.2553999E-06	7.1840224E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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6.3154928E-06	7.2423541E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.3681671E-06	7.2955112E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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6.4819888E-06	7.4109486E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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6.5081268E-06	7.4304295E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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6.7018119E-06	7.6291898E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.7354729E-06	7.6619079E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.7459524E-06	7.6643615E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.7474729E-06	7.6643615E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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6.7725027E-06	7.6815867E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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6.9465421E-06	7.8447063E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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6.9881316E-06	7.8802443E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.006626E-06	7.8953826E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.0149127E-06	7.8959812E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.0661814E-06	7.9395125E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.0804568E-06	7.9498164E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.1001298E-06	7.9661615E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.1830401E-06	8.0533826E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission

7.1913396E-06	8.0568872E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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7.204162E-06	8.0596563E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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7.2560446E-06	8.1002425E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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7.5996561E-06	8.4535317E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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7.684162E-06	8.5353391E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.69666E-06	8.543128E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.728158E-06	8.5719804E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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7.8623705E-06	8.7084421E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.9317752E-06	8.7790715E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.9656093E-06	8.8040412E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.0791426E-06	8.9231552E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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8.1352119E-06	8.9660053E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.2779297E-06	9.1053459E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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8.9275583E-06	9.6996932E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.9360388E-06	9.6996932E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.9379437E-06	9.6996932E-05	NR_WEEK12vsWEEK0	Endoscopic_Remission
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9.3041984E-06	0.0001003878	NR_WEEK12vsWEEK0	Endoscopic_Remission
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9.4830921E-06	0.00010209648	NR_WEEK12vsWEEK0	Endoscopic_Remission

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9.5497024E-06	0.00010263459	NR_WEEK12vsWEEK0	Endoscopic_Remission
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9.707715E-06	0.00010404559	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.0278725E-05	0.0001092632	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.0605943E-05	0.00011219552	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.0640738E-05	0.00011242077	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.0658183E-05	0.00011252873	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.1483923E-05	0.00011994576	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.1494656E-05	0.0001199774	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.1620041E-05	0.00012104274	NR_WEEK12vsWEEK0	Endoscopic_Remission
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1.5534517E-05	0.00015291974	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5572107E-05	0.00015319294	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5712976E-05	0.00015448117	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5767341E-05	0.00015491785	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5832803E-05	0.00015536499	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.586417E-05	0.00015557476	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5933585E-05	0.00015615716	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.5991445E-05	0.00015662564	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6197766E-05	0.00015854671	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6314728E-05	0.00015959124	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6363925E-05	0.00015997201	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6473622E-05	0.00016094336	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6509852E-05	0.0001611962	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6537757E-05	0.00016136748	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6917685E-05	0.0001648071	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.6922015E-05	0.0001648071	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.708403E-05	0.000166281	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7190195E-05	0.00016720981	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7204506E-05	0.00016724455	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7279813E-05	0.00016787182	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7438738E-05	0.00016931014	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7486244E-05	0.0001696297	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7493437E-05	0.0001696297	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7637279E-05	0.00017087268	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7643567E-05	0.00017087268	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7698659E-05	0.0001712997	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.7717081E-05	0.00017137149	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.781003E-05	0.00017216363	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.791207E-05	0.00017293532	NR_WEEK12vsWEEK0	Endoscopic_Remission

1.8079541E-05	0.00017444405	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.8251221E-05	0.00017599149	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.8495982E-05	0.00017813106	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.8517081E-05	0.00017822404	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.8643916E-05	0.00017933398	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.8740993E-05	0.00018015647	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.8924331E-05	0.00018180666	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.9014158E-05	0.00018244454	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.9071966E-05	0.00018288653	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.9130426E-05	0.00018333423	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.9667835E-05	0.00018825273	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.9801938E-05	0.00018941989	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.9837583E-05	0.00018964438	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.9917098E-05	0.00019017104	NR_WEEK12vsWEEK0	Endoscopic_Remission
1.9936627E-05	0.00019024087	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.0019388E-05	0.00019091361	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.0102177E-05	0.00019158581	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.0370473E-05	0.00019378703	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.0451114E-05	0.00019443541	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.0537085E-05	0.0001950388	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.0539628E-05	0.0001950388	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.060191E-05	0.00019551099	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.0732665E-05	0.00019663203	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.0980338E-05	0.0001988599	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.1189399E-05	0.00020059728	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.1389356E-05	0.00020212163	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.1692603E-05	0.00020486289	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.1716926E-05	0.0002049683	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2002313E-05	0.00020753605	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2240654E-05	0.00020953037	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2345759E-05	0.00021039329	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2376128E-05	0.00021055193	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2389819E-05	0.00021055353	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2449744E-05	0.00021098966	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2615174E-05	0.00021228819	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2686572E-05	0.00021282015	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2699177E-05	0.00021282015	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2789813E-05	0.00021354137	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.2838501E-05	0.0002138689	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.298267E-05	0.00021496043	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3095917E-05	0.00021573759	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3107272E-05	0.00021573759	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3108778E-05	0.00021573759	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3121174E-05	0.00021573759	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3157712E-05	0.00021594913	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3190093E-05	0.00021612168	NR_WEEK12vsWEEK0	Endoscopic_Remission

2.326216E-05	0.00021666365	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3398305E-05	0.00021767133	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3591164E-05	0.00021933444	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3637969E-05	0.00021958353	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3646155E-05	0.00021958353	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3792846E-05	0.00022081406	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.3811173E-05	0.00022085252	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.4449974E-05	0.00022623853	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.4504926E-05	0.00022661236	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.4587235E-05	0.00022723858	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.4639989E-05	0.00022759108	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.4706445E-05	0.00022806963	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.4881378E-05	0.00022927675	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.5043792E-05	0.00023063688	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.5551139E-05	0.00023489249	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.5642723E-05	0.00023559536	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.6074638E-05	0.00023940131	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.6087717E-05	0.00023940131	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.612685E-05	0.00023961922	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.6289096E-05	0.00024096533	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.6324722E-05	0.00024114994	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.6463658E-05	0.00024228015	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.6712944E-05	0.00024427521	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.7154819E-05	0.00024802463	NR_WEEK12vsWEEK0	Endoscopic_Remission
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2.9396485E-05	0.0002652326	NR_WEEK12vsWEEK0	Endoscopic_Remission
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3.0614331E-05	0.00027447149	NR_WEEK12vsWEEK0	Endoscopic_Remission
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3.1331424E-05	0.00027961276	NR_WEEK12vsWEEK0	Endoscopic_Remission
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4.6667727E-05	0.00039347943	NR_WEEK12vsWEEK0	Endoscopic_Remission
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4.8818193E-05	0.00040895413	NR_WEEK12vsWEEK0	Endoscopic_Remission
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4.9922629E-05	0.00041730816	NR_WEEK12vsWEEK0	Endoscopic_Remission
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5.1790947E-05	0.00043199808	NR_WEEK12vsWEEK0	Endoscopic_Remission
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5.3803253E-05	0.00044710675	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.389114E-05	0.00044759825	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.40689E-05	0.00044883528	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.4467549E-05	0.0004516642	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.4467692E-05	0.0004516642	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.4713836E-05	0.00045346385	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.4998673E-05	0.00045558209	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.5063003E-05	0.00045587248	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.5107073E-05	0.00045599492	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.5352268E-05	0.00045753762	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.5502009E-05	0.00045853198	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.5564693E-05	0.00045880645	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.5632727E-05	0.00045912478	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.5827193E-05	0.00046048564	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.630553E-05	0.00046418529	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.6706056E-05	0.00046699281	NR_WEEK12vsWEEK0	Endoscopic_Remission

5.7144729E-05	0.00047035669	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.7352172E-05	0.00047181477	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.7667398E-05	0.00047415755	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.800533E-05	0.00047668444	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.8426444E-05	0.00047989188	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.9513734E-05	0.00048779336	NR_WEEK12vsWEEK0	Endoscopic_Remission
5.9746558E-05	0.00048944406	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.0357636E-05	0.00049419004	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.0571591E-05	0.00049568124	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.0610161E-05	0.00049573637	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.0960436E-05	0.00049833957	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.1459557E-05	0.00050189286	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.2289158E-05	0.00050813466	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.2917321E-05	0.00051272184	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.3165658E-05	0.00051447636	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.3488696E-05	0.00051656712	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.4300269E-05	0.00052289718	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.4449794E-05	0.00052383958	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.4590767E-05	0.00052471154	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.5182586E-05	0.00052896738	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.5225251E-05	0.00052903793	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.6246358E-05	0.00053662128	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.626358E-05	0.00053662128	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.660126E-05	0.00053907558	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.6693081E-05	0.00053953836	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.7202535E-05	0.00054337751	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.8234299E-05	0.0005514337	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.8281925E-05	0.00055153237	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.833133E-05	0.00055164531	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.9465931E-05	0.00056051448	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.9612129E-05	0.00056116167	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.9618208E-05	0.00056116167	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.9692001E-05	0.00056125147	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.9701429E-05	0.00056125147	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.9842162E-05	0.00056209405	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.0357491E-05	0.00056594897	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.0733897E-05	0.00056848207	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.0745409E-05	0.00056848207	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.1018474E-05	0.00057008799	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.1304841E-05	0.00057209186	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.1386101E-05	0.00057215427	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.1731773E-05	0.00057462906	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.189671E-05	0.00057565422	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.2292826E-05	0.00057852836	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.2416201E-05	0.00057870761	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.2420508E-05	0.00057870761	NR_WEEK12vsWEEK0	Endoscopic_Remission

7.2426708E-05	0.00057870761	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.2466127E-05	0.00057872564	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.36908E-05	0.00058820442	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.3836136E-05	0.00058906257	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.4138724E-05	0.00059117376	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.4758516E-05	0.00059520162	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.5286492E-05	0.00059909889	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.5409971E-05	0.00059977501	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.5549303E-05	0.00060027005	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.6103197E-05	0.00060436262	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.6449311E-05	0.00060680179	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.6566354E-05	0.00060742121	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.6886972E-05	0.00060965418	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.7395506E-05	0.00061337415	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.7445646E-05	0.00061345933	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.7550704E-05	0.00061397921	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.7756823E-05	0.00061529828	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.8240903E-05	0.0006185003	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.8388453E-05	0.0006193523	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.8643294E-05	0.00062085383	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.865823E-05	0.00062085383	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.9353608E-05	0.0006260252	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.0710383E-05	0.00063572719	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.0794166E-05	0.00063572719	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.0828346E-05	0.00063572719	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.0930949E-05	0.00063621285	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.1291357E-05	0.00063872367	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.1577191E-05	0.00064064629	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.1665477E-05	0.00064101637	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.2005686E-05	0.00064303854	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.2994445E-05	0.00065046426	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.323721E-05	0.00065203877	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.388581E-05	0.0006567892	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.4141914E-05	0.00065846333	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.4650509E-05	0.0006617783	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.5306354E-05	0.00066623663	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.5947939E-05	0.00067077911	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.5974128E-05	0.00067077911	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.6662287E-05	0.00067547137	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.7294395E-05	0.00068005784	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.7974104E-05	0.00068501036	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.8205124E-05	0.00068646597	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.8526303E-05	0.00068862144	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.8860114E-05	0.00069087297	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.9935553E-05	0.00069888541	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.0268471E-05	0.00070093767	NR_WEEK12vsWEEK0	Endoscopic_Remission

9.0289666E-05	0.00070093767	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.0723202E-05	0.00070395238	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.1598887E-05	0.00071037243	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.1687445E-05	0.00071037243	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.1863361E-05	0.00071138146	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.2316139E-05	0.00071453243	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.2733515E-05	0.00071740637	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.2822919E-05	0.00071774147	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.4333144E-05	0.0007290571	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.4680449E-05	0.00073137829	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.5421118E-05	0.00073673429	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.5614127E-05	0.00073785867	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.5706368E-05	0.00073809378	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.5739384E-05	0.00073809378	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.5842124E-05	0.00073852024	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.839462E-05	0.00075781376	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.8540114E-05	0.00075855917	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.8638564E-05	0.00075894187	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.9255644E-05	0.00076331266	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010063888	0.00077258237	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010065945	0.00077258237	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010109016	0.00077516166	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010109506	0.00077516166	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010133136	0.0007765912	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010138663	0.00077663257	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010157962	0.00077772833	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010184377	0.00077936758	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010213494	0.00078121188	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010238952	0.00078277469	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010297301	0.00078684922	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010366972	0.00079178445	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0001043164	0.00079633297	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010528532	0.00080328633	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010533042	0.00080328633	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010586903	0.00080699872	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010803567	0.00082311133	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010825999	0.00082441703	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010838008	0.00082492814	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010876322	0.00082743995	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00010971368	0.00083385613	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00011088174	0.00084191195	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00011162511	0.00084714323	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00011172477	0.00084748654	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0001117933	0.00084759351	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00011190012	0.00084799051	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.000112896	0.00085470561	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00011330678	0.00085739869	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00011357019	0.00085897452	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0001139575	0.00086148553	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00011456084	0.00086562637	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00011519329	0.00086998309	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00011566685	0.00087313613	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00011579825	0.00087370454	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00011592616	0.00087424607	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00011689725	0.00088114274	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00011706163	0.00088195492	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00011736389	0.00088380457	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00011786579	0.0008871551	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00011874551	0.00089334481	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00011948838	0.00089806589	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012006822	0.00090155371	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012046688	0.00090411116	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012098425	0.00090689387	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012101236	0.00090689387	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012315653	0.00092207529	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012347421	0.00092356577	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012387317	0.00092610508	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012402691	0.00092680951	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012478244	0.00093156133	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012546605	0.00093621597	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012571071	0.0009375924	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012583987	0.00093797732	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012588278	0.00093797732	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012644426	0.00094126023	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012816062	0.00095358113	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012911157	0.00096019795	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013018498	0.00096725703	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013180088	0.00097832942	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013207511	0.00097989792	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013228564	0.00098099249	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013269487	0.00098355887	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013301688	0.00098547666	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013326243	0.00098682633	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013376362	0.00099006696	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013438718	0.00099373771	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013601158	0.00100527209	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.000136861	0.00101107039	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013750484	0.00101534512	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013760486	0.00101560213	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013774318	0.00101614143	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013821453	0.00101913581	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013991357	0.00103068779	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00014058789	0.00103516561	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00014248394	0.00104863063	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00014345329	0.00105476772	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00014456259	0.0010619213	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00014604296	0.0010718889	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00014605717	0.0010718889	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0001465402	0.00107492728	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00014816549	0.00108582646	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00014930804	0.00109345498	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0001501747	0.00109899931	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015062277	0.00110176061	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015158274	0.00110768416	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015164597	0.00110768416	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015177178	0.00110808339	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015236478	0.00111189159	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015246328	0.00111208932	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015332509	0.00111717475	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015337569	0.00111717475	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015524654	0.00112974419	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015531897	0.00112974419	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015579677	0.00113269051	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015710595	0.0011413183	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015713006	0.0011413183	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015796101	0.00114681905	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015915908	0.00115497876	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015927099	0.00115525251	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015938209	0.00115552014	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015972084	0.00115725319	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00016109597	0.00116631682	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0001618728	0.00117087289	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00016187564	0.00117087289	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0001619586	0.00117092912	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0001623429	0.0011731629	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0001633521	0.00117990826	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00016376398	0.00118233495	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00016478067	0.00118912391	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00016558751	0.00119439288	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00016567586	0.0011944769	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00016620636	0.00119774714	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00016701314	0.00120300442	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00016776639	0.00120787145	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00016978755	0.0012218584	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00016989382	0.00122205839	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00017058846	0.00122592248	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00017162926	0.00123283322	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00017217011	0.00123614804	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00017251907	0.0012380827	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00017325037	0.00124275821	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00017337633	0.00124308914	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00017379032	0.0012449111	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00017639454	0.00126124527	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00017672429	0.00126302311	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00017893893	0.00127826423	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00017943151	0.00128060809	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00017952404	0.0012806816	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00018000392	0.00128351699	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00018058799	0.00128709236	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00018184815	0.00129548088	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00018246239	0.00129926237	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00018291513	0.00130189094	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00018403518	0.00130866662	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00018478371	0.00131338968	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00018542566	0.00131735121	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00018578904	0.00131933092	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00018624413	0.00132195985	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00018691091	0.00132608817	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00018704019	0.00132640115	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00018881478	0.00133776733	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00018909908	0.00133917233	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00018935647	0.0013403856	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00018982471	0.00134308962	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00019096229	0.00135052489	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00019142247	0.0013531648	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00019163335	0.00135404089	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00019174919	0.00135424495	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00019238055	0.00135808807	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00019247649	0.00135814967	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00019384112	0.00136715934	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00019494594	0.00137378737	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00019506846	0.00137378737	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0001950973	0.00137378737	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00019513374	0.00137378737	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00019545779	0.001375447	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00019673557	0.00138324672	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00019682406	0.00138324672	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00019683264	0.00138324672	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0001973724	0.00138641422	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00019937916	0.00139987902	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00020247992	0.00142100935	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00020407295	0.00143089962	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0002054016	0.00143956757	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00020713957	0.00144960047	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00020720546	0.00144960047	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00020974299	0.00146669405	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00021067891	0.00147191687	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00021269098	0.00148530791	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00021285751	0.0014858046	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00021445957	0.00149631671	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00021478048	0.00149788465	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00021501643	0.00149838002	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00021504394	0.00149838002	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00021584883	0.00150331565	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00021632742	0.0015056373	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00021637554	0.0015056373	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00021781781	0.00151446908	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00021783926	0.00151446908	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00021794946	0.0015145591	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00021825505	0.00151600622	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00021857129	0.00151752596	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00021916467	0.00152096766	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00022359251	0.00154865601	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0002237223	0.00154865601	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00022375111	0.00154865601	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00022507912	0.00155673152	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00022511779	0.00155673152	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00022572317	0.00156022502	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00022607476	0.00156196198	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00022894602	0.00158109818	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00023110842	0.00159517969	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00023118992	0.00159517969	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00023141928	0.00159605509	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00023187807	0.00159851139	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00023237014	0.00160045293	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00023242842	0.00160045293	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00023246802	0.00160045293	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00023380181	0.00160821361	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00023462223	0.00161314437	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00023570732	0.00161988968	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00023630404	0.00162256602	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00023630513	0.00162256602	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00023813316	0.00163367739	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0002399265	0.00164497459	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00023999116	0.00164497459	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00024138665	0.00165381186	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00024150229	0.00165387651	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00024195319	0.00165623603	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00024304913	0.00166154699	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00024419597	0.00166792277	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00024564773	0.00167710308	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00024625111	0.00168048577	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00024648753	0.00168062625	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00024782118	0.00168897996	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00024815284	0.00169050054	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00024842531	0.00169161669	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00024901507	0.00169489149	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00024918166	0.00169493491	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00024923913	0.00169493491	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00024982226	0.00169741797	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00025404632	0.00172086271	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00025589439	0.00173262753	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0002571671	0.00174048816	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00027241744	0.00182899599	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00027287899	0.00183091102	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00027324091	0.00183239168	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0002735345	0.00183294012	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00027377868	0.00183378724	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00027455979	0.00183743863	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00027716496	0.00185328033	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00027829961	0.00185927062	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.00041705167	0.00263371682	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00041857615	0.00264120194	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00042292307	0.00266382198	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00042370995	0.00266603434	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00042940781	0.00269770872	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00043112334	0.0027050297	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00043247201	0.00271130703	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00043842765	0.0027442258	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00044077734	0.00275561037	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0004419411	0.00276057026	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0004421025	0.00276057026	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00044496805	0.0027751251	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00044595214	0.00277792509	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0004483165	0.00278881018	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00044831695	0.00278881018	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00044953528	0.00279465585	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0004498411	0.00279496768	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00045017707	0.00279529805	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00045068655	0.0027973462	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00045204325	0.00280464919	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00046430398	0.0028764154	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00046434909	0.0028764154	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00046480262	0.00287808001	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00046646552	0.00288608165	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00046779979	0.00289184772	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00046800588	0.00289184772	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00046814025	0.00289184772	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00046936179	0.00289709521	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0004728977	0.00291776383	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00047390773	0.00292283768	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00047695041	0.00293927531	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0004810947	0.00296364229	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00048487903	0.00298459335	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0004868932	0.0029958071	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00048842454	0.00300404242	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00048936947	0.00300866591	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00049080836	0.00301632146	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0004928784	0.0030266543	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00049408107	0.00303164873	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00050022251	0.00306691543	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00050390299	0.00308705003	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00050874535	0.00311304178	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00050909178	0.00311393805	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00050964788	0.00311489266	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0005111742	0.00312299559	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00051193777	0.0031264341	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00051344373	0.00313440186	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00051400239	0.00313658275	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00051667269	0.00315040869	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0005179174	0.0031567623	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00052000921	0.00316827206	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00052047311	0.0031698583	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00052374243	0.00318781728	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00052383127	0.00318781728	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00052488638	0.00319299047	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00052601977	0.00319863563	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00052639996	0.00319969812	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00052798178	0.00320806097	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00052956409	0.00321516628	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00053201013	0.00322875829	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00053593846	0.00325006606	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00053862231	0.00326507016	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0005405904	0.00327572538	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00054249073	0.00328596196	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00054301418	0.00328785377	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00054851342	0.00331599361	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0005488086	0.00331649062	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00054925897	0.00331702919	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00055194348	0.00333026574	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00055485459	0.00334523833	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00055591129	0.0033503121	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0005590689	0.00336803869	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00057510262	0.00346195325	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00057682085	0.00347094065	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00057704137	0.00347094065	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00057815392	0.00347564841	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00057827041	0.00347564841	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00057850945	0.00347574369	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00058167425	0.00349083613	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00058190493	0.00349083613	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0005819181	0.00349083613	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00058304596	0.00349625517	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00058688611	0.00351792815	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00058777971	0.00352192896	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0005897009	0.00353208161	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00059094732	0.00353818629	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00059128013	0.0035388184	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00059320621	0.00354898206	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00059470757	0.0035565979	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00059538236	0.0035592666	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00059640431	0.00356400779	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00059674869	0.00356469789	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00059698258	0.00356472762	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00059886425	0.00357459295	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00059944348	0.00357667943	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00060044368	0.00357979043	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00060065449	0.00357979043	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00060107831	0.00358094589	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00060625081	0.00361038008	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00060807411	0.00361985402	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00061309799	0.00364558038	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00061508506	0.00365460498	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00061852615	0.00367224844	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00062048389	0.00368246784	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00062420243	0.00370312548	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00062479105	0.00370451487	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00062491238	0.00370451487	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00062755008	0.00371873569	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00062854493	0.00372179855	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00062963944	0.0037268624	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00063232849	0.00374135697	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00063486465	0.00375351068	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00063804713	0.00377089484	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00063906889	0.00377550069	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00064343581	0.00379636936	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00064357639	0.00379636936	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00064397161	0.00379726233	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00064443663	0.00379856609	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00064476573	0.00379906802	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00064766877	0.0038118465	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0006484976	0.00381384184	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00065315208	0.00383906435	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00065327943	0.00383906435	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0006711687	0.00393528242	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00067203039	0.00393885183	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00067504637	0.00395504029	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00067551886	0.00395535492	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00067560804	0.00395535492	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00068100556	0.00398096832	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00068229151	0.00398623918	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00068445998	0.00399292344	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0006844807	0.00399292344	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00068458907	0.00399292344	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00069222641	0.00403444682	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00069607836	0.00405386248	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00069747154	0.00406045767	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00072353242	0.00419492569	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00072533068	0.00420222274	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00073499197	0.0042502896	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00073717111	0.00425972752	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00074013504	0.00427368299	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00074402181	0.00429294246	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0007449604	0.00429676603	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00074589157	0.00430054404	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00074621111	0.00430079406	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00075308308	0.00433719037	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0007569463	0.00435188193	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00075695395	0.00435188193	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00075703128	0.00435188193	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00076045386	0.00436994387	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00076266409	0.00438102835	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00077257166	0.00443140275	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00078036667	0.00446624411	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00082395624	0.00468815146	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00083661261	0.00475321715	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0008377051	0.00475595391	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00084706435	0.00479859337	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00085078492	0.0048126675	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00086454155	0.00488516167	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.00086787122	0.00489756095	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00086799385	0.00489756095	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00087184654	0.00491573721	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00087411399	0.00492520123	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00087572	0.00493221976	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00087997478	0.00494723729	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0009298894	0.00518852296	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00093292575	0.00520173743	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00093512117	0.00520838412	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00093558246	0.00520909034	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00094642743	0.00525631753	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00094761058	0.00526101234	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00094821072	0.00526246814	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00094991865	0.00526819201	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00095047907	0.00526942348	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0009510463	0.00527069182	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.00098043025	0.00541426961	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00099079299	0.00546568161	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00099646282	0.00549501257	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00099785754	0.0055007559	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00099925194	0.00550649343	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00100192651	0.00551927893	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00100597583	0.00553962573	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00101185079	0.00557000791	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00101508653	0.00558387231	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00101555487	0.00558447597	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00102451311	0.00562777519	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0010300693	0.00565231473	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00103203996	0.00565914022	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00103265862	0.00566053947	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00103625307	0.00567824387	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00103855381	0.00568884927	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00103919663	0.00569036889	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00104172343	0.00570219998	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00104337141	0.00570921399	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00104577113	0.00572033501	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00105230225	0.00575000104	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00105357221	0.00575492106	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00106088606	0.00579283965	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00106369722	0.00580559792	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00106396818	0.00580559792	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00106690631	0.0058195909	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00106784567	0.00582267528	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00107110325	0.00583635089	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.001071847	0.00583836073	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00108248416	0.00588932631	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00108262275	0.00588932631	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00108581809	0.0059038547	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00108642493	0.0059038547	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0010865246	0.0059038547	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00109061666	0.00592402275	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00109643857	0.00594957965	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00109710532	0.00594957965	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00109723192	0.00594957965	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00110045192	0.00596288716	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00110129471	0.00596537827	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00110507151	0.0059816749	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00110843616	0.00599780277	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00111214125	0.00601545045	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0011128564	0.00601545045	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00111337375	0.00601615871	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00111427895	0.00601896153	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00112093222	0.00605070278	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00112818799	0.00608565003	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00113144153	0.0061010869	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00113492238	0.00611773838	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00114239802	0.0061554874	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00114271586	0.0061554874	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00114562849	0.00616904305	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00114730868	0.0061759551	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00114978175	0.00618712897	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00115609195	0.00621893608	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00115947224	0.00623496589	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00116104985	0.00623977744	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00116138344	0.00623977744	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00116156905	0.00623977744	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0011704919	0.00628120964	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00117464163	0.00629868932	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00117496259	0.00629868932	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00117587199	0.00630139522	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00117740711	0.00630528227	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00117813749	0.00630702477	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00118566902	0.00634298305	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00118831212	0.00635493979	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00118908624	0.00635689668	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0011923599	0.00637207282	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00119308658	0.00637207282	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00119315253	0.00637207282	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00120339945	0.00642459364	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00120536587	0.00643288646	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00120771314	0.00644320545	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0012085512	0.00644487042	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00120885292	0.00644487042	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00120960646	0.00644621074	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00120993219	0.00644621074	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0012109953	0.00644966822	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00121614783	0.00647489579	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00121854748	0.00648545451	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00122290811	0.00650643934	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0012259333	0.00652030714	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00122650424	0.0065211166	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00123016712	0.00653835924	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00123073184	0.00653912894	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00123375941	0.00655297931	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00123686837	0.00656725235	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00124119803	0.00658799486	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00124508849	0.00660414274	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00125675018	0.00666372846	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00125826567	0.00666747858	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00125831372	0.00666747858	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00126580444	0.00670142498	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00126601119	0.00670142498	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00127841868	0.00676480261	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00128191113	0.00678097897	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00128794528	0.00681058468	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00130073193	0.00687586501	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00130245438	0.00688238917	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00130285002	0.00688238917	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00131119716	0.00692413476	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00131197027	0.00692586881	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00131503262	0.00693968245	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00131554154	0.0069400164	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00132180979	0.00696836286	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00132408995	0.00697802124	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00132482105	0.00697951223	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00132735782	0.00699051175	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00132896591	0.00699627918	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00132935145	0.00699627918	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00133032955	0.00699849896	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00133194026	0.00700280405	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00133620254	0.00702284246	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0013377103	0.00702602445	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00134016158	0.00703652608	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00135915103	0.00713142151	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00136072447	0.00713727252	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00136334232	0.00714859593	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00136404533	0.00714987475	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00136518053	0.00715341736	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00137061304	0.00717705344	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00137319637	0.00718816374	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00137724154	0.00720449529	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00138528513	0.0072441388	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00138778753	0.00725478859	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00138891831	0.00725826338	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00139039363	0.00726353571	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00139688523	0.00729255573	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00140609058	0.00733815303	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00140929858	0.00735243111	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00141268398	0.0073676248	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00141395335	0.00737177621	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00141709922	0.00738076463	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00143256728	0.00745634033	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.001435132	0.00746719368	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00143580484	0.00746819932	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00143864756	0.00747885256	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00143881348	0.00747885256	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00144058076	0.00748554026	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00144122012	0.00748636454	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00144848533	0.00752159455	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00144897211	0.00752161423	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0014495899	0.00752231375	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0014557661	0.00755184724	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00146254138	0.00758446782	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00147778857	0.00765843641	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.001483227	0.00767642233	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00148349668	0.00767642233	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0014843721	0.00767642233	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00148458332	0.00767642233	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00148470969	0.00767642233	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00148562221	0.00767859101	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00148948736	0.00769346159	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00149131963	0.00770037155	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00149546881	0.00771923624	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00149759831	0.00772766682	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00150557948	0.00776627667	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00152242421	0.0078427761	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00153457552	0.00790014698	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00153802525	0.00791528989	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00154069479	0.00792640897	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00154818419	0.00795705362	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00155498761	0.00798674868	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00155927995	0.00800229572	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00156110489	0.00800760421	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00157104109	0.00805326628	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00157533602	0.00807262516	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00157684158	0.00807768224	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00159605664	0.00817342651	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.00160337892	0.0082055274	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00161425538	0.00825847536	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00162217665	0.00829627485	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00162458512	0.00830586479	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00162673415	0.00831412237	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00162793944	0.00831482482	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00163695675	0.00835540067	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00163762376	0.00835606645	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0016516649	0.00842089389	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00165217359	0.00842089389	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00165632334	0.00843765896	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00165962042	0.00845169026	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00166288562	0.00846555009	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00166483978	0.00847272875	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00167355545	0.00851173415	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00168380277	0.00856084249	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00169396893	0.0086097187	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00169923994	0.0086336912	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00170035528	0.00863654036	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00170681459	0.0086665222	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00170816278	0.00867054075	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00171438939	0.00869931115	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00171558687	0.00870255188	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00171821474	0.00871304398	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00172087548	0.00872369592	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00172237862	0.00872847452	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0017327229	0.00877518493	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00173486054	0.0087831545	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00174114107	0.00880872005	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0017416227	0.00880872005	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0017422242	0.00880872005	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00174263939	0.00880872005	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00174273849	0.00880872005	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00175823715	0.00888129329	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00176037226	0.00888919493	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00176141486	0.00889042533	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00176686205	0.00891102779	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00176698477	0.00891102779	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00177838032	0.00896559298	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.001787567	0.00900607601	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00178992599	0.00901504447	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00179458764	0.00903172867	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00180453751	0.00907396276	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00181629835	0.00912132029	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00181774378	0.00912563634	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00182247844	0.00914645723	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00182314547	0.0091468571	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00182733089	0.00916490303	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00182992935	0.00917202761	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00183503315	0.00919169229	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00184028741	0.00921290925	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00184045211	0.00921290925	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0018416781	0.00921608387	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00184888996	0.00924920123	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00185765507	0.00928852007	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00185794259	0.00928852007	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00186186973	0.00930218072	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00188154256	0.00939366055	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0018819894	0.00939366055	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00188597826	0.00941055414	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00188703629	0.00941281745	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00190706873	0.00950665216	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00191249969	0.00953067444	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00191564783	0.00954330892	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00192913327	0.00960741684	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00193017056	0.00960748134	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00193038009	0.00960748134	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00193700707	0.00963738372	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00194095555	0.00965394468	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00194453237	0.00966864708	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00194680116	0.00967336277	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00194695588	0.00967336277	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00194734427	0.00967336277	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00195778959	0.00972214836	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00196377257	0.0097467704	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00196759019	0.0097614788	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0019697662	0.00976916211	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00197213714	0.00977469499	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00197561619	0.00978882308	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00197702142	0.00979267002	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0019810757	0.00980963175	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00198431315	0.00982253932	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00198782438	0.00983679347	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00199019012	0.00984268768	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00199027955	0.00984268768	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00199214707	0.00984768233	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00199255423	0.00984768233	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00199753314	0.00986614758	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00199755752	0.00986614758	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00200069532	0.00987851242	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00200209283	0.00988206308	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00200268356	0.00988206308	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00200471019	0.00988892992	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00200686313	0.00989364848	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00200693736	0.00989364848	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00202536954	0.00997504105	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00203419958	0.0100121966	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00203510952	0.01001351045	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00204906227	0.01007579627	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00205644072	0.01010569623	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00207040147	0.01017109217	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00207328711	0.01018205618	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00208210213	0.01022212373	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00209316131	0.01027318031	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00209534356	0.01027630562	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00209568895	0.01027630562	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00209577773	0.01027630562	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00211875454	0.01037590075	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00213236556	0.01043927344	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00213365274	0.01044142546	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0021341461	0.01044142546	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00213514329	0.0104422159	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00213564873	0.0104422159	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00214021691	0.01046126739	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00214132403	0.01046339476	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00214311636	0.01046886795	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00216356289	0.01056543268	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00216744128	0.01058105423	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00217987445	0.01063508296	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00218636935	0.01066342936	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00219059539	0.01068069567	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00219554452	0.01069812728	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00219658714	0.01069985973	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00221155492	0.0107694011	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00221291348	0.01077264821	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00221423718	0.01077572363	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00221855698	0.01079337328	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00222322018	0.01081268205	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00223109039	0.01084757121	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00223940205	0.01088458429	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00224088274	0.0108883828	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00224178589	0.01088937355	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00224670762	0.01090987768	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00226115939	0.01097663191	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.002267744	0.01100516589	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00227446611	0.01103360425	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00227502108	0.01103360425	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00228459276	0.01107657629	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00229020781	0.01110034428	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00229123586	0.0111010493	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00229177894	0.0111010493	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00230107664	0.01114262019	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00230408349	0.01115371222	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00231563192	0.01120613299	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00231672201	0.01120792539	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00231828877	0.01120820255	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0023183939	0.01120820255	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00232174903	0.01121518368	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00232182317	0.01121518368	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00234905634	0.01133618046	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00235146249	0.0113407635	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00235307452	0.01134502462	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00235517605	0.0113514236	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00237569029	0.01144343486	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00238879493	0.01150300044	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00239519756	0.01152661858	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00239588623	0.01152661858	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00239956078	0.01154056824	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.002405666	0.0115653425	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00240619725	0.0115653425	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00240931082	0.01156546052	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00240996246	0.01156546052	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00241018005	0.01156546052	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00241033336	0.01156546052	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00241591298	0.01158700732	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00242318931	0.01161832734	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00242454073	0.01162122893	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00242564958	0.01162296642	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00242672862	0.01162456008	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00243652773	0.01166791095	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00244037202	0.01168272778	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00244190462	0.01168647226	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00244386918	0.01169228103	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00244726254	0.01170492	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00245543928	0.01174042244	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00246471293	0.01178114626	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00247319138	0.0118180452	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.0024813499	0.01185339324	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00248814519	0.01188220945	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00249296874	0.01190159478	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00249589232	0.01191190043	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00249772247	0.01191698285	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00250452949	0.01194580023	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00251412442	0.01198055681	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00251834088	0.01199697845	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00252051392	0.01200365847	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00252406614	0.01201690065	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00253280207	0.01205112333	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00253548774	0.01206021704	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00253985198	0.01207728697	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00254419398	0.0120942408	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00254531934	0.01209589811	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0025496278	0.01211267653	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00255613485	0.01213618539	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00255879766	0.01214512523	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00256201328	0.01215668277	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00256542818	0.0121654729	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00257212972	0.01219353916	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00258400013	0.01224608459	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00259269478	0.01227981626	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00261510657	0.01237091573	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00262033966	0.01239190693	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00263434798	0.01245437192	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00265139882	0.01253117872	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00265943411	0.01256534203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00266048525	0.01256649582	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00267243106	0.01261909305	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0026733433	0.0126195742	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00267978692	0.01264615811	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00268712934	0.01267339455	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00268798443	0.01267339455	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00268799988	0.01267339455	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00269726727	0.01271323946	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0027425543	0.01289228419	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0027428905	0.01289228419	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00274336769	0.01289228419	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00274353238	0.01289228419	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00274448169	0.01289285473	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0027476236	0.01290372207	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0027515593	0.01291782962	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00275372001	0.01292066335	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0027549211	0.01292240553	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00276210647	0.0129522084	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0027651118	0.01296239795	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0028249265	0.01321892437	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00285867205	0.01336880517	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00285867342	0.01336880517	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00287361403	0.01343464163	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00287672442	0.01343932894	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00287720559	0.01343932894	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00288386016	0.01346637308	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00288485509	0.01346698092	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00288578123	0.01346726733	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00292873688	0.01363504316	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00292961556	0.01363505771	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00293068793	0.01363597344	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0029840479	0.01386353758	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00298649375	0.0138685552	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00298690902	0.0138685552	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00299488255	0.0138937297	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00299500742	0.0138937297	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00299850737	0.01390582347	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00301639286	0.01397628265	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00307235649	0.01417332158	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00307257007	0.01417332158	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00308432862	0.01421072475	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00311569757	0.01432981636	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00313284	0.01439069056	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00315772489	0.01446756389	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00316030261	0.01447193355	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0032269994	0.01472078312	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00322717226	0.01472078312	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00325418734	0.01482230461	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00328808288	0.01495043507	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00333303413	0.01511512535	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00333607802	0.01512452491	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00334359872	0.01515420923	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00335931603	0.0152141061	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00335974513	0.0152141061	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00337884892	0.01529616693	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00338166401	0.01530446198	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00338468677	0.01531369177	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00338573636	0.01531399138	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00339222066	0.01533886538	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00339531858	0.0153477025	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00339709525	0.0153477025	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00339713161	0.0153477025	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00340079504	0.01535534393	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00340536073	0.01537150221	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00342448171	0.01544885681	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00342701294	0.01545579859	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00342841323	0.01545763729	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00343838666	0.01549363293	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00344602777	0.0155235726	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00345996186	0.01558183516	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00346670696	0.01560769805	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00347215844	0.01562772352	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00347923291	0.01565504021	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00349896745	0.01573928946	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00350078367	0.01574291195	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00350274416	0.01574718097	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00350823581	0.01576731781	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00351631684	0.01579907736	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00352688612	0.01584199524	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00353976542	0.0158952615	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0035492886	0.01593343078	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00357079187	0.01602072654	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00357197389	0.01602141401	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00357555188	0.01603284462	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00359420353	0.01610364471	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00360215638	0.01613355806	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00361607805	0.01619125458	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00362733014	0.01623230238	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00363308594	0.016251451	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00363369629	0.016251451	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00363889052	0.01627000923	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00364886525	0.01630992495	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00366387141	0.01636760457	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00367975033	0.01643382619	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00369832844	0.016512061	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00370000517	0.01651481241	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00370881474	0.01654939025	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00371128136	0.016551667	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00371145066	0.016551667	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00372755582	0.01661873081	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00375289125	0.0167221103	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00375460965	0.01672498172	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00375956884	0.01674228355	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00376303196	0.01675291501	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00376967873	0.0167777099	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00378553054	0.01683518166	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00378598007	0.01683518166	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00379023396	0.01684512368	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00380476929	0.01690489931	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00382863899	0.01700125319	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00383018046	0.0170032498	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0038369935	0.01702359673	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00383804329	0.01702359673	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00384193228	0.01703596297	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00384301919	0.01703596297	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00386012719	0.01710206564	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.003865377	0.01712045394	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00386721838	0.01712373952	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00387346001	0.01714162907	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00387606434	0.01714828124	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00388181078	0.01716395207	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00388681162	0.01718118573	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00389018581	0.01719122122	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00389985721	0.01721751917	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00390020914	0.01721751917	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00390055915	0.01721751917	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00390341145	0.01722522714	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00390663944	0.01723458808	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00391233963	0.0172548471	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00391748486	0.01727264773	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00392631759	0.01730669227	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00393183035	0.01732608771	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00394160392	0.01736223037	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00394226203	0.01736223037	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00395033536	0.01739286755	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00395401544	0.01740324146	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00395492657	0.01740324146	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00395899202	0.01741129135	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00398660793	0.01752284653	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00398997046	0.01753267775	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00399606243	0.01755449373	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00399728086	0.01755489421	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00402768948	0.01767348781	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.004031691	0.0176833034	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00403219742	0.0176833034	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00403658505	0.01769756164	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00404002794	0.01770767102	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00405876963	0.01778481133	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00406015657	0.01778588417	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00406594238	0.01780622067	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00407472715	0.01783967554	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00408459646	0.01787785854	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00408598337	0.01787890392	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00408952283	0.01788936488	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00409273217	0.01789837634	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0040955426	0.01790340465	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00409618126	0.01790340465	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00410424365	0.01793361009	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00411233217	0.01796391273	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00411728166	0.01798048998	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00412243529	0.01799794918	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00413020831	0.01802178031	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00413170224	0.01802224776	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00413262998	0.01802224776	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00413680617	0.01803345537	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00413751596	0.01803345537	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00416245866	0.01813201922	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00417448152	0.01817930667	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00419034238	0.01823817828	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00420483527	0.0182961441	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00424084195	0.01841679634	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.0042450389	0.01842474662	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00425223211	0.01845082491	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00426852589	0.01851636594	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00427990917	0.01856057519	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00428143357	0.01856201698	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00428926574	0.01858562475	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00429778226	0.01861216993	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00432955694	0.01873789839	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00433646844	0.01875417536	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00433659446	0.01875417536	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00434150391	0.01877019443	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00434312069	0.01877197296	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00435158049	0.01880331937	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00435567026	0.01881577057	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00436300809	0.01884224208	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0043871031	0.01893055044	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00438922501	0.01893446015	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00442889196	0.01908443122	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0044308058	0.01908739659	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0044645059	0.01922016729	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00446532879	0.01922016729	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00446750161	0.01922420628	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00447544758	0.01925307877	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0044834816	0.0192769903	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00451094344	0.01937901301	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00452041062	0.01941432834	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00459066365	0.0196780636	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00459810901	0.01969670616	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00460317237	0.01970998166	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00460464016	0.01971084697	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00460829913	0.01972108887	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.0046340862	0.01979336929	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00464440872	0.01983202003	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00464849672	0.01984403491	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00466059998	0.01988180258	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00466349282	0.01988624689	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00466769213	0.01989083887	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00466859302	0.01989083887	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00466967873	0.01989083887	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00467235874	0.01989681234	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00467618981	0.01990768285	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00469125021	0.01996634042	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00470147362	0.02000438487	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00471084381	0.02003877918	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00472573395	0.02008565908	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00475414236	0.02019537888	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00478192231	0.02030784731	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00478377835	0.02031019092	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00482292081	0.02045964201	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00483344284	0.02049413208	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00483631512	0.02049413208	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00484442987	0.02052293425	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00487169098	0.02063281035	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00487394422	0.02063674097	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00487754752	0.02064638424	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00487921037	0.02064781061	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00489543458	0.0207108402	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00490167917	0.02073162675	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00490395386	0.02073561593	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00491014253	0.02074798895	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00491087698	0.02074798895	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00491380955	0.02075474808	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00491664648	0.0207610997	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.00494620305	0.02085198162	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00497268892	0.02095229559	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00507007521	0.02128775443	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00511902936	0.02145858524	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00514289808	0.02155283957	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00515325804	0.02159044591	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00517633764	0.02167194732	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00517688589	0.02167194732	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00517931773	0.02167630073	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00518680762	0.02170181491	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00519925723	0.02174806148	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00525626715	0.02195115268	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00527589591	0.02201627284	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0052761016	0.02201627284	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00528361255	0.02203723432	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00528395511	0.02203723432	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00529024149	0.02205754505	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00529850927	0.02208019399	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00529997233	0.02208038233	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00530744008	0.0221020465	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00530801091	0.0221020465	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00532738135	0.02217677353	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00533801963	0.02221512019	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00534352738	0.02223105868	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00534470453	0.02223105868	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00535333539	0.02226101257	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00535685692	0.02226548749	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00535727102	0.02226548749	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00536109985	0.02227542674	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00536252327	0.02227542674	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00537400767	0.02231717907	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00537651704	0.02232164751	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00538929621	0.02236873932	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00539706528	0.02238905105	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00540932424	0.02243392979	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00542358167	0.02248026944	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00542482839	0.02248026944	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.005430509	0.02249782298	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00543928521	0.02252818844	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00547478135	0.02265723215	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00547480669	0.02265723215	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00547641579	0.0226578701	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00548309885	0.02267949493	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00549747747	0.02273293062	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00551975996	0.02281901298	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00552224528	0.02282322871	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00552491082	0.02282818683	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00553564645	0.02286647801	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.005566674	0.02298854791	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00557563746	0.02301945975	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00557752676	0.02302115668	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00558240629	0.02303386176	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0055835631	0.02303386176	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00558790589	0.02304044189	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00559884951	0.02307173925	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00560121805	0.02307173925	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00560141692	0.02307173925	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00560163399	0.02307173925	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00560344817	0.02307310901	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00564660346	0.02323237931	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00565236803	0.0232499544	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00565736999	0.02326438417	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00566312928	0.02328191984	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00568851631	0.0233739484	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00572042356	0.0234926572	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00574468394	0.02357985318	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00574722393	0.02358406279	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00575379946	0.02360482587	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.0057800179	0.02370614135	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00579887662	0.02377722635	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00584275104	0.0239445163	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00584637847	0.02395307864	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00585592881	0.02398047626	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00585614533	0.02398047626	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00585864339	0.02398243405	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00585970343	0.02398243405	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00587319833	0.02402726859	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00587438543	0.02402726859	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00587528664	0.02402726859	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00588701704	0.02406892	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00590473322	0.02413501585	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00590685186	0.02413734034	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00591631956	0.02416968638	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00592025678	0.02417942795	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0059255854	0.02419484569	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00593043461	0.02420829834	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00593742921	0.02423022636	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00594047417	0.02423022636	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00594323611	0.02423514425	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00595130408	0.02426169067	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00597533229	0.02435327134	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00599021857	0.02440755462	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00599182426	0.02440771102	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00599585869	0.02441775821	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00601399806	0.02448522663	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00601838853	0.02449669747	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00603231375	0.02454054914	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00604279768	0.02457677939	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00605046569	0.02460154105	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00605510324	0.02461251719	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00605632607	0.02461251719	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00607066489	0.02466234045	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00607279779	0.02466234045	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00607333691	0.02466234045	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00607676858	0.02466984282	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00609622846	0.02474239399	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00609782765	0.02474243616	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00610605606	0.02476291953	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0061081574	0.02476499223	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0061106531	0.02476866236	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00613138262	0.02484621949	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00613316886	0.02484699236	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00615355296	0.02492308977	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00617736758	0.02501303832	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00618010251	0.02501760759	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00618532701	0.02503224989	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0061883433	0.02503795018	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00619231817	0.02504752489	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00620503834	0.02509245963	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00625293806	0.02527959615	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0062644285	0.02531947704	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00626703891	0.02532345538	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00629417216	0.02541990226	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00631015171	0.02547783058	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00632129323	0.02551619995	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0063298325	0.02554404806	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00634838489	0.02560564567	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00635138337	0.0256058165	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00636312034	0.02564515349	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00637480394	0.02568559424	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.006381864	0.02570738958	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00639011531	0.02573397095	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00639632128	0.02575230383	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00644873985	0.02593652524	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00649522957	0.02608542659	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00649581226	0.02608542659	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00650827189	0.0261287234	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0065305278	0.02621131685	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00654012337	0.02624037257	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00654113699	0.02624037257	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00654653764	0.02625153511	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00655296527	0.02626752333	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00659604177	0.02642659081	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00659831298	0.02642889094	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00661306654	0.02648117389	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00662239583	0.02650041872	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00662365268	0.02650041872	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00662467926	0.02650041872	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0066328736	0.02652465505	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00663414444	0.02652465505	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00664538159	0.02656276372	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00665858517	0.02660871101	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00667116467	0.02665214146	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00667863892	0.02666831895	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.006700689	0.0267358006	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00678034595	0.0270106838	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00678123376	0.0270106838	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00679097006	0.0270198714	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00680859276	0.02707025415	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00687865496	0.02729900452	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00696541252	0.02758707252	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0069688438	0.02759160469	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00698732756	0.02764837238	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00700161767	0.02769524817	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00700521072	0.02769800913	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0070160931	0.02773137508	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00703415962	0.02778163016	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00703781946	0.02778903715	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00704086387	0.02779401093	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00704783389	0.02780742769	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00705230414	0.02781801732	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00707954161	0.02789719168	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00709928905	0.02796085695	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00712617687	0.02805256631	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00714663637	0.02811178786	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0071680135	0.02818875614	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00717139159	0.02819492078	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00718730466	0.02825035222	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00719588371	0.02827693593	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00719928226	0.02827831925	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00719986745	0.02827831925	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00720626851	0.02829632361	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00722251818	0.02834583558	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00724600378	0.02843084325	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00727321842	0.02852325118	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00729012141	0.02856795688	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00731795573	0.02864819622	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00739110694	0.02887649482	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00748639222	0.02919749211	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00763712368	0.02971837258	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.007746293	0.03006055839	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00777504905	0.03015712053	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0078023165	0.03025534732	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00782441848	0.03032595047	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.00783894666	0.03036714337	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00785696789	0.03042182024	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00787192605	0.03046458857	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00787782499	0.03047227237	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0079141554	0.0305976023	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00795289324	0.03072448682	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00803635765	0.03099692028	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00804814034	0.0310308714	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00805294941	0.031041728	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00805599459	0.031044567	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00805966637	0.031044567	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00806457045	0.03105577537	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00806789792	0.03106090834	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00807828412	0.03109320774	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00808732812	0.03112032638	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00809930216	0.03115870367	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0081160383	0.03121537774	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00812537791	0.03124358277	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00814698628	0.03131120863	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0081500113	0.03131510635	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00815676106	0.03133331033	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00816370586	0.03135225436	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0081710205	0.03137260903	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00817539286	0.0313816596	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00817990254	0.03139123271	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.008189645	0.03142087747	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00819193056	0.03142190507	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00819975632	0.03144417758	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0082166293	0.03149117316	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00821807794	0.03149117316	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00822744811	0.03151932333	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0082543662	0.03161466916	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00826300845	0.03163998785	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00828195993	0.03170475957	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00830275255	0.03176873843	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0083088801	0.03177771155	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0083091788	0.03177771155	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00831354273	0.03178659487	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00831758726	0.03179425291	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00834401994	0.03188746566	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0083628321	0.03195151725	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00836642796	0.0319574154	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00837009002	0.03196356348	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00837266249	0.03196554866	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00838396407	0.0320008511	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.008391345	0.03201944547	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00839294782	0.03201944547	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00840601676	0.03206144967	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00840950084	0.03206688459	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00841339828	0.03207389263	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00844368331	0.03218146848	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00844731865	0.03218744638	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00845627938	0.03221370811	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00846028643	0.03222109087	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00846903991	0.03224654243	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00849040062	0.03231207449	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00849307103	0.03231434036	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0084979936	0.03232517203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00850672191	0.03234430938	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00850717853	0.03234430938	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00852293999	0.03238051829	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00852945012	0.03239734799	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00853507786	0.0324029175	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0085415713	0.03241966605	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0085478102	0.03243544059	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00858073134	0.03255243099	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00858289445	0.03255270708	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00859490039	0.03259030529	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00860478475	0.0326150033	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00860560255	0.0326150033	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00861421662	0.0326330296	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00861454984	0.0326330296	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00862010374	0.03264612731	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00863065825	0.03267815243	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00864605688	0.03272849874	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00868803528	0.0328794103	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00873881076	0.03306353255	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00874812492	0.03309073338	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00877741843	0.03319154211	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.0087790382	0.03319154211	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00878274325	0.03319749045	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00880343465	0.03326762625	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00881130205	0.03328631914	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00881265612	0.03328631914	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00884419958	0.03338926548	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00886357509	0.03344619696	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00891075446	0.03361608022	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00892626318	0.03366643169	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00894953596	0.03374603475	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00898061364	0.0338550221	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00900413386	0.03393547353	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00902883348	0.03402032999	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00904271953	0.03406129694	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00904408032	0.03406129694	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00907564638	0.03417191516	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00909050341	0.03421958174	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00909506214	0.03422505465	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00909635274	0.03422505465	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00909955017	0.03422881516	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00911359207	0.03425955714	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00911679914	0.03425955714	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00911872243	0.03425955714	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00912398687	0.03426280383	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00913662652	0.0343019973	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00915024997	0.03434486449	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00915588118	0.03435771989	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00918370845	0.03445384046	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00919924592	0.03450381904	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00927135818	0.03475754958	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00928268006	0.03479161892	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00928563835	0.03479433253	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00931814392	0.03490773521	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00933348554	0.03495359198	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00933487376	0.03495359198	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00934912385	0.03499853503	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00935805557	0.03502355187	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00936647533	0.03504664112	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00939075297	0.03512904061	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0093999404	0.03515496442	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00940590966	0.03516040115	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00940939229	0.03516497866	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00944027639	0.03526347427	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00945343887	0.03528687096	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0094679579	0.03532451087	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00947585998	0.03534552514	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00951074299	0.03545865467	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00951311015	0.03545899099	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00951724253	0.03546590523	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00952413571	0.03548310179	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0095582929	0.03559332744	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0095724179	0.03563740472	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00958705658	0.03567935812	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00958826904	0.03567935812	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00960056728	0.03571658725	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00961689734	0.03576879442	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00962385171	0.03578611334	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00964117267	0.03584196275	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00966789863	0.03592416735	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00971015785	0.03606398478	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00971409925	0.03607002088	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.009757575	0.03622281657	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00976775617	0.03625197017	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00977910643	0.03628544779	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00981012769	0.03639188148	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00981344925	0.03639553352	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00982997934	0.03644091111	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00983036458	0.03644091111	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00986408144	0.03653111541	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00987135703	0.03654068055	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00989127252	0.03660228511	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00989270006	0.03660228511	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00990791506	0.03664116867	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00991466652	0.03664873053	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0099744297	0.0368346677	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00999739786	0.03689574522	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00999807647	0.03689574522	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01002470743	0.03697649662	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01004704069	0.03704674111	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01004850924	0.03704674111	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01008552443	0.03716528769	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01008782322	0.03716528769	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01009479834	0.03718218887	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01010557453	0.03721307924	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01012846479	0.03728855369	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01014615693	0.03734485981	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01015634756	0.03737353508	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01017938985	0.03744356453	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.01020078595	0.03750596573	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01020196949	0.03750596573	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01022687191	0.03758864201	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0102319843	0.03759855862	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01024932211	0.03764983085	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01025077267	0.03764983085	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01026716802	0.03769226959	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01027442784	0.03771003175	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01032624245	0.03789127562	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01038246181	0.03808859311	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01040093064	0.03813158496	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01040174197	0.03813158496	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01040397512	0.03813158496	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01040765206	0.038136086	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0104153158	0.03815519006	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01045819756	0.03827626573	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01046349822	0.03828666773	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01048397676	0.03835258868	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01052074856	0.03846903436	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01059939724	0.03870208985	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01060950637	0.03872992094	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01065752199	0.03886875642	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.010686828	0.03896651193	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01069359111	0.03897546379	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01069883917	0.03898292524	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01080377345	0.0393170915	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01080569907	0.0393170915	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01084452875	0.03943994541	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01085335427	0.03946282655	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0108756132	0.03953452951	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01091889021	0.03965482213	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01092262433	0.03965913469	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01092539855	0.03965996076	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.01095145804	0.03973342489	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01101751299	0.03991989991	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01124268773	0.04064122005	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01128705113	0.04077319583	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0113299603	0.04089025996	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0113406361	0.04090982767	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01145321557	0.04124905783	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0114620735	0.04127125078	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.011556586	0.04157327646	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0115669348	0.04159501724	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01157045714	0.04159501724	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01157064244	0.04159501724	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01158594035	0.04163212937	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01158631276	0.04163212937	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01160929169	0.04170507486	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01163002233	0.04176991185	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01164610986	0.04181804678	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01165573486	0.04184295964	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01169450879	0.04197247876	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.01173006766	0.04207101419	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01173767908	0.04208099053	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01173825357	0.04208099053	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01175388991	0.04212734813	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01175877753	0.04213516855	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01179100298	0.04224092235	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01182234335	0.04233712753	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01182329465	0.04233712753	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01183631457	0.04237400616	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01184776262	0.04240524183	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01185952196	0.0424375771	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0118747372	0.04248226106	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01187835659	0.04248544951	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01190015508	0.04255364295	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01191140766	0.04258410273	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01192330325	0.0426168468	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0119301233	0.04263143878	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01194360808	0.04266983451	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01195733944	0.04270909338	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01198262942	0.04278960972	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01198558979	0.04279036904	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01198979857	0.04279558402	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01200883627	0.04285371386	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01204793614	0.04298339279	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01208330221	0.04309969431	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01210247062	0.04313330675	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01210380469	0.04313330675	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01213290133	0.04322710418	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01214835371	0.04327225807	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01216247871	0.04331266429	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01217301328	0.04334026881	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01217588696	0.04334059147	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01221455853	0.04345837787	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01225884974	0.04360599976	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01226509231	0.0436182422	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01227991302	0.04365172791	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0122801143	0.04365172791	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01233219064	0.04381683888	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01234078208	0.04383736299	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0123586977	0.04388150542	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01235884433	0.04388150542	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01236194062	0.04388249402	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01239997315	0.04396739113	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01240597463	0.0439786576	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01241738916	0.04400910363	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01244023287	0.04407000601	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.01245858505	0.04412498181	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01246941245	0.04415328787	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01249358706	0.04421877983	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01255806374	0.04442678934	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0125626127	0.04443278847	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01257553	0.0444681796	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01257832988	0.0444681796	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01259766287	0.04452641939	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01260443749	0.04454025527	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01260863272	0.04454497218	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01261233361	0.04454794086	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01262004964	0.04456508687	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01266738568	0.04471968081	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01266957116	0.04471968081	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01270288953	0.0448271241	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01276929715	0.04504105651	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01278800567	0.04508662266	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01279426007	0.04509846358	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0128176072	0.04516519467	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01281899187	0.04516519467	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01283153283	0.04519915421	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01284340339	0.04523073744	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01286649665	0.04530182057	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0128763624	0.04532630915	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01290129581	0.0454038146	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0129078453	0.04540681035	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01290797852	0.04540681035	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01291687651	0.04541999211	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01291755892	0.04541999211	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01294632033	0.04551084573	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01295587414	0.04552788247	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01295701375	0.04552788247	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0129673504	0.04555392462	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01298258014	0.04559714038	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01300740785	0.0456522302	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0130099915	0.0456522302	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0130493438	0.04578000249	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01305652743	0.04579293414	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01306144943	0.04579293414	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0130618515	0.04579293414	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01307407429	0.04580893757	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01307457263	0.04580893757	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01310548634	0.04589743352	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01310813665	0.04589743352	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01310934209	0.04589743352	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01311411639	0.04590382883	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.01313967331	0.04597518118	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01314040528	0.04597518118	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01316959666	0.04606696513	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01319190007	0.04612702361	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01319269012	0.04612702361	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01320002911	0.04614232398	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01321365086	0.04617957471	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01327563783	0.0463857994	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01329665302	0.04644880606	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01332077917	0.04652264948	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01333985846	0.04657883764	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0134052655	0.04678623926	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01342398509	0.04684107548	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01343998231	0.04688638991	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01346040585	0.04694239198	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01346206399	0.04694239198	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01347463711	0.04697571607	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01348378659	0.04698720981	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01368997816	0.04757249662	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01369164129	0.04757249662	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01369597594	0.04757694253	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01370417992	0.04759482468	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01372465921	0.04765532171	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01375445405	0.04773748894	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01378384343	0.04782883106	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01378968121	0.047829881	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01380070953	0.04785536617	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01382284955	0.0479214684	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01386184281	0.04803546591	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01386190097	0.04803546591	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01388713473	0.04811220225	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01389852484	0.04814095359	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01399608694	0.04838203373	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01404826102	0.04850855186	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01412306621	0.04874523717	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01412642705	0.04874603335	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0141348302	0.0487534243	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01414152847	0.04876572693	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01416987198	0.04884183629	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01420686065	0.04893358762	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01420793583	0.04893358762	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01422482883	0.04897706377	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01433338774	0.04928737998	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01433394618	0.04928737998	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.014342336	0.04929775242	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01434329392	0.04929775242	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01437249996	0.04938106059	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01437387451	0.04938106059	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01438766665	0.04940664448	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01444516961	0.04958238591	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0144452119	0.04958238591	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01445924605	0.0496196207	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01452766235	0.0498214679	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01453344451	0.04982895294	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01453624435	0.04982895294	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01454793477	0.04985805199	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01456048238	0.04989007528	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01456523619	0.04989538566	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01460452985	0.0499969979	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01463566465	0.05007056361	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01472110119	0.05034073537	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01475146733	0.05040601831	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01476106859	0.05042204895	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0147931506	0.05052055576	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0148078372	0.05053836267	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.01480810049	0.05053836267	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0148159778	0.05055416791	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01487044876	0.05072891534	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01502134611	0.05114644517	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01502240032	0.05114644517	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01508024657	0.05132095278	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01516277333	0.05155673998	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01518727928	0.05161752514	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01519752965	0.051641093	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01522859951	0.05172667002	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01522935735	0.05172667002	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01527618023	0.05186611052	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01528367175	0.05187720578	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01530795146	0.0519369778	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01532100792	0.05196995345	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01532735275	0.05198015339	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01537821246	0.05214128077	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01553445518	0.05255844327	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01579623948	0.05331487591	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01593127443	0.0536991213	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.01611250578	0.05420610337	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01613412868	0.05426712438	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01614892383	0.05430401374	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01615207036	0.05430401374	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01619653256	0.05444174434	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01622932845	0.05453188287	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01626625263	0.05461715226	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01630334229	0.05472988781	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01631840926	0.05476866107	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0163443478	0.0548438975	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01638708818	0.05497546837	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01639356074	0.05498533737	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01642733809	0.0550749055	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01645077749	0.05514161813	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01645855862	0.05515582816	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01649402414	0.05523950992	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01653528378	0.05536529227	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01659716746	0.05556055221	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01661498684	0.0556082506	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01664482453	0.05569295487	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01667808249	0.05578345759	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0166946843	0.05581501045	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01670647292	0.05583045125	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01672416514	0.05587758501	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01675289482	0.05594956702	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01679751559	0.05608655881	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01683389897	0.05619522562	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01683727752	0.05619522562	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01693809436	0.05650748574	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01698194949	0.05664165763	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0169857847	0.056642318	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01699328731	0.05665520515	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01710318021	0.05699718068	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01711429782	0.05702202822	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01714475785	0.05711129712	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01717507197	0.05720004188	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01720076563	0.05727336396	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.01722853307	0.05735355826	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0172581954	0.05744002501	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01728540805	0.05751830334	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01733941362	0.05768568433	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01735664164	0.05773066645	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01737746919	0.05778759933	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01740991791	0.05788314508	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01743271668	0.05793750969	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01743371029	0.05793750969	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01745520084	0.05799655274	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01746648166	0.05802165504	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01757335406	0.05833933976	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01764519163	0.05852960367	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01765346679	0.05854289574	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01767319554	0.05859584292	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01768313651	0.05861632287	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01768871529	0.05862233736	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01770395252	0.0586603516	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01775691988	0.05882333828	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01781569769	0.05900549982	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01782287497	0.05901671952	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01783333524	0.05903880308	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01783952636	0.05904215622	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01784572204	0.05904215622	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01788578032	0.05914955553	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01789153626	0.05915602849	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01790454939	0.05916651753	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01790990584	0.05916651753	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01793751089	0.05923902962	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01793946341	0.05923902962	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01794885764	0.0592574857	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01798811705	0.05936192983	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01801290632	0.05943114199	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01802600416	0.05946175869	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01804689557	0.05951806536	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01810070346	0.05968288269	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01811129621	0.05969738504	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01814464259	0.05978978396	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01819537049	0.05993979296	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01820241461	0.05993979296	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01820503056	0.05993979296	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01820556224	0.05993979296	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01821148129	0.05994660707	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01823645948	0.06001614189	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01826534431	0.06008139096	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01827398961	0.06008885983	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.01828116707	0.06009977089	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01829375074	0.06012844667	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01830586176	0.06015555713	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01831557553	0.0601747801	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01834614635	0.06024979694	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01838347281	0.06035965046	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01845737572	0.06058952615	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0184973153	0.06069504659	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01852050881	0.06075834921	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01854932404	0.06084006386	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01858179689	0.06093373824	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01858997322	0.06094771642	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01860547571	0.06098570265	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01862707379	0.061043649	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01864662334	0.06109485911	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01866133592	0.06113020284	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01871686118	0.06129818706	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01872361634	0.06129818706	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01876181508	0.06140768101	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0187683442	0.06141614294	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01891487762	0.06185665458	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01895960896	0.06198992029	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01898493235	0.06205583479	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01898773857	0.06205583479	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01899988307	0.06208249666	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01903446676	0.06218245247	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01907008127	0.06227835009	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01907181992	0.06227835009	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01912763286	0.0624475108	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01914538683	0.06248988771	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01915177093	0.06248988771	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01915495969	0.06248988771	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01915666371	0.06248988771	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01919585666	0.06260462321	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01924850799	0.06275005546	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01925628008	0.06276225401	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01932652845	0.06297803464	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01933258267	0.06298458365	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01937810511	0.06311968853	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01939356424	0.06314362868	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.019409886	0.06318356076	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01941593416	0.06319004027	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01943624706	0.0632297212	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01961169853	0.06377385282	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01966423178	0.06391798821	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01966893566	0.06391993635	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.01970697187	0.06403018422	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01971746906	0.06405092734	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.01979623798	0.06426658622	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01983968396	0.06438466215	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01984087804	0.06438466215	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01989812249	0.06455697117	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01992035924	0.06461565391	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01993781982	0.06465882301	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01996144092	0.06472194867	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01996977482	0.06473549194	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01998808746	0.06478137066	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.01999253376	0.06478229884	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02001369422	0.06481277361	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02008426777	0.06502404314	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02009660586	0.0650383298	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02010086642	0.06503860228	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02012015837	0.06507425946	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02016327847	0.06519990357	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02018531053	0.06525759618	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0202173846	0.0653477232	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0202834995	0.06554781858	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0203111541	0.06562356905	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02032839862	0.065665661	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02033540009	0.06567465482	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02038088615	0.06580790793	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02040930037	0.06588599393	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02043383741	0.06595153366	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02053142106	0.06625276007	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0205944249	0.06644229934	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02060565567	0.066464763	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02067880857	0.06667150113	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02068259307	0.06667150113	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02072710728	0.06678734568	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0207413677	0.06681947026	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02075866927	0.06686137674	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02076346043	0.06686297957	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02077373773	0.06688224472	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02086222359	0.06712549751	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02086821939	0.06713091935	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02088340162	0.06716588463	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02089462395	0.06718810215	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02091033502	0.06720229591	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02091198395	0.06720229591	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02093804019	0.06725636476	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.02098007969	0.06736552186	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02100768447	0.0674402536	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02101649907	0.06745464551	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02102940369	0.06748215613	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02113984101	0.06780859817	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0212769995	0.06822440863	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02128854636	0.0682434196	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02130914186	0.06829538303	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02133086378	0.06835093451	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02142566537	0.06864058564	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02143128653	0.06864447245	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02148322399	0.0687758927	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02148556592	0.0687758927	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02154240643	0.06892950388	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02156134814	0.06897593973	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02157050999	0.06899107661	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02160023446	0.06907196124	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02160828175	0.06908350888	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02162098037	0.06910991941	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02167616949	0.06927210906	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02171589161	0.0693848133	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02172321319	0.06939396901	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02173664918	0.06942264924	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02177631155	0.06952324419	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02178047439	0.06952324419	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0217815391	0.06952324419	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02182519825	0.0696197895	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02183703434	0.06962902044	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02188790741	0.06973412072	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02192104742	0.06982541859	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02193491484	0.06985530242	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02197577203	0.06996448632	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02202289989	0.07007818145	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02204825618	0.070130207	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02209888104	0.07024818828	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02212672583	0.07031627034	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02212932903	0.07031627034	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0221394662	0.07031978525	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.02217766429	0.07040709252	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02218313273	0.07040709252	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0221850384	0.07040709252	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02223587568	0.07054826298	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02223858107	0.07054826298	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02225315315	0.07057477184	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0223428584	0.07079639803	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02237186372	0.07087002314	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02244811098	0.07106819116	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02248676869	0.07117610748	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02253486634	0.07127040485	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02259630248	0.07141278767	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02259702722	0.07141278767	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02259822883	0.07141278767	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0226070187	0.07141316717	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02260826925	0.07141316717	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02261669174	0.07141316717	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02264085989	0.07147498705	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02265512312	0.07150551931	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0226669645	0.07152839679	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02268458764	0.07156950636	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02269775071	0.0715843958	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02270892779	0.071600262	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02271272679	0.071600262	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02273259047	0.07164837712	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02275878486	0.07171642181	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02280372277	0.07184349074	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02281150748	0.07185348017	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02291153874	0.07214550481	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02291348275	0.07214550481	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02293582827	0.07219023858	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02294115235	0.07219023858	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02294159704	0.07219023858	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02295272275	0.07221065684	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02297949779	0.07228029067	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02302752931	0.07240212275	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02303792455	0.0724163104	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.02304134194	0.0724163104	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02315486284	0.07272905992	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0231957682	0.0728282654	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02319580019	0.0728282654	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02320459629	0.07284119695	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02326502037	0.07301615521	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02327971991	0.07304756763	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02328661524	0.07305448413	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02330389702	0.07309397549	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02338339603	0.07332855948	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02339413928	0.07334747957	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02341930273	0.07341159448	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02348044456	0.07358844097	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02349787956	0.07362826528	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02352706281	0.07370487812	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02359281539	0.07388114099	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02362296961	0.07396069678	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02365202145	0.07403676984	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02367487221	0.07409340534	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02369867095	0.07415298428	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0237664006	0.07434728536	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02377074745	0.07434728536	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02377509029	0.07434728536	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02379199027	0.07437439434	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02379331103	0.07437439434	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02381107899	0.0744149976	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0238431084	0.0745001459	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02388958359	0.07463038821	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02404773739	0.07508977162	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02405110004	0.07508977162	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02414352841	0.07531794228	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02422676169	0.07556245941	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.024276131	0.07570127914	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02430623366	0.0757648072	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02431508807	0.07577723965	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02434413064	0.07583739677	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02439776371	0.07598927484	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02441268469	0.07601250565	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02441498448	0.07601250565	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02451519145	0.07629398012	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02453203358	0.07633114063	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02456220002	0.07640973649	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02458980379	0.07646505879	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0246109513	0.07650026838	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02462796523	0.07652260625	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0247055185	0.07674826243	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.02471772124	0.07677085617	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02474942905	0.07683868791	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02479954074	0.07697892126	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02481276122	0.07699255002	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02481381934	0.07699255002	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02488379635	0.07717892064	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02488896897	0.07717959256	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02494864716	0.07734924988	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02504401606	0.07762444955	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02504738066	0.07762444955	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02510537478	0.07777322488	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02514822186	0.07789046519	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02516393796	0.07792364404	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02517648654	0.07794582764	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02518111211	0.07794582764	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02518679997	0.07794794035	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02520387989	0.07798530131	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02528629554	0.07821371534	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02529325848	0.07821371534	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02529779003	0.07821371534	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02530827569	0.07823060289	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02532509244	0.07826704993	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02535613297	0.07834743229	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02539397011	0.07844877931	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0254183466	0.07850851084	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02548465682	0.07866938869	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02548558826	0.07866938869	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02553024327	0.07878706961	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02553861851	0.07878706961	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02553888958	0.07878706961	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02554882994	0.07880212491	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02558914744	0.07891085012	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02560280179	0.07892388058	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02568557418	0.07915195178	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02568766225	0.07915195178	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02580909718	0.07951039968	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02585233936	0.07962220347	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02585561439	0.07962220347	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02591575239	0.07977584741	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02594311003	0.07984427916	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02596681697	0.07990145045	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02599057597	0.07994933558	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02599264664	0.07994933558	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02602263943	0.08002578276	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02604369582	0.0800747236	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02608256564	0.08016967603	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.02608487436	0.08016967603	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02610202556	0.08018034137	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02610341282	0.08018034137	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02610379058	0.08018034137	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02611185218	0.08018928693	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02611832983	0.08019336564	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02613619213	0.08021657865	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0262512111	0.08052198356	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02629015047	0.08062554417	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02630273383	0.08064626048	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02630726278	0.08064626048	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02633379067	0.08071169497	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02638202733	0.08082772214	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02638949033	0.0808346839	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02640003538	0.08085108182	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02640940922	0.08086388711	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02643207049	0.0809173646	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02645045234	0.08095772295	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02646458488	0.08098506196	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0265016165	0.08105060365	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02651474742	0.08106996085	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02651835745	0.08106996085	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02653014629	0.08109008206	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02658433366	0.08123976218	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02659622205	0.08124420674	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02664030424	0.08134695253	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02665967164	0.08136154901	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02666075802	0.08136154901	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02669810038	0.0814595449	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02676289849	0.08164125725	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02676843652	0.08164215864	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02678955017	0.08167681441	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02679028883	0.08167681441	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02680658768	0.08171050889	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0268565804	0.08184687408	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02692619461	0.08202692267	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02694549726	0.08205362316	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02696559611	0.08209877385	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02697765519	0.08210991724	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02697980135	0.08210991724	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02702636545	0.08223555865	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02710658496	0.08241940595	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02712540345	0.08244026305	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02715272244	0.08250718959	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.02728415897	0.0828657732	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02735539792	0.08304202958	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02737830256	0.08307498365	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.027409203	0.0831243463	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02749572739	0.08335428512	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02751179463	0.08338676096	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02754166822	0.08346106232	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02759885229	0.08361807912	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.027618931	0.08366263616	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02763310094	0.08368928062	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02766745621	0.0837770359	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02768475358	0.08379682555	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02770854898	0.08384038702	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02782518192	0.08412413297	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02782530077	0.08412413297	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02783263415	0.0841299712	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02784057414	0.08413764042	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02786960301	0.08419269207	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02794142514	0.08439329203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02795101826	0.08440589632	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02799976332	0.08453670301	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02811384288	0.08483179136	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02812889229	0.08486075932	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02814183345	0.08486777104	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02814211582	0.08486777104	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02817902433	0.08494130576	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02818191068	0.08494130576	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02823188477	0.08507258931	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02839640517	0.08555179294	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0284178189	0.08559974734	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02843958692	0.08564875018	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02846029672	0.08569454772	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02852043036	0.08585901063	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.02863146267	0.08614330914	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02865472859	0.08619665603	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02878374057	0.08655130179	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02879704137	0.08656089286	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.028798047	0.08656089286	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02890339761	0.08682727835	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02894346691	0.08691411689	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.02902845142	0.08712054562	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02903195506	0.08712054562	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02903849987	0.08712054562	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02904018187	0.08712054562	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02906803202	0.0871873002	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02910947653	0.08727798959	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02916050679	0.08741416213	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02923651981	0.08760829767	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02931273844	0.08781736082	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02931756623	0.08781736082	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02935117506	0.08790112485	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02936084381	0.08790430816	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02936352733	0.08790430816	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02945172228	0.08813444871	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02946285151	0.08815081393	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02948370908	0.08819627381	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02948974605	0.08819739107	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0295864502	0.08846351041	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02961418683	0.08851856651	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02967767207	0.08867428764	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02969653479	0.08871362675	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0297733329	0.08885782164	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.02980126325	0.08891926821	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0298053413	0.08891926821	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.03000810916	0.08945564395	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.03008046595	0.08961987685	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.03040141763	0.09038588711	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0304779839	0.09057893955	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03049923245	0.09062479431	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0305505462	0.09074263895	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03056778307	0.09077652284	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03061944022	0.09089526163	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03062877356	0.09090563953	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03068879633	0.09106643013	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.03072512815	0.09115687192	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03074105423	0.09117960005	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03077103967	0.09124093693	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03078174754	0.09125531209	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03080535755	0.09130139765	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03080901847	0.09130139765	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03085730116	0.09139244532	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03085734781	0.09139244532	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03089272097	0.09147981434	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03091785216	0.09152993803	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0309367434	0.09155794469	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03111175298	0.09205839428	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03111863916	0.09206127805	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.03116149129	0.09213493725	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03120279205	0.09222263819	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03121530923	0.09224212724	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03129531349	0.09244129606	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03130464091	0.09244129606	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03134038275	0.09250640268	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03137140802	0.0925628907	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03141554605	0.0926755633	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03146625609	0.09279000306	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03147952639	0.09281156086	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03157052744	0.09304462979	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03160472455	0.09311839735	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03162687881	0.093157818	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03168990719	0.09330817257	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03171650678	0.09336883934	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0317564816	0.09346885051	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03177548022	0.09350709628	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03181407718	0.0936029896	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03187432412	0.09376253295	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03189553745	0.09380721524	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0319689755	0.09399597602	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03213979352	0.09444235018	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0321455503	0.09444235018	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03214787763	0.09444235018	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0321675787	0.09448240344	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03219226703	0.09453589457	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03219793134	0.09453589457	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03223085842	0.09461473293	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03225646306	0.09467205036	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03227611767	0.09471188627	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03236992418	0.09496268985	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03237378286	0.09496268985	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.03239784134	0.09501536406	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03245635477	0.09515113194	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03247985018	0.0951810474	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03248285776	0.0951810474	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03248489481	0.0951810474	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03250776594	0.09523014279	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03252625782	0.09526639326	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03255037627	0.09531910675	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03265237585	0.09556388819	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0326680466	0.09557142953	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03267336356	0.09557142953	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03271291106	0.09566913876	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03272185454	0.09567114813	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0327294804	0.09567114813	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03273475278	0.09567114813	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03273817173	0.09567114813	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03277449267	0.09575931976	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03284781885	0.09593756245	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0329849479	0.09630194855	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03299185277	0.09630405307	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03300213199	0.09631600478	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0330440554	0.09640222458	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03306497506	0.0964451876	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03308878519	0.09649656399	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03311463525	0.09652776273	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03311561859	0.09652776273	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03312209578	0.09652776273	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03312427689	0.09652776273	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0331313814	0.09653040271	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03315594083	0.09658388824	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03317162682	0.0966115101	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03321394107	0.09671666124	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0332449175	0.09678511554	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03325098338	0.09678511554	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03325988336	0.09678511554	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03326230902	0.09678511554	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03337092113	0.09708301041	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03340522077	0.09716464383	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03348849937	0.09738868359	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03349557609	0.09739107664	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03365884946	0.09784753828	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03369055064	0.09792141565	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03369903633	0.09792780235	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03371092928	0.09794408613	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03371925294	0.09794999552	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03373294897	0.09797150585	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.03374322161	0.09798306733	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03385290558	0.09828323987	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03386354002	0.09829578914	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03388657164	0.09834431237	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03390418861	0.09837710624	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03394644338	0.09846302157	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03398170879	0.0985469555	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03399582457	0.09856953566	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03405920895	0.09873493318	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03407204091	0.09875374895	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03407871509	0.09875471344	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03410275398	0.09880598841	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03414340503	0.0989053658	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03431015774	0.09935044223	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03431619012	0.09935044223	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0343317049	0.09937688484	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03435032184	0.09938926099	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03435511307	0.09938926099	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03435802484	0.09938926099	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0343615091	0.09938926099	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03438757249	0.09944617759	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03444110427	0.0995370035	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03444855334	0.0995370035	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03446528797	0.0995370035	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0344707452	0.0995370035	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03447622375	0.0995370035	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03447971467	0.0995370035	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03448208052	0.0995370035	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03448458003	0.0995370035	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03448502618	0.0995370035	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03448928728	0.0995370035	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03451535671	0.09957533346	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03452512751	0.09958507329	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03455646996	0.09965701976	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.03458310533	0.09971536739	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.482211E-37	6.9801472E-33	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.922543E-36	1.4969881E-32	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.1227314E-34	4.3710741E-31	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7453541E-33	5.43608E-30	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.411331E-32	1.664061E-28	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.319209E-32	1.8507863E-28	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.1370988E-31	2.213505E-28	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.3138866E-31	5.7341284E-28	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.5097482E-31	7.0230308E-28	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.6033089E-30	7.3452378E-27	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.1073088E-29	1.0489252E-26	NR_WEEK2vsWEEK0	Endoscopic_Remission

2.9425308E-28	2.4117912E-25	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.560693E-28	3.5511836E-25	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.0524643E-27	7.8047746E-25	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.356175E-27	9.5998698E-25	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.4461841E-26	9.7919242E-24	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.6526709E-26	1.0509036E-23	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.6870602E-26	1.0509036E-23	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.2502029E-26	4.1817559E-23	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.2800056E-25	1.2680903E-22	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.0914055E-25	2.6429486E-22	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.2496501E-24	6.0815005E-22	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.7526815E-24	4.467015E-21	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.2777283E-23	5.6185392E-21	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.298834E-23	5.6185392E-21	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.4482399E-23	1.0304443E-20	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.3143189E-22	8.381602E-20	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.7110835E-22	9.3821564E-20	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.955222E-22	1.0004711E-19	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.6720248E-22	2.1204784E-19	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.6685848E-22	2.3884574E-19	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.6185426E-22	2.532388E-19	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.5733479E-21	4.4548632E-19	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.4836793E-21	9.5177784E-19	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.8873965E-21	2.117766E-18	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.0592111E-20	2.7957788E-18	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.5558805E-20	3.9790822E-18	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.5586208E-20	3.9790822E-18	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.9067298E-20	4.7132545E-18	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.1169085E-20	5.1510338E-18	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.4214379E-20	5.7134928E-18	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.7691728E-20	6.3380226E-18	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.6923976E-20	8.2145298E-18	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.9864823E-20	8.6224291E-18	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.634299E-20	9.886293E-18	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.3660939E-20	1.1292727E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.6985962E-20	1.1832565E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.0124001E-19	2.0475463E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.1302468E-19	2.2287047E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.4341176E-19	2.7916891E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.0350781E-19	3.8183459E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.0872357E-19	3.8695859E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.1488615E-19	3.936967E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.6678842E-19	4.831042E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.9306592E-19	5.24588E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.7718551E-19	6.5998988E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.918814E-19	6.7808545E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission

4.7469066E-19	8.0617709E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.1873207E-19	8.6862521E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.7713358E-19	9.4801204E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.7831595E-19	9.4801204E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.9970794E-19	9.7283873E-17	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.2980196E-19	1.0111243E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.8116417E-19	1.2287949E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.6175219E-19	1.4829076E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.2089622E-18	1.8458008E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.3931354E-18	2.0860862E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7058406E-18	2.5300053E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.752562E-18	2.5507148E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.0851104E-18	2.9639511E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.0935891E-18	2.9639511E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.2084368E-18	3.0707131E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.2628554E-18	3.1185352E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.953182E-18	3.9991221E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.4862641E-18	4.6009823E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.5751977E-18	4.678702E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.409075E-18	5.7218771E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.1299067E-18	6.5481997E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.273732E-18	7.8160663E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.619819E-18	9.4177335E-16	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.2727553E-18	1.0144222E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.3615778E-18	1.1389676E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.0952358E-17	1.3221789E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.5646864E-17	1.874374E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.2994345E-17	2.6525254E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.8935395E-17	3.2792408E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.9058963E-17	3.2792408E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
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3.3769362E-17	3.7034526E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.7718049E-17	4.1075747E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.9102884E-17	4.228814E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.9592861E-17	5.3262733E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.0345433E-17	5.3700645E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.7582708E-17	6.1002416E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.5245334E-17	6.8192321E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.8411862E-17	7.1025195E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.4096444E-17	7.6417478E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.3280273E-17	8.4766254E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.6530353E-17	8.6907776E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.7058454E-17	8.6907776E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.0022327E-17	8.9294121E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.3747632E-17	9.2400752E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission

9.4481326E-17	9.253822E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.8627349E-17	9.5995232E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.0099235E-16	9.7686574E-15	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.1208917E-16	1.077509E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.1866214E-16	1.1336966E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.2772621E-16	1.191066E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.2858426E-16	1.1919301E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.5952848E-16	1.4700219E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.6215508E-16	1.4854359E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.6338485E-16	1.4879487E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.0946019E-16	1.8964672E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.3969904E-16	3.9353064E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.0221886E-16	4.4437809E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.5831167E-16	4.8845998E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.2705197E-16	6.1870931E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.7982825E-16	6.6001442E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.2480652E-16	6.8688299E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.3103415E-16	6.8838802E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.8365977E-16	7.281076E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.0290686E-15	8.4345711E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.0405132E-15	8.4837238E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.0972383E-15	8.8996315E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.1403002E-15	9.2009817E-14	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.5513441E-15	1.2140242E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.8260645E-15	1.4218651E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.0338323E-15	1.5679639E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
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2.8281601E-15	2.1073175E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
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3.2539046E-15	2.4015667E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.7536734E-15	2.7444111E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.9599235E-15	2.881677E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.0866205E-15	2.9600437E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.1184179E-15	2.9692649E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.7095879E-15	3.3798347E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.1813537E-15	3.7013404E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.3970828E-15	3.8378434E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.4556078E-15	3.8618264E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.7228662E-15	4.7373391E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.1684556E-15	5.0060251E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.2537856E-15	6.3765134E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.3950344E-15	6.4453247E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.72045E-15	6.6393232E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission

1.0153879E-14	6.9050809E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.020644E-14	6.9106477E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.1350345E-14	7.6519017E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.1797869E-14	7.9193198E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.3040707E-14	8.7160054E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.352538E-14	8.9630105E-13	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.9617653E-14	1.2836374E-12	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.9796457E-14	1.2899173E-12	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.2671048E-14	1.4710676E-12	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.3076257E-14	1.4911475E-12	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.4157459E-14	1.5545624E-12	NR_WEEK2vsWEEK0	Endoscopic_Remission
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2.9535633E-14	1.8850755E-12	NR_WEEK2vsWEEK0	Endoscopic_Remission
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4.0448205E-14	2.5399189E-12	NR_WEEK2vsWEEK0	Endoscopic_Remission
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4.1223438E-14	2.5678904E-12	NR_WEEK2vsWEEK0	Endoscopic_Remission
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8.1746084E-14	4.8588999E-12	NR_WEEK2vsWEEK0	Endoscopic_Remission
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9.1641054E-14	5.3853816E-12	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.041156E-13	6.0499712E-12	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.1416911E-13	6.5366011E-12	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.3596003E-13	7.5348952E-12	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.5316356E-13	8.4582134E-12	NR_WEEK2vsWEEK0	Endoscopic_Remission
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2.2266946E-13	1.1998725E-11	NR_WEEK2vsWEEK0	Endoscopic_Remission
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2.9232048E-13	1.5431549E-11	NR_WEEK2vsWEEK0	Endoscopic_Remission
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3.3730047E-13	1.7626779E-11	NR_WEEK2vsWEEK0	Endoscopic_Remission
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8.4004891E-13	4.1138622E-11	NR_WEEK2vsWEEK0	Endoscopic_Remission
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9.1696239E-11	3.0908778E-09	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.2643441E-11	3.1093455E-09	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.0404788E-10	3.4475268E-09	NR_WEEK2vsWEEK0	Endoscopic_Remission
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4.2492597E-10	1.2849266E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.2583603E-10	1.2851831E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.2873556E-10	1.2914311E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.4559469E-10	1.3396228E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.5641406E-10	1.3668724E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.5744112E-10	1.3673187E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.6029888E-10	1.373225E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.7895165E-10	1.4261404E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.1100087E-10	1.5186673E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.1278001E-10	1.521052E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission

5.1454868E-10	1.5233967E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.1780937E-10	1.5301414E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.5589232E-10	1.6335881E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.5596331E-10	1.6335881E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.8234102E-10	1.704661E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.146424E-10	1.7958398E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.3688099E-10	1.857331E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.5079514E-10	1.890827E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.644516E-10	1.9269096E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.7530508E-10	1.9547446E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.0621337E-10	2.0366409E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.1803004E-10	2.0668913E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.5953955E-10	2.1783259E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.7828738E-10	2.2279907E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.822124E-10	2.2351181E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
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8.7906078E-10	2.4981047E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.0129592E-10	2.5519784E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.4035361E-10	2.6577362E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.6611412E-10	2.7255969E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.0076312E-09	2.8375841E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.0224053E-09	2.8739923E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.0321646E-09	2.8961982E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.0409589E-09	2.9156211E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.0540092E-09	2.9468734E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.0591206E-09	2.9540162E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.1554179E-09	3.2130934E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.1750267E-09	3.2617988E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.3533461E-09	3.7170474E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.3972595E-09	3.8309018E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
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2.5175141E-09	6.6002099E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
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2.5538743E-09	6.673068E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
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2.5770186E-09	6.6998181E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
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2.6555524E-09	6.8695876E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
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2.8962758E-09	7.4551574E-08	NR_WEEK2vsWEEK0	Endoscopic_Remission
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5.7433009E-09	1.3909864E-07	NR_WEEK2vsWEEK0	Endoscopic_Remission
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7.9202019E-09	1.8631617E-07	NR_WEEK2vsWEEK0	Endoscopic_Remission
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8.3000345E-09	1.9466331E-07	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.2314596E-08	2.7593555E-07	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.4285438E-08	3.1781018E-07	NR_WEEK2vsWEEK0	Endoscopic_Remission
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5.9397923E-08	1.1419801E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.0259483E-08	1.1571158E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.1267091E-08	1.1750153E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.1509199E-08	1.1782076E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.606931E-08	1.2640017E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.647352E-08	1.2701744E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.6917604E-08	1.277093E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission

6.9235387E-08	1.3197095E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.9419375E-08	1.3215989E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.0850266E-08	1.3471931E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.3254253E-08	1.3912055E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.3945759E-08	1.4013735E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.3969629E-08	1.4013735E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.5093957E-08	1.4209455E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.6184941E-08	1.4398399E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.6523516E-08	1.4444857E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.485964E-08	1.5999021E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.5512218E-08	1.6102561E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.661396E-08	1.6290328E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.7113063E-08	1.6364436E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.0449521E-08	1.6950306E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.1934945E-08	1.7207968E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.284953E-08	1.7358292E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.2024698E-07	2.186136E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.3002495E-07	2.3463251E-06	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.3700276E-06	1.9663999E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.3908089E-06	1.9907231E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.4009864E-06	2.0034492E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.422906E-06	2.0310597E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission

1.4237533E-06	2.0310597E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.4242067E-06	2.0310597E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.4357796E-06	2.0456904E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.500935E-06	2.135253E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.5013819E-06	2.135253E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.5048993E-06	2.1383027E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.525175E-06	2.1651368E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.5806698E-06	2.2418735E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.5907862E-06	2.2541687E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.6951832E-06	2.3847415E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7245655E-06	2.4238861E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7365594E-06	2.4363459E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.7626105E-06	2.4684472E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.8461301E-06	2.5784559E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.9148022E-06	2.6671927E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
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2.2465927E-06	3.0546323E-05	NR_WEEK2vsWEEK0	Endoscopic_Remission
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1.1740961E-05	0.00013316969	NR_WEEK2vsWEEK0	Endoscopic_Remission

1.1921644E-05	0.00013502751	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.1922098E-05	0.00013502751	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.1931922E-05	0.00013504057	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.1967588E-05	0.00013534586	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.1997225E-05	0.00013555829	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.2003781E-05	0.00013555829	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.2112683E-05	0.000136689	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.2187731E-05	0.0001374363	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.2223184E-05	0.00013773636	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.224227E-05	0.00013781571	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.2247926E-05	0.00013781571	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.2290648E-05	0.00013819657	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.232776E-05	0.00013851386	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.2359118E-05	0.0001386774	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.248473E-05	0.00013997459	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.2790137E-05	0.00014319252	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.3054736E-05	0.00014594501	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.324277E-05	0.00014794093	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.3312941E-05	0.00014861823	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.3388701E-05	0.00014935691	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.3567033E-05	0.00015123795	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.366979E-05	0.0001522098	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.3673763E-05	0.0001522098	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.3832497E-05	0.00015386677	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.3915381E-05	0.00015467825	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.3988789E-05	0.00015535536	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.400944E-05	0.00015535536	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.4014331E-05	0.00015535536	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.4066504E-05	0.00015580204	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.4097163E-05	0.00015596004	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.4187328E-05	0.00015680572	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.4233186E-05	0.000157201	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.4298992E-05	0.00015781588	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.434383E-05	0.00015819863	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.4683597E-05	0.00016171688	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.4719734E-05	0.00016200029	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.4830022E-05	0.00016298373	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.4890912E-05	0.0001635375	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.5139475E-05	0.00016603313	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.5359237E-05	0.00016814103	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.5364072E-05	0.00016814103	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.5465179E-05	0.00016912867	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.5664709E-05	0.00017119054	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.5687448E-05	0.00017131881	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.6077756E-05	0.00017535885	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.607991E-05	0.00017535885	NR_WEEK2vsWEEK0	Endoscopic_Remission

1.610578E-05	0.00017551806	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.6407647E-05	0.00017868271	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.6651551E-05	0.00018121216	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.6689257E-05	0.00018149567	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.6792742E-05	0.00018249363	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.6878733E-05	0.00018330022	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7170232E-05	0.0001863359	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7212036E-05	0.00018662679	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7221004E-05	0.00018662679	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7345973E-05	0.00018773523	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7347396E-05	0.00018773523	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7428398E-05	0.00018848086	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7498583E-05	0.00018908733	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.750876E-05	0.00018908733	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7553624E-05	0.00018944046	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7612063E-05	0.00018992138	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7622577E-05	0.00018992138	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7659945E-05	0.00019019248	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7896976E-05	0.00019261203	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.7976261E-05	0.0001933317	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.8027764E-05	0.0001937518	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.8081693E-05	0.00019419739	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.827577E-05	0.00019614649	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.8333962E-05	0.00019663553	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.8589401E-05	0.00019923795	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.8604699E-05	0.00019926477	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.8744547E-05	0.00020062463	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.879347E-05	0.00020101011	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.8915932E-05	0.00020218107	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.9080626E-05	0.00020366182	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.9097852E-05	0.00020370606	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.9512072E-05	0.00020798186	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.9641898E-05	0.00020922248	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.9769247E-05	0.00021043505	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.9874357E-05	0.0002114094	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.9957981E-05	0.00021205073	NR_WEEK2vsWEEK0	Endoscopic_Remission
1.996188E-05	0.00021205073	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.0236544E-05	0.00021452941	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.0402015E-05	0.00021613645	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.0442697E-05	0.0002164202	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.0595329E-05	0.00021788795	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.0640048E-05	0.00021821281	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.0724754E-05	0.0002189597	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.0961638E-05	0.00022131226	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.1019546E-05	0.0002217733	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.1042932E-05	0.00022186972	NR_WEEK2vsWEEK0	Endoscopic_Remission

2.1226093E-05	0.00022358221	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.1234065E-05	0.00022358221	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.1280012E-05	0.00022391461	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.141548E-05	0.0002251879	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.2025713E-05	0.00023123829	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.2035422E-05	0.00023123829	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.2133632E-05	0.0002321125	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.2597516E-05	0.00023649941	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.2685575E-05	0.00023715088	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.2735836E-05	0.00023739706	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.2759508E-05	0.00023739706	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.2851886E-05	0.00023820108	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.2991082E-05	0.00023949172	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.3154435E-05	0.0002410321	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.3559398E-05	0.00024508383	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.3896208E-05	0.00024842166	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.3915554E-05	0.00024845692	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.4099782E-05	0.00025020394	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.4241508E-05	0.00025150766	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.4852549E-05	0.00025750416	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.489689E-05	0.00025779207	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.5003845E-05	0.00025855569	NR_WEEK2vsWEEK0	Endoscopic_Remission
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2.5299693E-05	0.00026126798	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.5347912E-05	0.00026159247	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.569675E-05	0.00026501688	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.5735482E-05	0.00026524068	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.5896613E-05	0.00026654855	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.6036842E-05	0.00026781489	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.606003E-05	0.00026787647	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.6120809E-05	0.00026832411	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.6332839E-05	0.00027018743	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.6336898E-05	0.00027018743	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.63766E-05	0.00027041658	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.6531859E-05	0.00027182937	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.6601936E-05	0.00027236815	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.6777465E-05	0.00027391549	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.6788242E-05	0.00027391549	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.6818212E-05	0.00027404201	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.6913826E-05	0.00027483869	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.698828E-05	0.0002754184	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.7117798E-05	0.00027655892	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.7294905E-05	0.00027818296	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.7409575E-05	0.00027916894	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.7465997E-05	0.00027956077	NR_WEEK2vsWEEK0	Endoscopic_Remission
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2.7542886E-05	0.00027997739	NR_WEEK2vsWEEK0	Endoscopic_Remission
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2.8485984E-05	0.00028843448	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.855418E-05	0.00028893713	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.8586764E-05	0.00028907901	NR_WEEK2vsWEEK0	Endoscopic_Remission
2.8647084E-05	0.000289501	NR_WEEK2vsWEEK0	Endoscopic_Remission
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3.0030229E-05	0.00030288909	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.0564085E-05	0.00030807411	NR_WEEK2vsWEEK0	Endoscopic_Remission
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3.0863191E-05	0.00031028565	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.0955725E-05	0.00031101517	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.1007022E-05	0.00031132969	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.1052583E-05	0.00031158626	NR_WEEK2vsWEEK0	Endoscopic_Remission
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3.2499142E-05	0.0003248454	NR_WEEK2vsWEEK0	Endoscopic_Remission
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3.5714598E-05	0.00034990541	NR_WEEK2vsWEEK0	Endoscopic_Remission

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4.3388217E-05	0.00041427634	NR_WEEK2vsWEEK0	Endoscopic_Remission
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4.5168938E-05	0.00042928977	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.5181143E-05	0.00042928977	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.5353381E-05	0.00043066354	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.5393632E-05	0.00043078307	NR_WEEK2vsWEEK0	Endoscopic_Remission

4.5952676E-05	0.00043574554	NR_WEEK2vsWEEK0	Endoscopic_Remission
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4.6997718E-05	0.00044357301	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.7529282E-05	0.00044804692	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.7585069E-05	0.00044830144	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.777096E-05	0.00044978063	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.7830273E-05	0.00045006697	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.8287238E-05	0.00045409249	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.846909E-05	0.00045552755	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.8726512E-05	0.00045742763	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.8730009E-05	0.00045742763	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.9332158E-05	0.00046280103	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.954006E-05	0.00046429087	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.9550596E-05	0.00046429087	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.9585034E-05	0.00046433417	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.9617837E-05	0.00046436213	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.9980251E-05	0.00046747294	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.0741864E-05	0.00047374284	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.0869916E-05	0.00047465381	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.0928048E-05	0.00047478243	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.0944676E-05	0.00047478243	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.1280092E-05	0.00047733705	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.2146456E-05	0.00048511156	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.2324833E-05	0.00048648037	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.2520101E-05	0.0004880045	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.2593167E-05	0.000488392	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.2841903E-05	0.00049040939	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.3105396E-05	0.00049256124	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.3193188E-05	0.00049308186	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.3257403E-05	0.00049338343	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.3428523E-05	0.00049408693	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.3651343E-05	0.00049579915	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.3677349E-05	0.00049579915	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.3862603E-05	0.00049721536	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.4030208E-05	0.00049846708	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.4334582E-05	0.00050097836	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.4455195E-05	0.0005012657	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.4494499E-05	0.0005012657	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.4794582E-05	0.00050372846	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.4941264E-05	0.00050477894	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.5037289E-05	0.00050536303	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.5143412E-05	0.00050603911	NR_WEEK2vsWEEK0	Endoscopic_Remission

5.5328121E-05	0.00050743512	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.5371974E-05	0.0005075384	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.6277984E-05	0.00051523636	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.6529976E-05	0.00051712842	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.6551063E-05	0.00051712842	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.6614518E-05	0.00051740486	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.7050928E-05	0.00052108745	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.7221019E-05	0.00052203163	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.7237823E-05	0.00052203163	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.7254865E-05	0.00052203163	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.8016928E-05	0.00052867034	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.8071146E-05	0.00052885495	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.8318981E-05	0.00053080158	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.8374074E-05	0.00053099268	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.8525243E-05	0.00053205359	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.8559035E-05	0.00053205359	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.8746886E-05	0.00053344913	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.9898075E-05	0.00054358551	NR_WEEK2vsWEEK0	Endoscopic_Remission
5.9945932E-05	0.00054370297	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.0109647E-05	0.00054487051	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.0225528E-05	0.00054560335	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.0304997E-05	0.00054600565	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.0892567E-05	0.00055060186	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.0918706E-05	0.00055060186	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.1198043E-05	0.00055280575	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.1468655E-05	0.00055460682	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.1815279E-05	0.00055741131	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.2334655E-05	0.00056176943	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.307766E-05	0.00056813673	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.3177032E-05	0.00056870285	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.3322774E-05	0.00056968547	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.346187E-05	0.00057027796	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.3537128E-05	0.00057062497	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.36656E-05	0.00057144921	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.3722896E-05	0.00057152829	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.3747809E-05	0.00057152829	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.3849924E-05	0.00057211442	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.3916237E-05	0.00057237928	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.4939886E-05	0.00058121198	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.5295029E-05	0.00058405485	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.5426699E-05	0.0005846626	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.543806E-05	0.0005846626	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.6101719E-05	0.00058991523	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.6556903E-05	0.00059363725	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.6640513E-05	0.00059404276	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.6909738E-05	0.00059610146	NR_WEEK2vsWEEK0	Endoscopic_Remission

6.698792E-05	0.00059645676	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.8303356E-05	0.00060747468	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.8350582E-05	0.00060754772	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.9037113E-05	0.00061295037	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.9543605E-05	0.00061709547	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.9635382E-05	0.00061749555	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.0224367E-05	0.00062207285	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.0395872E-05	0.00062323759	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.0712069E-05	0.00062521236	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.0753006E-05	0.00062521236	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.0788367E-05	0.00062521236	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.0819663E-05	0.00062521236	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.136953E-05	0.00062970974	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.1507723E-05	0.00063027445	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.1629679E-05	0.00063093268	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.2471971E-05	0.00063799096	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.251882E-05	0.0006380427	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.3114154E-05	0.0006429174	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.3433469E-05	0.00064536084	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.392805E-05	0.00064896403	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.3941604E-05	0.00064896403	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.4103973E-05	0.0006497867	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.4476679E-05	0.00065268729	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.4520914E-05	0.00065270764	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.4589419E-05	0.00065294043	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.582087E-05	0.00066297496	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.616787E-05	0.00066563538	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.6411066E-05	0.00066738616	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.6725871E-05	0.00066976008	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.7551645E-05	0.0006762104	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.9168727E-05	0.00068992423	NR_WEEK2vsWEEK0	Endoscopic_Remission
7.9725889E-05	0.00069400295	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.0234598E-05	0.000698041	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.1266649E-05	0.00070623077	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.1533736E-05	0.00070815665	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.2463274E-05	0.00071583086	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.314222E-05	0.00072092082	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.3443858E-05	0.00072313367	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.3689321E-05	0.00072485751	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.4837638E-05	0.00073357942	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.5685678E-05	0.00074009044	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.576053E-05	0.00074032635	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.7265708E-05	0.00075248553	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.7328982E-05	0.00075261441	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.7773968E-05	0.00075561305	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.8775955E-05	0.00076270959	NR_WEEK2vsWEEK0	Endoscopic_Remission

8.8782831E-05	0.00076270959	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.8794227E-05	0.00076270959	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.8963952E-05	0.00076374621	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.9522573E-05	0.00076811847	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.9627843E-05	0.00076859824	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.9870614E-05	0.00077025595	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.0733238E-05	0.00077722151	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.1035204E-05	0.00077937945	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.1556774E-05	0.00078341408	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.2448761E-05	0.00079017814	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.2499997E-05	0.00079018237	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.3481056E-05	0.00079812527	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.3631264E-05	0.0007986673	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.3647113E-05	0.0007986673	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.3785573E-05	0.00079941036	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.4019342E-05	0.00080096456	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.411929E-05	0.00080137764	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.4260965E-05	0.00080214536	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.4719783E-05	0.00080516986	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.6260244E-05	0.00081737229	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.6539446E-05	0.00081885011	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.701137E-05	0.00082240505	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.7215284E-05	0.00082368532	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.7458392E-05	0.00082529611	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.8950311E-05	0.00083747456	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.9174929E-05	0.00083846426	NR_WEEK2vsWEEK0	Endoscopic_Remission
9.984021E-05	0.00084363081	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010050075	0.00084875174	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010072443	0.00084957197	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010076154	0.00084957197	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010108235	0.00085181575	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010135169	0.00085362355	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010248448	0.00086223164	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010316104	0.00086745515	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010335413	0.00086860977	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010382127	0.00087206509	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010436217	0.00087572411	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010436935	0.00087572411	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010535384	0.00088350851	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010595939	0.00088810847	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010628011	0.0008903175	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010652348	0.00089187644	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010763275	0.00090067966	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010776395	0.00090129324	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010845819	0.00090661266	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010893411	0.00091010241	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00010906116	0.00091050365	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00010979016	0.00091529022	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00011032257	0.00091923667	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00011048232	0.0009195837	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0001113376	0.00092571299	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00011325042	0.00094111461	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00011342951	0.00094170807	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00011379827	0.0009441558	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00011418279	0.00094684165	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00011426338	0.00094700565	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00011530498	0.00095389582	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00011532648	0.00095389582	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00011533974	0.00095389582	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00011551191	0.00095481261	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00011627866	0.00096013126	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00011671339	0.00096321022	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00011739814	0.00096834815	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00011812963	0.00097386595	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0001186252	0.00097743398	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012008293	0.00098839933	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012083391	0.00099405518	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012186427	0.00100155275	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012187391	0.00100155275	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012245593	0.00100527473	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012266692	0.00100557792	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012267856	0.00100557792	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012276417	0.00100557792	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012284382	0.00100557792	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012288029	0.00100557792	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012312625	0.00100611246	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012313086	0.00100611246	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012313943	0.00100611246	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012334666	0.00100727715	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012424989	0.00101412138	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012488107	0.00101873904	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012515542	0.00102044257	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0001263971	0.00103002722	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012710116	0.001035223	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012733695	0.00103660128	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012846887	0.00104526948	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012962603	0.00105368488	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012963849	0.00105368488	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012999205	0.00105600739	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00013032091	0.00105812697	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00013117864	0.00106453623	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00013165678	0.00106785989	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00013202837	0.00107031638	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00013289453	0.00107621766	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00013382947	0.00108322578	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00013426235	0.00108616497	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00013464496	0.00108869467	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00013500986	0.00109054365	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00013501369	0.00109054365	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00013528309	0.00109215325	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00013628249	0.00109965138	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00013691687	0.00110419802	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0001371728	0.00110568945	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00013787137	0.0011107454	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00013794599	0.0011107719	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00013890374	0.0011179059	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0001392087	0.00111978155	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00014108221	0.00113426604	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00014272826	0.00114690771	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0001428187	0.00114704258	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0001431086	0.00114877847	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00014394267	0.00115428387	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00014435978	0.0011570329	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00014565082	0.00116677995	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00014642205	0.00117173439	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00014649501	0.00117173439	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00014688684	0.00117426529	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00014718697	0.00117606086	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00014735543	0.0011768031	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00014780306	0.00117977296	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00014905423	0.00118854151	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00015000725	0.00119552861	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00015014998	0.00119605404	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00015261372	0.00121453934	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00015262656	0.00121453934	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00015442655	0.00122823529	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00015518693	0.00123314398	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00015520209	0.00123314398	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00015616298	0.00124014589	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00015683508	0.00124484843	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00015802464	0.00125365139	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00015829825	0.00125518263	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00015847067	0.00125572763	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00015931331	0.00126130465	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00015965486	0.00126336645	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00016163851	0.00127841366	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00016211544	0.00128153488	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00016271247	0.00128560185	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00016283892	0.00128594851	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.000163107	0.00128657286	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0001631369	0.00128657286	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00016322009	0.00128657286	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00016324844	0.00128657286	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00016343179	0.00128736637	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0001644783	0.00129495478	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00016549428	0.00130229529	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0001655859	0.00130235819	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00016584067	0.00130370356	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00016642257	0.00130761791	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00016798455	0.00131856021	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00016895172	0.00132548373	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00017005176	0.00133344209	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00017018145	0.00133349017	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00017022914	0.00133349017	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00017040814	0.00133394376	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00017045836	0.00133394376	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00017359306	0.00135779242	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00017380642	0.00135877878	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00017493662	0.00136692823	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00017579144	0.00137291883	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00017771624	0.00138725567	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00017810559	0.0013895984	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00017985516	0.00140184405	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00018001777	0.00140240956	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00018020866	0.00140319476	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00018036176	0.00140368502	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00018128934	0.00140955742	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00018167186	0.00141176444	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00018214165	0.00141470922	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00018356231	0.00142503279	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00018426115	0.00142903333	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00018534715	0.00143674024	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00018577894	0.00143937082	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00018683647	0.00144684457	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00018696231	0.0014470994	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00018774531	0.00145243799	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0001880753	0.00145426841	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00018949619	0.00146452814	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00018999526	0.00146765682	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00019017197	0.00146829351	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00019048988	0.00147001925	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00019061726	0.00147027369	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00019313573	0.00148896177	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00019391146	0.00149420249	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00019544657	0.00150528653	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00019674293	0.00151334148	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0001975098	0.00151817381	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00019836398	0.00152323581	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00019873538	0.00152442423	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00019881241	0.00152442423	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00019899604	0.00152508134	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0001999479	0.00153162256	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00020034622	0.00153391922	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00020103141	0.0015384089	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00020113678	0.00153845926	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00020183574	0.00154304758	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00020288307	0.0015501373	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00020296218	0.0015501373	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00020350286	0.00155350489	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0002039571	0.00155620968	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00021426803	0.00162532683	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00021626678	0.00163968967	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00021745825	0.0016479208	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00021769637	0.00164892293	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00021853558	0.00165447477	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00021919756	0.00165868006	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00022036569	0.00166670951	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00022113718	0.00167092153	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00022145659	0.00167252352	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00022519185	0.00169908563	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00022530584	0.00169912241	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00022671768	0.00170894211	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00022705244	0.00171063749	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00023309315	0.00175191103	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00023834447	0.00178878962	NR_WEEK2vsWEEK0	Endoscopic_Remission

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0.00024034462	0.00180206396	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0002413399	0.00180691648	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00024244074	0.00181428624	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00024408729	0.00182573074	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00024457546	0.00182850392	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0002456643	0.00183576302	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00024769826	0.00184603171	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00024875079	0.00185199574	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00025584157	0.00189815188	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00025825195	0.00190876014	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00027104675	0.00199198258	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00027198957	0.00199677205	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00029762194	0.00215569623	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00030396062	0.00219350264	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00031688601	0.00226786116	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00031798865	0.00227470702	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00032078117	0.00229257693	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00037610798	0.00262181273	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00039490171	0.00273081895	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00039581522	0.00273475501	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00039582211	0.00273475501	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00039830251	0.00275067186	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00040169283	0.00277162716	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0004019521	0.00277218777	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00040592124	0.0027983229	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00040631994	0.00279983202	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00040775648	0.00280830446	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00040791014	0.00280830446	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00040839824	0.00281042236	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00041066188	0.00282475152	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.000411306	0.00282793307	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00041156599	0.00282847183	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00041396687	0.00284246297	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0004152341	0.00284990771	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00041584953	0.0028528743	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00041676241	0.00285764401	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00041691178	0.00285764401	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00041727567	0.00285887988	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00041790807	0.00286195356	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00041935638	0.00287060965	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0004206365	0.00287810731	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00042224856	0.0028878686	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00042671883	0.00291656437	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00042707399	0.00291656437	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00042719343	0.00291656437	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00042975367	0.00293183548	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00043004287	0.00293216186	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.000430288	0.00293254925	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00043524857	0.00296376298	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00043728965	0.00297636004	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00043768405	0.00297774299	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00043900321	0.00298541352	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00044008441	0.00299104778	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00044021586	0.00299104778	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00044143773	0.00299804179	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00044203227	0.00300077097	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00044228878	0.00300120399	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00044263871	0.00300195381	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00044278481	0.00300195381	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00044329233	0.0030036338	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00044341836	0.0030036338	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00044488794	0.00301227819	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00044579504	0.00301710826	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00044867501	0.00303528061	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00045020189	0.00304428746	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00045135674	0.0030507719	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00045281741	0.00305931694	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00045497928	0.00307258991	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00045845867	0.00309340419	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00045928494	0.00309763724	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0004604112	0.00310388903	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00046090669	0.00310588485	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0004635435	0.00312230233	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00046492854	0.00313027766	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00046521893	0.00313087917	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00046544903	0.00313107461	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00046628822	0.00313536546	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00046889437	0.00315152869	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00046913279	0.00315177092	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0004695533	0.00315323567	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00047072589	0.00315720894	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00047075317	0.00315720894	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00047152538	0.00316102657	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00047204049	0.00316311814	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00047664739	0.00319261498	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00047807659	0.00319821938	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00047810022	0.00319821938	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00047882806	0.00320099256	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00047892588	0.00320099256	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00047943281	0.00320300606	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00048163805	0.00321454782	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00048177966	0.00321454782	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00048228541	0.00321654422	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00048585528	0.00323757991	NR_WEEK2vsWEEK0	Endoscopic_Remission

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0.00048795761	0.00324742042	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00049211631	0.00326950824	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00049359926	0.00327458778	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00049366787	0.00327458778	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00049372196	0.00327458778	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00049443994	0.00327795366	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00049501316	0.00328035745	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00049535098	0.00328119981	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00049944262	0.00330689624	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0005002721	0.00330957408	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00050117199	0.00331411949	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00050346857	0.00332789304	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00050718916	0.00335106356	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00051212011	0.003382208	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00051235302	0.00338231182	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00051438349	0.00339376809	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00051452427	0.00339376809	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00051701016	0.00340872109	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00051740685	0.00340989289	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00051886763	0.00341807343	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00052217866	0.00343843059	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00052344564	0.00344481588	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00052381198	0.00344481588	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00052484342	0.00345014209	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00052655502	0.00345993307	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00052775498	0.00346505298	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00053217659	0.00349245092	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00053303775	0.00349662884	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00053471549	0.00350615759	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00053761588	0.00352369195	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00053999	0.00353776371	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00054960669	0.00359019504	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00055014371	0.00359155165	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00055033314	0.00359155165	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00055068691	0.00359155165	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00055073687	0.00359155165	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00055189003	0.00359756526	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00055459656	0.0036121841	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00055788525	0.0036315065	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00055802961	0.0036315065	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00056253803	0.00365778901	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00056473843	0.0036690964	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00056474822	0.0036690964	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00056501182	0.00366927815	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0005660161	0.00367426791	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00057026864	0.0036987895	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00057272172	0.00371160854	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00057724105	0.00373934066	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00057756789	0.0037399022	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00057863433	0.00374446352	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00058868711	0.00380151927	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00058885157	0.00380151927	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00058903654	0.00380151927	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00061605024	0.00394479867	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00061693316	0.00394882867	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00061795534	0.00395213283	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00062204798	0.00397425643	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00062392685	0.00398376907	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00062481679	0.00398781632	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00062692508	0.00399963303	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00063048862	0.00402072042	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0006424032	0.00409000208	NR_WEEK2vsWEEK0	Endoscopic_Remission

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0.00066836058	0.00423449115	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00066927817	0.00423858032	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00067545228	0.00426900099	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00068497649	0.00431774071	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0007171987	0.00449454137	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00072082218	0.00451137375	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00072350162	0.00452209999	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00072362892	0.00452209999	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00073701472	0.00459468781	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00074287029	0.00462378861	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00079720198	0.00490510722	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00081016608	0.00497112543	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00081402811	0.00499088965	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00081439237	0.00499115794	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00081724077	0.00500545843	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00081736857	0.00500545843	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00082000922	0.00501965552	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00082041169	0.00502014585	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0008212279	0.00502316655	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00083392799	0.0050968448	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00083459428	0.00509891591	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00083655103	0.00510886635	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00083737839	0.00511129163	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00083880263	0.00511659749	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00084184947	0.00513317222	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00084355917	0.00513957238	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00084525024	0.00514786154	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00084867549	0.00516570103	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.0008488428	0.00516570103	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00085072562	0.00517313613	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00085072893	0.00517313613	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00085232473	0.00517879559	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00085388873	0.00518627503	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0008650702	0.00525009285	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00086998606	0.00527581501	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00087240004	0.00528479659	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00087313244	0.00528666079	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00087367095	0.0052878654	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0008746015	0.0052911285	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00087488961	0.0052911285	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00087596858	0.00529559733	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.000876572	0.00529718889	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00087818806	0.00530489633	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00088396047	0.00533769537	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00088644885	0.0053506465	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00088817464	0.00535898631	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00089163565	0.00537778542	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00089465826	0.00539392687	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00089652923	0.00540311518	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00090151841	0.00542898149	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00090355489	0.00543914198	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00090594866	0.00545144456	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00090677618	0.00545431652	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00090831699	0.00546147509	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00090908698	0.00546399517	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00091267428	0.00548344002	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00092149212	0.00553428339	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00092584537	0.00555828446	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00092670332	0.00555962786	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00092903332	0.00556952885	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00092914891	0.00556952885	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00093188887	0.00558380352	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00093271647	0.00558661292	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00093348043	0.00558903911	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00093737552	0.00561020328	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00093991461	0.00562323864	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00094065628	0.00562551466	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00094437267	0.00564557223	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00094606105	0.00565349531	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00094764325	0.00566010378	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00094789383	0.00566010378	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00094990295	0.00566992665	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00095027401	0.00566996828	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00095637551	0.00570200455	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00095708385	0.00570404391	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00095770251	0.00570554751	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0009582239	0.00570647065	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00095903887	0.00570914079	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00096365652	0.00573005839	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00096569278	0.00573997468	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00096637861	0.00574185964	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00096835896	0.00575143179	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0009711264	0.00576391711	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00097120134	0.00576391711	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0009718761	0.00576572437	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00097557283	0.0057854515	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00099785521	0.00589738108	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00099954789	0.00590290457	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00100175443	0.00591369284	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0010039287	0.00592410326	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00100427873	0.00592410326	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0010050819	0.00592659614	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00100793064	0.00593889668	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00101407802	0.00597059999	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00101888925	0.00599665999	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00102020154	0.00600211509	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00102189405	0.00600300114	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00102331045	0.00600905491	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00102858063	0.00603454291	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00102881342	0.00603454291	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00103365783	0.00606067524	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00103549003	0.00606913297	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00104057579	0.00609381632	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00104087532	0.00609381632	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00104937984	0.00613924568	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00105484368	0.00616632156	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00105607066	0.00617117761	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00105826986	0.00618170911	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00106346041	0.00620969966	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00106409802	0.00621109385	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00106763554	0.00622940738	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00106867866	0.00623315836	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00106962148	0.00623562308	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00106990206	0.00623562308	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00107267815	0.00624946386	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00107325494	0.00625048586	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00107472925	0.00625673217	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00107817851	0.00627080873	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00107835522	0.00627080873	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00108405061	0.00629687434	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00108558049	0.00630340975	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00108666708	0.00630501729	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00109537404	0.00634603218	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00109580311	0.00634603218	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00109618099	0.00634603218	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00111615332	0.00644249651	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00111883402	0.00645557697	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00112392421	0.00647535026	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00112467563	0.00647728313	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00113394003	0.00652822479	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0011387762	0.00655122341	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00114421859	0.00657821119	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00114431222	0.00657821119	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0011457807	0.00658179377	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0011484143	0.00659448963	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0011534761	0.0066211144	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00117033993	0.00669816383	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00117143818	0.00669952505	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0011725155	0.00670322463	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00117472686	0.00671340232	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00120785382	0.00686492973	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00122047712	0.00692627831	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00122480487	0.006946062	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00122548671	0.00694739882	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00123272958	0.00698337496	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00124032725	0.00702130724	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00125095819	0.00707891418	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00126730773	0.00715323786	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00127068604	0.00716451616	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00129039923	0.00726251799	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00129417328	0.00727587022	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0012959852	0.00728342747	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00129818058	0.00729313356	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00130037882	0.00730284865	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0013033504	0.00731689829	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00132055325	0.00740546481	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00132898623	0.00744739205	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00133221534	0.007462802	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00133273685	0.0074630388	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00133427616	0.00746897292	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00133513565	0.00747109864	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00133725696	0.00747491119	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00133839117	0.00747856681	NR_WEEK2vsWEEK0	Endoscopic_Remission

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0.00135061009	0.00753332769	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00135218725	0.00753942429	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00136493158	0.00759145696	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00136979781	0.0076077327	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00137028593	0.0076077327	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00137030053	0.0076077327	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00137358427	0.00762324584	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0014660793	0.00803351616	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00146670973	0.00803414374	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00147003016	0.00804384388	NR_WEEK2vsWEEK0	Endoscopic_Remission

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0.00148298776	0.00809898112	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00148331854	0.00809898112	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.001485912	0.00810791157	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00150409738	0.00817852953	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00150984502	0.00820405323	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00151424158	0.00822507293	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00151727254	0.00823866291	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00152493316	0.00827737336	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00152582278	0.00827931645	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00152842163	0.00829052943	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00153031776	0.00829792425	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00153699671	0.00833123902	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00154128272	0.0083515643	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00154608179	0.00837465451	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00154734985	0.0083786089	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0015516849	0.00839916196	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00155488433	0.00841355582	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00156058673	0.00844147869	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00156181446	0.00844518633	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00156631848	0.00846660108	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00156852638	0.00847559382	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00157938051	0.00852596153	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00157949008	0.00852596153	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00158423395	0.00854860545	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00158810571	0.00856652935	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0015922778	0.0085860603	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0015937939	0.00859126077	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00159645632	0.00860263467	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00159818219	0.00860895582	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00160541299	0.00864491582	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00160884356	0.00865568073	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00161120686	0.00866413138	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00161436876	0.00867741842	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00161479218	0.00867741842	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00161575532	0.00867959903	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00162071458	0.0087032373	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0016225435	0.00871005513	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00162611582	0.00872581738	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00162660039	0.00872581738	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0016312649	0.00874782653	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00163848379	0.00878351394	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00164799087	0.00883143903	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00164932388	0.00883554209	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00165133785	0.00884328899	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00167019928	0.00893623516	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0016704155	0.00893623516	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00167151586	0.00893905101	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00167469108	0.00895295716	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0016820549	0.00898923849	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00168496613	0.00900170756	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00168576601	0.00900289232	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00169182939	0.00902720679	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00169205783	0.00902720679	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00169829389	0.00905737352	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00170082061	0.00906774371	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00170725148	0.00909891423	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00170970847	0.00910889156	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00171335657	0.0091189685	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00171532617	0.00912511305	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00171568298	0.00912511305	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00171803223	0.00913212419	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00171817401	0.00913212419	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00174046736	0.00924745758	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00174962126	0.00929192975	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00175003082	0.00929192975	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00175423292	0.00931106654	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00175507305	0.00931235181	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00176874614	0.0093785099	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00177322488	0.00939905755	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00178179672	0.00944127944	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00178856268	0.00947092936	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00178916791	0.00947092936	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00178921686	0.00947092936	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00179230978	0.00948407753	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00179307805	0.00948415884	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00179354317	0.00948415884	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0018077942	0.00955433695	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00180859608	0.00955433695	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00180917201	0.00955433695	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00180926858	0.00955433695	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00181473766	0.00957996937	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00181589729	0.00958261783	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00181647003	0.00958261783	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00182046818	0.0096004575	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00182441496	0.00961801426	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00182733091	0.00963012666	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00183773393	0.00967645894	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00183798661	0.00967645894	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00184294536	0.00969600952	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00184562521	0.00970355211	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00184640457	0.00970437338	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00185113328	0.00972266394	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00185217425	0.00972485151	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00185404109	0.00973137238	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00185932671	0.00975582709	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00186122056	0.00975918782	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00187137297	0.00980581803	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00187403303	0.00981015594	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00187441933	0.00981015594	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00187450609	0.00981015594	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00187472061	0.00981015594	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00187953349	0.00983203731	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00188657758	0.00986557175	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00188915134	0.00987571459	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0018938584	0.00989699896	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00189583618	0.00990401103	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0018978365	0.00991017696	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00189828921	0.00991017696	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00191085922	0.00996911577	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00192738667	0.0100519734	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00193020734	0.01006331399	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00193423437	0.01008093435	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00194599297	0.01012314615	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00194623384	0.01012314615	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00194910026	0.01013467059	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00195028963	0.0101374701	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0019524397	0.01014525975	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00195469907	0.01015361197	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0019558021	0.01015595404	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00196768411	0.01020698847	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00196825187	0.01020698847	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00196996182	0.01021245522	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00198105304	0.01026312011	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00198316039	0.01026585665	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00198338132	0.01026585665	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00198734031	0.01027647978	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00198759116	0.01027647978	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00198934199	0.01028154703	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00198989166	0.01028154703	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00200425389	0.01035232033	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00200817725	0.01036703698	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00200843451	0.01036703698	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00200962537	0.01036786502	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00200992644	0.01036786502	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00201332519	0.01038195799	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00201401101	0.01038205676	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0020259094	0.01043993614	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00202820196	0.01044829281	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00203265215	0.01046775525	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00204147147	0.01050969759	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0020552943	0.01057386789	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00206174724	0.01060356335	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00206318765	0.01060746825	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00206393499	0.01060780845	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00206490065	0.01060927015	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00206599205	0.01061137673	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00206834118	0.0106164394	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00207562793	0.01064331703	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00208587356	0.01068881506	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00209241881	0.01071641451	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00209263575	0.01071641451	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00209666001	0.01073075959	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00211427366	0.01080944967	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00213719949	0.01091590935	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00216054662	0.01102792279	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0021653714	0.01104892819	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00216993778	0.0110686017	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00218966522	0.01116557187	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00219972223	0.0112131831	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00220446504	0.01123368259	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00221254653	0.01127117668	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00221917377	0.01130124038	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00222176164	0.01131072049	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0022253887	0.01132548306	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00222616176	0.01132571615	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00223265137	0.01135502281	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00223833866	0.01138023113	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00226622075	0.01149948019	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00226622389	0.01149948019	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00227576667	0.01154178525	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00227776309	0.01154674627	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0022907836	0.01160519617	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00230233145	0.01165990492	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00230565581	0.01167294473	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00230836319	0.01168285341	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00234483095	0.01183281022	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00235747674	0.01188892008	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00241495378	0.01213010267	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00241542724	0.01213010267	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00241759958	0.0121354874	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0024370139	0.01221094513	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00243876493	0.01221578843	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00245023081	0.01226533088	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0024842212	0.012419511	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00248886736	0.01243482926	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00248888222	0.01243482926	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00249499799	0.01246138667	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00249670822	0.01246593047	NR_WEEK2vsWEEK0	Endoscopic_Remission

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0.002501285	0.01248077902	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00253219275	0.0126067256	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00254925863	0.01266220664	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00255395023	0.0126745274	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00259382806	0.01283153886	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00265978205	0.01310369688	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00267322942	0.01316161928	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00267507486	0.01316654259	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00268216909	0.01319728885	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00268486513	0.01320638175	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00269619262	0.01325791212	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00269923882	0.01326870142	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00270228193	0.01327946877	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00271410965	0.01333338472	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00272101519	0.01336309352	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00272304302	0.01336883635	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00273572692	0.01342661799	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00273653667	0.01342661799	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00274633943	0.01347047052	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00274924354	0.01348046906	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00275281121	0.01349371386	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00275884067	0.01351901377	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00277597515	0.01359869803	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00278984264	0.01366233314	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00279298485	0.01366912417	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00279676131	0.01368330626	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00280107673	0.01369795743	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00280767319	0.0137237585	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00280926869	0.01372724858	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00281308335	0.01374157683	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00281942282	0.01376822562	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00282172341	0.01377514063	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00282451543	0.01378013121	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00284042533	0.0138490744	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00284240423	0.01385438532	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0028496806	0.01388116234	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00286274773	0.01393609577	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00286524667	0.01394390202	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00286632139	0.01394473171	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00286720805	0.01394473171	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00286897412	0.01394896469	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00287188714	0.0139587698	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00287550168	0.01397197743	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00288442486	0.0140069608	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00288539975	0.0140069608	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00289782426	0.014062891	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00290102447	0.01407403552	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00290543951	0.01409106493	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00290741392	0.01409625062	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00290849872	0.01409712124	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00291144488	0.01410701032	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00291389339	0.01411448265	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00292061744	0.01414265402	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.002924008	0.01415467099	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00292798548	0.01415943331	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00292845723	0.01415943331	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0029286287	0.01415943331	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00293824925	0.01420153805	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00294155945	0.01421312607	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00294250373	0.01421327873	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0029629621	0.01430322651	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00296785348	0.0143223992	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00297644808	0.0143508997	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00297652386	0.0143508997	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00299267446	0.01442430188	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00299980998	0.01445422054	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00301581855	0.01451886562	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00301684929	0.01451886562	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00302054963	0.0145316711	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00302633884	0.01455337243	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00302692951	0.01455337243	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00303010636	0.01456415011	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00304897965	0.01465034251	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00305167589	0.01465877501	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0030572699	0.01468111751	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00305985113	0.01468898324	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00306114971	0.0146906886	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00306597462	0.01470931075	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00307003123	0.01472423666	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00307733692	0.01475473146	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00309369997	0.01482405835	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00309725473	0.01483196432	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00310144967	0.01483815596	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00310150655	0.01483815596	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00310232433	0.01483815596	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00310235894	0.01483815596	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00310489286	0.01484571586	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00311219745	0.01487607456	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00311685075	0.01489374557	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0031232879	0.01491992714	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0031410479	0.01499097118	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00314493366	0.01500491785	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00315009958	0.01502036153	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00316425775	0.0150832525	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00317053182	0.01510853491	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00317347063	0.01511549437	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00317398013	0.01511549437	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00317490413	0.01511549437	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0031765886	0.01511696914	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00318324269	0.0151366835	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00318723474	0.01515103985	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00319558573	0.01518610212	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00320062394	0.01520540469	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00320933263	0.0152421278	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00322958748	0.01533364812	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00323360135	0.01534621533	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00323507053	0.01534621533	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00323536232	0.01534621533	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00323617615	0.01534621533	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0032390789	0.01535530464	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00324861398	0.0153958203	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00325387136	0.01541604465	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00326279052	0.01545199258	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00326344337	0.01545199258	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00326688712	0.01546213124	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0032675704	0.01546213124	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00327307817	0.01548212912	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00327378483	0.01548212912	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00327525476	0.01548437839	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00328409779	0.01551676423	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00329238675	0.01555120983	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00329852129	0.01557074023	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00330910166	0.01561595155	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00331266846	0.01562633333	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00331330846	0.01562633333	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00331559788	0.01563239655	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00332473275	0.01566597975	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00334268003	0.01574236146	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00334296471	0.01574236146	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00335013674	0.01576660003	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0033659981	0.01583646177	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00338672487	0.01591647699	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00338721066	0.01591647699	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00338811541	0.01591647699	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00341760983	0.01604535359	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00341908115	0.01604739343	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0034211357	0.01604739343	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00342527456	0.01606196951	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00342891561	0.01607420311	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0034315813	0.01608185844	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00343667233	0.01610087189	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00344686531	0.01614376947	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00345046763	0.01615578242	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00345667377	0.01617997612	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00345918109	0.01618684708	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00346256873	0.01619783201	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00347835064	0.01626677314	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00348417313	0.01628911084	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00348669807	0.01629602312	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0034903548	0.01630821943	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00349928991	0.0163450635	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00350375578	0.01636004297	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00350459792	0.01636004297	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0035067161	0.01636502541	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00350851214	0.01636850195	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00350990098	0.01637007723	NR_WEEK2vsWEEK0	Endoscopic_Remission

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0.00353548691	0.01647953838	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00354058875	0.01649838077	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00354683865	0.01652256009	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00356358574	0.01658493716	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00356525566	0.01658493716	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0035656907	0.01658493716	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00356652158	0.01658493716	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0035666188	0.01658493716	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00359539616	0.01669880836	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.003597448	0.0167033565	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00360249175	0.01672178959	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00360801162	0.01674242102	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0036170602	0.01677940973	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00361856308	0.01678138264	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00362775859	0.01681401324	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00364453732	0.01688675383	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00366325319	0.01695510291	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00366471792	0.01695510291	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00366473232	0.01695510291	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00367010742	0.016971337	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00367042079	0.016971337	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00368145691	0.01700962297	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00368197772	0.01700962297	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00368377966	0.01701290052	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0036879583	0.01702714928	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00371381627	0.01714145249	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00371916478	0.0171610528	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0037214269	0.01716640434	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0037469975	0.01726955494	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00374711527	0.01726955494	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00376369588	0.01733058425	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00376856156	0.01734493727	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00377341499	0.01735481145	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00379391176	0.01743363467	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00381001749	0.0175024786	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00381207718	0.01750677617	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00381845754	0.0175309078	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00383544171	0.01760369399	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00384798582	0.01765606459	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00385368278	0.0176717909	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00385976293	0.01769446218	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00386630476	0.01771923601	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00387148775	0.01773776954	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00387312104	0.01774003353	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00389436918	0.01782137783	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00391802164	0.01790356542	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00393771009	0.0179855387	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00393827053	0.0179855387	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00394658224	0.01801405687	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00394682862	0.01801405687	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00395805933	0.01806002283	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00395951325	0.01806136493	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00398005819	0.01813914139	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00398563717	0.01815925328	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00399304011	0.01818479363	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00399357826	0.01818479363	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00400342154	0.01822428636	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00400936128	0.01824599159	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00401058876	0.01824624562	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00401308489	0.01825226958	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00401857759	0.01826476631	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00401935107	0.01826476631	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00403612579	0.01833564379	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00408650662	0.018542881	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00409642365	0.01858246594	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00410921736	0.01862964832	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0041193729	0.01865396748	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00413357738	0.01870197573	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00414013882	0.01872078452	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00421706066	0.01903544513	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00422977179	0.01908728952	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00423673486	0.01911241289	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00423801218	0.01911241289	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00423902101	0.01911241289	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00424168873	0.01911890554	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.004244295	0.01912442687	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.004245755	0.01912442687	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00424659784	0.01912442687	NR_WEEK2vsWEEK0	Endoscopic_Remission

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0.00428785115	0.01928789891	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00429568325	0.01931754989	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00431740261	0.01937047274	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00431938856	0.01937380129	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00432917393	0.01941210066	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00433601089	0.01943156764	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00434389739	0.01946131015	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00434850702	0.019470759	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0043682122	0.01955336838	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00438011157	0.01960099926	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00438337447	0.01960752519	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00438408802	0.01960752519	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00438919303	0.01962472094	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00439593369	0.01964921795	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0044265864	0.01976727211	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0044375152	0.0198066564	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00444212506	0.01982155116	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00444559194	0.01983133866	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00444742986	0.01983385604	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00446088888	0.01987870538	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00446228875	0.01987870538	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00446246526	0.01987870538	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00446259256	0.01987870538	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00446755145	0.019895104	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00447028485	0.01990158548	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00447405244	0.01990697678	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00448062496	0.01993052629	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00449576809	0.0199921749	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00449898195	0.02000075534	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00450042924	0.02000147961	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00450657562	0.0200230819	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00451846442	0.02007017867	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00452393581	0.02008875177	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00454291959	0.02016155221	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00454563997	0.02016787784	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00455293884	0.02019450769	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00456122252	0.02022548926	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00457342337	0.02026804842	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00457989339	0.02028517629	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0045912047	0.02032949413	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00459499474	0.02033471245	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00461169833	0.02040283469	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00462576217	0.02045924289	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00463953979	0.02049714637	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00463979871	0.02049714637	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.004640913	0.02049714637	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00464399839	0.02050495804	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00464606384	0.0205082631	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00464990408	0.0205193982	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00465263573	0.02052563634	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00465545328	0.02053224979	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00465833944	0.02053706993	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00465918372	0.02053706993	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00467019245	0.02057976994	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00468090093	0.02062112312	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00468649202	0.02063517606	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00468674101	0.02063517606	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00469470609	0.02066120753	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00469530684	0.02066120753	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00469853752	0.02066958327	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0047086564	0.02070370346	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0047316951	0.02079782324	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00473960788	0.02081907468	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0047405406	0.02081907468	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00475494028	0.02087642654	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00476048712	0.02089488895	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00476875856	0.02092529642	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00477613773	0.02094868428	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00477677891	0.02094868428	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0047913517	0.02100667795	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0047957975	0.02102025173	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00480197612	0.02104141084	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00481393076	0.02108786039	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00482514005	0.021125079	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00483503063	0.02116243172	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00483747509	0.02116718168	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00484297746	0.02118530562	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00485164828	0.02121414761	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00485229524	0.02121414761	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00485865791	0.02123600326	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00487224155	0.02127745866	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0048802742	0.02130656297	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00488450687	0.02131906545	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00488746886	0.0213260164	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00488981385	0.02133027199	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00489161326	0.021332146	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00491011824	0.02140685089	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00493019222	0.02148835249	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00494354807	0.02154053555	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00494788387	0.02154737013	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00497017558	0.02163503568	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00497079289	0.02163503568	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00499328805	0.02172080304	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00500050644	0.02174612869	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00500456582	0.02175287349	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00500485107	0.02175287349	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00500795341	0.02176028415	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00501026075	0.02176423726	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00502064542	0.02180326577	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00502505818	0.02181634544	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00503281648	0.02184393841	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00503432417	0.02184439408	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0050391665	0.02185931475	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00504544721	0.02187947923	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00505510176	0.02191013074	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00506151889	0.02193184018	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00506429639	0.02193777124	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00506733938	0.02193980743	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00506758411	0.02193980743	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00507466745	0.02196436803	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00508663674	0.02201005666	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00509610296	0.02204489207	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00510366813	0.02207148677	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00510624048	0.02207648056	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00510850134	0.02208012526	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.005122561	0.02213263549	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00512349264	0.02213263549	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00512540384	0.02213475154	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00514028295	0.02218604465	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00514285536	0.02218604465	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00514297959	0.02218604465	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00516039487	0.02225500674	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00516470029	0.02226740798	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00516626626	0.02226799459	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00518415075	0.02232688231	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00518422953	0.02232688231	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00519075172	0.02234879088	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00521288927	0.0224349338	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00521364062	0.0224349338	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00522722883	0.02248719189	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0052455239	0.02255966408	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00525877343	0.0226104027	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.005270809	0.02264964363	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00527823658	0.0226663123	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00528156583	0.0226663123	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00528173002	0.0226663123	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00528784485	0.02268529142	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0052896872	0.02268694541	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00529272445	0.02269372188	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00529551302	0.02269942865	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00532236854	0.02280703812	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00532354611	0.02280703812	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0053375967	0.02286094428	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00535424967	0.02291966191	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00537578412	0.02300551966	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00538684636	0.02304652703	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00541448314	0.02314568926	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00541778191	0.02315343514	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00547442005	0.02338265042	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00547831719	0.02339288005	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0054866447	0.0234124031	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0054874453	0.0234124031	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00548771223	0.0234124031	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00548890283	0.0234124031	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00551536777	0.02351240687	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00551933418	0.02352287663	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00553391363	0.02357856005	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00554603149	0.02362359854	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00554870505	0.02362359854	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00554935218	0.02362359854	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00555188665	0.02362359854	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00555358597	0.02362359854	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00555998273	0.02364371574	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00556135175	0.02364371574	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00556449536	0.02364483122	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00556465077	0.02364483122	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00558815871	0.02372818785	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00558973982	0.02372818785	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00559036288	0.02372818785	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00559559004	0.02374390291	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00560354722	0.02377119064	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00565599376	0.02396104212	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.005673831	0.02403007075	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00572638731	0.02421972557	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00573267741	0.0242397462	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00574858687	0.02430041895	NR_WEEK2vsWEEK0	Endoscopic_Remission

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0.00577292558	0.02436362331	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00577813872	0.02437570899	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00577891977	0.02437570899	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00578702513	0.02440328795	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00580974017	0.02449244279	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00583843722	0.02460676127	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0058597159	0.02468308242	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00586131857	0.02468315688	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00590350147	0.02481952873	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00590645177	0.02481952873	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00592097059	0.02486711839	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00592790784	0.02488954131	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0059774851	0.02507066402	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00598512842	0.02509596254	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00598705153	0.02509726876	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00598933989	0.02509795606	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00599253993	0.02509795606	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00599306971	0.02509795606	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00613114275	0.02559002575	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00613253555	0.02559002575	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00614125284	0.0256195367	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00616330093	0.02569086866	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00618644249	0.02578043052	NR_WEEK2vsWEEK0	Endoscopic_Remission

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0.00620886023	0.02585309636	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00621244469	0.02585419591	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00622023674	0.02587970794	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00626015794	0.02601462484	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00642523072	0.02654114534	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00644326728	0.02660137302	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00644671077	0.02660137302	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0065098665	0.02683381443	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00652358414	0.02688324314	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00652682205	0.02688947083	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00654497863	0.02695491785	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00654616961	0.02695491785	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00655486117	0.02697644107	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0066234059	0.02720820367	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00663435169	0.0272459807	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00663808812	0.02725413824	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.006669104	0.02735984106	NR_WEEK2vsWEEK0	Endoscopic_Remission

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0.0066792207	0.02738396635	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00668025995	0.02738396635	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00669226409	0.02742595491	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00669960434	0.02744881306	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0067155944	0.0274998558	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00672185712	0.02751047767	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00672234391	0.02751047767	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00672348796	0.02751047767	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00672689618	0.02751482103	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00673935342	0.02755367573	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00675276731	0.02760127173	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00675662219	0.02760978154	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00677740029	0.02768742255	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00678572062	0.027714143	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00679372658	0.02773956581	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00680827727	0.02779137093	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0068288771	0.02786117452	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00685240472	0.02794984251	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00685934777	0.02797083603	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00686544057	0.02798323329	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00686598179	0.02798323329	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00688718382	0.02804029113	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00690648086	0.02811150715	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00690851317	0.02811243158	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0069575565	0.02830460485	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00696462586	0.02832596461	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00697871649	0.02837586211	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00699002639	0.02840701488	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0069941528	0.02841636879	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00699865356	0.02842723836	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.007004573	0.02844193173	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00700604655	0.02844193173	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00700775008	0.02844193173	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00701883223	0.02847948785	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00702475409	0.02849609156	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00708786829	0.02874462837	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00709100773	0.0287498733	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00710239025	0.02878103654	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00710547359	0.02878604064	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00715633141	0.02896194104	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00715893087	0.02896493386	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00716087897	0.02896529042	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00717005958	0.02899489427	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00718955703	0.02905864824	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00719747983	0.02908312232	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.00719979121	0.02908491532	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00720875046	0.02910332866	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00720995582	0.02910332866	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0072122459	0.02910502862	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00721857039	0.02912300431	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00726112978	0.02927195808	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00726562359	0.02928105119	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00726714588	0.02928105119	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00727114131	0.02928957153	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00727957306	0.02931518966	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00728456899	0.02931518966	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00728503076	0.02931518966	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00729051906	0.02932969605	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00730294981	0.02936453327	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00731747514	0.0294153434	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00733941495	0.02949592491	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00734601442	0.0295148304	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00735506586	0.02954357509	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00736654441	0.02955157033	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00737996111	0.0295976364	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00738189955	0.0295976364	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00738372937	0.0295976364	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00739826374	0.02964063835	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00740022097	0.02964085422	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00740244229	0.02964212746	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00740823752	0.02965770767	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00741234709	0.02966653336	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00742660668	0.02971313452	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00742780663	0.02971313452	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00743845963	0.02974143091	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00743869989	0.02974143091	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00744388368	0.02975451758	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00745159063	0.02977768048	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00745847645	0.02977917224	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00745882213	0.02977917224	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00745990866	0.02977917224	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00746152508	0.02977917224	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00748160228	0.02984400419	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00748782704	0.0298611858	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00754867239	0.03008842465	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00757096696	0.03015562367	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00757134069	0.03015562367	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00758230385	0.0301672968	NR_WEEK2vsWEEK0	Endoscopic_Remission

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0.007592334	0.03017749296	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00759967167	0.0301883341	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00759968904	0.0301883341	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00760087703	0.0301883341	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00761725801	0.0302456805	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00763285214	0.03029987418	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00763484286	0.03030005295	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00766079692	0.03039530967	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00767058174	0.03041863241	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0076929663	0.03048786788	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00769391387	0.03048786788	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00770047364	0.03050609921	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00770400976	0.0305123459	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00770832348	0.03052166835	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00772078995	0.03056231166	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00772251309	0.03056231166	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00778969086	0.03080468657	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00779593972	0.03082157126	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00779943838	0.03082757715	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00780411822	0.03083379883	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00782452963	0.03089538538	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00782771392	0.03090012393	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00786198399	0.0310188684	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00786377014	0.0310188684	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00786642774	0.03102143529	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00793931004	0.03127887422	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00793972836	0.03127887422	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00796080279	0.03135396606	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00796536589	0.03136218965	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00796691853	0.03136218965	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00797124439	0.03137128858	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00797327942	0.03137136949	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00797769272	0.0313800062	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00798016702	0.0313800062	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00798323896	0.0313800062	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00798481098	0.0313800062	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00799284885	0.03139975783	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00799460861	0.03139975783	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0080116609	0.03145879857	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00802786029	0.0315144614	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0080501605	0.03158607949	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00805376081	0.03159224612	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00805846574	0.03160274161	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0080615343	0.03160681613	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00813081616	0.0317983928	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00814732489	0.03185495618	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00815407781	0.03187190054	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00815575185	0.03187190054	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0081587507	0.03187562083	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00816283758	0.03188358908	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00819903196	0.03200890567	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0082237851	0.03207337977	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00822816038	0.032082409	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00826719037	0.03219927282	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00826847056	0.03219927282	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00828917007	0.03227181139	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00835900648	0.03249278322	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00842019253	0.03266299098	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00842110761	0.03266299098	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00842812172	0.0326739728	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00845780248	0.03276451692	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00858749355	0.03312683602	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0085926286	0.03313843616	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00876174585	0.03366559785	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00878241975	0.03372348218	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00887129833	0.03398591116	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00927095962	0.03522240893	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0092913003	0.03526606888	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0092915097	0.03526606888	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00930927154	0.03532487468	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00931994406	0.03534814634	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00933027152	0.0353786994	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.009344376	0.0354149349	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00935211318	0.03543563468	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00935745734	0.03544110129	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00935810752	0.03544110129	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00937321952	0.0354897028	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00939621375	0.03556811784	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00940313469	0.03558566623	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00941627297	0.035618076	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00942671875	0.03564892935	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0094403741	0.03568323927	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00944482944	0.03569141685	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00945788848	0.03573209542	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0094807466	0.03580976638	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00949829443	0.03585865192	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00955325224	0.03603185174	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0095653121	0.0360643194	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00957349052	0.03608130877	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00959267174	0.03614485291	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00960572795	0.03618529303	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00961339643	0.03620542265	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00961609937	0.03620684609	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00963131076	0.03625535473	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00965930136	0.03635193332	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00966604523	0.03636505918	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00966799614	0.03636505918	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00967197628	0.03636505918	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00967212965	0.03636505918	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00967486235	0.03636655355	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00969363754	0.03642833431	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00969994839	0.03643846518	NR_WEEK2vsWEEK0	Endoscopic_Remission

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0.00973574783	0.03655130208	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00975212859	0.03659627007	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0097524254	0.03659627007	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00978753804	0.0367191833	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0097907764	0.03672248578	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.00980819414	0.03675240794	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0098432798	0.03680201971	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.01302513926	0.04579826003	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01307119975	0.04594984058	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01308459972	0.04598656544	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01313022863	0.0461365186	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01314859076	0.04618019934	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0131572987	0.04620036362	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01319091847	0.04630797415	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01320044458	0.04633097214	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01322440828	0.04639871767	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01322570524	0.04639871767	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01325166184	0.04647930852	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01325898132	0.04649450936	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0132870904	0.04657319629	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01328740199	0.04657319629	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01330311459	0.04661777756	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01332209883	0.04667380093	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01333042369	0.0466819627	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01333478901	0.04668675118	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01334731611	0.04672010651	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01335256863	0.04672798904	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01336184442	0.04674994454	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01339416136	0.04685248762	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01344607328	0.04702351205	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01347761316	0.04711669713	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01348230251	0.04711846882	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0135141647	0.04719804595	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01353008591	0.04724305559	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01355219223	0.04730963675	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01359080693	0.04740960972	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01359574468	0.04740960972	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01359605195	0.04740960972	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0152791214 0.05182577346 NR_WEEK2vsWEEK0	Endoscopic_Remission

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0.01750760837	0.05758098947	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0175574139	0.05772041517	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01759721017	0.05783903629	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01770548726	0.05812665839	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01770610351	0.05812665839	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01775323245	0.05825349534	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01777131296	0.05828078401	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01777277617	0.05828078401	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01780721474	0.0583809773	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01781082792	0.0583809773	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01781664033	0.05838773986	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01783576955	0.05843813153	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01784317599	0.05844645818	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01785522772	0.05846498345	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01787943583	0.05853194329	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01789546255	0.05855726147	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.01791134235	0.05858713177	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01795010151	0.05870158144	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0179777015	0.05877949726	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01799168279	0.0588128623	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01799986874	0.05882727302	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01802813759	0.05890729894	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01804114314	0.05893742861	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01804903779	0.05895085265	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01806363282	0.05898615097	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01807827045	0.05901131835	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01807891863	0.05901131835	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01809424621	0.05904897239	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01810866098	0.05908363241	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01812086007	0.05911105024	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01815702217	0.05921660865	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01816714116	0.05923720462	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01819226049	0.05929082033	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01820279705	0.05929139479	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01824420862	0.05940474667	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01824931763	0.05940474667	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01825452142	0.05940474667	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01825631654	0.05940474667	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01826150856	0.05940474667	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01826584553	0.05940474667	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.01830360767	0.05950774159	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01831019951	0.05951674745	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.01837950356	0.05969218122	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01841173684	0.05978439903	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.01846837155	0.05988089739	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01851802048	0.06002937821	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01853783377	0.06008109997	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01865196998	0.06042994158	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01865895913	0.06043593397	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.01884383158	0.06089541176	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.01890205395	0.06104555914	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.01897668854	0.06126118794	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.01903256203	0.06141609791	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01905970679	0.06149094963	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01911303239	0.06163745154	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.01913164727	0.06167194017	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01914846261	0.06169836395	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01915173	0.06169836395	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01915606788	0.06169957499	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.01918703201	0.06177375429	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0192623126	0.06196944672	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.01942538854	0.0623606629	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.01944894644	0.06239379293	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.01945576875	0.06239388113	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02013785563	0.06402000966	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02013960235	0.06402000966	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02015325739	0.0640503423	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02024338191	0.06429847419	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02024371791	0.06429847419	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02026802645	0.0643625221	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02034828459	0.06457791642	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02035353095	0.06458140534	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02043121187	0.06481467968	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02339333314	0.07195425182	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02339815887	0.07195488312	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02347004517	0.07216170057	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02348988697	0.07220845041	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02353797536	0.07234199532	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02357162574	0.07243112226	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0236122158	0.07254153416	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02364691188	0.07262034889	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02368558892	0.07272391092	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02371647435	0.07279003843	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02376816857	0.07293432297	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02379457011	0.07300095356	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0238094375	0.0730321785	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02384054851	0.07309881117	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02387207855	0.07318107859	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02392009279	0.07328499018	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02393492674	0.07330848826	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02393717735	0.07330848826	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02394543264	0.07331935164	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02396283247	0.07334453795	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0239630777	0.07334453795	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02397274402	0.07335970578	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02399832904	0.07340914911	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02405059582	0.07355458145	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02406893191	0.07357929786	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02410231193	0.07365488692	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02425946984	0.07410269798	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02426312573	0.07410269798	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0242899765	0.07417015764	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02431692062	0.07423787587	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02434253674	0.07430151405	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02441815575	0.07451772282	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02444451771	0.07455864914	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02444806886	0.07455864914	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02445070335	0.07455864914	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02446579047	0.07459000686	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02448355113	0.07462954428	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.02453306771	0.07476584413	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02454555111	0.07478925209	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02457730875	0.07484208626	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02458394574	0.0748476612	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02461455837	0.0749262153	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02462037719	0.07492928162	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02465375031	0.07501618866	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02468496575	0.0750812654	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02468727184	0.0750812654	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02468960124	0.0750812654	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02470050157	0.07509974833	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02471125667	0.07511778259	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02472406214	0.07514204131	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02476732586	0.07525884206	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02484989687	0.07546855351	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02485087924	0.07546855351	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02488303951	0.07555148651	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02490499341	0.07560340398	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02491009678	0.07560415847	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02491761135	0.07561222946	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02494783497	0.0756744515	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02495656802	0.07568619937	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02496218678	0.07568849977	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.024993289	0.07575330666	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02517470574	0.07616974792	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02519118614	0.07620480609	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0252259434	0.07626364219	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02522742277	0.07626364219	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02522906859	0.07626364219	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02525198996	0.07631462055	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02534050147	0.0765543556	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02534317351	0.0765543556	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02534606418	0.0765543556	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02536055697	0.07656355814	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02536877673	0.07656355814	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02537646638	0.07657192617	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02539263872	0.07660588198	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02540870797	0.07663233791	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02541124979	0.07663233791	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02543429151	0.07667212962	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.02548051161	0.0767965952	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02548943465	0.07680862342	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02553046725	0.07690250804	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02553672806	0.07690649121	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02554528647	0.07691739098	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02555050542	0.07691823331	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0255620638	0.07693815607	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0256008085	0.07703988227	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02565894753	0.07719992075	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02572368759	0.07736481013	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02575303115	0.07743810659	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02578697966	0.07752521896	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02579321693	0.07752900353	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02580425689	0.0775472197	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02582675203	0.07759984746	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02584099231	0.07762765687	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02588473761	0.07774407304	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02593718191	0.0778865665	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02595266912	0.07791804822	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02599510209	0.0780178011	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02599714733	0.0780178011	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02600092389	0.0780178011	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02604635437	0.07810896911	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0260615508	0.07813949377	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02607089056	0.07815245019	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02611169913	0.07825971719	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02612787403	0.07827665067	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02621711889	0.07845487942	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02622842713	0.07846266242	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02622979648	0.07846266242	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02624149032	0.07847667943	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02627406693	0.07854982613	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02631383242	0.07865361079	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02634894858	0.0787434612	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02650013387	0.07908903504	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02652527534	0.07914890072	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02653714248	0.07916914174	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.02656629765	0.07924094105	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02660071913	0.07932841803	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02666009225	0.07947836921	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02666120855	0.07947836921	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02666906406	0.07948657123	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02676024332	0.07969731673	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02682936818	0.07985736823	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02683622137	0.07986250247	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02685771887	0.07991120672	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02692731869	0.08002655228	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02694225344	0.08005565977	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02699272283	0.08017502817	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02703539191	0.080267594	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02703935004	0.080267594	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02706374515	0.08032470045	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02711646068	0.08046582358	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02718703437	0.08064926606	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02719381597	0.08064926606	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02723103424	0.08074426814	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.0275241955	0.08144426456	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02752463651	0.08144426456	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02755632903	0.0815070678	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02760212125	0.0816115121	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02764815653	0.08171659548	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02766553276	0.08172142292	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02773451854	0.08183370755	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02773507407	0.08183370755	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02784678321	0.08213218843	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02791814973	0.08224100053	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02792064277	0.08224100053	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02793925001	0.08226550974	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02838561297	0.0832450865	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02839142012	0.0832450865	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02839516468	0.0832450865	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02848392978	0.08345486949	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02850536358	0.08348909156	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02860155186	0.08364678021	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02860201019	0.08364678021	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02862197755	0.08367391987	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02862203629	0.08367391987	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02863114554	0.08368484037	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02870966827	0.08389860462	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02872093389	0.08391577925	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0287266646	0.08391677881	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02876821049	0.08402238221	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02879494747	0.08406893831	NR_WEEK2vsWEEK0	Endoscopic_Remission

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0.02887448621	0.08422220899	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02906783657	0.08470277669	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02907187706	0.08470277669	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02910197903	0.08477462017	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02911773472	0.08480229303	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02912702284	0.08480229303	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02913607094	0.08480562973	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02914629006	0.08480562973	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02930866356	0.08521729232	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02932088526	0.08523691359	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02933052372	0.08524901938	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02934444001	0.08527355183	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02938903402	0.0853872065	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02941480505	0.08541308053	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02941948485	0.08541308053	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02942248355	0.08541308053	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02942958267	0.08541308053	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02943084763	0.08541308053	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02948046291	0.08554113077	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02953136525	0.08565691024	NR_WEEK2vsWEEK0	Endoscopic_Remission
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0.02961249801	0.08586025536	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02968840083	0.08604829075	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02973785201	0.0861595478	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0297470673	0.08617021561	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02976253271	0.08619898119	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02980527466	0.08629067527	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02984470141	0.08638876115	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02985684252	0.08640784399	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02987605841	0.08643902061	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02987871624	0.08643902061	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02992226135	0.08654891827	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02996069682	0.08663276497	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0299623754	0.08663276497	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.02997899524	0.08666472858	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03001646995	0.0867490992	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.03005354118	0.08681576642	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03007430265	0.08683734793	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03007774062	0.08683734793	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03008730424	0.08684885799	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03015709465	0.08703417996	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03016680019	0.0870460588	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0302016537	0.08709821352	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03021751006	0.08712780673	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03024550999	0.08719239671	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03029122622	0.08730802626	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03031901888	0.0873595402	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03032031817	0.0873595402	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03033229791	0.08737789037	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03038760265	0.08750483286	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03039622401	0.08751347689	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03040940766	0.08751907326	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03046228569	0.08765505821	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03049375008	0.08771318249	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03054356274	0.08780821826	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03054361913	0.08780821826	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03054370502	0.08780821826	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03060007472	0.08794481019	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03062539959	0.08799434462	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03063379182	0.088002221	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0306744085	0.08810264912	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03068827488	0.0881262225	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03078180373	0.08837295764	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03078554519	0.08837295764	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03080606818	0.08841557311	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03081239302	0.08841743071	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03091795306	0.08870328587	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03092905414	0.08870328587	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03092909794	0.08870328587	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03094360946	0.08872065936	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0309465499	0.08872065936	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03097937809	0.0887886293	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03098166131	0.0887886293	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03099642122	0.08881458466	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03109092203	0.08903838227	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03110352046	0.08904357802	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03115338353	0.08916589628	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03116134241	0.08917228691	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03118517013	0.08922407761	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03120249238	0.08925723987	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03124005069	0.08934097078	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03124323681	0.08934097078	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.03130333187	0.08946353224	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03133170252	0.08952818411	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03141200992	0.08972473046	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03143778361	0.0897818823	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03144923237	0.08979811069	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03146331826	0.08982186164	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03158218936	0.09009849366	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03158336075	0.09009849366	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03162013496	0.09018687944	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03162724602	0.09019064315	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03165016929	0.09022307924	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03165020753	0.09022307924	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03172154817	0.09040989563	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03173425111	0.09042955034	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03174367435	0.09043143246	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03174652548	0.09043143246	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03186670144	0.09075715828	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03192960839	0.09086984494	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03193787489	0.09087676333	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03201548554	0.09108095658	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03204043115	0.09113527567	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03220700602	0.09157562622	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03225780252	0.09168526161	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03226368911	0.09168526161	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03226457682	0.09168526161	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03226911442	0.09168526161	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03232017194	0.09181357856	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03233745461	0.09184592022	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03241657952	0.0920538645	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03250802698	0.09226429106	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03251195447	0.09226429106	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03251230731	0.09226429106	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03251437933	0.09226429106	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03256525169	0.09237993587	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03260418596	0.09246858277	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03262213209	0.09247166311	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03262295849	0.09247166311	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03262308593	0.09247166311	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03263334688	0.09248391465	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03264299012	0.09248575562	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03265181303	0.09248575562	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03267537544	0.09253566497	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03269278739	0.09256814146	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03273378918	0.09266738754	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03273997991	0.09266806744	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03274841651	0.09267510272	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.03281527065	0.09283055582	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03283143087	0.09285940301	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03284749465	0.09288796698	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03287111656	0.09293789002	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03288796122	0.09296863679	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03290577877	0.09298769721	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03290664608	0.09298769721	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03294157316	0.09306950631	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03302029374	0.09326275058	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03302194867	0.09326275058	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03309483687	0.09341778043	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03313137672	0.09350201727	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03313668743	0.09350201727	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03314581194	0.09351082054	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0331592452	0.09353177421	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03317316618	0.09353715678	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.033202492	0.0935876779	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03320310283	0.0935876779	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03325034687	0.09368692813	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03328741078	0.09377439366	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03331162271	0.0938256286	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03334088811	0.09389107605	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03337078749	0.09395828487	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03340329307	0.09403280604	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03341180524	0.09403976919	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03345433155	0.09412543906	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03347261696	0.09415987426	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03350033445	0.09422082508	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03351827649	0.09425426503	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03355470769	0.09432264674	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03356764226	0.09434197669	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03363479084	0.09451364088	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03365518034	0.09455387398	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03372519688	0.09472640149	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03372875466	0.09472640149	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03377841886	0.09482548401	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03378746381	0.09482548401	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03380172593	0.09482548401	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03380781151	0.09482548401	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03381216206	0.09482548401	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0338128013	0.09482548401	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03381883633	0.09482548401	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0338778439	0.09494194172	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03387865987	0.09494194172	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03388643159	0.09494663533	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03394055674	0.09506408097	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.03400870398	0.0952378254	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03402623603	0.09526979032	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03403406835	0.09527459041	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03405299648	0.09531044467	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03407127934	0.095344448037	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03409885333	0.09540449926	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03411546233	0.0954166837	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03412728723	0.09543261699	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03414849142	0.09547476784	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03415826974	0.09548496405	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03419440623	0.09556882416	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0342114028	0.09558499289	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03421860498	0.09558499289	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03427119573	0.09571472939	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03435822088	0.09594057267	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03436451896	0.09594095621	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03437489645	0.09595272672	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03441274814	0.09604116968	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03443252381	0.09607914233	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03446985039	0.09616159421	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03447442243	0.09616159421	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03451107976	0.0962466055	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03455022342	0.09633851912	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0346547646	0.09659542673	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03468552469	0.09666386472	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03472379911	0.09673590762	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03475340232	0.09678375078	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03481286828	0.09691469392	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03483015945	0.09692817604	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03486699095	0.09701333752	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03488386957	0.0970429619	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03489709402	0.09706241208	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03492581085	0.09712493793	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03493479847	0.09713258643	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03494881212	0.09715420405	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03505831453	0.097423828	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03513353534	0.0975826835	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03513427768	0.0975826835	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03514501962	0.09759511243	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03515228156	0.09759787499	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03517468338	0.09764266386	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03519096193	0.09767044201	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03519785048	0.09767215351	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0352098239	0.09768797213	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03523879594	0.09775093857	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03528777041	0.09785193174	NR_WEEK2vsWEEK0	Endoscopic_Remission

0.0353709282	0.09806506406	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03537923863	0.09807064491	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03544249923	0.09822851762	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03549174779	0.09833001039	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03552409438	0.09840212055	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0356350331	0.09869186742	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03568365291	0.09879138254	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03571334557	0.09885601324	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03572304359	0.09886528485	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03580272621	0.09905060496	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03582737119	0.09905726452	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03582743711	0.09905726452	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03582946047	0.09905726452	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03584560079	0.0990812107	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0358694718	0.09912959794	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.0358946884	0.09916409127	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03591865328	0.09921269731	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03597955987	0.09936330659	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03599156058	0.09937882499	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03601089281	0.09941457786	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03602401873	0.09943318747	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03608775709	0.09959146575	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03609811279	0.09959793879	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03611124515	0.09959793879	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03611194325	0.09959793879	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03611568486	0.09959793879	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03614326287	0.09963870289	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03617630959	0.0996945088	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03619058677	0.09971620804	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03621723668	0.0997453305	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03622069522	0.0997453305	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03624883111	0.09978841202	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.03631268487	0.09994652554	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.9322812E-37	6.3416966E-33	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2216715E-36	6.3416966E-33	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.4154079E-35	5.5105368E-32	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.9280334E-34	9.1196527E-31	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.4541743E-34	1.9347309E-30	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.9450101E-32	1.5450663E-28	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.1529383E-31	2.2443386E-28	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.826864E-31	9.8934138E-28	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.3529274E-31	9.8934138E-28	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1068938E-30	2.9508623E-27	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.6813286E-29	4.4099485E-26	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.3690185E-29	4.859909E-26	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.3132931E-28	1.3634609E-25	NR_WEEK4vsWEEK0	Endoscopic_Remission

2.6050197E-28	2.3863513E-25	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.9915041E-28	4.0911944E-25	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.5081111E-27	5.0675407E-24	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0750216E-26	7.9720532E-24	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.2481127E-26	4.2305156E-23	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.2317423E-25	1.4481218E-22	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.8709216E-25	1.7883545E-22	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.5294394E-25	2.108838E-22	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.6562401E-25	2.108838E-22	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0756913E-24	5.9827644E-22	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.48533E-24	7.9762222E-22	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.1507488E-24	4.5969229E-21	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0768686E-22	4.7914497E-20	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2912691E-22	5.585815E-20	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.3981844E-22	1.4302683E-19	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.8532369E-22	1.5791173E-19	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.444919E-22	2.9728134E-19	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2204645E-21	4.7515734E-19	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.6366907E-21	6.0686151E-19	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.022743E-21	7.3256223E-19	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.335212E-21	8.2650581E-19	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.2384483E-21	1.120719E-18	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.5733718E-21	1.5482852E-18	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.0104906E-21	1.6516653E-18	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.0908582E-21	1.6516653E-18	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.6093252E-21	2.1005515E-18	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.0894619E-21	2.2080838E-18	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.8583149E-21	2.3995596E-18	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.3514662E-21	2.5011035E-18	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0578408E-20	3.0483021E-18	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0765852E-20	3.0483021E-18	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.7395378E-20	4.8374683E-18	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.3884646E-20	6.4130276E-18	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.1850409E-20	1.104638E-17	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.7119149E-20	1.4825275E-17	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.5405833E-20	1.9250738E-17	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.6128521E-19	4.0511203E-17	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.7114224E-19	4.2304733E-17	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.8457089E-19	4.4911288E-17	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.2198504E-19	5.3184202E-17	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.4139987E-19	5.6959397E-17	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.2447797E-19	9.7211697E-17	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.6299271E-19	1.0449544E-16	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0447415E-18	2.3242512E-16	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.5169353E-18	3.3071431E-16	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.5290201E-18	3.3071431E-16	NR_WEEK4vsWEEK0	Endoscopic_Remission

1.6778989E-18	3.579441E-16	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0211243E-18	4.2533741E-16	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.066119E-18	4.2900895E-16	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.2760747E-18	4.6032873E-16	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.0313526E-18	1.0045289E-15	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.2331675E-18	1.0315964E-15	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.9039379E-18	1.1492753E-15	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.5592507E-18	1.2610767E-15	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.0777935E-18	1.3441766E-15	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.4449397E-18	1.5844945E-15	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0521519E-17	1.927666E-15	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.1434648E-17	2.0706019E-15	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.1947781E-17	2.0932525E-15	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.1977772E-17	2.0932525E-15	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.4322941E-17	2.4511117E-15	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.5883758E-17	2.6597609E-15	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0441806E-17	3.35095E-15	NR_WEEK4vsWEEK0	Endoscopic_Remission
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3.516456E-17	5.6455431E-15	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.4525485E-17	1.0253626E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.2440696E-17	1.1395141E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.2000328E-17	1.2738595E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.261723E-17	1.2738595E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.7833007E-17	1.3410034E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.1496985E-17	1.3833811E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0880227E-16	1.6292094E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.1523752E-16	1.709137E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2066423E-16	1.762595E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.6959278E-16	2.4009713E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.72796E-16	2.4242812E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.8657502E-16	2.5942257E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.962652E-16	2.7048123E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1575746E-16	2.9473604E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.3817003E-16	3.2252364E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.7993415E-16	3.7414155E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.0107419E-16	3.9734138E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.8291226E-16	4.9692438E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.0987918E-16	5.2752466E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.6924288E-16	5.9251222E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.717878E-16	5.9251222E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.877049E-16	8.4997051E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.2751537E-16	8.9209424E-14	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.303915E-16	1.0024563E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission

1.1975344E-15	1.4021957E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.9252964E-15	2.2189086E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.937787E-15	2.2189086E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1080784E-15	2.3962851E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.3303418E-15	2.6297401E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.411025E-15	2.6819209E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.5800788E-15	2.829547E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.6589497E-15	2.895652E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.2716961E-15	3.4897345E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.8525454E-15	4.0813395E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.6341574E-15	4.7899968E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.0541618E-15	5.1109391E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.0983525E-15	6.1070097E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
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7.8043294E-15	7.6438252E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.1045409E-15	7.888251E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.5399111E-15	8.2603748E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.7188325E-15	8.3813814E-13	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0973892E-14	1.0484443E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.1568037E-14	1.0984697E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.1769971E-14	1.1108712E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.3074712E-14	1.2192364E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.4493439E-14	1.3355404E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.2768248E-14	2.057586E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.2857662E-14	2.057586E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.4023004E-14	2.1500588E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.5420241E-14	2.2621109E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.774124E-14	2.4546269E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.8124301E-14	2.4744618E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.1097736E-14	2.705503E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.1342819E-14	2.7116762E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.8752354E-14	3.2977618E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.0715195E-14	3.4285177E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
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4.567172E-14	3.7896421E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
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4.7085401E-14	3.8796876E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.0170662E-14	4.0906163E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.2597817E-14	4.266176E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.2828326E-14	5.8461625E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.9826407E-14	7.100708E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.0280625E-14	7.100708E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.5517172E-14	7.4004424E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.6195668E-14	7.4161145E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission

9.9871809E-14	7.6615945E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0381401E-13	7.9249782E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2692643E-13	9.5952681E-12	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.5619519E-13	1.1694364E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.7145637E-13	1.2775551E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.8386647E-13	1.3570391E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.9136253E-13	1.4057022E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0029156E-13	1.4643852E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
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2.1416575E-13	1.5440756E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.5645925E-13	1.8071674E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.6067923E-13	1.8286296E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.6399834E-13	1.8436082E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.7075983E-13	1.8823852E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.8274289E-13	1.9569578E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.2692018E-13	2.2427877E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.3341204E-13	2.2772919E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.871386E-13	2.6099175E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.0908124E-13	2.7341726E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.2505172E-13	2.8287737E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
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4.9239642E-13	3.2491904E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
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7.4796911E-13	4.7738209E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.182141E-13	5.200836E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
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9.0277085E-13	5.6235402E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0025432E-12	6.1954782E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.1969441E-12	7.3385869E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2111934E-12	7.3968291E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2171008E-12	7.4038714E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2535878E-12	7.5961567E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.3293995E-12	8.0243171E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.3700307E-12	8.23764E-11	NR_WEEK4vsWEEK0	Endoscopic_Remission
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3.625295E-12	2.0308173E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.6464121E-12	2.0353253E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission

3.9602451E-12	2.2026035E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.4866681E-12	3.0079546E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.6141428E-12	3.0569596E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission
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6.8183361E-12	3.6363681E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.8475465E-12	3.6394827E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.2629374E-12	3.8340923E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.3562722E-12	3.8702442E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.6171137E-12	3.9939836E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.6365736E-12	4.4832453E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.8256082E-12	4.5634882E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.1797697E-11	5.9651146E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2099303E-11	6.0978138E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2185601E-11	6.1214956E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.2507322E-11	6.2428373E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2564401E-11	6.2512912E-10	NR_WEEK4vsWEEK0	Endoscopic_Remission
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2.2197387E-11	1.0539022E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.3467441E-11	1.1074499E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.3944283E-11	1.1265387E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
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3.7555715E-11	1.7151177E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.871641E-11	1.7629551E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.0327043E-11	1.8256193E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.6201311E-11	2.0794596E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.8352979E-11	2.1700316E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
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5.0642299E-11	2.2468733E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.206436E-11	2.3034042E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission

5.2493438E-11	2.3158082E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.3611851E-11	2.3584671E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.436812E-11	2.3849993E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.0585426E-11	3.0877158E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.8920527E-11	3.4234801E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.1679116E-11	3.5333024E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.7913968E-11	3.7820006E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.9879973E-11	3.8453319E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.2410469E-11	3.9427623E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.4444278E-11	4.0185266E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.6624034E-11	4.0918521E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.6693096E-11	4.0918521E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0245212E-10	4.3238128E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.033787E-10	4.3511257E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0648993E-10	4.4699935E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0896046E-10	4.5614014E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.1101254E-10	4.6348478E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2706012E-10	5.290661E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2900772E-10	5.3574325E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.3288754E-10	5.5038768E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.421244E-10	5.8552996E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.4761023E-10	6.0493002E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.7277725E-10	7.0436128E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.8138303E-10	7.3751383E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.8745581E-10	7.6022118E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.9081639E-10	7.7183992E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.946493E-10	7.8530401E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0469548E-10	8.2157803E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0581761E-10	8.2395826E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0651446E-10	8.2462813E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0824411E-10	8.2940806E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.2402176E-10	8.8545455E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.2922497E-10	9.0372671E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.490505E-10	9.7550556E-09	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.6318757E-10	1.0272231E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.6392288E-10	1.0275178E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.6801854E-10	1.040861E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.9433346E-10	1.1373834E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.9643E-10	1.1426496E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.9837937E-10	1.147324E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.2026157E-10	1.2284319E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.4024951E-10	1.3018933E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.4430185E-10	1.3141698E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.5537519E-10	1.349819E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.6639252E-10	1.38828E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.7649031E-10	1.4196328E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission

4.4579242E-10	1.6728495E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.616799E-10	1.7274757E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.6256813E-10	1.7274757E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.7435918E-10	1.7672716E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.7926229E-10	1.7812772E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.9026796E-10	1.8178436E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.9386912E-10	1.8268465E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.1486215E-10	1.8999878E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.2198652E-10	1.9217248E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.6622911E-10	2.0735088E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.6720911E-10	2.0735088E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.7633591E-10	2.1019389E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.8076218E-10	2.113133E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.0686212E-10	2.2029519E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.2260313E-10	2.2548369E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.4211781E-10	2.3201161E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.5881121E-10	2.3749229E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.5054245E-10	2.6820943E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.5091062E-10	2.6820943E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.53319E-10	2.6845393E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.5651712E-10	2.6897811E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.6113233E-10	2.7000259E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.8018589E-10	2.7512942E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.8088489E-10	2.7512942E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.0439402E-10	2.8277264E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.2993329E-10	2.910935E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.336546E-10	2.9174164E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.928297E-10	3.4589121E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0692784E-09	3.7086577E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.13293E-09	3.9206931E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2006963E-09	4.1459965E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2041628E-09	4.148767E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.214452E-09	4.1749803E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2270423E-09	4.2089714E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.244858E-09	4.2517219E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2449658E-09	4.2517219E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.3219341E-09	4.485072E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.3982573E-09	4.7234404E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.4543646E-09	4.9023421E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.4625961E-09	4.9194403E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.4862857E-09	4.9883465E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.492918E-09	4.9998307E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.4990361E-09	5.009547E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.5131297E-09	5.0458179E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.543322E-09	5.1355029E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.554197E-09	5.1591263E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission

1.557047E-09	5.1591263E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.5828645E-09	5.2335349E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.6036227E-09	5.2803126E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.6334239E-09	5.3665211E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.7893164E-09	5.8539966E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.9687822E-09	6.3870715E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
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2.0199943E-09	6.5264254E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0321013E-09	6.5519491E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0969008E-09	6.7469083E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.196357E-09	7.0523439E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.2813821E-09	7.3102805E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.3597575E-09	7.5458939E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.4612321E-09	7.8479337E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.4642905E-09	7.8479337E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.541631E-09	8.0777183E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
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2.6359278E-09	8.3433545E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.9697907E-09	9.3620547E-08	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.1992877E-09	1.004486E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.2149559E-09	1.0073744E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.424088E-09	1.0686037E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.5451946E-09	1.1041863E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.5818102E-09	1.1133639E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.7627753E-09	1.1672849E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.8003934E-09	1.1766109E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.8079658E-09	1.1766161E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.950746E-09	1.2159084E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
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4.0876683E-09	1.2530956E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.1545406E-09	1.2696858E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.2277664E-09	1.2868738E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.2630235E-09	1.2941143E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.384321E-09	1.3283469E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.4387018E-09	1.3422117E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.5238824E-09	1.364639E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
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4.784607E-09	1.4384302E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
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5.6925225E-09	1.6853546E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.7403448E-09	1.6962882E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.7548012E-09	1.6973394E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission

5.902101E-09	1.7309495E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
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6.2683241E-09	1.8246096E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.3275962E-09	1.8384264E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.4028806E-09	1.8568354E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.4554437E-09	1.868599E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.6162542E-09	1.9115942E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.9329589E-09	1.9956926E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.9732176E-09	2.0035778E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.99009E-09	2.0047269E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.0068576E-09	2.0058418E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.1344263E-09	2.0386132E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.2307791E-09	2.0623612E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.4761779E-09	2.1245715E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.5929999E-09	2.1538395E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.6548093E-09	2.1674245E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.7924913E-09	2.2024041E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.9554494E-09	2.2403293E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.4154948E-09	2.3656047E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.5059679E-09	2.3867286E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.998915E-09	2.5205055E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.0217149E-09	2.5223549E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.1342138E-09	2.5452326E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.1362295E-09	2.5452326E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.5078167E-09	2.644022E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.117745E-08	3.0862843E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.1305484E-08	3.1106061E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.1542899E-08	3.164746E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.1848695E-08	3.2427127E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.1868916E-08	3.2427127E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2083592E-08	3.2955828E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.2280391E-08	3.3375659E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.3436176E-08	3.6326662E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.3501755E-08	3.6377651E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.4437915E-08	3.8832755E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.4761776E-08	3.9635368E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.5468269E-08	4.1460818E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.5682038E-08	4.1889602E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.633467E-08	4.3558187E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.7155768E-08	4.55916E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.7599933E-08	4.6692292E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission

1.8171315E-08	4.8126171E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.9109518E-08	5.0525045E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.9358102E-08	5.10026E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.9685868E-08	5.1697812E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.9888945E-08	5.2000892E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
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2.7396047E-08	6.925952E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.7503709E-08	6.9419005E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.8160426E-08	7.096154E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.8236738E-08	7.103889E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.8341984E-08	7.1188663E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
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3.299842E-08	8.1828726E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
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3.5793238E-08	8.805815E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.9173431E-08	9.5919472E-07	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.286751E-08	1.0447195E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.372259E-08	1.0638936E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.4904393E-08	1.0892463E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.5200036E-08	1.0947125E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.5909868E-08	1.1084564E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.7420854E-08	1.1431656E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.75674E-08	1.144926E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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6.3417532E-08	1.4851146E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.397673E-08	1.4959604E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.5191769E-08	1.5220861E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.6069297E-08	1.5390613E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.6147977E-08	1.5390613E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.6215313E-08	1.5390613E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.6585353E-08	1.5453557E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.7314815E-08	1.5599607E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.8126086E-08	1.5764154E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.8955157E-08	1.5932324E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.1379855E-08	1.6468126E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.3770647E-08	1.6969428E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.5338741E-08	1.7304575E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.6094805E-08	1.7452495E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.040551E-08	1.8360044E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.408457E-08	1.9143991E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.4957164E-08	1.9286267E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.7736135E-08	1.9859227E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.0251672E-08	2.0398974E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.3932148E-08	2.1169397E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.5141716E-08	2.1318589E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.5344849E-08	2.133341E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.8779042E-08	2.2070101E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.0522067E-07	2.3341901E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.0652455E-07	2.3564018E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0954245E-07	2.4197227E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.1569719E-07	2.523394E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.1822359E-07	2.5713631E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.2144251E-07	2.6267003E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.2299536E-07	2.652918E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.2391851E-07	2.6617697E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.2875172E-07	2.7541903E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.3489016E-07	2.8658178E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.3915871E-07	2.9484607E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.7661369E-07	3.6623235E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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2.1607275E-07	4.3813815E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.2093067E-07	4.468251E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.2149927E-07	4.4739405E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission

2.2346742E-07	4.5078473E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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2.2855056E-07	4.5984727E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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2.4193423E-07	4.8489597E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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2.7617407E-07	5.4376467E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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3.6231262E-07	6.9230607E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.9740021E-07	7.5749247E-06	NR_WEEK4vsWEEK0	Endoscopic_Remission
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5.8021719E-07	1.0630262E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.8234071E-07	1.0649288E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.353824E-06	2.2792541E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.5507914E-06	2.5884753E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.5526861E-06	2.588863E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.5706641E-06	2.6160377E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.5748126E-06	2.620145E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission

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1.6699763E-06	2.7666533E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.9234629E-06	3.1497464E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.928358E-06	3.1544453E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.9327988E-06	3.1583921E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.9426082E-06	3.171094E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.9499502E-06	3.179746E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.9554112E-06	3.1853158E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.9602316E-06	3.1898314E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.982045E-06	3.2186013E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.9849896E-06	3.2200253E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.9950604E-06	3.2329944E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.013071E-06	3.2587895E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0204177E-06	3.2645506E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0215978E-06	3.2645506E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0229187E-06	3.2645506E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0794659E-06	3.3523315E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0969057E-06	3.3769506E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1437154E-06	3.4487686E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1628611E-06	3.4759789E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1910366E-06	3.5140074E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1934394E-06	3.514242E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.3377987E-06	3.7378378E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.353076E-06	3.7584054E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.4030872E-06	3.8343521E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.4115555E-06	3.8419856E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.4128054E-06	3.8419856E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.4254062E-06	3.8581053E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.4592241E-06	3.9079078E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.5289153E-06	4.0145563E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.5400469E-06	4.0281212E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.6602939E-06	4.2102395E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.6761192E-06	4.2309852E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.7106159E-06	4.2811787E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.8358499E-06	4.4653883E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.8532583E-06	4.4882618E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission

2.8795233E-06	4.5250067E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.8897804E-06	4.5365473E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.936919E-06	4.6012716E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.9799508E-06	4.6639974E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.0159157E-06	4.7060977E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.0350063E-06	4.7311464E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.0999452E-06	4.8275447E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.1196679E-06	4.848543E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.1227693E-06	4.848543E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.1598733E-06	4.9012656E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.2060192E-06	4.9678943E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.2598484E-06	5.0412731E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.3012605E-06	5.0983581E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.3423413E-06	5.1483958E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.4293927E-06	5.2720566E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.4589099E-06	5.3121898E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.4703169E-06	5.3244577E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.5488068E-06	5.4395245E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.5943629E-06	5.5039345E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.6226587E-06	5.5418137E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
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3.7072551E-06	5.6561643E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
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3.7462611E-06	5.7084661E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.7683212E-06	5.7358725E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.7716133E-06	5.7358725E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.7851735E-06	5.7508787E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.8664712E-06	5.8629558E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.9043768E-06	5.9146751E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.9231838E-06	5.9373898E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.0082215E-06	6.0584348E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.0109461E-06	6.0584348E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.0312378E-06	6.0831848E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.0617195E-06	6.1232486E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.126471E-06	6.2148484E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.2193976E-06	6.3486646E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.2423932E-06	6.3771033E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.29117E-06	6.4442034E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.3158743E-06	6.4750589E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.3334352E-06	6.4951479E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.3762002E-06	6.5529391E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.4880219E-06	6.7139255E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.6348973E-06	6.9269919E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.6525513E-06	6.9410716E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.697966E-06	7.0010933E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.8496181E-06	7.2201819E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission

4.8973716E-06	7.2843141E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
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5.0648088E-06	7.511835E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.1349425E-06	7.608607E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.1483743E-06	7.6212578E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.2230343E-06	7.7171075E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.2473666E-06	7.74571E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.280637E-06	7.7874394E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.2970722E-06	7.7969382E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.3921083E-06	7.921821E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.4196482E-06	7.9547767E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.5497954E-06	8.1228349E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.6487037E-06	8.2520884E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
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5.7901185E-06	8.4428385E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.8240082E-06	8.4843106E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.861861E-06	8.531473E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.0383041E-06	8.7763733E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
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6.0514402E-06	8.7827658E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.0670078E-06	8.7971613E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.1527406E-06	8.9131748E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.1851527E-06	8.9518013E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.2423315E-06	9.0250602E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
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6.3187346E-06	9.1091596E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
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6.3492188E-06	9.1298601E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.3605119E-06	9.1336148E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.3719631E-06	9.1372542E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.3918169E-06	9.157292E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.5118043E-06	9.3206184E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
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6.628737E-06	9.47058E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.6402028E-06	9.4707572E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.6410241E-06	9.4707572E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.6764259E-06	9.5125325E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.760876E-06	9.6240514E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.8958251E-06	9.8067472E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.9798321E-06	9.908562E-05	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.1678469E-06	0.0001015695	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.2492273E-06	0.00010262929	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.3060206E-06	0.00010333938	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.3788495E-06	0.00010427479	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.7205119E-06	0.00010897696	NR_WEEK4vsWEEK0	Endoscopic_Remission
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7.8490316E-06	0.00011041822	NR_WEEK4vsWEEK0	Endoscopic_Remission
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7.955246E-06	0.00011164499	NR_WEEK4vsWEEK0	Endoscopic_Remission
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8.171157E-06	0.00011381881	NR_WEEK4vsWEEK0	Endoscopic_Remission
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8.4473118E-06	0.00011703735	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.4775114E-06	0.00011732125	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.6516084E-06	0.0001195488	NR_WEEK4vsWEEK0	Endoscopic_Remission
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8.95947E-06	0.00012312199	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.0365001E-05	0.00014072725	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.0688652E-05	0.00014436633	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.1139658E-05	0.0001498082	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.1549595E-05	0.00015505332	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.7446701E-05	0.00022454336	NR_WEEK4vsWEEK0	Endoscopic_Remission

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1.7995305E-05	0.00023103123	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.8122133E-05	0.00023246785	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.8538834E-05	0.00023664366	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.8570716E-05	0.00023685648	NR_WEEK4vsWEEK0	Endoscopic_Remission
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1.9586091E-05	0.0002483829	NR_WEEK4vsWEEK0	Endoscopic_Remission
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2.0234635E-05	0.00025556689	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0562505E-05	0.00025949748	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0681641E-05	0.00026057863	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0861014E-05	0.00026252278	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0869659E-05	0.00026252278	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.0929494E-05	0.00026306296	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.09776E-05	0.00026345498	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1134919E-05	0.00026521683	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1199918E-05	0.00026573696	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1210495E-05	0.00026573696	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1271209E-05	0.00026628339	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1394435E-05	0.00026761087	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1423299E-05	0.00026775685	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1493159E-05	0.00026841456	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1526715E-05	0.00026861822	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1818717E-05	0.00027204394	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.1899875E-05	0.00027283741	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.2532133E-05	0.00028048994	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.2594031E-05	0.00028103582	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.2693976E-05	0.0002820537	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.2869546E-05	0.00028400912	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.3430815E-05	0.00029051599	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.3455602E-05	0.00029059196	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.3922718E-05	0.00029614347	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.3957246E-05	0.00029633533	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.4068047E-05	0.0002974696	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.4297018E-05	0.00029987809	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.4301429E-05	0.00029987809	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.4516617E-05	0.00030229397	NR_WEEK4vsWEEK0	Endoscopic_Remission

2.5011364E-05	0.00030815029	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.54098E-05	0.00031281171	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.5441797E-05	0.00031295822	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.5573718E-05	0.00031408479	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.6031139E-05	0.00031894801	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.6393343E-05	0.0003231317	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.6656371E-05	0.00032609557	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.6830238E-05	0.00032796491	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.7288264E-05	0.00033294844	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.7302072E-05	0.00033294844	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.7591549E-05	0.00033621533	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.7755722E-05	0.00033795141	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.8363686E-05	0.00034508413	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.8678578E-05	0.00034864285	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.894004E-05	0.00035154699	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.9015466E-05	0.0003521885	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.914352E-05	0.00035346732	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.9538988E-05	0.00035798494	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.9634536E-05	0.00035880841	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.9653016E-05	0.00035880841	NR_WEEK4vsWEEK0	Endoscopic_Remission
2.9937986E-05	0.00036197536	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.0517292E-05	0.0003686934	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.0582356E-05	0.00036919305	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.1035829E-05	0.0003743772	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.1075386E-05	0.00037456423	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.1647842E-05	0.00038087469	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.1771234E-05	0.00038203003	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.1792906E-05	0.00038203003	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.1884592E-05	0.00038283636	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.2795986E-05	0.00039347603	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.2867334E-05	0.00039402848	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.3599598E-05	0.00040249734	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.3827551E-05	0.00040491657	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.3910823E-05	0.00040560157	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.447876E-05	0.0004118558	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.4486609E-05	0.0004118558	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.4561475E-05	0.0004124336	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.5132042E-05	0.00041860084	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.5569619E-05	0.00042349058	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.5673753E-05	0.00042440592	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.5762908E-05	0.0004251418	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.5848599E-05	0.00042564037	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.5859511E-05	0.00042564037	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.5894019E-05	0.00042572549	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.5953256E-05	0.00042610355	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.6227228E-05	0.00042869804	NR_WEEK4vsWEEK0	Endoscopic_Remission

3.6426277E-05	0.00043072621	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.6693199E-05	0.00043323466	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.6694055E-05	0.00043323466	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.6788268E-05	0.00043401796	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.7292645E-05	0.00043963539	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.7533101E-05	0.00044213539	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.7679537E-05	0.0004431899	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.8070287E-05	0.00044744799	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.8184939E-05	0.00044845705	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.918175E-05	0.00045947093	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.9513063E-05	0.00046268934	NR_WEEK4vsWEEK0	Endoscopic_Remission
3.9515624E-05	0.00046268934	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.0973935E-05	0.00047940427	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.1184562E-05	0.00048150689	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.1355615E-05	0.00048314403	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.2686474E-05	0.00049794492	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.2867847E-05	0.00049968636	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.3051239E-05	0.00050144873	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.326281E-05	0.00050353643	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.3618658E-05	0.00050729901	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.4042895E-05	0.00051146905	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.4143794E-05	0.00051225879	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.4429104E-05	0.00051518573	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.4612606E-05	0.00051692866	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.4722645E-05	0.0005178184	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.5409902E-05	0.00052538514	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.5716592E-05	0.00052814873	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.5839065E-05	0.00052917106	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.7113761E-05	0.00054308112	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.7273864E-05	0.00054452358	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.7874985E-05	0.00055104001	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.8107651E-05	0.00055330905	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.8428535E-05	0.00055658862	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.8470873E-05	0.00055666438	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.8587252E-05	0.00055758974	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.8773613E-05	0.00055931626	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.8858848E-05	0.00055988141	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.9244633E-05	0.00056347293	NR_WEEK4vsWEEK0	Endoscopic_Remission
4.9984558E-05	0.00057151948	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.0857898E-05	0.00058065253	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.1986452E-05	0.00059310258	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.2176431E-05	0.00059483423	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.2460284E-05	0.00059763278	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.2927178E-05	0.00060251093	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.29915E-05	0.00060280251	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.321785E-05	0.00060493546	NR_WEEK4vsWEEK0	Endoscopic_Remission

5.3989128E-05	0.00061280809	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.4059773E-05	0.00061316304	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.4273002E-05	0.00061468615	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.5073511E-05	0.00062325885	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.5109962E-05	0.00062325885	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.5477987E-05	0.00062696567	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.5883251E-05	0.00063108765	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.6617179E-05	0.00063891256	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.6804048E-05	0.00064055716	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.7118227E-05	0.00064363397	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.7289791E-05	0.00064510044	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.7435428E-05	0.00064627306	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.7849075E-05	0.00065045751	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.8417283E-05	0.00065501765	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.842288E-05	0.00065501765	NR_WEEK4vsWEEK0	Endoscopic_Remission
5.9900925E-05	0.0006701416	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.0957267E-05	0.00068146986	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.1645221E-05	0.00068817278	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.2125446E-05	0.00069303694	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.2493116E-05	0.00069663944	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.3310457E-05	0.00070524588	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.447275E-05	0.00071665534	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.4555787E-05	0.00071706653	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.4810804E-05	0.00071938606	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.5253162E-05	0.00072378026	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.5399905E-05	0.00072489161	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.5850989E-05	0.00072873918	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.5880525E-05	0.00072873918	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.5887419E-05	0.00072873918	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.6182444E-05	0.00073148276	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.7845335E-05	0.00074933008	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.856195E-05	0.00075670818	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.8622822E-05	0.00075684363	NR_WEEK4vsWEEK0	Endoscopic_Remission
6.9934909E-05	0.00077076882	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.0523091E-05	0.00077670162	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.0950515E-05	0.0007808568	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.133464E-05	0.00078452991	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.1545899E-05	0.00078629801	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.2041409E-05	0.00079062781	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.2177275E-05	0.00079156106	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.2982697E-05	0.00079983078	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.4342899E-05	0.00081359239	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.4631721E-05	0.00081578396	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.4647926E-05	0.00081578396	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.5019003E-05	0.00081926433	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.5207564E-05	0.000820748	NR_WEEK4vsWEEK0	Endoscopic_Remission

7.5779418E-05	0.00082640958	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.6666462E-05	0.00083549812	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.7669855E-05	0.00084524993	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.8014946E-05	0.00084841253	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.8303159E-05	0.00085095261	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.8531384E-05	0.00085283769	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.8606636E-05	0.00085306003	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.8925412E-05	0.00085592301	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.9436405E-05	0.00086086509	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.9520603E-05	0.00086117827	NR_WEEK4vsWEEK0	Endoscopic_Remission
7.977027E-05	0.00086328173	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.0030991E-05	0.00086550182	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.0120388E-05	0.00086586731	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.0795622E-05	0.0008725591	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.1150525E-05	0.00087578457	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.1300923E-05	0.00087680005	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.1509093E-05	0.00087843675	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.1953768E-05	0.00088229752	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.2119533E-05	0.00088318197	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.3156673E-05	0.00089310267	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.4161959E-05	0.00090327649	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.4472061E-05	0.00090598031	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.5489754E-05	0.00091535693	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.557346E-05	0.00091535693	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.5581435E-05	0.00091535693	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.6749577E-05	0.0009265783	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.7139991E-05	0.0009301104	NR_WEEK4vsWEEK0	Endoscopic_Remission
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8.7764245E-05	0.00093549116	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.8840251E-05	0.00094631275	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.8984653E-05	0.00094720301	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.9185205E-05	0.00094868934	NR_WEEK4vsWEEK0	Endoscopic_Remission
8.9385143E-05	0.00095016712	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.0353596E-05	0.00095972907	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.040792E-05	0.00095972907	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.063968E-05	0.00096153388	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.0726569E-05	0.00096180045	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.1731981E-05	0.00097113673	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.1969656E-05	0.00097289578	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.2023083E-05	0.00097289578	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.2298133E-05	0.00097514167	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.2567857E-05	0.00097666615	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.2695255E-05	0.00097734815	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.3971468E-05	0.00099013374	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.4657833E-05	0.0009966913	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.5420489E-05	0.00100404276	NR_WEEK4vsWEEK0	Endoscopic_Remission

9.5907032E-05	0.0010084809	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.6031459E-05	0.0010091079	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.6731545E-05	0.00101509458	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.6927221E-05	0.00101646304	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.7527733E-05	0.00102207226	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.7633613E-05	0.00102249379	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.7842697E-05	0.00102399484	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.923162E-05	0.00103710972	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.9295614E-05	0.00103710972	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.9658574E-05	0.00104020307	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.977312E-05	0.00104047901	NR_WEEK4vsWEEK0	Endoscopic_Remission
9.9818637E-05	0.00104047901	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00010033611	0.00104517339	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00010203737	0.0010621845	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00010561761	0.00109871944	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00010594304	0.00110136915	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00010673164	0.0011088271	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00010860991	0.00112758808	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00010931362	0.00113413795	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00011075726	0.00114835073	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00011128211	0.00115275073	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0001140756	0.00118039821	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00011426745	0.00118159823	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00011634969	0.00120233158	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00011688948	0.00120710868	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00011856718	0.00122281241	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012065327	0.00124350319	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012086107	0.00124482109	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012125173	0.00124801931	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0001219597	0.0012544772	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012243711	0.00125695309	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012244255	0.00125695309	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012365421	0.00126772021	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0001237713	0.00126808579	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012441412	0.00127377017	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012448971	0.00127377017	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012495072	0.00127764776	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012609958	0.00128854902	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012625753	0.00128931704	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012664407	0.0012924168	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012695182	0.00129470905	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012714831	0.00129586433	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012850343	0.00130844443	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012856887	0.00130844443	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0001290053	0.00131135736	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00012969103	0.00131746803	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00013013558	0.00132026148	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00013197399	0.00133804098	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00013253018	0.00134280579	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00013298224	0.00134651005	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00013344913	0.00135035953	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0001335824	0.00135083028	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00013396829	0.00135385342	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00013466758	0.00136003771	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00013597102	0.00137167659	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00013599619	0.00137167659	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00013631758	0.00137402825	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00013717668	0.00138179327	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00013752705	0.00138442713	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00013835874	0.00139074454	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00013844753	0.00139074454	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00013860681	0.00139080143	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00013941322	0.00139799228	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00014085016	0.00141114926	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00014202433	0.00142142983	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00014336083	0.00143388454	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00014384252	0.00143777895	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00014482743	0.00144669501	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00014567113	0.00145419008	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00014708166	0.00146733036	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00014792061	0.00147357621	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00014797504	0.00147357621	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0001479916	0.00147357621	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00014843402	0.00147703706	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00014978604	0.00148953899	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00014988432	0.0014895651	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00015110657	0.00150075417	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00015123785	0.00150110072	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00015143227	0.00150207311	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00015353704	0.0015210129	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00015377879	0.00152243938	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00015422451	0.00152588205	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0001545766	0.00152839456	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00015654389	0.00154686416	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00015899483	0.00157008653	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00016001283	0.00157866617	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00016097355	0.00158660832	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00016138396	0.00158964737	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00016252763	0.00159937756	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00016265342	0.00159937756	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0001626799	0.00159937756	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0001628464	0.00160000439	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00016407904	0.00161109893	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00016562987	0.00162530176	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00016704156	0.00163812229	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0001676066	0.00164262909	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00016805584	0.00164599597	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00016818782	0.00164625327	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00016846552	0.00164674281	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00016848147	0.00164674281	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00016855507	0.00164674281	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00016890183	0.00164909605	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00016930584	0.00165200496	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00016974413	0.00165524445	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00017018061	0.00165742505	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00017092498	0.00166363421	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00017343812	0.0016870405	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0001779844	0.0017301817	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00017839313	0.0017330731	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00017873776	0.00173533864	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00018209107	0.00176569381	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0001822937	0.00176655872	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00018349007	0.00177704652	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00018562751	0.00179551381	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00018591887	0.00179721576	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00018901208	0.00182598337	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00018958071	0.00183034123	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00019227024	0.00185325085	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00019252641	0.00185418292	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00019385828	0.00186355248	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00019521512	0.00187492698	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00019528714	0.00187492698	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00019540272	0.00187492698	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00019626012	0.00188083626	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00019705944	0.00188733497	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00019904004	0.00190396227	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00020102103	0.00192173147	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00020117744	0.00192180801	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00020127585	0.00192180801	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0002023478	0.00193085929	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00020256605	0.00193175818	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00020285412	0.00193332143	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00020399015	0.00194295941	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00020427049	0.00194444032	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00020580347	0.00195664069	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00020745632	0.00196794881	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00020746923	0.00196794881	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00020749836	0.00196794881	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00020771278	0.00196878335	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00021728179	0.00205697835	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00021915741	0.00207347405	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00021989247	0.00207916543	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00022077841	0.00208501039	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00022182087	0.00209358572	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00022283624	0.00210189504	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00022423602	0.0021138181	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00022539394	0.00212280028	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00022546148	0.00212280028	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00022737528	0.00213952583	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00022971518	0.00216023826	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0002299972	0.00216158502	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00023488977	0.0022059878	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00023505298	0.0022059878	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00023514671	0.0022059878	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00023754934	0.00222718595	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00023931035	0.00224234658	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00024075951	0.00225456879	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0002410621	0.00225604575	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00024190089	0.0022625361	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0002481257	0.00231658369	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00024887221	0.00232216117	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00025003659	0.00233162865	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00025103841	0.0023395698	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00025471118	0.0023709607	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00025530269	0.00237504706	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00025654402	0.00238517013	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00026257973	0.0024398294	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00026401753	0.00245172627	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00026660851	0.00247431132	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0002668456	0.00247503667	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00026717719	0.00247663713	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00026753584	0.00247848643	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00027151419	0.00251384689	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00027324896	0.00252481747	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00027334761	0.00252481747	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00027510331	0.00253952807	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00027726964	0.0025580095	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00027807826	0.00256395072	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00028012325	0.00257975129	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00028241267	0.0025986861	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00028251304	0.0025986861	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00028273071	0.00259915312	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0002840941	0.00260860699	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00028458118	0.00261153959	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00028961614	0.00265617909	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00029020416	0.00266000557	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00029379269	0.00269131382	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00029466322	0.00269770152	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00029524656	0.00270145397	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00029600616	0.00270681386	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00029672331	0.00271177945	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00029811885	0.00272293543	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00029889218	0.00272680018	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00029927691	0.00272855426	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00029943487	0.00272855426	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00030134105	0.00274431825	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00030332134	0.00276073827	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00030413443	0.00276652192	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00030942878	0.00280812026	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00031176174	0.00282435457	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00031271814	0.00282972669	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00031661799	0.00286335186	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00031709177	0.00286597225	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0003173332	0.00286649064	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00031757992	0.00286703946	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00031776216	0.00286703946	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00031823873	0.00286906195	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00031835478	0.00286906195	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00032146523	0.00289374452	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00032417832	0.00291648124	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00032501766	0.00292234412	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00032744572	0.00294247677	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0003280207	0.0029442566	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00032802191	0.0029442566	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00032926214	0.00295368627	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00033328682	0.0029880689	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00033413673	0.00299396504	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00033695416	0.00301747389	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00033784291	0.00302224874	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00033799881	0.00302224874	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00033806956	0.00302224874	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0003406664	0.00304371651	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00034718103	0.00309340311	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00034722074	0.00309340311	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00034773353	0.00309620023	NR_WEEK4vsWEEK0	Endoscopic_Remission

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0.00035236052	0.00313202644	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00035613997	0.00316201122	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00035649785	0.00316338518	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0003588746	0.00318266184	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00036200487	0.00320821176	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.0003646147	0.00322805267	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00037334171	0.00329396325	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00037349334	0.00329396325	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00037373707	0.00329396325	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00037690757	0.0033198991	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00037797597	0.00332554788	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00038943761	0.00341866515	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00039019868	0.00342341639	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00039045922	0.00342377329	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00039087725	0.00342551007	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00039213465	0.00343414845	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00040445366	0.00352465412	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00040758127	0.00354691849	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00040769178	0.00354691849	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00040918767	0.00355794503	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00040946721	0.00355838885	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00041176293	0.00357435013	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00041578477	0.00360725136	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0004238936	0.00367482188	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00042404514	0.00367482188	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00042705202	0.00369676548	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00042769363	0.00370026275	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00042918746	0.00371112508	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00043019481	0.00371777124	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00043194266	0.00373080588	NR_WEEK4vsWEEK0	Endoscopic_Remission

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0.00043819115	0.00377639773	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00043977956	0.00378799068	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00044089681	0.00379551469	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00044294252	0.00381101873	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00044391839	0.00381730592	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00044674585	0.00383686432	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00044693199	0.00383686432	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00044767693	0.00384114205	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00044972459	0.00385446401	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00045226686	0.0038719911	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00045299718	0.00387611271	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00045478093	0.00388923858	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00045938069	0.00392641904	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00046041741	0.00393312143	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00046525148	0.00397198387	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00046547682	0.00397198387	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00046596001	0.00397392947	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00046676914	0.00397855025	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00046701277	0.00397855025	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00046949919	0.00399754562	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00047020861	0.00400019957	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00047239987	0.00401346602	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0004758035	0.0040345631	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00047591937	0.0040345631	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00047680894	0.00403990514	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0004783428	0.00405069733	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00047962549	0.00405935203	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00048296957	0.00408543464	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00048503073	0.00409973032	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00048518609	0.00409973032	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00048586228	0.00410308484	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00048611003	0.00410308484	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00048653754	0.00410446868	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00048724647	0.00410822379	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00048868652	0.0041181359	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0004925808	0.00414646534	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00049295169	0.00414721731	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00049320275	0.00414721731	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00049438732	0.00415493457	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00049718983	0.00417623371	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00050267484	0.00421775612	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00051558251	0.00432140284	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00051797344	0.00433910722	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00051911856	0.004346362	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00052082994	0.00435834744	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00052647019	0.0043984551	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00052986565	0.00442444922	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00053366847	0.00445265266	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0005338151	0.00445265266	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00053493791	0.00445962961	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00053625684	0.00446686284	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00053637922	0.00446686284	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00053698741	0.00446953767	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00053852743	0.0044799614	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00053904876	0.00448190404	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00054492032	0.00452347772	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00055266616	0.004585333	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00055299772	0.00458564086	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00055403255	0.00459177698	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00055446381	0.00459290685	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00055907299	0.00462862499	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00056008337	0.00463452625	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00056142788	0.00464318448	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00056211122	0.00464636842	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00056264746	0.00464833359	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00056324169	0.00465077565	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00056454573	0.00465907293	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00056548166	0.00466394465	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00056573502	0.00466394465	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00056796447	0.0046798469	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00056840057	0.00468096355	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0005690713	0.00468401026	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00056964145	0.00468622622	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00057172645	0.00470089545	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00057267889	0.00470585194	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00057293362	0.00470585194	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00057431137	0.00471468156	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00057728074	0.00473656112	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00058072874	0.00475852786	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00058100108	0.00475852786	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00058118025	0.00475852786	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00058341824	0.00477434171	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00058396564	0.00477631142	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00058469117	0.00477973518	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0005853095	0.00478227955	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00058993898	0.00481505224	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00059058084	0.00481776609	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00059107923	0.00481930725	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00059314206	0.00483359564	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00059624017	0.00485630137	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00059790619	0.00486732523	NR_WEEK4vsWEEK0	Endoscopic_Remission

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0.00060608559	0.00492875763	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00060888456	0.00494893488	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00061195791	0.00496872808	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00061324921	0.00497661798	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00061378018	0.00497833265	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00062407905	0.00505923114	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00062669799	0.00507781885	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00062867109	0.00509115699	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00062934599	0.00509261052	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00062950461	0.00509261052	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00063251326	0.00511429332	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00063491653	0.0051310613	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00064010343	0.00516761571	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00064267852	0.00518571637	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00065145995	0.00525113138	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00065335663	0.00526369519	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00065659449	0.00528592601	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00065679489	0.00528592601	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00065856958	0.00529747112	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00066319158	0.00533189598	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00066728761	0.00535929341	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00066801984	0.00536069979	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00066815118	0.00536069979	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0006730749	0.00539742298	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00068363496	0.0054792832	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00068437115	0.00548236207	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00069274113	0.00554037608	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00069303619	0.00554037608	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00069885477	0.00558402535	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00070363617	0.00561646646	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00070510995	0.00562534698	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00070918474	0.00564146916	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00071328078	0.005668676	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00071358745	0.005668676	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0007138171	0.005668676	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00071552245	0.00567353924	NR_WEEK4vsWEEK0	Endoscopic_Remission

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0.00071980915	0.00569592885	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00073272534	0.00578637512	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00073372785	0.00579135517	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00073999682	0.00583787762	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00074490061	0.00587358845	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00075181625	0.00592212164	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0007535369	0.00593267453	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00116598458	0.00862607022	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00123399952	0.00906038402	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00123589342	0.00906657204	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00123600671	0.00906657204	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00123666221	0.00906710951	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0012416086	0.00909909212	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00124336461	0.009107675	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00125737747	0.00920598933	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00126092008	0.00922325427	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00126717458	0.00926112184	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00126728637	0.00926112184	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00126866079	0.00926681726	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00128600359	0.00938909234	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0012942133	0.00944460343	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00130183999	0.00949580995	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00130745851	0.0095323274	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00131023783	0.00954671673	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0013109701	0.00954671673	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00132068282	0.00961074465	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00132359557	0.00962744226	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00132521393	0.00963471359	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00132644509	0.00963916444	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00132988172	0.00965963059	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00133123699	0.00966496675	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00133616113	0.00969619632	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00134002626	0.0097197154	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00134823212	0.00977468284	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00135418323	0.00981325987	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0013594801	0.00984706211	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00136869474	0.0099091972	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00138965992	0.01005483943	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00139074836	0.01005483943	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00140223825	0.01012713364	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00140269873	0.01012713364	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00140854507	0.01016463036	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00141397947	0.01019912104	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00142129275	0.01024632633	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00142664274	0.01027260701	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00143384065	0.01031848446	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00143516019	0.01032320998	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00143603667	0.01032474565	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00144194316	0.01035287267	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00144654007	0.01038109149	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00145118669	0.0104096409	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00145543428	0.01043222463	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00145567483	0.01043222463	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0014598743	0.01045269997	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0014683158	0.01050235134	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00146883085	0.01050235134	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00146883203	0.01050235134	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00147824468	0.01056480236	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00148132975	0.0105819946	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00148273133	0.01058715036	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00148551104	0.01060213721	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00148932889	0.01062451614	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00149603419	0.01066746356	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00149815075	0.01067672881	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00149870476	0.01067672881	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00150048176	0.01068450046	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00150186071	0.01068501411	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00150192615	0.01068501411	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00150446697	0.01069298859	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00150456661	0.01069298859	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00150510698	0.01069298859	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00150637354	0.01069710677	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00150807584	0.01070431405	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00151220065	0.0107287019	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00151367087	0.01073424245	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0015182105	0.01076153486	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00152616997	0.01081303227	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00153322282	0.01085806226	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00153796771	0.01088671416	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00153928386	0.0108910802	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00154126699	0.01090015929	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00154686144	0.01093475864	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00157393272	0.0111160337	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00158646136	0.01119943915	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00158922332	0.01121385352	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00159178124	0.01122681582	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00160078912	0.01128523718	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00160484317	0.01130542346	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00160510443	0.01130542346	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00160919508	0.01132417606	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00160922119	0.01132417606	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00161494768	0.01135934068	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00161614086	0.01136260119	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00161964881	0.01137864811	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0016198846	0.01137864811	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00162165386	0.011383196	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00162199396	0.011383196	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00162380928	0.01139080266	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00163309356	0.01145077264	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00163567265	0.01146369495	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00163954678	0.011480801	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00163958784	0.011480801	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.001642047	0.01148932122	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00164291465	0.01148932122	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00164301794	0.01148932122	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00165095951	0.01153967346	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00165460336	0.01155995432	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00165733391	0.01157383901	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00166585965	0.0116281633	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0016675819	0.01163496997	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00167744458	0.01169330547	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00168225855	0.01172161631	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00168404621	0.01172882454	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00169339446	0.01178865979	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00170882332	0.01188342897	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00170929692	0.01188342897	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00171265322	0.0118961412	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00171421822	0.01190170323	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00171962019	0.01193388823	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00172461189	0.01196319867	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00172827464	0.01198326846	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00173488308	0.01202157965	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00174185374	0.01205595035	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00175184865	0.01211570696	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00175204341	0.01211570696	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0017612094	0.01217368574	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00176223804	0.01217539174	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0017687882	0.01221522775	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00177854659	0.01227717465	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00178495262	0.01231593582	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00178659254	0.01232179167	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00178752603	0.01232277238	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0017902704	0.01233623052	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00179898472	0.01239079572	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00180417714	0.01241657443	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00180463339	0.01241657443	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0018074582	0.01242717284	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00180927916	0.01243420317	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00182296486	0.0125208358	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00182349294	0.0125208358	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00182832701	0.01254849561	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00183927387	0.01261547121	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00183970559	0.01261547121	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0018420887	0.01262625326	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00184728968	0.01265633177	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00184870495	0.01266045827	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00185484003	0.01269021027	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00186634881	0.01275324703	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0018679926	0.01275888103	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00188664064	0.01286368419	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0018876518	0.01286494593	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00189022402	0.01287684103	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00190129593	0.01294660318	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00190413946	0.01296029885	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00190741912	0.01297694971	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00190974363	0.01298142191	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00191152585	0.01298287492	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00191162475	0.01298287492	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00193762181	0.01314796706	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00194622441	0.01320058918	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00196844302	0.01333967063	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0019695775	0.01334155305	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00197141756	0.01334821114	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00198444626	0.01343058742	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00198770126	0.01344677315	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00199055321	0.01346021931	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00200384438	0.01353833776	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00201196424	0.01358141273	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00201534672	0.01359835116	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00201967341	0.01362164312	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00202318845	0.01363944316	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00202615763	0.01365354945	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00203130233	0.01367638184	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00203524522	0.01369700681	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00203676965	0.01370134506	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00204051168	0.01372059087	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00204770637	0.01376302602	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00205854217	0.01382988666	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00206388193	0.01385978152	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00207286286	0.01391409197	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00207478287	0.01391669617	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00207503811	0.01391669617	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00207964213	0.01394156989	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00208910651	0.01399899128	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00209081141	0.01400438969	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00209916195	0.01405427733	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00210864371	0.01411169254	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00211446537	0.01414457441	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00212288091	0.01418867999	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00213188811	0.0142364077	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00213209994	0.0142364077	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00213353715	0.0142364077	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00213367852	0.0142364077	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00214158285	0.0142830277	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00214567633	0.01430420271	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00215682919	0.01436625364	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00216181597	0.0143933134	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00217583166	0.01448043863	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00218037667	0.01450448778	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00219859563	0.01461320092	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00220120757	0.01462275176	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00222576239	0.01477484984	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00222811305	0.01478415189	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00223487646	0.0148227134	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00224160822	0.01486103228	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00225427201	0.01493862895	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00225940676	0.01496025435	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.002275075	0.01505726433	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00228007549	0.01508394887	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00228815125	0.01513094666	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00229743172	0.01518402203	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00229812752	0.01518402203	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00230611401	0.01522387174	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00231045425	0.01524247357	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00231088937	0.01524247357	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00231415609	0.01525755835	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00232288203	0.01530860846	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00232515331	0.01531709494	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00232729122	0.01532469605	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00233670491	0.01538017986	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00234252953	0.01541200351	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00234913184	0.01544891476	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0023582465	0.01550231014	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00236649838	0.01554999126	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00236957007	0.01555956279	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00237095245	0.01555956279	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00238294176	0.01563165629	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00238959247	0.01566208905	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00239390791	0.01568377275	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00239736941	0.01569984603	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00240575047	0.01574149244	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00241897195	0.01582135662	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00242521937	0.01585150463	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00242663501	0.01585150463	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00243411232	0.0158936818	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00243893747	0.01591851353	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00244060684	0.0159227358	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00246052541	0.01603349462	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00246067246	0.01603349462	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00248414715	0.01617291954	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00248869458	0.01619575455	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00249325713	0.01621866886	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00250849354	0.01631096863	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00251730235	0.01636141467	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00251880183	0.01636433077	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00252747212	0.01640013474	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00253529281	0.01644402955	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00254299712	0.01647341688	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00254893976	0.01650504733	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0025552172	0.01653881859	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0025588941	0.01655573651	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00256763866	0.01660541399	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00257108691	0.01662017079	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00257205494	0.01662017079	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00257790633	0.0166510723	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00258106035	0.01666182977	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00258171163	0.01666182977	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00258288004	0.01666246512	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00258401873	0.01666290835	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00258718158	0.01667009058	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00258778022	0.01667009058	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00258881056	0.01667009058	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00258941431	0.01667009058	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00259431273	0.01669316295	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00262043881	0.01684197013	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00262888134	0.016888042	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00263168062	0.01689330682	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0026354411	0.01691047556	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00264816716	0.01698513474	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00267431852	0.01712553212	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0026750916	0.01712553212	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00267534487	0.01712553212	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0026755551	0.01712553212	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00268253273	0.01715887431	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00268333028	0.01715887431	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00268406972	0.01715887431	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00269598087	0.01721160145	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00269673843	0.01721160145	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00270002197	0.0172254986	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00270659432	0.01726035762	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00271856243	0.01732958359	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0027234241	0.01735347113	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00272928544	0.01738370639	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00273079338	0.01738620003	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00273442631	0.01740221536	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00274341478	0.01745228692	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00274707864	0.01746845884	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00275254404	0.01748179785	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00275372206	0.01748214987	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00277404216	0.01760397657	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00278429709	0.01766185688	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00280439052	0.01778207392	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00280685707	0.01778351272	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00280690132	0.01778351272	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0028129112	0.01781434164	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00281821453	0.01782681078	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.002819459	0.01782681078	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.002822045	0.01783591997	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00282384054	0.01784002788	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00282917428	0.01786647652	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00283342764	0.01788018312	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0028353182	0.01788351978	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00284191557	0.01791787498	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00285685872	0.01800060795	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00285734944	0.01800060795	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00285902225	0.01800386311	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00286298537	0.01802153238	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00286450201	0.01802379385	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00287276614	0.01806849237	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00287536305	0.01807752474	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00287797931	0.01808667141	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00289821852	0.01819917622	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00291302521	0.01827741402	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0029177364	0.01829960087	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00292165124	0.01831677726	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00293392961	0.01838635247	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0029355136	0.01838887904	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00295721396	0.01850992483	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00295845043	0.01851022442	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00296356128	0.01852731427	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00301090223	0.01880817507	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00301974359	0.01885584077	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00302992385	0.01891182531	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00303963915	0.01896486396	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00304966143	0.01900755471	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00305047124	0.01900755471	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00305136369	0.01900755471	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00305972423	0.01905201338	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00308517495	0.01919554546	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0030852405	0.01919554546	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00309104216	0.01922396146	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00310361234	0.01929443309	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00310773667	0.01931236358	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00311152767	0.01932419027	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00311212157	0.01932419027	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00312232377	0.01937209089	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00313652629	0.01945245874	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00313924984	0.01945797193	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00313991418	0.01945797193	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00314409383	0.01947612299	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00315088777	0.01951044742	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00315528962	0.01952217928	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00319106274	0.01972000797	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00319304221	0.01972441348	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00320002838	0.01975973113	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00320514416	0.01977777025	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0032056452	0.01977777025	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00320675977	0.01977777025	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00321525906	0.01981449519	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00321880995	0.01982853138	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00322762945	0.01987499941	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00323370449	0.01990453757	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00323690015	0.01991633588	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00324360089	0.01994968271	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00324999838	0.01998113888	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00327043734	0.02009886372	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00327744497	0.02013398445	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00328467089	0.02017041788	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00330310249	0.02026761821	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00330634276	0.02027950994	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00330790211	0.02028108643	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.003314864	0.02031577217	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00331772855	0.02032532915	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00333230712	0.02040661377	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00334147382	0.02045470591	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00334793258	0.02048308559	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0033500558	0.02048308559	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00336781996	0.02058361862	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00337212742	0.02060185968	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00338581109	0.0206773475	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00338832975	0.02068461749	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00340967901	0.02080679123	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00341204478	0.02081307224	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00342908932	0.02090885201	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00343108072	0.02091280626	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00345214391	0.02102473095	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00345779607	0.02105070932	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0034591129	0.02105070932	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00346787353	0.02109577909	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00347271791	0.02110875721	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00349186412	0.02120858031	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00349982195	0.02124138628	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0034999934	0.02124138628	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00350204713	0.0212455707	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00350588236	0.0212605553	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00353465272	0.02142668232	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00353771734	0.02143588395	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00353892363	0.02143588395	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00355987361	0.02154602087	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00356258341	0.02155404482	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00357490759	0.02162020814	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00357899466	0.02163652324	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00358322412	0.02165179019	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00358430072	0.02165179019	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00361331393	0.02180554521	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00361392898	0.02180554521	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00361395442	0.02180554521	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00361571596	0.02180772449	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.003627099	0.02186791046	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00363556939	0.02191049616	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00365935424	0.02203678406	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00366404753	0.02205651807	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00368090376	0.0221494259	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00369238253	0.022201341	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00370012077	0.02223928241	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00371233523	0.02230408818	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00372374906	0.02236403553	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00373535141	0.02242506846	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00377700103	0.02265764137	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00379039786	0.02272925139	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00379769928	0.02275712961	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00379842028	0.02275712961	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00379943087	0.02275712961	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00380314709	0.02277063036	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00381703669	0.02284046376	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00381774399	0.02284046376	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00382643271	0.02288365461	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00384618584	0.02298413356	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0038713949	0.02311703708	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00391045414	0.02332344021	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00396196845	0.02362164423	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00396696904	0.02364240673	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00397242746	0.02366588097	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00398265502	0.02370867228	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00398909373	0.02373792767	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00401634937	0.02388186667	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00403325108	0.02396406682	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00404688854	0.02403592497	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00405600748	0.02408090142	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00406200525	0.02410732005	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00406550052	0.02411887221	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00406725902	0.02412011604	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00407633632	0.02416474514	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00409510818	0.02426678833	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.004096892	0.02426812441	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00411953607	0.02438370781	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00412132276	0.02438501493	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00412348365	0.02438853431	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00413289486	0.02443491708	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00416373949	0.02460786048	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0041668868	0.02460786048	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00418383675	0.02469541615	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0041848843	0.02469541615	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00418682922	0.02469753463	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00419682391	0.02474711806	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0042009232	0.02476191409	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00420561454	0.02478018739	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00421597355	0.02483182906	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00421864813	0.02483818803	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00423173537	0.02490582573	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00423728505	0.0249290669	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00424292483	0.02495282041	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00424772033	0.02497159257	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00425237065	0.02498949738	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00425701369	0.02500734599	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00427113834	0.02508085871	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00429174437	0.02519236149	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00429941423	0.02522787406	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0043054381	0.02525370529	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00431614259	0.02529325824	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00431617335	0.02529325824	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0043170539	0.02529325824	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00434426402	0.02544310779	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00436195679	0.025522069	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00436266279	0.025522069	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00437613752	0.02558167777	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00438256321	0.02560962736	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00438558008	0.0256176439	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00438944741	0.02563062036	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00439127967	0.02563170851	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0043944452	0.02564057514	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00440268654	0.02567904025	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00440896836	0.02570605178	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00441118766	0.02570936578	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00443898917	0.02586172028	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00446724939	0.02601663228	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00449166346	0.02614903743	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00452232908	0.02629806975	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00456919167	0.02655573972	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00457673805	0.02658468543	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00458023768	0.02659509372	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00461329208	0.02676706316	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00462404535	0.02681946306	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00464011718	0.02690266004	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00465828307	0.0269979316	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00469521355	0.02719172952	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00471494419	0.02728812479	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00471536273	0.02728812479	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00472112988	0.02731135051	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00472687264	0.02733441797	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00473665346	0.02738081081	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00474428849	0.02741476981	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00475215849	0.02745006092	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00475573	0.02746050546	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0047586726	0.02746562471	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00476052113	0.02746562471	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00476190758	0.02746562471	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00477930558	0.02755576671	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00484879722	0.02793465755	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00485040224	0.02793465755	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00485760781	0.02796581383	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00486286414	0.02798572919	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00486890959	0.02800214011	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00486931198	0.02800214011	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00487175135	0.02800582642	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00487719705	0.02802678586	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00490117632	0.0281541936	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00492217787	0.02826440852	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00493742157	0.02834149136	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00494441672	0.02835498846	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00494523526	0.02835498846	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00498465003	0.02856324268	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00498717552	0.02856391479	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00500500905	0.02863446216	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00501099657	0.02865818933	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0050217786	0.02870930916	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00503551775	0.02877729097	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00503909396	0.02878716444	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00504257697	0.0287964984	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00507009896	0.02894305395	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00507917911	0.02897364699	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00508522691	0.02899752421	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00512134971	0.0291928181	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00513144656	0.02923708803	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00513287091	0.02923708803	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00514512569	0.02928360923	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0051455891	0.02928360923	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00514686272	0.02928360923	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00514855982	0.02928360923	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00515226442	0.02929398096	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00516391578	0.02934951109	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00518714829	0.02947079908	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00518952235	0.0294735345	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00520712509	0.02955195299	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0052096148	0.02955531193	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00521769404	0.02959036754	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.005236602	0.02968678668	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00524546554	0.02972621358	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00524819773	0.02973087786	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00525482633	0.02975760377	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0052638438	0.02978388538	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0052639498	0.02978388538	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0052668139	0.02978388538	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00526711747	0.02978388538	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00528773133	0.02987875183	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00533603149	0.03012981089	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0053383612	0.03013204024	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00534739829	0.03016118563	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00535382373	0.03018649418	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00536272058	0.03022571392	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00536909448	0.03025069043	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0053731226	0.030262437	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00540781846	0.03042369388	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00540803987	0.03042369388	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00541701238	0.03045456091	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00543745286	0.03055844581	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00544334031	0.03058049733	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00549017211	0.03083247394	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00552316768	0.03097709644	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00552388087	0.03097709644	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00554882908	0.03110580103	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00556677369	0.03119516613	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00557156474	0.03121078337	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00560196894	0.03136981745	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00561051203	0.03140636372	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00561641809	0.0314281275	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00562185526	0.03144725287	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00562389825	0.03144738507	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00562600613	0.03144787995	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00563232117	0.03147188285	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00563567006	0.03147930055	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00564249491	0.03150063729	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00564353548	0.03150063729	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00565578904	0.0315577222	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00566102538	0.03157562614	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00566729252	0.03159926472	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00567102214	0.03160874294	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00568186291	0.03165144693	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00568274871	0.03165144693	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00568942369	0.03167729536	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00570887759	0.03177170724	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00571046096	0.03177170724	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00572509249	0.03184173764	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00572963034	0.03185559916	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00578211717	0.0321129954	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00580184857	0.03219963926	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00582189403	0.03229937861	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00583276255	0.03234815212	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0058393773	0.03237330816	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00584463128	0.03239090498	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00584835144	0.03239999182	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00585714071	0.0324371452	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00585982034	0.03243961625	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00586237529	0.03243961625	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0058640364	0.03243961625	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00586598475	0.03243961625	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00586800225	0.03243961625	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00587312801	0.032456431	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00588206437	0.03249428467	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00588465012	0.03249704122	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00588979435	0.03251391966	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00589693331	0.0325417939	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00591148919	0.03261056366	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0059146781	0.03261660129	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00592832695	0.03266873163	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00594201745	0.03273259205	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00599304477	0.03295671371	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00599558142	0.03295671371	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00599569463	0.03295671371	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00599751664	0.03295671371	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00600518585	0.03298721665	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00602748908	0.03309805619	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00603208774	0.03310917034	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00609855405	0.03342934959	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00610766343	0.03345081901	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00611061529	0.03345081901	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00612412193	0.03349875334	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00614525258	0.03358161108	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00614640606	0.03358161108	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00615973408	0.03363448066	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00617236095	0.03369161484	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00617705743	0.0337018719	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00617856831	0.0337018719	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00620309394	0.03382380322	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00620783857	0.0338378264	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00621152329	0.03384606444	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00623388592	0.03394416273	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00624167668	0.03397470499	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00625098031	0.03401345783	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00626931094	0.03410128513	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00627343561	0.03411180615	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00630777506	0.03427459211	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00631290679	0.03429051187	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00631562199	0.0342932989	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00632678889	0.03434196006	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00633946598	0.03439767276	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0063414704	0.03439767276	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00636562022	0.03451664476	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00641595813	0.03477748553	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00644991997	0.03494940978	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00645403465	0.03495954142	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00652310353	0.03532138081	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00653556426	0.03537655272	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00657333875	0.0355563058	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00657656718	0.0355607879	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00657873434	0.0355607879	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00659399582	0.03563091264	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00659628338	0.03563091264	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0066205791	0.03573735819	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00665183088	0.03589361134	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00667300185	0.03599537854	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00667554608	0.03599663401	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00667952355	0.03600561447	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00671802493	0.03617558859	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00672915628	0.03621048747	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0067618033	0.03635230965	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00676251468	0.03635230965	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00677230395	0.03637981696	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00680535697	0.03652834007	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0068069892	0.03652834007	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00685561446	0.03677660487	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00688810122	0.03693815435	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00689708041	0.03696085109	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00691201951	0.03701543324	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00691981949	0.03703137427	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00692039443	0.03703137427	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00692213	0.03703137427	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00693811263	0.03709139307	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00695124225	0.03714883167	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00697648406	0.0372709387	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00698699068	0.03731426812	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00703210323	0.03750374782	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00703554386	0.03750925181	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00705356345	0.03759245164	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00707284366	0.03764597425	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00707327558	0.03764597425	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00707638485	0.03764965537	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00709253889	0.03772271454	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00709918032	0.03773337132	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00713677932	0.03790439118	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00713744865	0.03790439118	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00713886723	0.03790439118	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00714601731	0.0379165	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00716004921	0.03797375369	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00716651535	0.03798643416	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00717013103	0.03799266775	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00717389222	0.03799966786	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00718808061	0.03806187667	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00720412489	0.03813386708	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00723361022	0.03826630793	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00723405962	0.03826630793	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00724142702	0.03829227266	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00727513834	0.03845747771	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00733372211	0.03875400556	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00736434155	0.03890260885	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00745484544	0.03934066693	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00748289957	0.03947533705	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00748941141	0.03949631016	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00750804124	0.03957246195	NR_WEEK4vsWEEK0	Endoscopic_Remission

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0.00751603055	0.03959341252	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00751799402	0.03959341252	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00752738907	0.03962948953	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00754750654	0.03970855382	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00766486668	0.04027158194	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00767485193	0.04031044487	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00770316737	0.04044552443	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00774814703	0.04066589786	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00776068595	0.04070635307	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00778947582	0.04082985759	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00781461042	0.04094782237	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00781727961	0.04094803071	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00782672375	0.04098371518	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00783209316	0.04099804599	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00783748791	0.04101249975	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00785209799	0.04107515015	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.00787029088	0.04114267872	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00792716044	0.04141452822	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00792761245	0.04141452822	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00794340627	0.04148312065	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.0080249273	0.04185161202	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00802740417	0.04185161202	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00803571082	0.04188089847	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00804067253	0.04189273781	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0080538196	0.04194720153	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00806469129	0.04198978183	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00807314147	0.04201973001	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00809416255	0.04208461026	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00809436646	0.04208461026	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00809641638	0.04208461026	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00810408278	0.04211040412	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00810682208	0.04211058716	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00811155662	0.04212099762	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00811423572	0.04212099762	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00812236222	0.04214913256	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00815453903	0.04230010661	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00815688821	0.04230010661	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00816611794	0.04233387305	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00818204641	0.04240233239	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00820924039	0.04252910864	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00822301189	0.04258628674	NR_WEEK4vsWEEK0	Endoscopic_Remission

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0.00825216624	0.04270886832	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00830016744	0.04294302574	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00833947197	0.04311772808	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00837643624	0.04329447115	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00838017791	0.04329943946	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00843760333	0.04356918064	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00843797912	0.04356918064	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00849012827	0.04379488823	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00850932803	0.04387939252	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00852140262	0.04392711124	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00854117601	0.04401447188	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00856999356	0.04414836576	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00859135834	0.04424379083	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00860067811	0.04427714387	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00863852719	0.04445433086	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00864772148	0.04447522014	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00865678493	0.04450713492	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00868449402	0.04463485985	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00870009712	0.04469558832	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00870204995	0.04469558832	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0087084194	0.04471355598	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0087250785	0.04477717695	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00872656085	0.04477717695	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00875411206	0.04490375068	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00877186509	0.04497999839	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00882056553	0.04520107501	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00882078385	0.04520107501	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00882523872	0.04520902716	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00884033742	0.04527148129	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00884459331	0.04527838647	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0088486837	0.0452844401	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00885420591	0.04529781493	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00888163327	0.04540829776	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00890371502	0.04549132348	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00894183019	0.04565846875	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00895423177	0.0456950702	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00895533001	0.0456950702	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00899399221	0.04587731433	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00904344925	0.04609938959	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0090719585	0.04622958435	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00911566395	0.04642471094	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00911621178	0.04642471094	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00912219343	0.04642928155	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00912307208	0.04642928155	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00916584261	0.04662834013	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.00917847089	0.04666546755	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00918802279	0.04668354939	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00921115141	0.04678579938	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00921775749	0.04680408785	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00923805222	0.04689184722	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00927544716	0.0470509898	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00928307483	0.04707434855	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00933071553	0.04730053155	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00936072325	0.04743720897	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0093672516	0.04744826426	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00936899843	0.04744826426	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00946591875	0.04789238231	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0094724123	0.04789411581	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00953558011	0.04819785428	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00955821924	0.04829281152	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0095605688	0.04829281152	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0096008083	0.04847187112	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0096022425	0.04847187112	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00960819864	0.04848622083	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0096505764	0.04866853181	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00966549579	0.04871449455	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00966594671	0.04871449455	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00967445462	0.04874159875	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00972745401	0.04897692896	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00973260312	0.04898701627	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00974897167	0.04905354953	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0097831934	0.04920984201	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00979244126	0.04924045454	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00981102802	0.04930207787	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00983286709	0.04939588361	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00983659884	0.04939869517	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00984031322	0.0494014177	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00984415196	0.04940476262	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00988326043	0.04958505628	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00993381435	0.04980027213	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00993604121	0.04980027213	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00995345182	0.04984806865	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00995488946	0.04984806865	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00997030629	0.0498996066	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0099715903	0.0498996066	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00997906742	0.04991733687	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00998154415	0.04991733687	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00999691937	0.04995947062	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.00999858397	0.04995947062	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01000892406	0.04999004954	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01001738518	0.05001626785	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.01005531778	0.05018957171	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01009022696	0.05031543532	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.010123668	0.05044988219	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01016122092	0.05062082323	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01019045296	0.05075021551	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01021832894	0.05087277386	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01026547536	0.05107483956	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01031882602	0.05130749604	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01036776656	0.05151794148	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01039876144	0.05165547428	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01042631474	0.05177023791	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01043204984	0.05177023791	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0104321564	0.05177023791	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01043516193	0.05177023791	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01044463402	0.0518007279	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01046119674	0.05186635366	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01051596748	0.05211319039	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01054697898	0.05224176323	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01055927609	0.05228604341	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01058562585	0.0523998574	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01059078818	0.05240875254	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01062913422	0.05257375307	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01063088348	0.05257375307	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01064946779	0.05263223163	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01068457463	0.05277299909	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01068472781	0.05277299909	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01069636793	0.05281374058	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01074320247	0.05301137262	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01083932091	0.05342326942	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01084109194	0.05342326942	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01084382936	0.05342326942	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01086201912	0.05349595944	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01088181447	0.0535765086	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01095837105	0.05392664346	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0109598553	0.05392664346	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01096423708	0.05393116362	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01102960466	0.05423556471	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01105452978	0.05434096976	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01106429564	0.05437181317	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01107873818	0.05440844835	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01110006296	0.05447881515	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01116752689	0.05479265791	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01118860148	0.05487876879	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01119587946	0.05489717595	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01121173678	0.05495762569	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01121583111	0.05496039579	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.01126250774	0.05517176252	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01128760084	0.05527729809	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01129242247	0.05528352565	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01131979192	0.05536920655	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01132059036	0.05536920655	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01132633078	0.05537988986	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01133579348	0.05540776496	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01135279774	0.05544533934	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0113575183	0.05544533934	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01137052569	0.05549052527	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01137639142	0.05549052527	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01138059206	0.05549052527	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01138102727	0.05549052527	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01140999244	0.05561433872	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0114391327	0.05572149311	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01145082889	0.05576102512	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01145844491	0.05578066976	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01148123224	0.05587413427	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0114928221	0.0559130642	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01150228622	0.05594163126	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01153339993	0.05607544087	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01155557144	0.05616570352	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01161772025	0.05643255068	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01163724855	0.05649216699	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01165395728	0.05655564873	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01167710587	0.05665033326	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01168831209	0.05665595788	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01168917952	0.05665595788	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01171341827	0.0567557756	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01178934335	0.05703493132	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01180451431	0.05709059048	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01183902393	0.05723133349	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01185857278	0.057280879	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01198665725	0.0578636743	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01199243895	0.05786429252	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01199421667	0.05786429252	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01200809838	0.0579133218	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01201655109	0.05793614556	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01203936247	0.05802816211	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01206018097	0.05809254507	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01209219639	0.05822874905	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.01209908182	0.05824389529	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01210924101	0.05827478686	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01211969092	0.05828905087	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01218541554	0.05855090286	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01219890981	0.0585976627	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01222155279	0.05864496544	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01222261269	0.05864496544	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01222382058	0.05864496544	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01225128997	0.05875865068	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01230836625	0.0590142203	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01238406732	0.05932238708	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01243619044	0.0595407127	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01243729136	0.0595407127	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01245771294	0.05962014862	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01246209892	0.05962281611	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01253784297	0.0599667778	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01254420065	0.05997876472	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0125493417	0.05998492889	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01262399443	0.06026776986	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01270971583	0.0606584139	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01274146457	0.06077957593	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01274290859	0.06077957593	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01275116106	0.06080031572	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01275991863	0.06082345049	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01279615385	0.06095885711	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01280948543	0.06100370536	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01297382019	0.06172969808	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01302741846	0.06194358511	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.0130723063	0.06212237596	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01308301048	0.06215427766	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01310462105	0.0622189828	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01311521986	0.06223657811	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0131800799	0.0624983358	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01318352489	0.0624983358	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01334894553	0.0631863613	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01335962726	0.06321770746	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0133692328	0.06324394361	NR_WEEK4vsWEEK0	Endoscopic_Remission

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0.0134285493	0.06348597397	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01353411929	0.06385498388	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01353841202	0.06385498388	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01353862	0.06385498388	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01353940517	0.06385498388	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01355531947	0.06390615907	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01355846334	0.06390615907	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01358275379	0.06400127829	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01361202443	0.06410681352	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01361338421	0.06410681352	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0136545797	0.06428136929	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0136802479	0.06438274422	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01368597865	0.0643846407	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01368891963	0.0643846407	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01370151723	0.06442443473	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01372943759	0.06449729458	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01373919338	0.06452366058	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01376399893	0.06462066785	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01377565299	0.06465589029	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01378594034	0.06468467877	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01382570849	0.06481269064	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01385695281	0.06493022942	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01386156689	0.06493022942	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01386328985	0.06493022942	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01389128754	0.06504179822	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01390381274	0.06508087639	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01400392167	0.06551008478	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01401554024	0.0655447472	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01405491881	0.06568945099	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01407645066	0.06577034685	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01408756408	0.06580253011	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01411413807	0.0659068882	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0141262301	0.06594357953	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01417245427	0.0661000616	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01417248479	0.0661000616	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01419025394	0.06616312116	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01420553456	0.06621454348	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01421953469	0.0662599682	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.01424207322 0.06634514097 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01426170813 0.06640111505 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01426914369 0.06641164816 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01432788409 0.06666511471 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01434732216 0.0667356177 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01440726916 0.06699444687 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01444517087 0.0671306016 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01447104876 0.06723080024 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0145173282 0.06741016956 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01451831431 0.06741016956 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01463565878 0.06793475834 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01473859055 0.06839215455 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01474599656 0.06840613773 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01484951489 0.06886584139 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.014860625 0.06887634321 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01490496587 0.06906130125 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0149322887 0.06914675347 NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01505369842 0.06960547669 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01513013521 0.0699381406 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01515957458 0.07003372059 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01515980685 0.07003372059 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01517184481 0.07006854662 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01526073433 0.07043728979 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01528634971 0.07053461452 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01529703882 0.07056302888 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0153084223 0.0705946285 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01533554617 0.07068199967 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01533967392 0.07068199967 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01534806065 0.07069368485 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01540169525 0.07091975165 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01545248184 0.07111155427 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01546544895 0.0711502028 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01550970199 0.07133271974 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01551526833 0.07133725236 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01552633212 0.07136705138 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01554824322 0.07144667796 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01558339987 0.07155626981 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0155858773 0.07155626981 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0156355529 0.07176317868 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01567126053 0.07190587515 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01568729226 0.07195823341 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01569194399 0.07195837567 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01570625742 0.07200281035 NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01571482156 0.07202086996 NR_WEEK4vsWEEK0	Endoscopic_Remission

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0.01624737272	0.07400419287	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01717350602	0.07725101364	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01720234707	0.0773584034	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01723014024	0.07741632255	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01723571974	0.07741905494	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01725499921	0.07747860953	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01725892869	0.07747860953	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01728769886	0.07758539893	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01729854667	0.0776117163	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0173071639	0.07762801364	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01732820835	0.0777000255	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01735292879	0.07778326362	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01735676113	0.07778326362	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01737286652	0.07783304094	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01749447295	0.07822033514	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01763405986	0.07868168861	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.0177341249	0.07901960715	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01781343657	0.07930493072	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01793225685	0.07967160481	NR_WEEK4vsWEEK0	Endoscopic_Remission

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0.01811334152	0.08029577783	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01818919105	0.08056321737	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01828731523	0.08085984104	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01833222745	0.08103541813	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01837399956	0.08119564994	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01837890362	0.08119564994	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01844708468	0.0814275651	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01847467604	0.08152624823	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.01920357072	0.0840937116	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01920414392	0.0840937116	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01921483576	0.0840937116	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01922142752	0.0840937116	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01922280501	0.0840937116	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01922388835	0.0840937116	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01926309059	0.084241536	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01928735553	0.08432397185	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01930906832	0.08438426813	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.01931247417	0.08438426813	NR_WEEK4vsWEEK0	Endoscopic_Remission

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0.01949664839	0.08490528674	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.02023513787	0.08738455109	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.0202754288	0.08751365098	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02030991536	0.08762242493	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.020311883	0.08762242493	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.02051292655	0.08826963394	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02054146118	0.08834062207	NR_WEEK4vsWEEK0	Endoscopic_Remission

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0.02056197439	0.088383005	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02060414085	0.08853981386	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0206439262	0.08867312505	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.02066894266	0.08872035391	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.02081312204	0.08924084513	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02083872161	0.08932601478	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02093527203	0.08969708619	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02093970005	0.08969708619	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02094256761	0.08969708619	NR_WEEK4vsWEEK0	Endoscopic_Remission
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0.02115428982	0.09040498226	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02119436254	0.0905265518	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02124952669	0.09073447263	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02126414964	0.09073447263	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02126921579	0.09073447263	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0212701073	0.09073447263	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02127217361	0.09073447263	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02132534871	0.09093637882	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02141239361	0.09124211542	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02141462351	0.09124211542	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02147443349	0.09145493193	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02147631709	0.09145493193	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02148816666	0.09148037708	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02150504	0.09152718992	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02151105004	0.09152775471	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02154093977	0.09162989757	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0215536445	0.09163806343	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0216004718	0.09180790047	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02161247373	0.09183384813	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02173455328	0.09232738632	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02175386995	0.09238424238	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02176528993	0.09240754091	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02187780943	0.09280935067	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0218915784	0.09284247015	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02192341047	0.0929521566	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02194899826	0.09303531569	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02196456574	0.09307596796	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02202565937	0.09330946502	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.02203656948	0.09333029549	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02206582451	0.09340339361	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02208158728	0.09344471703	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0221082462	0.09353211577	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02214006663	0.09364129755	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02217755876	0.09376357078	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02224894655	0.09402519526	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0222725942	0.09409959561	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0222962441	0.09417396509	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02230282685	0.09417622629	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02235639602	0.09437683795	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02245089043	0.09472438817	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02247850235	0.09481519965	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02250536281	0.09490279314	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02263515395	0.09539844449	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02265376188	0.09543970136	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02266059894	0.09543970136	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02266332856	0.09543970136	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02269604245	0.09555162721	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02279760334	0.09595326398	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02280813018	0.09597163234	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02281939832	0.09599310916	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02289456106	0.09628328367	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02292926475	0.09640319652	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02293801411	0.09641395243	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02296661535	0.09648465058	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02297067674	0.09648465058	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02297342094	0.09648465058	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02298300433	0.09649887474	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02301182381	0.09659383615	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02303658832	0.09661965792	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02306451148	0.09671072626	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02310183359	0.09684114523	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.023148734	0.09701163469	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02320797763	0.09723374648	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02322787523	0.09729093625	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02328060113	0.09748556099	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02329735839	0.09752950597	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02338894666	0.09783402265	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02342273611	0.09794905195	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02345636343	0.09803702302	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02346519928	0.09804763841	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.0235055374	0.09815064505	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02350875914	0.09815064505	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02356623834	0.09828944907	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02357004579	0.09828944907	NR_WEEK4vsWEEK0	Endoscopic_Remission

0.02357373334	0.09828944907	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02357987425	0.09828944907	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02363629386	0.09849826179	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02366609033	0.09859604726	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02368330352	0.09864137087	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02375214405	0.09890164152	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02379866503	0.09902579409	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02380723416	0.09902579409	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02380964119	0.09902579409	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02389386919	0.09933241455	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02397378097	0.09963802805	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02407496676	0.09998177029	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02408422894	0.09998177029	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02408785289	0.09998177029	NR_WEEK4vsWEEK0	Endoscopic_Remission
0.02408858936	0.09998177029	NR_WEEK4vsWEEK0	Endoscopic_Remission
1.0694932E-05	0.09600398612	R_WEEK12vsWEEK0	Endoscopic_Remission
1.2329543E-05	0.09600398612	R_WEEK12vsWEEK0	Endoscopic_Remission
1.1768653E-06	0.01832732344	R_WEEK4vsWEEK0	Endoscopic_Remission
6.9508714E-06	0.05412295995	R_WEEK4vsWEEK0	Endoscopic_Remission
1.7680552E-06	0.02753392387	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.2737694E-06	0.03327770578	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.663196E-06	0.03977965042	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.1283721E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
2.8292666E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.1399632E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.2359555E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.038022E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
4.6991582E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.0515196E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
6.5042288E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.1003078E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.300713E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.4961217E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.8449045E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.8845012E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
7.8864052E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.2804312E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
8.9901745E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.1696686E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
9.3366492E-05	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00012159575	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00012586959	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013553194	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00013643267	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00013854309	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0001402436	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00014291534	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00014524941	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00014532165	0.0595551071	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00015698213	0.06268417195	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.000179319	0.06467378136	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00019462887	0.06467378136	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00020006152	0.06467378136	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00020692731	0.06467378136	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00021834078	0.06467378136	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00022051783	0.06467378136	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00022258134	0.06467378136	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00022833895	0.06467378136	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00023337527	0.06467378136	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00023590041	0.06467378136	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00024017733	0.06467378136	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00024180145	0.06467378136	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00024502364	0.06467378136	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00025340908	0.06547071346	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00025645113	0.06547071346	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00026986997	0.06672436629	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00028172497	0.06677695632	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00028501059	0.06677695632	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00029743228	0.06677695632	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00034854615	0.06677695632	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00034873645	0.06677695632	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00037361157	0.06677695632	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00039990087	0.06677695632	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00040464616	0.06677695632	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00042120098	0.06677695632	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00042684339	0.06677695632	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00046544314	0.06677695632	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00046621921	0.06677695632	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00046831497	0.06677695632	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00047468205	0.06677695632	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00051868544	0.06833589975	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00052650498	0.06833589975	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00052657214	0.06833589975	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00054183275	0.06872560602	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00056743032	0.06903587843	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00057779945	0.06975248661	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00059155335	0.07066897225	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0005966455	0.07066897225	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00061764057	0.07066897225	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0007701494	0.07096767194	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00081993424	0.07296477665	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00083949442	0.07368580295	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00084581683	0.07368580295	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00085187874	0.07368580295	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00089427964	0.07368580295	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00090737998	0.07419289297	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00090996228	0.07419289297	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00093066057	0.07497594066	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00093400966	0.07497594066	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00096864837	0.07616181369	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.00097599124	0.07616181369	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00098154921	0.07616181369	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00098570204	0.07616181369	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00098790768	0.07616181369	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0010108274	0.07675626463	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00101283653	0.07675626463	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00103636262	0.07675626463	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0010401703	0.07675626463	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00104053921	0.07675626463	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00104286821	0.07675626463	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00104695208	0.07675626463	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0010492331	0.07675626463	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00105700761	0.07675626463	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00105792169	0.07675626463	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0010659637	0.07675626463	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00106955047	0.07675626463	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00108157378	0.07686095339	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00108707375	0.07686095339	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00109575142	0.07686095339	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00109654183	0.07686095339	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00109699082	0.07686095339	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0011006224	0.07686095339	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.001127401	0.07765843338	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00112747966	0.07765843338	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00113519042	0.07765843338	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00113992273	0.07765843338	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00114190442	0.07765843338	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00115969731	0.07803814295	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00116572143	0.07803814295	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00117207313	0.07803814295	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0011850375	0.07853016565	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00119085309	0.07858116565	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00121522256	0.07878980972	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0012156597	0.07878980972	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00122432345	0.07878980972	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00122604514	0.07878980972	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00123591907	0.07878980972	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00123817527	0.07878980972	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00124281402	0.07878980972	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00124376765	0.07878980972	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00125514004	0.07878980972	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00125714053	0.07878980972	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00126690312	0.07878980972	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00126777583	0.07878980972	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.00127758285	0.07878980972	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00128002452	0.07878980972	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00128698397	0.07890630476	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00130987879	0.07923638143	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00132107674	0.07923638143	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00132134972	0.07923638143	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00132289598	0.07923638143	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00133144665	0.07942043729	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00133616866	0.07942043729	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00134173403	0.0794480002	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00136151694	0.08015055534	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00136903922	0.08015055534	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00138270214	0.08038794181	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00138341799	0.08038794181	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00139472521	0.08039992099	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00140218213	0.08039992099	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00140725781	0.08039992099	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00141460081	0.08039992099	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00143236659	0.08111361781	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0014380987	0.08114315619	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00146465851	0.08196838381	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00146695531	0.08196838381	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00146981642	0.08196838381	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00148105684	0.08196838381	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00148680903	0.08196838381	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0015006227	0.08196838381	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00150452579	0.08196838381	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00150562856	0.08196838381	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00151507606	0.08196838381	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00151588612	0.08196838381	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00152411733	0.0821283018	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00153503387	0.08243131888	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00155352358	0.08260205851	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00155914845	0.08260205851	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00155943012	0.08260205851	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00157151366	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00159378318	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00160259959	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00160530656	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00161029059	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00161751501	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00162244131	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0016254588	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00162670915	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00163063153	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00163300884	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00163383343	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00164995774	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00165174913	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00165612232	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00166715942	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00167667799	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00169195677	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00169224866	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00169346126	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00171713519	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00172080874	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00172498406	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00172680497	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00173439379	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0017351682	0.08281619203	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00177468257	0.08352407087	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00177528206	0.08352407087	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00179849255	0.08436121829	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00182284955	0.08499172478	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00184965454	0.0856651935	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00187271195	0.0856651935	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00187338501	0.0856651935	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00190090682	0.0856651935	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00190942856	0.0856651935	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00190982853	0.0856651935	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00191000094	0.0856651935	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00191455087	0.0856651935	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00191501985	0.0856651935	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00191690897	0.0856651935	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00191980688	0.0856651935	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00192628452	0.08570865362	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00193601847	0.085896341	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0019504451	0.08629057259	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00197652373	0.0867053633	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0019932027	0.08719142023	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00200818307	0.08735596343	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00201665381	0.08747231052	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0020238875	0.08747231052	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.0020333254	0.08747231052	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00204457958	0.08765954627	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00206352133	0.08765954627	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00206582248	0.08765954627	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00208523152	0.08824269129	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00212260625	0.08941409319	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00213013733	0.08941409319	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00214115726	0.08943574502	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00214222299	0.08943574502	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00214788214	0.08943574502	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00216356942	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00218127263	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0021836003	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00218740265	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00219992132	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00220414628	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00221421625	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00222315308	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00222338613	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00223182731	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00223961391	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0022508989	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00225294694	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00225416506	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00226983807	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00228619321	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00228875524	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00231650489	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00231845195	0.08960588718	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00276173984	0.090154582	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00281714514	0.090154582	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00283311476	0.090154582	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00284013633	0.090154582	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00285420655	0.090154582	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00285564642	0.090154582	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00285585513	0.090154582	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00286462397	0.090154582	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00286563399	0.090154582	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00288154964	0.09028640561	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00288587597	0.09028640561	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00288721698	0.09028640561	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00289401654	0.09031767447	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.0029041625	0.09045304515	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00293320586	0.0905609744	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00294531148	0.0905609744	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00294892894	0.0905609744	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00294986802	0.0905609744	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00295940564	0.0905609744	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00296253297	0.0905609744	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00296518943	0.0905609744	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00296578032	0.0905609744	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00297280501	0.09059783245	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00298368287	0.09068571765	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00298733533	0.09068571765	NR_WEEK12vsWEEK0	Endoscopic_Remission

0.00299987983	0.09070936599	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00300081623	0.09070936599	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00301292553	0.09070936599	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00301666442	0.09070936599	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00301905615	0.09070936599	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00302306305	0.09070936599	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00302892058	0.09071034647	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00304316657	0.09096205957	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00305467608	0.09108304334	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00307394669	0.09108304334	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00309135271	0.09108304334	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00310532427	0.09108304334	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00310994531	0.09108304334	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00311609661	0.09108304334	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00311693586	0.09108304334	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00312593324	0.09108304334	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00314562452	0.09108304334	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00314575564	0.09108304334	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00315458744	0.09108304334	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00315769461	0.09108304334	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00316918053	0.09116187352	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00318211176	0.09116187352	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00318681301	0.09116187352	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00319036589	0.09116187352	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00320415524	0.09116187352	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.0032595134	0.09123315895	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00331140786	0.09143360744	NR_WEEK12vsWEEK0	Endoscopic_Remission

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0.00392227193	0.09573909207	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00393661963	0.09588667627	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00394953507	0.09588667627	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00395210906	0.09588667627	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00395294716	0.09588667627	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00396772686	0.0959462894	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00403969632	0.09695162735	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00404042934	0.09695162735	NR_WEEK12vsWEEK0	Endoscopic_Remission
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0.00468608202	0.09999406649	NR_WEEK12vsWEEK0	Endoscopic_Remission
0.00468732219	0.09999406649	NR_WEEK12vsWEEK0	Endoscopic_Remission
3.2596655E-07	0.00507627706	NR_WEEK2vsWEEK0	Endoscopic_Remission
3.3772919E-05	0.03506304437	NR_WEEK2vsWEEK0	Endoscopic_Remission
4.8127711E-05	0.04163849127	NR_WEEK2vsWEEK0	Endoscopic_Remission
6.5437429E-05	0.05363458328	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00012437064	0.06678703169	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00018666363	0.09097271789	NR_WEEK2vsWEEK0	Endoscopic_Remission
0.00022457855	0.09953828119	NR_WEEK2vsWEEK0	Endoscopic_Remission
8.2313159E-06	0.0640931414	NR_WEEK4vsWEEK0	Endoscopic_Remission

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Table S16: Differential gene expression in CD_rare_CFB_enrichment

ID	Description	GeneRatio
hsa04662	B cell receptor signaling pathway	58/2178
hsa04380	Osteoclast differentiation	68/2178
hsa05132	Salmonella infection	112/2178
hsa04666	Fc gamma R-mediated phagocytosis	55/2178
hsa05145	Toxoplasmosis	61/2178
hsa05131	Shigellosis	110/2178
hsa05169	Epstein-Barr virus infection	94/2178
hsa05152	Tuberculosis	85/2178
hsa05135	Yersinia infection	67/2178
hsa05221	Acute myeloid leukemia	39/2178
hsa05140	Leishmaniasis	43/2178
hsa05130	Pathogenic Escherichia coli infection	87/2178
hsa05417	Lipid and atherosclerosis	93/2178
hsa04625	C-type lectin receptor signaling pathway	53/2178
hsa04659	Th17 cell differentiation	54/2178
hsa04210	Apoptosis	64/2178
hsa04064	NF-kappa B signaling pathway	52/2178
hsa05167	Kaposi sarcoma-associated herpesvirus infection	84/2178
hsa05164	Influenza A	76/2178
hsa04612	Antigen processing and presentation	42/2178
hsa04621	NOD-like receptor signaling pathway	81/2178
hsa04218	Cellular senescence	70/2178
hsa05163	Human cytomegalovirus infection	93/2178
hsa04640	Hematopoietic cell lineage	49/2178
hsa05205	Proteoglycans in cancer	86/2178
hsa04062	Chemokine signaling pathway	81/2178
hsa05170	Human immunodeficiency virus 1 infection	87/2178
hsa05416	Viral myocarditis	33/2178
hsa04664	Fc epsilon RI signaling pathway	36/2178
hsa04144	Endocytosis	99/2178
hsa04145	Phagosome	66/2178
hsa05166	Human T-cell leukemia virus 1 infection	89/2178
hsa05235	PD-L1 expression and PD-1 checkpoint pathway in cancer	43/2178
hsa04010	MAPK signaling pathway	111/2178
hsa04660	T cell receptor signaling pathway	48/2178
hsa05161	Hepatitis B	67/2178
hsa05332	Graft-versus-host disease	24/2178
hsa04611	Platelet activation	54/2178
hsa05223	Non-small cell lung cancer	35/2178
hsa04142	Lysosome	56/2178
hsa05210	Colorectal cancer	40/2178
hsa04658	Th1 and Th2 cell differentiation	42/2178
hsa05133	Pertussis	36/2178
hsa04810	Regulation of actin cytoskeleton	87/2178

hsa04650	Natural killer cell mediated cytotoxicity	55/2178
hsa04910	Insulin signaling pathway	57/2178
hsa04668	TNF signaling pathway	49/2178
hsa04140	Autophagy - animal	58/2178
hsa05203	Viral carcinogenesis	78/2178
hsa05330	Allograft rejection	21/2178
hsa04722	Neurotrophin signaling pathway	50/2178
hsa04933	AGE-RAGE signaling pathway in diabetic complications	43/2178
hsa04620	Toll-like receptor signaling pathway	44/2178
hsa05220	Chronic myeloid leukemia	34/2178
hsa05165	Human papillomavirus infection	115/2178
hsa04012	ErbB signaling pathway	37/2178
hsa05134	Legionellosis	27/2178
hsa00520	Amino sugar and nucleotide sugar metabolism	24/2178
hsa04672	Intestinal immune network for IgA production	24/2178
hsa05211	Renal cell carcinoma	31/2178
hsa04917	Prolactin signaling pathway	31/2178
hsa05321	Inflammatory bowel disease	29/2178
hsa04520	Adherens junction	31/2178
hsa04940	Type I diabetes mellitus	21/2178
hsa04935	Growth hormone synthesis, secretion and action	47/2178
hsa04936	Alcoholic liver disease	54/2178
hsa04613	Neutrophil extracellular trap formation	69/2178
hsa04110	Cell cycle	49/2178
hsa05213	Endometrial cancer	26/2178
hsa04150	mTOR signaling pathway	58/2178
hsa04066	HIF-1 signaling pathway	43/2178
hsa05230	Central carbon metabolism in cancer	30/2178
hsa05212	Pancreatic cancer	32/2178
hsa04071	Sphingolipid signaling pathway	46/2178
hsa05310	Asthma	16/2178
hsa05231	Choline metabolism in cancer	39/2178
hsa04120	Ubiquitin mediated proteolysis	53/2178
hsa05100	Bacterial invasion of epithelial cells	32/2178
hsa04015	Rap1 signaling pathway	74/2178
hsa04912	GnRH signaling pathway	37/2178
hsa05323	Rheumatoid arthritis	37/2178
hsa04730	Long-term depression	26/2178
hsa04930	Type II diabetes mellitus	21/2178
hsa05160	Hepatitis C	57/2178
hsa01521	EGFR tyrosine kinase inhibitor resistance	32/2178
hsa05222	Small cell lung cancer	36/2178
hsa05320	Autoimmune thyroid disease	23/2178
hsa04370	VEGF signaling pathway	25/2178
hsa03030	DNA replication	17/2178
hsa04919	Thyroid hormone signaling pathway	45/2178

hsa05150	Staphylococcus aureus infection	37/2178
hsa00670	One carbon pool by folate	11/2178
hsa05202	Transcriptional misregulation in cancer	67/2178
hsa04514	Cell adhesion molecules	56/2178
hsa04137	Mitophagy - animal	29/2178
hsa04141	Protein processing in endoplasmic reticulum	60/2178
hsa03430	Mismatch repair	12/2178
hsa05215	Prostate cancer	37/2178
hsa05162	Measles	50/2178
hsa01250	Biosynthesis of nucleotide sugars	17/2178
hsa01522	Endocrine resistance	37/2178
hsa05120	Epithelial cell signaling in Helicobacter pylori infection	28/2178
hsa04670	Leukocyte transendothelial migration	42/2178
hsa04510	Focal adhesion	69/2178
hsa05146	Amoebiasis	38/2178
hsa04330	Notch signaling pathway	24/2178
hsa04920	Adipocytokine signaling pathway	27/2178
hsa01212	Fatty acid metabolism	23/2178
hsa04068	FoxO signaling pathway	46/2178
hsa05142	Chagas disease	37/2178
hsa04072	Phospholipase D signaling pathway	51/2178
hsa04710	Circadian rhythm	15/2178
hsa04360	Axon guidance	61/2178
hsa04928	Parathyroid hormone synthesis, secretion and action	38/2178
hsa05110	Vibrio cholerae infection	20/2178
hsa03440	Homologous recombination	17/2178
hsa05340	Primary immunodeficiency	16/2178
hsa03013	Nucleocytoplasmic transport	38/2178
hsa00564	Glycerophospholipid metabolism	35/2178
hsa04926	Relaxin signaling pathway	44/2178
hsa01523	Antifolate resistance	13/2178
hsa00500	Starch and sucrose metabolism	15/2178
hsa04929	GnRH secretion	24/2178
hsa00565	Ether lipid metabolism	1/1
hsa05212	Pancreatic cancer	1/1
hsa04912	GnRH signaling pathway	1/1
hsa04666	Fc gamma R-mediated phagocytosis	1/1
hsa05231	Choline metabolism in cancer	1/1
hsa00564	Glycerophospholipid metabolism	1/1
hsa04928	Parathyroid hormone synthesis, secretion and action	1/1
hsa04724	Glutamatergic synapse	1/1
hsa04071	Sphingolipid signaling pathway	1/1
hsa04072	Phospholipase D signaling pathway	1/1
hsa05208	Chemical carcinogenesis - reactive oxygen species	1/1
hsa04024	cAMP signaling pathway	1/1
hsa04014	Ras signaling pathway	1/1

hsa04144	Endocytosis	1/1
hsa04662	B cell receptor signaling pathway	57/2839
hsa05132	Salmonella infection	131/2839
hsa05131	Shigellosis	128/2839
hsa04640	Hematopoietic cell lineage	61/2839
hsa04110	Cell cycle	74/2839
hsa05135	Yersinia infection	78/2839
hsa04666	Fc gamma R-mediated phagocytosis	59/2839
hsa05140	Leishmaniasis	49/2839
hsa04144	Endocytosis	124/2839
hsa05416	Viral myocarditis	39/2839
hsa05145	Toxoplasmosis	63/2839
hsa05166	Human T-cell leukemia virus 1 infection	110/2839
hsa04659	Th17 cell differentiation	61/2839
hsa04218	Cellular senescence	82/2839
hsa04380	Osteoclast differentiation	69/2839
hsa05152	Tuberculosis	91/2839
hsa05169	Epstein-Barr virus infection	99/2839
hsa04145	Phagosome	78/2839
hsa04210	Apoptosis	71/2839
hsa04621	NOD-like receptor signaling pathway	92/2839
hsa04625	C-type lectin receptor signaling pathway	57/2839
hsa04115	p53 signaling pathway	43/2839
hsa04142	Lysosome	69/2839
hsa05332	Graft-versus-host disease	28/2839
hsa05203	Viral carcinogenesis	99/2839
hsa05215	Prostate cancer	53/2839
hsa05163	Human cytomegalovirus infection	106/2839
hsa04612	Antigen processing and presentation	44/2839
hsa05130	Pathogenic Escherichia coli infection	94/2839
hsa05330	Allograft rejection	25/2839
hsa05100	Bacterial invasion of epithelial cells	43/2839
hsa04510	Focal adhesion	96/2839
hsa04940	Type I diabetes mellitus	27/2839
hsa05205	Proteoglycans in cancer	96/2839
hsa05221	Acute myeloid leukemia	38/2839
hsa05133	Pertussis	42/2839
hsa04658	Th1 and Th2 cell differentiation	49/2839
hsa04010	MAPK signaling pathway	131/2839
hsa04668	TNF signaling pathway	58/2839
hsa05165	Human papillomavirus infection	144/2839
hsa00520	Amino sugar and nucleotide sugar metabolism	29/2839
hsa04672	Intestinal immune network for IgA production	29/2839
hsa03460	Fanconi anemia pathway	31/2839
hsa04062	Chemokine signaling pathway	88/2839
hsa05220	Chronic myeloid leukemia	40/2839

hsa04722	Neurotrophin signaling pathway	58/2839
hsa04810	Regulation of actin cytoskeleton	102/2839
hsa05170	Human immunodeficiency virus 1 infection	95/2839
hsa05231	Choline metabolism in cancer	49/2839
hsa05144	Malaria	28/2839
hsa04064	NF-kappa B signaling pathway	51/2839
hsa05222	Small cell lung cancer	46/2839
hsa04066	HIF-1 signaling pathway	53/2839
hsa01250	Biosynthesis of nucleotide sugars	22/2839
hsa05212	Pancreatic cancer	39/2839
hsa04910	Insulin signaling pathway	64/2839
hsa05323	Rheumatoid arthritis	46/2839
hsa05210	Colorectal cancer	43/2839
hsa05223	Non-small cell lung cancer	37/2839
hsa05321	Inflammatory bowel disease	34/2839
hsa05164	Influenza A	77/2839
hsa04660	T cell receptor signaling pathway	50/2839
hsa05417	Lipid and atherosclerosis	94/2839
hsa03030	DNA replication	21/2839
hsa04071	Sphingolipid signaling pathway	56/2839
hsa04611	Platelet activation	58/2839
hsa05418	Fluid shear stress and atherosclerosis	64/2839
hsa05142	Chagas disease	49/2839
hsa04710	Circadian rhythm	20/2839
hsa05211	Renal cell carcinoma	35/2839
hsa01522	Endocrine resistance	47/2839
hsa05167	Kaposi sarcoma-associated herpesvirus infection	85/2839
hsa04015	Rap1 signaling pathway	91/2839
hsa04928	Parathyroid hormone synthesis, secretion and action	50/2839
hsa04140	Autophagy - animal	64/2839
hsa04152	AMPK signaling pathway	56/2839
hsa05235	PD-L1 expression and PD-1 checkpoint pathway in cancer	43/2839
hsa01232	Nucleotide metabolism	41/2839
hsa04931	Insulin resistance	50/2839
hsa04650	Natural killer cell mediated cytotoxicity	59/2839
hsa05202	Transcriptional misregulation in cancer	83/2839
hsa01521	EGFR tyrosine kinase inhibitor resistance	38/2839
hsa01523	Antifolate resistance	17/2839
hsa04072	Phospholipase D signaling pathway	65/2839
hsa04933	AGE-RAGE signaling pathway in diabetic complications	46/2839
hsa01524	Platinum drug resistance	35/2839
hsa04114	Oocyte meiosis	58/2839
hsa04520	Adherens junction	34/2839
hsa04120	Ubiquitin mediated proteolysis	62/2839
hsa04936	Alcoholic liver disease	62/2839
hsa05225	Hepatocellular carcinoma	72/2839

hsa05340	Primary immunodeficiency	20/2839
hsa05146	Amoebiasis	46/2839
hsa04613	Neutrophil extracellular trap formation	80/2839
hsa04137	Mitophagy - animal	34/2839
hsa00670	One carbon pool by folate	12/2839
hsa04012	ErbB signaling pathway	39/2839
hsa04068	FoxO signaling pathway	57/2839
hsa04514	Cell adhesion molecules	67/2839
hsa05320	Autoimmune thyroid disease	26/2839
hsa04216	Ferroptosis	21/2839
hsa05213	Endometrial cancer	28/2839
hsa04912	GnRH signaling pathway	42/2839
hsa04540	Gap junction	40/2839
hsa04664	Fc epsilon RI signaling pathway	32/2839
hsa04151	PI3K-Akt signaling pathway	140/2839
hsa00564	Glycerophospholipid metabolism	44/2839
hsa04330	Notch signaling pathway	28/2839
hsa01200	Carbon metabolism	50/2839
hsa05161	Hepatitis B	68/2839
hsa00230	Purine metabolism	55/2839
hsa05134	Legionellosis	27/2839
hsa00051	Fructose and mannose metabolism	17/2839
hsa03410	Base excision repair	17/2839
hsa00563	Glycosylphosphatidylinositol (GPI)-anchor biosynthesis	14/2839
hsa05230	Central carbon metabolism in cancer	32/2839
hsa01200	Carbon metabolism	13/263
hsa04064	NF-kappa B signaling pathway	11/263

BgRatio	pvalue	p.adjust
84/8223	3.2060746E-16	1.0676228E-13
128/8223	1.0488914E-10	1.5144735E-08
249/8223	1.3643906E-10	1.5144735E-08
97/8223	2.5324102E-10	1.6916043E-08
112/8223	2.5399464E-10	1.6916043E-08
247/8223	4.1427839E-10	2.2543963E-08
202/8223	4.7389712E-10	2.2543963E-08
180/8223	1.3318889E-09	5.5439874E-08
137/8223	1.3055417E-08	4.8305043E-07
67/8223	3.8670597E-08	1.2819914E-06
77/8223	4.2359144E-08	1.2819914E-06
197/8223	4.6197887E-08	1.2819914E-06
215/8223	5.4060622E-08	1.3847836E-06
104/8223	7.6682572E-08	1.8239497E-06
108/8223	1.3181456E-07	2.9262832E-06
136/8223	1.7117781E-07	3.5626382E-06
104/8223	2.2458833E-07	4.0202537E-06
194/8223	2.263493E-07	4.0202537E-06
171/8223	2.3854649E-07	4.0202537E-06
78/8223	2.4145668E-07	4.0202537E-06
186/8223	2.7746991E-07	4.39988E-06
156/8223	4.5623114E-07	6.9056804E-06
225/8223	6.7923651E-07	9.8341634E-06
99/8223	7.3769366E-07	1.02355E-05
205/8223	8.479943E-07	1.1295284E-05
192/8223	1.3445538E-06	1.7220632E-05
212/8223	2.2138622E-06	2.7304301E-05
60/8223	2.5083323E-06	2.9831238E-05
68/8223	2.9546159E-06	3.3927141E-05
251/8223	3.7505596E-06	4.1631212E-05
152/8223	3.935127E-06	4.227088E-05
222/8223	5.3415959E-06	5.5585983E-05
89/8223	7.7047515E-06	7.7747947E-05
294/8223	1.0809547E-05	0.00010586997
104/8223	1.1347083E-05	0.00010795939
162/8223	2.3686759E-05	0.00021910252
42/8223	2.5119915E-05	0.00022607924
124/8223	2.63703E-05	0.0002310871
72/8223	4.5186957E-05	0.0003858271
132/8223	4.6531768E-05	0.00038737697
86/8223	4.8152301E-05	0.00039109064
92/8223	5.42485E-05	0.00043011311
76/8223	7.06601E-05	0.00054720496
229/8223	7.3645127E-05	0.00055735971

131/8223	7.6380766E-05	0.00055859874
137/8223	7.716379E-05	0.00055859874
114/8223	9.1738907E-05	0.00064997991
141/8223	9.8009868E-05	0.00067994346
204/8223	0.0001341382	0.00091159225
38/8223	0.00015531679	0.00101614867
119/8223	0.00015562637	0.00101614867
100/8223	0.00023901938	0.00153064334
104/8223	0.00031483578	0.00197811912
76/8223	0.00043317091	0.00264387291
331/8223	0.00043667571	0.00264387291
85/8223	0.00047627624	0.00283214264
57/8223	0.00055317135	0.00323168523
49/8223	0.00060438735	0.0034112032
49/8223	0.00060438735	0.0034112032
69/8223	0.00069912935	0.00388016792
70/8223	0.00094100552	0.00513696457
65/8223	0.00117720236	0.00632271592
71/8223	0.00125282197	0.00662205896
43/8223	0.00137197507	0.0071385578
120/8223	0.0015278188	0.00782713323
142/8223	0.00158032961	0.0079734812
190/8223	0.00164260568	0.00816399541
127/8223	0.00178785449	0.0087552286
58/8223	0.00191088843	0.00922211371
156/8223	0.00200955733	0.00945506992
109/8223	0.00201594584	0.00945506992
70/8223	0.00212454345	0.00982601344
76/8223	0.00217263912	0.00991080586
119/8223	0.00232570653	0.01046567939
31/8223	0.00245890141	0.01091752226
98/8223	0.00265138266	0.01161724244
142/8223	0.0027856208	0.01190957446
77/8223	0.00278963005	0.01190957446
210/8223	0.00286719373	0.01208576599
93/8223	0.00338410722	0.01384585146
93/8223	0.00338410722	0.01384585146
60/8223	0.00340948895	0.01384585146
46/8223	0.00387943936	0.01556449769
157/8223	0.00401361873	0.01591113138
79/8223	0.00448016789	0.01755171654
92/8223	0.00524481479	0.02030841074
53/8223	0.00559383224	0.02141087511
59/8223	0.00575667421	0.02178377854
36/8223	0.00593966281	0.0222236822
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171/8223	0.00753547064	0.02584528715
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37/8223	0.00832173361	0.02771137293
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225/8223	0.02736227654	0.03052413961
236/8223	0.02869998784	0.03052413961

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99/8223	2.9124186E-08	2.0648908E-06
127/8223	3.1097754E-08	2.0648908E-06
137/8223	5.3394489E-08	2.954495E-06
97/8223	9.5322177E-08	4.5209947E-06
77/8223	1.5919188E-07	6.6064631E-06
251/8223	5.991644E-07	2.2102509E-05
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222/8223	2.156808E-06	5.5148932E-05
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104/8223	1.5951432E-05	0.00024890762
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204/8223	2.0956741E-05	0.00027830552
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93/8223	0.00201186053	0.01171820519
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171/8223	0.00260998082	0.0142051415
104/8223	0.00282581379	0.01498359989
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141/8223	0.00458735319	0.02030668345
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148/8223	0.01053520065	0.04163912636
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73/8223	0.01195552206	0.04615387588
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71/8223	0.01340804153	0.05058488394
142/8223	0.01417430805	0.05228744748
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168/8223	0.01438343387	0.05247582465

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68/8223	0.02154355033	0.06811865436
354/8223	0.02494981029	0.07813620475
99/8223	0.02518245153	0.07813620475
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115/8223	0.02790214953	0.08392275567
162/8223	0.02795209973	0.08392275567
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26/8223	0.03335294336	0.09628849734
70/8223	0.033863816	0.09692057684
115/8223	7.2331004E-05	0.02140997723
104/8223	0.00046498766	0.06881817411

geneID

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NFKB1/TLR5/MAPK14/IL1B/CYTH4/NAIP/FHOD1/TUBB6/PIK3CD/NFKBIA/PIK3CB/CD14/TNFRSF1A
ASAP1/LIMK2/HCK/FCGR2A/PRKCD/VAV1/FCGR1A/MARCKS/LIMK1/LYN/MYO10/PIK3CD/VASP/PIK3
NFKB1/MAPK14/IFNGR2/HLA-DOA/HLA-DQA1/LDLR/LAMA5/ALOX5/HLA-DOB/CCR5/NFKBIA/HLA-D
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BLNK/NFKB1/RELB/NFKB2/ICAM1/JAK3/MAPK14/TRAF3/HLA-DOA/HLA-DQA1/CD44/BID/CD19/HL
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NFKB1/BID/CSF2RB/LMNB1/PIK3CD/CFLAR/NFKBIA/PTPN13/PIK3CB/NA/TNFRSF1A/EIF2AK3/GA
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HLA-DOA/HLA-DQA1/HLA-DOB/TAPBP/HLA-DPB1/HLA-DPA1/HLA-DQB1/CTSB/HSPA4/KLRD1/NA
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CD1C/MS4A1/IL4R/ITGAM/IL1B/HLA-DOA/HLA-DQA1/ANPEP/CD44/CD19/HLA-DOB/IL7/FCGR1A/C
MAPK14/SDC2/CD44/VAV1/HPSE/PXN/PLAU/SLC9A1/PIK3CD/PIK3CB/MMP9/PLAUR/SOS2/GRB2/
NFKB1/HCK/JAK3/STAT5B/PRKCD/FGR/VAV1/PXN/LYN/PIK3CD/CCR4/CCR5/NFKBIA/PIK3CB/GR
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ICAM1/HLA-DOA/HLA-DQA1/ITGB2/BID/HLA-DOB/HLA-DPB1/HLA-DPA1/CD80/HLA-DQB1/HLA-DR
MAPK14/ALOX5/VAV1/LYN/FCER1G/PIK3CD/PIK3CB/PLA2G4C/MAP2K3/SOS2/GRB2/MAPK3/LCP
ASAP1/NA/CYTH4/LDLR/RAB10/GIT2/RAB31/CCR5/EHD1/CLTCL1/IQSEC1/ARAP1/GRK6/AGAP3/A
C3/ITGAM/NCF4/FCGR2A/HLA-DOA/OLR1/HLA-DQA1/ITGB2/FCAR/HLA-DOB/TUBB6/FCGR1A/NC
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MAPK14/FCGR2A/FERMT3/APBB1IP/LYN/FCER1G/PIK3CD/VASP/PIK3CB/PLA2G4C/PTGIR/TLN1/
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AP3B2/CTSA/GBA/GGA2/CLTCL1/SGSH/ATP6V0D1/HYAL2/LITAF/GNS/CTSG/SORT1/PPT1/AP1S3
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NFKB1/JAK3/MAPK14/STAT5B/IL4R/IFNGR2/HLA-DOA/HLA-DQA1/HLA-DOB/STAT5A/IL12RB2/NFK
NFKB1/C3/MAPK14/ITGAM/IL1B/ITGB2/IRF8/CD14/MAPK3/MYD88/MAPK1/LY96/C1R/TNF/IRF1/TIR
LIMK2/ITGAX/ITGAM/ITGB2/VAV1/PXN/LIMK1/SSH1/ACTN1/SLC9A1/PIK3CD/ITGA7/ITGB4/PIK3CE

ICAM1/IFNGR2/ITGB2/BID/IFNAR1/VAV1/FCER1G/PIK3CD/PIK3CB/SOS2/PTK2B/GRB2/SH3BP2/M
SREBF1/PYGL/FLOT2/HK3/FLOT1/SOCS3/PPP1R3B/MKNK1/PIK3CD/RHOQ/PIK3CB/PYGM/SOS2/
NFKB1/ICAM1/MAPK14/CREB5/TRAF3/IL1B/SOCS3/BCL3/PIK3CD/JUNB/CFLAR/NFKBIA/PIK3CB/T
PRKCD/CAMKK2/PIK3CD/CFLAR/PIK3CB/MTMR3/EIF2AK3/ATG7/C9orf72/SH3GLB1/TP53INP2/MA
NFKB1/C3/NFKB2/JAK3/CREB5/STAT5B/HDAC4/TRAF3/HDAC7/STAT5A/PXN/LYN/ACTN1/LTBR/P
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HK3/GFPT2/UAP1L1/NPL/CYB5R1/CHIT1/NANS/HK1/GNPAT1/GALK1/CYB5R3/PGM1/GFPT1/UAP
TNFRSF13B/HLA-DOA/HLA-DQA1/TNFRSF13C/HLA-DOB/LTBR/HLA-DPB1/HLA-DPA1/CD80/HLA-D
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PTPRJ/ACTN1/NECTIN2/FARP2/CTNNA1/MAPK3/PTPN6/AFDN/MAPK1/IQGAP1/TGFBR1/FGFR1/IL
IL1B/HLA-DOA/HLA-DQA1/HLA-DOB/HLA-DPB1/HLA-DPA1/CD80/HLA-DQB1/GZMB/HLA-DRB1/HLA-DR
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WEE1/E2F5/GSK3B/GADD45B/CDKN2D/TTK/MCM3/CHEK2/YWHAQ/MCM2/ORC3/DBF4B/E2F3/CF
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NFKB1/HK3/IFNGR2/PFKFB3/LTBR/MKNK1/PIK3CD/PIK3CB/ANGPT1/IL6R/MAPK3/EGLN1/ENO1/P
HK3/PIK3CD/PIK3CB/KIT/PKM/SLC16A3/MAPK3/MAPK1/HK1/FGFR1/FLT3/RAF1/SLC1A5/MAP2K2/
NFKB1/PIK3CD/PIK3CB/TGFA/RALB/GADD45B/MAPK3/MAPK1/STAT3/TGFBR1/BRCA2/BCL2L1/RA
NFKB1/MAPK14/BID/FCER1G/PIK3CD/PIK3CB/TNFRSF1A/GNAQ/MAPK3/PRKCB/MAPK1/GAB2/PP
HLA-DOA/HLA-DQA1/HLA-DOB/FCER1G/HLA-DPB1/HLA-DPA1/HLA-DQB1/NA/HLA-DRB1/HLA-DR
SLC22A4/PCYT1A/PIK3CD/PIK3CB/PLA2G4C/SOS2/GRB2/SLC44A5/LYPLA1/MAPK3/PRKCB/CHPT
SOCS3/UBE2D1/COP1/CBLB/CBL/UBE2R2/UBE2H/UBE2Q2/FBXW7/UBE2J1/TRIM32/UBB/PIAS1/V
PXN/PIK3CD/PIK3CB/CLTCL1/CTNNA1/DNM2/CBL/ILK/ARPC5L/RHOG/WASF2/CAV1/CRK/SEPTIN
MAPK14/ITGAM/ITGB2/VAV1/APBB1P/RASGRP3/FYB1/PIK3CD/VASP/PIK3CB/KIT/ANGPT1/FPR1/
MAPK14/PRKCD/PLA2G4C/MAP2K3/SOS2/PTK2B/GRB2/GNAQ/MAPK3/PRKCB/HBEGF/MAPK1/PP
ICAM1/IL1B/HLA-DOA/HLA-DQA1/ITGB2/HLA-DOB/HLA-DPB1/ANGPT1/HLA-DPA1/ATP6V0D1/CD8
LYN/RYR1/PLA2G4C/GNAQ/MAPK3/PRKCB/MAPK1/IGF1R/PRKCA/RAF1/MAP2K2/GUCY1B1/GNA
CACNA1E/PRKCD/HK3/SOCS3/PIK3CD/PIK3CB/PKM/MAPK3/MAPK1/HK1/SOCS2/SOCS4/TNF/HK
NFKB1/TRAF3/SOCS3/BID/LDLR/IFNAR1/PIK3CD/CFLAR/NFKBIA/PIK3CB/TNFRSF1A/RXRA/EIF2A
PIK3CD/PIK3CB/SOS2/GRB2/NRG1/IL6R/TGFA/GSK3B/MAPK3/PRKCB/MAPK1/STAT3/IGF1R/PRK
NFKB1/COL4A4/COL4A3/TRAF3/LAMA5/TRAF4/PIK3CD/NFKBIA/PIK3CB/RXRA/TRAF5/GADD45B/I
HLA-DOA/HLA-DQA1/HLA-DOB/HLA-DPB1/HLA-DPA1/CD80/HLA-DQB1/GZMB/HLA-DRB1/HLA-DR
MAPK14/PXN/PIK3CD/PIK3CB/PLA2G4C/MAPK3/PRKCB/MAPK1/PRKCA/PPP3CC/SPHK1/RAF1/R
RNASEH2B/RFC4/MCM3/MCM2/RFC3/RFC5/PRIM1/MCM5/MCM4/PCNA/MCM6/RPA3/RFC1/POLD
NOTCH4/SLC9A1/PIK3CD/PIK3CB/RXRA/NOTCH2/THRB/NOTCH1/GSK3B/MAPK3/PRKCB/MAPK1

[illegible]

PLD1

BLNK/NFKB1/BANK1/CD72/BLK/CD79A/NA/CD19/LILRA6/CD22/RASGRP3/NFKBIA/CR2/PIK3CB/NF
TLR5/NFKB1/MAPK14/NAIP/TUBB2A/FHOD1/MYL9/MAP2K3/PIK3C2B/NFKBIA/IL1B/VPS41/NLRC4/
TLR5/NFKB1/C3/HK3/MAPK14/NAIP/PRKCD/CD44/TNIP1/MYL9/NFKBIA/IL1B/NLRC4/TRAFF5/PIK3C
HLA-DQA1/HLA-DOA/MS4A1/IL7/IL4R/ITGAM/CD1C/HLA-DQB1/HLA-DPB1/CD19/CD22/CD44/HLA-D
E2F5/WEE1/GADD45A/MCM4/MCM5/CHEK1/YWHAQ/TFDP1/CDKN2D/CDC20/CDKN2B/BUB1B/BU
NFKB1/MAPK14/MAP2K3/NFKBIA/IL1B/NLRC4/PIK3CB/ITGA4/MAP2K6/ARHGEF12/JUN/VAV2/GIT2
ASAP1/PRKCD/HCK/LIMK2/PIK3CB/MARCKS/MYO10/VAV2/FCGR2A/VAV1//FCGR2B/PRKCA/VAV3
NFKB1/C3/HLA-DQA1/HLA-DOA/MAPK14/ITGAM/HLA-DQB1/HLA-DPB1/HLA-DPA1/HLA-DOB/IFNG
ASAP1/RAB10/NA/CCR5/CLTCL1/ARFGAP3/LDLR/AGAP3/CAV1/SNX3/CBLB/IL2RB/KIF5C/ACAP1/
HLA-DQA1/HLA-DOA/HLA-DQB1/HLA-DPB1/HLA-DPA1/HLA-DOB/ICAM1/CD80/CAV1/ITGB2/HLA-D
NFKB1/HLA-DQA1/HLA-DOA/MAPK14/HLA-DQB1/HLA-DPB1/LAMA5/CCR5/HLA-DPA1/HLA-DOB/IF
NFKB1/RELB/HLA-DQA1/HLA-DOA/NFKB2/JAK3/HLA-DQB1/HLA-DPB1/TSP0/HLA-DPA1/TNFRSF1
RORC/NFKB1/HLA-DQA1/HLA-DOA/MAPK14/IL4R/JAK3/HLA-DQB1/HLA-DPB1/HLA-DPA1/HLA-DO
NFKB1/MAPK14/E2F5/GADD45A/MAP2K3/PIK3CB/RRAS2/NA/MAP2K6/TRPV4/CHEK1/MAPK13/MY
BLNK/NFKB1/RELB/NFKB2/MAPK14/NA/LILRA6/IFNGR2/OSCAR/SOCS3/SIRPA/NFKBIA/IL1B/NCF
NFKB1/C3/HLA-DQA1/HLA-DOA/MAPK14/ITGAM/HLA-DQB1/HLA-DPB1/MRC1/HLA-DPA1/HLA-DO
BLNK/NFKB1/RELB/HLA-DQA1/HLA-DOA/NFKB2/MAPK14/JAK3/HLA-DQB1/HLA-DPB1/TRAFF3/CD1
C3/HLA-DQA1/HLA-DOA/OLR1/ITGAM/HLA-DQB1/HLA-DPB1/MRC1/FCAR/HLA-DPA1/HLA-DOB/TU
NFKB1/PTPN13/LMNB1/PARP1/GADD45A/GZMB/NFKBIA/PIK3CB/NA/BCL2L1/CTSB/PRF1/JUN/EIF
NFKB1/NA/NA/MAPK14/NAIP/TRAFF3/TRPM2/PRKCD/IKBKE/NA/NFKBIA/NLRP12/IL1B/NLRC4/TRA
NFKB1/RELB/NFKB2/MAPK14/PRKCD/IKBKE/FCER1G/NFKBIA/IL1B/PIK3CB/CBLB/RRAS2/ARHGE
GADD45A/BCL2L1/CD82/CHEK1/PERP/SESN3/PMAIP1/TP53I3/STEAP3/CCNB2/RRM2/CCNB1/TH
AP3B2/CLTCL1/SGSH/CTSG/CTSA/HYAL2/CTSE/GGA2/CTSB/SUMF1/GBA/NPC1/HEXB/AP1S3/PF
HLA-DQA1/HLA-DOA/HLA-DQB1/HLA-DPB1/HLA-DPA1/HLA-DOB/CD80/GZMB/IL1B/KLRC1/HLA-D
NFKB1/C3/NFKB2/JAK3/TRAFF3/CCR4/CCR5/PKM/CREB5/STAT5B/NFKBIA/TRAFF5/PIK3CB/HDAC4
NFKB1/CREB5/NFKBIA/EGF/PIK3CB/MMP9/ERG/PLAU/NKX3-1/FGFR1/SOS2/BCL2/ETV5/HRAS/LE
NFKB1/MAPK14/CCR5/GNG7/CREB5/NFKBIA/IL1B/TRAFF5/PIK3CB/IL1R1/MAP2K6/ARHGEF12/PTC
HLA-DQA1/HLA-DOA/HLA-DQB1/HLA-DPB1/HLA-DPA1/HLA-DOB/KLRC1/CIITA/NA/HLA-DRA/CTSE
TLR5/NFKB1/MAPK14/NAIP/TUBB2A/EZR/MYO5C/NFKBIA/IL1B/CYFIP1/MYO10/IL1R1/ARHGEF12/
HLA-DQA1/HLA-DOA/HLA-DQB1/HLA-DPB1/HLA-DPA1/HLA-DOB/CD80/GZMB/HLA-DRA/HLA-DRB
CLTCL1/CAV1/PIK3CB/GAB1/SEPTIN11/VCL/PXN/WASF2/CRK/WASF1/SEPTIN1/CTTN/DNM2/CD2
COL4A4/COL4A3/LAMA5/CHAD/ITGB4/NA/MYL9/CAV1/EGF/PIK3CB/RASGRF1/ITGA4/JUN/VAV2/I
HLA-DQA1/HLA-DOA/HLA-DQB1/HLA-DPB1/HLA-DPA1/HLA-DOB/CD80/GZMB/IL1B/HLA-DRA/HLA
MAPK14/CD44/HPSE/SDC2/EZR/SDC4/CAV1/PIK3CB/MMP9/RRAS2/PLAU/PDCD4/ANK1/FGFR1/S
NFKB1/ITGAM/NA/STAT5B/PIK3CB/CD14/NA/PIM1/KIT/SOS2/CSF1R/CCNA2/HRAS/LEF1/CEBPA/A
NFKB1/C3/MAPK14/ITGAM/IRF8/IL1B/ITGB2/CD14/JUN/C1QA/MAPK13/LY96/NOD1/C1QB/CXCL5/S
NFKB1/IL12RB2/HLA-DQA1/HLA-DOA/MAPK14/IL4R/JAK3/HLA-DQB1/HLA-DPB1/HLA-DPA1/HLA-D
NFKB1/RELB/NFKB2/MAP3K20/MAPK14/MEF2C/MAP4K1/CACNA1E/RASGRP3/CACNB4/DUSP4/G
NFKB1/MAPK14/TRAFF3/ICAM1/CREB5/SOCS3/MAP2K3/NFKBIA/IL1B/TRAFF5/PIK3CB/MMP9/TNFA
NFKB1/COL4A4/COL4A3/LAMA5/TRAFF3/CHAD/ITGB4/PKM/NA/CREB5/NOTCH4/IKBKE/EGF/PIK3C
HK3/CYB5R1/UAP1L1/NPL/HK1/CHIT1/UAP1/GFUS/GALK1/HEXB/NANS/GFPT2/PGM1/PGM2/CYB
TNFRSF13B/HLA-DQA1/HLA-DOA/HLA-DQB1/HLA-DPB1/HLA-DPA1/TNFRSF13C/HLA-DOB/CD80/I
FANCD2/POLH/BLM/FANCI/BRCA2/FANCM/FAAP24/WDR48/BRIP1/BRCA1/FANCA/FANCG/RMI2/F
NFKB1/JAK3/CCR4/CCR5/PRKCD/HCK/GNG7/CXCR6/STAT5B/NFKBIA/PIK3CB/NA/NA/VAV2/VAV1
NFKB1/STAT5B/GADD45A/NFKBIA/PIK3CB/BCL2L1/SOS2/CDKN2A/HRAS/AKT1/CRK/CTBP2/MDM

NFKB1/MAPK14/PRKCD/IRAK3/IRAK2/NFKBIA/PIK3CB/NFKBIE/ZNF274/JUN/GAB1/MAPK13/SOS2
ITGAM/ITGB4/LIMK2/EZR/NA/MYL9/ITGAX/CYFIP1/EGF/PIK3CB/SSH1/RRAS2/ITGA4/ITGB2/FGFR
NFKB1/MAPK14/WEE1/CCR5/GNG7/LIMK2/MAP2K3/NFKBIA/TRAF5/PIK3CB/BCL2L1/APOBEC3G/I
CHPT1/SLC22A4/EGF/PIK3CB/PCYT1A/JUN/SOS2/DGKQ/PRKCA/SLC44A5/HRAS/AKT1/WASF2/P
NA/SDC2/ICAM1/CR1/IL1B/KLRB1/NA/ITGB2/NA/CD36/SELPA/ACKR1/THBS1/GYPC/HBB/CD40/HBA
BLNK/NFKB1/RELB/NFKB2/TRAF3/TNFRSF13C/ICAM1/PARP1/GADD45A/NFKBIA/IL1B/TRAF5/TNFR
NFKB1/COL4A4/COL4A3/LAMA5/TRAF3/TRAF4/NA/GADD45A/NFKBIA/TRAF5/PIK3CB/BCL2L1/CK3
NFKB1/HK3/PFKFB3/IFNGR2/MKNK1/EGF/PIK3CB/ANGPT1/ENO1/HK1/SLC2A1/LTBR/GAPDH/PFK
HK3/UAP1L1/HK1/UAP1/GFUS/GALK1/NANS/GFPT2/PGM1/PGM2/HK2/UXS1/HKDC1/GNE/NAGK/C
NFKB1/GADD45A/EGF/PIK3CB/BCL2L1/BRCA2/CDKN2A/VEGFA/AKT1/PLD2/TGFBR1/DDB2/PLD1
HK3/PYGL/SREBF1/FLOT2/SOCS3/FLOT1/MKNK1/PIK3CB/CBLB/PPP1R3B/HK1/PRKAR2B/SOCS2
HLA-DQA1/HLA-DOA/HLA-DQB1/HLA-DPB1/HLA-DPA1/HLA-DOB/ICAM1/CD80/IL1B/ATP6V1C1/AN
GADD45A/EGF/PIK3CB/JUN/PMAIP1/SOS2/BCL2/HRAS/LEF1/AKT1/BIRC5/TGFBR1/SOS1/DDB2/M
JAK3/STAT5B/GADD45A/EGF/PIK3CB/KIF5C/FHIT/SOS2/PRKCA/RXRA/CDKN2A/HRAS/AKT1/RAS
TLR5/RORC/NFKB1/IL12RB2/HLA-DQA1/HLA-DOA/IL4R/HLA-DQB1/HLA-DPB1/HLA-DPA1/HLA-DO
NFKB1/HLA-DQA1/HLA-DOA/HLA-DQB1/HLA-DPB1/TRAF3/HLA-DPA1/HLA-DOB/ICAM1/IKBKE/IFN
NFKB1/MAPK14/NFKBIA/PIK3CB/CBLB/CTLA4/NFKBIE/CARD11/JUN/VAV2/MAP3K14/MAPK13/VAV
NFKB1/OLR1/MAPK14/TRAF3/ICAM1/IKBKE/LDLR/MAP2K3/NFKBIA/IL1B/NCF4/NFE2L2/PIK3CB/M
RNASEH2B/RFC3/MCM4/MCM5/RFC5/POLE2/MCM2/MCM7/MCM3/RFC1/RFC2/RFC4/LIG1/PCNA/I
NFKB1/MAPK14/S1PR3/FCER1G/PIK3CB/SGMS2/MAPK13/PPP2R2B/PPP2R5C/PPP2R5B/BCL2/P
MAPK14/FERMT3/NA/FCER1G/PIK3CB/ARHGEF12/GP6/PTGIR/FCGR2A/APBB1IP/MAPK13/TBXA2
NFKB1/MGST1/MAPK14/MEF2C/SDC2/ICAM1/NA/SDC4/IL1B/NFE2L2/CAV1/PIK3CB/MMP9/IL1R1/M
NFKB1/C3/MAPK14/GNA15/IFNGR2/NFKBIA/IL1B/PIK3CB/JUN/C1QA/MAPK13/PPP2R2B/FASLG/A
RORC/BHLHE41/RORA/CRY1/CRY2/NFIL3/NR1D1/CLOCK/CREB1/RBX1/PER3/CUL1/FBXW11/PR
PIK3CB/JUN/SLC2A1/GAB1/SOS2/RAPGEF1/HRAS/VEGFA/AKT1/CRK/ELOB/ARNT/SOS1/TGFA/P
MAPK14/NOTCH4/PIK3CB/MMP9/JUN/MAPK13/SOS2/JAG1/HBEGF/CARM1/BCL2/BIK/CDKN2A/HF
NFKB1/C3/MAPK14/TRAF3/CCR4/CCR5/HCK/GNG7/ICAM1/IKBKE/NFKBIA/PIK3CB/MAP1LC3A/MA
MAPK14/ITGAM/FARP2/AFDN/RAP1GAP/NA/RASGRP3/MAP2K3/EGF/PIK3CB/ANGPT1/ITGB2/FGF
MEF2C/CREB5/RUNX2/FGFR1/MEF2A/HBEGF/BCL2/PRKCA/PDE4B/LRP5/RXRA/MMP25/GNA12/M
CAMKK2/PRKCD/TP53INP2/ATG7/ATG2A/PIK3CB/MAP1LC3A/RRAS2/BCL2L1/CTSB/EIF2AK3/SH3
CPT1A/RAB10/SREBF1/CAMKK2/PFKFB3/CREB5/STRADB/PIK3CB/CD36/ADIPOR1/PPP2R2B/CAE
NFKB1/MAPK14/IFNGR2/BATF/MAP2K3/NFKBIA/EGF/BATF3/PIK3CB/NFKBIE/MAP2K6/JUN/MAPK
AMPD3/UPP1/GMPR/RRM1/ADA/IMPDH1/NT5DC4/AMPD2/CTPS1/RRM2/AK5/GUK1/AK3/NME4/PN
NFKB1/CPT1A/PYGL/SREBF1/PRKCD/CREB5/SOCS3/NFKBIA/PIK3CB/PPP1R3B/CD36/SLC2A1/G
ICAM1/IFNGR2/FCER1G/GZMB/KLRC1/PIK3CB/ITGB2/PRF1/KLRD1/VAV2/IFNAR1/VAV1/NA/SOS2
NFKB1/NA/NA/ITGAM/NA/MEF2C/PAX5/NFKBIZ/NA/FUT8/GADD45A/RUNX2/GZMB/BAIAP3/MMP9/
NRG1/EGF/PIK3CB/BCL2L1/GAB1/SOS2/GAS6/BCL2/PRKCA/HRAS/VEGFA/AKT1/PDGFD/PDGFR
NFKB1/NA/ABCC3/IL1B/ATIC/ALOX12/SHMT1/GART/ABCG2/ABCC4/SHMT2/TYMS/MTHFR/ABCC2
FCER1G/EGF/PIK3CB/RRAS2/GAB1/AGPAT2/KIT/LPAR1/SOS2/DGKQ/CYTH4/PRKCA/RRAS/HRA
NFKB1/COL4A4/COL4A3/MAPK14/PRKCD/ICAM1/STAT5B/IL1B/PIK3CB/JUN/MAPK13/PIM1/PLCD3
MGST1/PIK3CB/BCL2L1/POLH/PMAIP1/FASLG/BCL2/TOP2A/CDKN2A/AKT1/BID/BRCA1/GSTO1/M
MAPK14/CPEB4/YWHAQ/MAPK13/SPDYA/CDC20/BUB1/PPP2R5C/PPP2R5B/CCNB2/CCNB1/CDK
FARP2/AFDN/FGFR1/PTPRJ/VCL/ACTN1/LEF1/PTPRF/WASF2/WASF1/NECTIN2/TGFBR1/CTNNA
SOCS3/CBLB/SYVN1/NEDD4L/UBE2D1/CDC20/UBB/CDC34/UBE2O/RHOBTB2/TRIM32/UBE2Q2/B
NFKB1/C3/CPT1A/MAPK14/SREBF1/ALDH2/TRAF3/CAMKK2/C3AR1/IL17RA/IKBKE/ACADVL/MAP2
MGST1/SMARCD3/GADD45A/DPF3/NFE2L2/PIK3CB/BCL2L1/TXNRD1/GAB1/SOS2/SMARCD1/TXN

BLNK/TNFRSF13B/CD79A/JAK3/CD19/TNFRSF13C/CIITA/ADA/UNG/RFX5/ZAP70/CD40/DCLRE1C
NFKB1/COL4A4/COL4A3/NA/ITGAM/CD1C/LAMA5/GNA15/CTSG/IL1B/PIK3CB/ITGB2/IL1R1/CD14/A
NFKB1/C3/MAPK14/ITGAM/SIGLEC9/NA/FPR3/NA/NA/NA/CTSG/CR1/NA/ATG7/NCF4/PIK3CB/NA/I
MAP1LC3A/RRAS2/BCL2L1/JUN/PINK1/EIF2AK3/BCL2L13/BNIP3L/UBB/RRAS/ATG9A/OPTN/HRAS
MTHFD1/ATIC/SHMT1/GART/SHMT2/TYMS/MTHFR/MTFMT/ALDH1L2/MTR/MTHFD2L/MTHFS
NRG1/STAT5B/EGF/PIK3CB/CBLB/JUN/GAB1/SOS2/HBEGF/PRKCA/HRAS/AKT1/CRK/CDKN1B/CA
MAPK14/GADD45A/EGF/PIK3CB/BCL6/HOMER3/CDKN2D/MAPK13/CDKN2B/SOS2/CCNB2/FASLG
HLA-DQA1/HLA-DOA/ITGAM/HLA-DQB1/HLA-DPB1/MPZL1/CD22/HLA-DPA1/SDC2/HLA-DOB/ICAM
HLA-DQA1/HLA-DOA/HLA-DQB1/HLA-DPB1/HLA-DPA1/HLA-DOB/CD80/GZMB/CTLA4/HLA-DRA/HL
ATG7/ACSL1/MAP1LC3A/GCLM/SLC39A8/STEAP3/LPCAT3/SLC11A2/SAT2/ACSL3/FTH1/SLC40A1
GADD45A/EGF/PIK3CB/SOS2/HRAS/LEF1/AKT1/SOS1/DBP2/PIK3R3/CTNNA1/BAK1/TCF7L1/PIK3
MAPK14/PRKCD/MAP2K3/MAP2K6/JUN/MAPK13/SOS2/HBEGF/PRKCA/HRAS/PTK2B/GNA11/PLD
TUBB2A/EGF/TUBB6/LPAR1/SOS2/TUBB1/PRKCA/CDK1/HRAS/GNA11/PDGFD/ITPR3/PDGFRB/M
MAPK14/ALOX5/FCER1G/MAP2K3/PIK3CB/MAP2K6/VAV2/MAPK13/VAV1/SOS2//PRKCA/VAV3/HR
NFKB1/COL4A4/COL4A3/IL7/IL4R/JAK3/LAMA5/CD19/CHAD/ITGB4/GNG7/NA/CREB5/OSM/EGF/PI
PLD4/PLB1/CHPT1/PLPP5/GPAT3/ACHE/PGS1/MBOAT2/PCYT1A/AGPAT2/DGKQ/GPD1L/LPCAT3
NOTCH4/TLE1/JAG1/ATXN1/DTX4/KAT2A/CTBP2/NOTCH2/NUMB/DVL2/NCSTN/NA/MFNG/KAT2B
HK3/PKM/ENO1/GPT2/HK1/PGD/IDH1/RPIA/PC/GAPDH/ACSS1/PFKP/SHMT1/GLDC/HK2/PGAM1/I
NFKB1/MAPK14/JAK3/TRAF3/CREB5/STAT5B/IKBKE/MAP2K3/NFKBIA/PIK3CB/MMP9/MAP2K6/JUN
AMPD3/GMPR/RRM1/FHIT/ADA/IMPDH1/NT5DC4/AMPD2/ATIC/RRM2/AK5/PGM1/PDE6D/PDE4B/C
TLR5/NFKB1/C3/NFKB2/ITGAM/NAIP/CR1/NFKBIA/IL1B/NLRC4/NA/ITGB2/CD14/BCL2L13/HSPA8/H
HK3/PFKFB3/HK1/GFUS/PFKP/HK2/SORD/PFKFB4/HKDC1/PFKL/KHK/GMPPB/FBP1/TPI1/ENOSF
PARP1/NEIL1/POLB/POLE2/POLL/UNG/PARP2/PARP3/LIG3/NTHL1/LIG1/PCNA/MBD4/POLE/POLE
DPM2/PIGC/PIGB/PIGH/PIGW/PIGG/GPLD1/PIGF/PIGL/PIGN/MPPE1/PIGU/GPAA1/PIGO
HK3/PKM/PIK3CB/FGFR1/HK1/IDH1/SLC2A1/KIT/PFKP/SLC1A5/HRAS/SLC16A3/AKT1/HK2/PGAM1
FBP1/TKT/CS/GOT2/PKM/SDHB/PGAM1/GAPDH/ENO1/PGLS/ECHS1/MDH2/ACO2
NFKB2/NFKB1/CSNK2A1/TNFRSF11A/LTB/TIRAP/CD14/RELB/TNFSF14/BLNK/

Count	Database	phi	listname
58	KEGG	12.9715821403	CD_NoMutation_Endoscopic_Remission_Wk12
68	KEGG	7.81973831787	CD_NoMutation_Endoscopic_Remission_Wk12
112	KEGG	7.81973831787	CD_NoMutation_Endoscopic_Remission_Wk12
55	KEGG	7.77170121896	CD_NoMutation_Endoscopic_Remission_Wk12
61	KEGG	7.77170121896	CD_NoMutation_Endoscopic_Remission_Wk12
110	KEGG	7.64696973694	CD_NoMutation_Endoscopic_Remission_Wk12
94	KEGG	7.64696973694	CD_NoMutation_Endoscopic_Remission_Wk12
85	KEGG	7.2561777619	CD_NoMutation_Endoscopic_Remission_Wk12
67	KEGG	6.31600752284	CD_NoMutation_Endoscopic_Remission_Wk12
39	KEGG	5.89211490386	CD_NoMutation_Endoscopic_Remission_Wk12
43	KEGG	5.89211490386	CD_NoMutation_Endoscopic_Remission_Wk12
87	KEGG	5.89211490386	CD_NoMutation_Endoscopic_Remission_Wk12
93	KEGG	5.85861807769	CD_NoMutation_Endoscopic_Remission_Wk12
53	KEGG	5.73898713156	CD_NoMutation_Endoscopic_Remission_Wk12
54	KEGG	5.53368364883	CD_NoMutation_Endoscopic_Remission_Wk12
64	KEGG	5.44822828437	CD_NoMutation_Endoscopic_Remission_Wk12
52	KEGG	5.39574653936	CD_NoMutation_Endoscopic_Remission_Wk12
84	KEGG	5.39574653936	CD_NoMutation_Endoscopic_Remission_Wk12
76	KEGG	5.39574653936	CD_NoMutation_Endoscopic_Remission_Wk12
42	KEGG	5.39574653936	CD_NoMutation_Endoscopic_Remission_Wk12
81	KEGG	5.35655917199	CD_NoMutation_Endoscopic_Remission_Wk12
70	KEGG	5.16079352348	CD_NoMutation_Endoscopic_Remission_Wk12
93	KEGG	5.00726257966	CD_NoMutation_Endoscopic_Remission_Wk12
49	KEGG	4.98989095434	CD_NoMutation_Endoscopic_Remission_Wk12
86	KEGG	4.94710284193	CD_NoMutation_Endoscopic_Remission_Wk12
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[illegible]

Table S17: Differential gene expression in UC_r

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ENSG00000143297	FCRL5
ENSG00000138755	CXCL9
ENSG00000104856	RELB
ENSG00000240505	TNFRSF13B
ENSG00000162949	CAPN13
ENSG00000095585	BLNK
ENSG00000132185	FCRLA
ENSG00000123096	SSPN
ENSG00000269404	SPIB
ENSG00000153064	BANK1
ENSG00000176533	GNG7
ENSG00000119866	BCL11A
ENSG00000144645	OSBPL10
ENSG00000169031	COL4A3
ENSG00000077150	NFKB2
ENSG00000012124	CD22
ENSG00000136573	BLK
ENSG00000082438	COBLL1
ENSG00000277443	MARCKS
ENSG00000106537	TSPAN13
ENSG00000171992	SYNPO
ENSG00000125744	RTN2
ENSG00000116191	RALGPS2
ENSG00000169507	SLC38A11
ENSG00000158286	RNF207
ENSG00000241106	HLA-DOB
ENSG00000188487	INSC
ENSG00000081052	COL4A4
ENSG00000196092	PAX5
ENSG00000103005	USB1
ENSG00000170456	DENND5B
ENSG00000159958	TNFRSF13C
ENSG00000198355	PIM3
ENSG00000153253	SCN3A
ENSG00000150625	GPM6A
ENSG00000167483	NIBAN3
ENSG00000263961	RHEX
ENSG00000196628	TCF4
ENSG00000187554	TLR5
ENSG00000137101	CD72
ENSG00000122986	HVCN1

ENSG00000164330	EBF1
ENSG00000144218	AFF3
ENSG00000140968	IRF8
ENSG00000187510	PLEKHG7
ENSG00000105492	SIGLEC6
ENSG00000197965	MPZL1
ENSG00000109684	CLNK
ENSG00000183762	KREMEN1
ENSG00000062524	LTK
ENSG00000103647	CORO2B
ENSG00000163874	ZC3H12A
ENSG00000059804	SLC2A3
ENSG00000183742	MACC1
ENSG00000148926	ADM
ENSG00000140391	TSPAN3
ENSG00000101188	NTSR1
ENSG00000175920	DOK7
ENSG00000075275	CELSR1
ENSG00000152127	MGAT5
ENSG00000105738	SIPA1L3
ENSG00000204936	CD177
ENSG00000148848	ADAM12
ENSG00000137509	PRCP
ENSG00000123610	TNFAIP6
ENSG00000163421	PROK2
ENSG00000177455	CD19
ENSG00000090339	ICAM1
ENSG00000173083	HPSE
ENSG00000139572	GPR84
ENSG00000165810	BTNL9
ENSG00000178773	CPNE7
ENSG00000158089	GALNT14
ENSG00000132470	ITGB4
ENSG00000171860	C3AR1
ENSG00000091436	MAP3K20
ENSG00000113368	LMNB1
ENSG00000177674	AGTRAP
ENSG00000120278	PLEKHG1
ENSG00000189337	KAZN
ENSG00000152672	CLEC4F
ENSG00000213889	PPM1N
ENSG00000265808	SEC22B
ENSG00000147535	PLPP5
ENSG00000133424	LARGE1
ENSG00000132704	FCRL2
ENSG00000239961	LILRA4

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ENSG000000175471	MCTP1
ENSG000000130702	LAMA5
ENSG000000133740	E2F5
ENSG000000186431	FCAR
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ENSG000000125462	C1orf61
ENSG000000110777	POU2AF1
ENSG000000158481	CD1C
ENSG000000160293	VAV2
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ENSG000000198794	SCAMP5
ENSG000000104320	NBN
ENSG000000174837	ADGRE1
ENSG000000123689	G0S2
ENSG000000170956	CEACAM3
ENSG000000158158	CNNM4
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ENSG00000111229	ARPC3
ENSG00000118690	ARMC2
ENSG00000114850	SSR3
ENSG00000116120	FARSB
ENSG00000105171	POP4
ENSG00000115053	NCL
ENSG00000087095	NLK
ENSG00000176410	DNAJC30
ENSG00000090621	PABPC4
ENSG00000254709	IGLL5
ENSG00000215021	PHB2
ENSG00000089157	RPLP0
ENSG00000143390	RFX5

ENSG00000185155	MIXL1
ENSG00000165916	PSMC3
ENSG00000141570	CBX8
ENSG00000153066	TXNDC11
ENSG00000155085	AK9
ENSG00000148634	HERC4
ENSG00000150768	DLAT
ENSG00000186283	TOR3A
ENSG00000003137	CYP26B1
ENSG00000125730	C3
ENSG00000132481	TRIM47
ENSG00000131043	AAR2
ENSG00000100353	EIF3D
ENSG00000110066	KMT5B

are_CFB

description

complement C3
STEAP family member 1B
RAR related orphan receptor C
Fc receptor like 5
C-X-C motif chemokine ligand 9
RELB proto-oncogene, NF-kB subunit
TNF receptor superfamily member 13B
calpain 13
B cell linker
Fc receptor like A
sarcospan
Spi-B transcription factor
B cell scaffold protein with ankyrin repeats 1
G protein subunit gamma 7
BAF chromatin remodeling complex subunit BCL11A
oxysterol binding protein like 10
collagen type IV alpha 3 chain
nuclear factor kappa B subunit 2
CD22 molecule
BLK proto-oncogene, Src family tyrosine kinase
cordon-bleu WH2 repeat protein like 1
myristoylated alanine rich protein kinase C substrate
tetraspanin 13
synaptopodin
reticulon 2
Ral GEF with PH domain and SH3 binding motif 2
solute carrier family 38 member 11
ring finger protein 207
major histocompatibility complex, class II, DO beta
INSC spindle orientation adaptor protein
collagen type IV alpha 4 chain
paired box 5
U6 snRNA biogenesis phosphodiesterase 1
DENN domain containing 5B
TNF receptor superfamily member 13C
Pim-3 proto-oncogene, serine/threonine kinase
sodium voltage-gated channel alpha subunit 3
glycoprotein M6A
niban apoptosis regulator 3
regulator of hemoglobinization and erythroid cell expansion
transcription factor 4
toll like receptor 5
CD72 molecule
hydrogen voltage gated channel 1

EBF transcription factor 1
AF4/FMR2 family member 3
interferon regulatory factor 8
pleckstrin homology and RhoGEF domain containing G7
sialic acid binding Ig like lectin 6
myelin protein zero like 1
cytokine dependent hematopoietic cell linker
kringle containing transmembrane protein 1
leukocyte receptor tyrosine kinase
coronin 2B
zinc finger CCCH-type containing 12A
solute carrier family 2 member 3
MET transcriptional regulator MACC1
adrenomedullin
tetraspanin 3
neurotensin receptor 1
docking protein 7
cadherin EGF LAG seven-pass G-type receptor 1
alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase
signal induced proliferation associated 1 like 3
CD177 molecule
ADAM metallopeptidase domain 12
prolylcarboxypeptidase
TNF alpha induced protein 6
prokineticin 2
CD19 molecule
intercellular adhesion molecule 1
heparanase
G protein-coupled receptor 84
butyrophilin like 9
copine 7
polypeptide N-acetylgalactosaminyltransferase 14
integrin subunit beta 4
complement C3a receptor 1
mitogen-activated protein kinase kinase kinase 20
lamin B1
angiotensin II receptor associated protein
pleckstrin homology and RhoGEF domain containing G1
kazrin, periplakin interacting protein
C-type lectin domain family 4 member F
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1N (putative)
SEC22 homolog B, vesicle trafficking protein (gene/pseudogene)
phospholipid phosphatase 5
LARGE xylosyl- and glucuronyltransferase 1
Fc receptor like 2
leukocyte immunoglobulin like receptor A4

regulator of G protein signaling 1
ADAM metallopeptidase domain 28
multiple C2 and transmembrane domain containing 1
laminin subunit alpha 5
E2F transcription factor 5
Fc fragment of IgA receptor
prostaglandin I2 receptor
CD180 molecule
membrane spanning 4-domains A1
coiled-coil domain containing 50
chromosome 1 open reading frame 61
POU class 2 homeobox associating factor 1
CD1c molecule
vav guanine nucleotide exchange factor 2
growth differentiation factor 7
secretory carrier membrane protein 5
nibrin
adhesion G protein-coupled receptor E1
G0/G1 switch 2
CEA cell adhesion molecule 3
cyclin and CBS domain divalent metal cation transport mediator 4
nuclear factor kappa B subunit 1
ATP binding cassette subfamily B member 4
leukocyte immunoglobulin like receptor A5
F-box and leucine rich repeat protein 5
desmoplakin
matrix metallopeptidase 8
alkaline phosphatase, biomineralization associated
cytohesin 3
interleukin 17 receptor E
T cell leukemia/lymphoma 1A
oxidized low density lipoprotein receptor 1
ST3 beta-galactoside alpha-2,3-sialyltransferase 2
histone deacetylase 9
Rho guanine nucleotide exchange factor 4
SEL1L family member 3
TEA domain transcription factor 2
class II major histocompatibility complex transactivator
hydroxycarboxylic acid receptor 3
TNFAIP3 interacting protein 1
solute carrier family 12 member 3
vanin 2
cathelicidin antimicrobial peptide
angiopoietin 1
glutaminy-peptide cyclotransferase
CXXC finger protein 5

cystatin F
nuclear factor, erythroid 2 like 3
Janus kinase 3
peptidoglycan recognition protein 1
5-oxoprolinase, ATP-hydrolysing
C-C motif chemokine ligand 23
TNF alpha induced protein 3
RAB10, member RAS oncogene family
S100 calcium binding protein A12
annexin A3
NFKB inhibitor epsilon
interleukin 1 beta
MAX dimerization protein 3
EPH receptor A2
shisa family member 8
pro-apoptotic WT1 regulator
solute carrier family 26 member 8
Fc fragment of IgE receptor Ig
BCL6 transcription repressor
coagulation factor V
JunB proto-oncogene, AP-1 transcription factor subunit
prostate transmembrane protein, androgen induced 1
RCSD domain containing 1
ral guanine nucleotide dissociation stimulator like 4
notch receptor 4
syndecan 2
glycogen phosphorylase L
prepronociceptin
WDFY family member 4
mannose receptor C-type 1
pleckstrin
ADAM metallopeptidase domain 8
collagen type V alpha 3 chain
deoxyribonuclease 1 like 3
cysteine rich secretory protein 3
docking protein 4
X-C motif chemokine receptor 1
carbonic anhydrase 4
CD79a molecule
WD repeat and FYVE domain containing 2
transmembrane protein 92
solute carrier family 4 member 10
C-type lectin domain containing 17A
DOP1 leucine zipper like protein B
sialic acid binding Ig like lectin 5
calcium voltage-gated channel auxiliary subunit beta 4

S100 calcium binding protein A9
steroid receptor RNA activator 1
major histocompatibility complex, class II, DO alpha
GDNF family receptor alpha 2
zinc finger protein 814
KIT proto-oncogene, receptor tyrosine kinase
spermatid perinuclear RNA binding protein
tumor protein D52
fatty acid 2-hydroxylase
olfactomedin 4
major histocompatibility complex, class II, DQ alpha 1
peptidase inhibitor 3
protein kinase C delta
bone marrow stromal cell antigen 1
small integral membrane protein 14
SRSF protein kinase 1
cysteine rich transmembrane module containing 1
DNA damage induced apoptosis suppressor
hexokinase 3
rabaptin, RAB GTPase binding effector protein 2
EMAP like 6
tectonin beta-propeller repeat containing 2
mast cell expressed membrane protein 1
tubulin beta 6 class V
coiled-coil serine rich protein 1
plasminogen activator, urokinase
tyrosyl-DNA phosphodiesterase 2
matrix metalloproteinase 9
phospholipase B1
flotillin 1
TNF receptor superfamily member 21
serine palmitoyltransferase small subunit B
family with sequence similarity 200 member B
glycerol-3-phosphate acyltransferase 3
glutamyl-tRNA amidotransferase subunit QRSL1
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
cannabinoid receptor 2
solute carrier family 17 member 9
basic helix-loop-helix family member e41
mitogen-activated protein kinase 14
N-ribosyldihydronicotinamide:quinone reductase 2
syndecan 4
CD80 molecule
hedgehog acyltransferase
aquaporin 9
interleukin 1 receptor antagonist

FERM, ARH/RhoGEF and pleckstrin domain protein 2
folate receptor gamma
chromatin licensing and DNA replication factor 1
BAI1 associated protein 3
neuropilin and tolloid like 1
lipocalin 2
transmembrane protein 45B
prickle planar cell polarity protein 1
GRAM domain containing 1A
MYD88 innate immune signal transduction adaptor
SH3KBP1 binding protein 1
glucosylceramidase beta
golgin A7
solute carrier family 9 member A1
immediate early response 3
microtubule associated monooxygenase, calponin and LIM domain containing 3
ADP ribosylation factor GTPase activating protein 3
adaptor related protein complex 3 subunit beta 2
ankyrin repeat and ubiquitin domain containing 1
NFKB inhibitor zeta
NLR family pyrin domain containing 1
peptidyl arginine deiminase 2
zinc finger protein 438
RELT like 1
USP6 N-terminal like
phosphatase domain containing paladin 1
influenza virus NS1A binding protein
C-type lectin like 1
coenzyme Q2, polyprenyltransferase
kallikrein 1
fibrillin 1
Rho GTPase activating protein 17
B and T lymphocyte associated
fms related receptor tyrosine kinase 3
plasminogen activator, urokinase receptor
protein tyrosine phosphatase non-receptor type 13
glyceraldehyde-3-phosphate dehydrogenase
target of myb1 membrane trafficking protein
myosin X
osteoclast associated Ig-like receptor
CD79b molecule
desmocollin 2
BCL3 transcription coactivator
zinc finger protein 860
beta-1,3-galactosyltransferase 2
leukocyte immunoglobulin like receptor A6

Ras protein specific guanine nucleotide releasing factor 1
calcium voltage-gated channel subunit alpha1 E
TBC1 domain family member 9
adhesion G protein-coupled receptor E2
insulin like 3
S100 calcium binding protein A8
Fc receptor like 1
interferon gamma receptor 2
SRY-box transcription factor 5
metal regulatory transcription factor 1
heat shock protein family A (Hsp70) member 12A
acyl-CoA synthetase long chain family member 1
UDP glycosyltransferase 8
nuclear respiratory factor 1
suppressor of glucose, autophagy associated 1
zinc finger DHHC-type palmitoyltransferase 19
plexin C1
UTP6 small subunit processome component
solute carrier family 2 member 14
zinc finger protein 532
Fc fragment of IgE receptor II
signal transducing adaptor family member 1
nei like DNA glycosylase 1
potassium inwardly rectifying channel subfamily J member 15
protein kinase C and casein kinase substrate in neurons 1
BH3 interacting domain death agonist
coiled-coil domain containing 106
semaphorin 3C
STEAP4 metalloreductase
translocator protein
lactate dehydrogenase A
transmembrane protein 176B
cut like homeobox 2
tectonic family member 1
glycogenin 1
galectin 12
GRAM domain containing 1C
minichromosome maintenance complex binding protein
UV radiation resistance associated
nicotinamide phosphoribosyltransferase
HLF transcription factor, PAR bZIP family member
hydroxycarboxylic acid receptor 2
monooxygenase DBH like 1
neuraminidase 1
myosin IE
immunoglobulin like domain containing receptor 1

novel protein
ribonuclease K
lactotransferrin
sphingomyelin phosphodiesterase acid like 3A
C9orf72-SMCR8 complex subunit
protein kinase, membrane associated tyrosine/threonine 1
transmembrane protein 176A
dehydrogenase/reductase 13
solute carrier family 39 member 8
sulfotransferase family 1B member 1
homeobox B2
acetyl-CoA acyltransferase 1
scavenger receptor family member expressed on T cells 1
protein tyrosine phosphatase receptor type S
leukocyte associated immunoglobulin like receptor 2
glutamic--pyruvic transaminase 2
ZFP36 ring finger protein like 1
zinc finger protein 319
lysyl oxidase like 1
sialic acid binding Ig like lectin 9
ADAM metallopeptidase domain 9
switching B cell complex subunit SWAP70
haptoglobin
tumor protein p53 inducible protein 11
cysteine rich protein 3
chondroadherin
fermitin family member 3
zinc finger protein 641
flotillin 2
semaphorin 4A
ATPase secretory pathway Ca²⁺ transporting 2
oncostatin M
maltase-glucoamylase 2 (putative)
dual specificity phosphatase 13
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta
chloride intracellular channel 1
ST3 beta-galactoside alpha-2,3-sialyltransferase 4
ankyrin repeat and SOCS box containing 2
trio Rho guanine nucleotide exchange factor
leukotriene A4 hydrolase
resistin
dysferlin
vasodilator stimulated phosphoprotein
potassium voltage-gated channel subfamily H member 8
oxidative stress responsive kinase 1
CD44 molecule (Indian blood group)

kynurenine 3-monooxygenase
N-terminal EF-hand calcium binding protein 1
enolase 1
zinc finger CCHC-type containing 7
transcobalamin 1
bactericidal permeability increasing protein
docking protein 3
myocyte enhancer factor 2C
cAMP responsive element binding protein 5
defensin alpha 3
NLR family member X1
heparan sulfate-glucosamine 3-sulfotransferase 1
TNF receptor associated factor 4
whirlin
HCK proto-oncogene, Src family tyrosine kinase
syndecan binding protein
ArfGAP with SH3 domain, ankyrin repeat and PH domain 1
myotubularin related protein 11
RUNX family transcription factor 2
G protein-coupled receptor 27
CDC42 effector protein 3
collagen type XVII alpha 1 chain
protein tyrosine phosphatase receptor type K
FCH and double SH3 domains 2
procollagen C-endopeptidase enhancer 2
phospholipase D family member 4
family with sequence similarity 81 member A
CEA cell adhesion molecule 8
defensin alpha 4
quiescin sulfhydryl oxidase 2
multiple C2 and transmembrane domain containing 2
interleukin 4 receptor
brain abundant membrane attached signal protein 1
alanyl aminopeptidase, membrane
V-set pre-B cell surrogate light chain 3
GLI pathogenesis related 2
ADP ribosylation factor like GTPase 6 interacting protein 5
collagen type IX alpha 2 chain
nuclear factor, interleukin 3 regulated
uronyl 2-sulfotransferase
scaffold attachment factor B2
C-type lectin domain containing 9A
extra spindle pole bodies like 1, separase
gap junction protein beta 6
SPARC related modular calcium binding 1
deltex E3 ubiquitin ligase 4

NLR family CARD domain containing 4
zinc finger protein 33A
translocation associated membrane protein 2
CD40 molecule
ribonuclease A family member 2
protein phosphatase 1 regulatory subunit 3B
dimethylarginine dimethylaminohydrolase 2
DNA damage regulated autophagy modulator 1
VAMP associated protein A
RNA polymerase II subunit C
vitamin D receptor
RAS related
S100 calcium binding protein A6
secretory leukocyte peptidase inhibitor
TNF receptor associated factor 5
glycoprotein V platelet
beta-1,3-N-acetylgalactosaminyltransferase 2
major histocompatibility complex, class II, DQ beta 1
tenascin R
N-acetylneuraminate pyruvate lyase
LIM domain kinase 2
CD200 molecule
interleukin 7
phosphoglycerate dehydrogenase
SID1 transmembrane family member 2
capping actin protein of muscle Z-line subunit alpha 1
cell division cycle associated 2
cortactin binding protein 2
EF-hand domain family member D2
zinc finger protein 318
RAD23 homolog B, nucleotide excision repair protein
chromosome 19 open reading frame 38
BEN domain containing 4
granule associated Rac and RHOG effector 1
calcium/calmodulin dependent protein kinase ID
transmembrane protein 185B
activator of transcription and developmental regulator AUTS2
EF-hand domain containing 1
RAB32, member RAS oncogene family
serpin family F member 1
ubiquitin conjugating enzyme E2 D1
chromosome 11 open reading frame 80
cytoskeleton associated protein 4
serpin family B member 1
zinc finger protein 66
sorting nexin 18

neurexophilin 4
dishevelled binding antagonist of beta catenin 1
ghrelin and obestatin prepropeptide
ribosomal protein S6 kinase A5
transmembrane O-mannosyltransferase targeting cadherins 1
orosomucoid 1
cysteine rich secretory protein 2
growth arrest and DNA damage inducible gamma
adhesion G protein-coupled receptor G3
tudor domain containing 9
metallothionein 1F
solute carrier family 23 member 2
NOP10 ribonucleoprotein
dystrotelin
mitotic arrest deficient 2 like 2
proline rich 14 like
elastase, neutrophil expressed
calcium/calmodulin dependent protein kinase kinase 2
solute carrier family 22 member 4
BLCAP apoptosis inducing factor
tripartite motif containing 27
sorcin
PHD finger protein 21A
P2RX5-TAX1BP3 readthrough (NMD candidate)
aryl hydrocarbon receptor nuclear translocator like 2
DSN1 component of MIS12 kinetochore complex
brain protein I3
family with sequence similarity 117 member B
SET binding protein 1
tetratricopeptide repeat domain 9
zinc finger DHHC-type palmitoyltransferase 14
LIM domain containing preferred translocation partner in lipoma
mal, T cell differentiation protein
thymidylate synthetase
TNF receptor superfamily member 11a
myosin phosphatase Rho interacting protein
spermatogenesis associated 6
kinase suppressor of ras 1
ectodermal-neural cortex 1
KH RNA binding domain containing, signal transduction associated 2
NEDD4 binding protein 1
neuritin 1
solute carrier family 25 member 44
INO80 complex ATPase subunit
C-X-C motif chemokine receptor 5
kinesin family member 3C

solute carrier family 4 member 3
laminin subunit gamma 1
sperm antigen with calponin homology and coiled-coil domains 1
neutrophil cytosolic factor 4
DnaJ heat shock protein family (Hsp40) member C3
solute carrier family 35 member E3
CD14 molecule
asialoglycoprotein receptor 2
family with sequence similarity 193 member A
LY6/PLAUR domain containing 6B
serpin family A member 1
synoviolin 1
NFKB inhibitor alpha
cyclin D3
spermatogenesis and centriole associated 1
sorting nexin 22
adenosine monophosphate deaminase 3
small ArfGAP2
scavenger receptor class B member 1
CEA cell adhesion molecule 6
EH domain containing 1
leucine rich repeat containing 37 member A2
kinesin family member C1
complement C3d receptor 2
TPD52 like 2
adaptor related protein complex 1 subunit sigma 3
rabphilin 3A
pyruvate kinase M1/2
sodium voltage-gated channel beta subunit 1
ribonuclease A family member 3
TLE family member 1, transcriptional corepressor
adipocyte plasma membrane associated protein
galactokinase 1
zinc finger and SCAN domain containing 9
integrin subunit alpha E
inositol 1,4,5-trisphosphate receptor type 1
copine 5
kelch like family member 14
THADA armadillo repeat containing
perilipin 3
collagen type XIX alpha 1 chain
capping actin protein of muscle Z-line subunit alpha 2
SH3 domain containing GRB2 like, endophilin B1
lin-7 homolog A, crumbs cell polarity complex component
BCL2 like 11
methenyltetrahydrofolate synthetase

collagen type V alpha 1 chain
phospholipase A and acyltransferase 5
creatine kinase B
lysophosphatidylcholine acyltransferase 3
cyclin B2
selenoprotein T
symplekin
proton activated chloride channel 1
RAB24, member RAS oncogene family
D-glutamate cyclase
proline rich coiled-coil 2B
adenosine kinase
RPGR interacting protein 1
formin 1
basic leucine zipper ATF-like transcription factor 3
transmembrane protein 156
forkhead box M1
ETS proto-oncogene 2, transcription factor
cyclin L2
mitogen-activated protein kinase kinase kinase 14
zinc finger protein 609
phosphoglycerate mutase 1
RAB30, member RAS oncogene family
protein kinase C epsilon
TNF receptor superfamily member 12A
FGR proto-oncogene, Src family tyrosine kinase
chromosome 2 open reading frame 92
tropomyosin 3
ADP ribosylation factor like GTPase 11
PRKR interacting protein 1
argonaute RISC catalytic component 3
Fc fragment of IgG receptor IIa
TAFA chemokine like family member 2
peptidylprolyl isomerase F
solute carrier family 37 member 3
lymphocyte cytosolic protein 1
integrin subunit alpha M
lymphocyte antigen 86
non-SMC condensin I complex subunit G
S100 calcium binding protein A11
hook microtubule tethering protein 2
aldehyde dehydrogenase 1 family member A2
amine oxidase copper containing 2
LIM domains containing 1
T cell-interacting, activating receptor on myeloid cells 1
SUFU negative regulator of hedgehog signaling

LARGE xylosyl- and glucuronyltransferase 2
CCAAT enhancer binding protein epsilon
thioredoxin reductase 1
kinesin family member 18B
LIM domain kinase 1
toll like receptor 10
RAS guanyl releasing protein 3
G2 and S-phase expressed 1
SPC25 component of NDC80 kinetochore complex
methyltransferase like 8
kinesin family member 5C
diacylglycerol O-acyltransferase 2
centromere protein E
sialic acid binding Ig like lectin 8
pentraxin 3
glutamate ionotropic receptor NMDA type subunit associated protein 1
nuclear prelamin A recognition factor
zinc finger protein 701
BICD cargo adaptor 1
hydroxysteroid 11-beta dehydrogenase 1
cAMP-dependent protein kinase inhibitor gamma
striatin interacting protein 2
chromosome 16 open reading frame 74
TNF receptor associated factor 3
phospholipase A2 group VII
FRAT regulator of WNT signaling pathway 2
cyclin dependent kinase inhibitor 2C
sorbitol dehydrogenase
Rho related BTB domain containing 2
calpain 14
oligodendrocyte transcription factor 2
potassium two pore domain channel subfamily K member 17
aldehyde dehydrogenase 2 family member
FOS like 2, AP-1 transcription factor subunit
SLIT-ROBO Rho GTPase activating protein 2B
transmembrane protein 65
cell division cycle associated 4
N-acetyltransferase domain containing 1
ribonucleotide reductase regulatory subunit M2
baculoviral IAP repeat containing 5
phosphogluconate dehydrogenase
integrin subunit beta 2
zinc finger and BTB domain containing 7B
SH3 domain binding protein 4
TATA-box binding protein associated factor 15
zinc finger protein 469

scaffold attachment factor B
solute carrier family 2 member 6
ArfGAP with dual PH domains 1
long intergenic non-protein coding RNA 2218
cochlin
striatin interacting protein 1
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3
5'-aminolevulinate synthase 1
C-type lectin domain family 4 member C
RAB27A, member RAS oncogene family
DENN domain containing 5A
polyamine oxidase
zinc finger protein 850
NLR family apoptosis inhibitory protein
gamma-glutamyl hydrolase
collagen like tail subunit of asymmetric acetylcholinesterase
interleukin 1 receptor accessory protein
myosin VIIB
vanin 1
growth arrest and DNA damage inducible beta
anillin actin binding protein
novel protein
5'-3' exoribonuclease 2
reticulon 3
insulin induced gene 1
hyaluronidase 2
kinesin family member 20A
triosephosphate isomerase 1
methyltransferase like 9
leucine rich repeat containing 75B
calcineurin binding protein 1
NBL1, DAN family BMP antagonist
ring finger protein 19B
suppressor of cytokine signaling 3
NFKB inhibitor beta
translocase of outer mitochondrial membrane 40 like
H1.10 linker histone
cell division cycle 25A
1-acylglycerol-3-phosphate O-acyltransferase 2
amine oxidase copper containing 1
formyl peptide receptor 1
synapsin II
ring finger protein 32
golgi brefeldin A resistant guanine nucleotide exchange factor 1
coagulation factor XIII A chain
insulin like growth factor binding protein 2

centromere protein U
fucosyltransferase 7
grancalcin
G protein regulated inducer of neurite outgrowth 1
zinc finger protein 281
protein phosphatase 4 regulatory subunit 2
ornithine aminotransferase
golgi associated, gamma adaptin ear containing, ARF binding protein 2
G protein-coupled receptor kinase 5
tetraspanin 15
Wnt family member 2B
patatin like phospholipase domain containing 1
calcium sensing receptor
myosin VIIA
WD repeat domain 77
FYVE, RhoGEF and PH domain containing 2
dachshund family transcription factor 1
PX domain containing 1
novel transcript
inhibitor of nuclear factor kappa B kinase subunit epsilon
C-C motif chemokine receptor like 2
proteasome 20S subunit alpha 1
dual specificity phosphatase 10
protein phosphatase 2 regulatory subunit B'alpha
cyclin dependent kinase 2
Rap guanine nucleotide exchange factor 5
S100 calcium binding protein P
denticleless E3 ubiquitin protein ligase homolog
novel protein, ZNRF2-LINC01176 readthrough
interleukin 23 receptor
very low density lipoprotein receptor
neutrophil cytosolic factor 2
N-deacetylase and N-sulfotransferase 3
grainyhead like transcription factor 1
ZW10 interacting kinetochore protein
thymidine kinase 1
discs large MAGUK scaffold protein 5
ankyrin repeat domain 30B
cytoskeleton associated protein 2 like
oligodendrocyte transcription factor 1
RBM14-RBM4 readthrough
semaphorin 4D
lysosomal associated membrane protein family member 5
tyrosylprotein sulfotransferase 2
capping actin protein, gelsolin like
centromere protein F

regulating synaptic membrane exocytosis 3
fatty acyl-CoA reductase 1
cytochrome b5 reductase 1
transmembrane p24 trafficking protein 1
calpain 12
nuclear factor, erythroid 2
integrin subunit alpha 1
cadherin like and PC-esterase domain containing 1
cell division cycle 25C
reticulon 4
adhesion G protein-coupled receptor B3
metallothionein 1E
junction adhesion molecule like
ribonuclease P/MRP subunit p25 like
ficolin 1
SR-related CTD associated factor 4
caspase recruitment domain family member 6
cyclase associated actin cytoskeleton regulatory protein 1
cyclin dependent kinase 1
fatty acid desaturase 2
AT-rich interaction domain 1B
potassium voltage-gated channel subfamily Q member 4
C-type lectin domain containing 16A
ATPase H⁺ transporting V1 subunit C1
muscle RAS oncogene homolog
harakiri, BCL2 interacting protein
CREB regulated transcription coactivator 1
ecotropic viral integration site 5
novel transcript, TSTD1 - F11R readthrough
oxoeicosanoid receptor 1
dual specificity phosphatase 3
zinc finger protein 618
suppression of tumorigenicity 14
scaffold protein involved in DNA repair
stathmin 1
solute carrier family 16 member 3
lysine acetyltransferase 2A
solute carrier family 38 member 10
tyrosylprotein sulfotransferase 1
chromatin assembly factor 1 subunit B
heat shock transcription factor 4
archaelysin family metallopeptidase 2
cytidine deaminase
late endosomal/lysosomal adaptor, MAPK and MTOR activator 1
SIK family kinase 3
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7

potassium channel tetramerization domain containing 21
coiled-coil domain containing 32
PDZ domain containing 3
major histocompatibility complex, class II, DQ beta 2
splicing factor SWAP
serine incorporator 2
protein phosphatase 1 regulatory subunit 3D
forkhead box K1
single stranded DNA binding protein 2
heparan sulfate-glucosamine 3-sulfotransferase 5
KIAA0825
UPF1 RNA helicase and ATPase
pre-mRNA processing factor 3
Ras association domain family member 6
nudix hydrolase 13
adenosine deaminase RNA specific B2 (inactive)
dehydrogenase/reductase 7
transmembrane protein 163
homeobox A9
trinucleotide repeat containing adaptor 6B
kelch like family member 5
peroxiredoxin 3
solute carrier family 23 member 1
methionine sulfoxide reductase B1
protein S
MYC target 1
TPX2 microtubule nucleation factor
membrane metalloendopeptidase
CD3g molecule
hyaluronan and proteoglycan link protein 3
inositol-tetrakisphosphate 1-kinase
jumonji and AT-rich interaction domain containing 2
endothelin converting enzyme 1
granulin precursor
prolyl 4-hydroxylase subunit alpha 2
serglycin
maltase-glucoamylase
zinc finger protein 316
Ras like without CAAX 1
integrator complex subunit 4
phosphatidylinositol 4-kinase alpha
endoplasmic reticulum to nucleus signaling 1
potassium voltage-gated channel subfamily H member 3
ubiquitin associated protein 1
transmembrane protein 121B
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta

GRB2 associated binding protein 1
cell division cycle associated 3
claspin
fibulin 2
F-box and leucine rich repeat protein 13
nuclear pore complex interacting protein family member B3
CD82 molecule
secernin 1
C-type lectin domain family 4 member D
cyclin dependent kinase 2 interacting protein
cathepsin G
Spi-1 proto-oncogene
actin related protein 2/3 complex subunit 5
minichromosome maintenance complex component 6
ATP binding cassette subfamily C member 3
regulation of nuclear pre-mRNA domain containing 2
CCAAT enhancer binding protein alpha
actin related protein 3
rhopilin associated tail protein 1 like
zinc finger protein 721
actin related protein 2
integrin linked kinase
toll like receptor 1
inducible T cell costimulator
zinc finger protein 274
RE1 silencing transcription factor
sorting nexin 29
H2B clustered histone 12
lysozyme
phospholipase C beta 1
glycine amidinotransferase
YTH N6-methyladenosine RNA binding protein 3
DnaJ heat shock protein family (Hsp40) member C5
proteinase 3
cell division cycle 42
MDM2 proto-oncogene
fatty acyl-CoA reductase 2
laminin subunit beta 3
tubulin polymerization promoting protein
cell adhesion molecule 4
H3.3 histone B
G-patch domain containing 8
ABO, alpha 1-3-N-acetylgalactosaminyltransferase and alpha 1-3-galactosyltransferase
RUN and FYVE domain containing 3
dysbindin domain containing 1
GDNF inducible zinc finger protein 1

zinc finger FYVE-type containing 27
Rho GTPase activating protein 30
myosin VC
proteasome 20S subunit beta 3
cation channel sperm associated auxiliary subunit gamma
novel protein
beta-ureidopropionase 1
TBC1 domain family member 22A
solute carrier family 16 member 6
ubiquitin specific peptidase like 1
cyclin B1
nucleic acid binding protein 2
regenerating family member 4
inositol polyphosphate-5-phosphatase D
CAP-Gly domain containing linker protein 1
TATA-box binding protein associated factor 13
inhibin subunit beta A
nucleolar pre-rRNA processing protein NIP7
non-SMC condensin I complex subunit H
transmembrane and coiled-coil domains 3
zinc finger protein 107
serpin family B member 10
ATP binding cassette subfamily A member 13
E2F transcription factor 7
SLIT-ROBO Rho GTPase activating protein 2
N-terminal EF-hand calcium binding protein 2
Wnt family member 10A
alkaline ceramidase 1
collagen type XXVI alpha 1 chain
DNA topoisomerase II alpha
clathrin heavy chain
rabaptin, RAB GTPase binding effector protein 1
BCAR3 adaptor protein, NSP family member
senataxin
SUMO specific peptidase 5
transmembrane protein 175
amyloid beta precursor protein binding family A member 3
centromere protein M
chitinase 3 like 2
gamma-glutamyl carboxylase
SKI like proto-oncogene
oxidative stress induced growth inhibitor 1
transmembrane protein 167A
SH3 binding domain protein 5 like
follistatin like 1
SREBF chaperone

mitochondrial ribosomal protein L54
S100 calcium binding protein A4
YEATS domain containing 2
phosphatase and actin regulator 4
formyl peptide receptor 2
PRELI domain containing 1
M-phase phosphoprotein 8
kinesin family member 13B
synergin gamma
dishevelled associated activator of morphogenesis 2
guanylate cyclase activator 1B
pogo transposable element derived with ZNF domain
xylosyltransferase 1
novel transcript
zinc finger DHHC-type containing 11B
F-box and WD repeat domain containing 11
perilipin 5
phospholipid scramblase 1
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
delta 4-desaturase, sphingolipid 1
RWD domain containing 2B
kinesin family member 2C
mechanistic target of rapamycin kinase
formiminotransferase cyclodeaminase N-terminal like
zinc finger MIZ-type containing 1
small integral membrane protein 3
BTG3 associated nuclear protein
small glutamine rich tetratricopeptide repeat containing beta
chromosome 16 open reading frame 72
FAM20A golgi associated secretory pathway pseudokinase
maestro heat like repeat family member 6
CD63 molecule
gelsolin
cyclin G associated kinase
RP9 pre-mRNA splicing factor
transmembrane protein 11
microsomal glutathione S-transferase 1
mitochondrial ribosomal protein L52
general transcription factor IIA subunit 2
heat shock protein family A (Hsp70) member 1A
pro-platelet basic protein
TNF alpha induced protein 8 like 1
ras homolog family member G
Fas associated via death domain
sphingosine-1-phosphate phosphatase 2
glycerophosphodiester phosphodiesterase domain containing 5

synapsin III
carbohydrate sulfotransferase 2
kizuna centrosomal protein
afadin, adherens junction formation factor
MOK protein kinase
Rho GTPase activating protein 24
Fc fragment of IgG receptor IIb
Yip1 domain family member 1
zinc finger protein 124
cyclin E1
tumor suppressor 2, mitochondrial calcium regulator
peroxiredoxin 5
WD repeat and FYVE domain containing 3
ubiquitin protein ligase E3C
galectin 1
xenotropic and polytropic retrovirus receptor 1
acidic nuclear phosphoprotein 32 family member A
DEP domain containing 1B
E2F transcription factor 1
nuclear receptor binding factor 2
cell death inducing DFFA like effector b
homeobox containing 1
syntaxin binding protein 2
zinc finger protein 264
tubulin alpha 1a
MORN repeat containing 1
peptidyl arginine deiminase 4
HEAT repeat containing 5A
stromal interaction molecule 2
YLP motif containing 1
cyclin dependent kinase 5
coiled-coil domain containing 6
tigger transposable element derived 3
annexin A5
tousled like kinase 1
CKLF like MARVEL transmembrane domain containing 3
chromosome 8 open reading frame 88
PHD and ring finger domains 1
DIX domain containing 1
secreted frizzled related protein 2
RAB GTPase activating protein 1 like
radial spoke head component 9
abhydrolase domain containing 6, acylglycerol lipase
zinc finger protein 263
phosphate cytidylyltransferase 1, choline, alpha
MCF.2 cell line derived transforming sequence-like 2

basic leucine zipper ATF-like transcription factor
regulator of G protein signaling 7
photoreceptor disc component
serine/threonine kinase 16
nurim
TNFAIP3 interacting protein 3
zinc finger protein 611
interferon gamma
PHD finger protein 23
pre-mRNA processing factor 8
serine and arginine rich splicing factor 9
zinc finger CW-type and PWWP domain containing 1
protein kinase cAMP-dependent type II regulatory subunit beta
assembly factor for spindle microtubules
clusterin
regulator of G protein signaling 19
NK3 homeobox 1
zinc finger BED-type containing 4
synaptosome associated protein 23
C-X3-C motif chemokine receptor 1
nuclear receptor corepressor 2
niban apoptosis regulator 1
chromosome 14 open reading frame 132
anaphase promoting complex subunit 15
transmembrane and coiled-coil domain family 1
glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase
kinase non-catalytic C-lobe domain containing 1
lipin 2
neuropilin 1
endoplasmic reticulum oxidoreductase 1 alpha
olfactory receptor family 4 subfamily D member 1
KRAS proto-oncogene, GTPase
strawberry notch homolog 2
CD48 molecule
adenosine A1 receptor
cerebellin 3 precursor
exosome component 4
AT-rich interaction domain 1A
scavenger receptor class F member 1
NLR family pyrin domain containing 12
cytochrome P450 family 2 subfamily E member 1
protein interacting with cyclin A1
brain enriched myelin associated protein 1
potassium voltage-gated channel interacting protein 2
zinc finger protein 593
phosphodiesterase 3B

zinc finger DHHC-type palmitoyltransferase 18
methylsterol monooxygenase 1
oligodendrocyte myelin glycoprotein
phosphoglucomutase 1
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8
solute carrier family 51 subunit alpha
doublecortin like kinase 2
period circadian regulator 2
MTOR associated protein, eak-7 homolog
cystatin B
sequestosome 1
TatD DNase domain containing 3
zinc finger and BTB domain containing 32
zinc finger with KRAB and SCAN domains 7
nuclear pore complex interacting protein family member B4
ventricular zone expressed PH domain containing 1
rubicon autophagy regulator
VPS41 subunit of HOPS complex
cell division cycle associated 5
3-ketodihydrosphingosine reductase
PTTG1 interacting protein
novel protein
Josephin domain containing 1
argininosuccinate lyase
G protein subunit alpha 15
Ras related GTP binding C
epoxide hydrolase 2
ISL LIM homeobox 2
F-box protein 10
cytochrome P450 family 26 subfamily B member 1
cyclin dependent kinase 13
zinc finger DHHC-type palmitoyltransferase 23
calcyon neuron specific vesicular protein
platelet factor 4 variant 1
guanosine monophosphate reductase 2
vacuolar protein sorting 25 homolog
novel protein, TPD52-MRPS28 readthrough
Rab9 effector protein with kelch motifs
H1.0 linker histone
suppressor of cytokine signaling 2
complement C3b/C4b receptor 1 (Knops blood group)
mitogen-activated protein kinase 3
HCLS1 binding protein 3
signal transducer and activator of transcription 5B
transcription elongation factor A3
G-patch domain containing 1

BAF chromatin remodeling complex subunit BCL7C
family with sequence similarity 160 member A1
nuclear factor, erythroid 2 like 2
novel protein
SPG7 matrix AAA peptidase subunit, paraplegin
caspase 4
ATPase phospholipid transporting 10D (putative)
lysine acetyltransferase 8
sorting nexin 2
Rap guanine nucleotide exchange factor like 1
POP7 homolog, ribonuclease P/MRP subunit
hepsin
acyl-CoA synthetase short chain family member 3
LDL receptor related protein associated protein 1
proteasome 26S subunit, non-ATPase 12
PDZK1 interacting protein 1
indoleamine 2,3-dioxygenase 2
major histocompatibility complex, class II, DM beta
glucosidase alpha, neutral C
corticotropin releasing hormone binding protein
triggering receptor expressed on myeloid cells like 4
ArfGAP with GTPase domain, ankyrin repeat and PH domain 3
Charcot-Leyden crystal galectin
WD repeat domain 4
eukaryotic translation initiation factor 4 gamma 2
serine protease 33
piwi like RNA-mediated gene silencing 4
formin binding protein 1
Jupiter microtubule associated homolog 1
myosin light chain 9
mitogen-activated protein kinase kinase kinase 9
complement C5a receptor 1
MANSC domain containing 1
DNA polymerase beta
zinc finger protein 787
adaptor related protein complex 3 subunit sigma 2
CDC42 small effector 2
IQ motif containing GTPase activating protein 2
LY6/PLAUR domain containing 3
DNA replication and sister chromatid cohesion 1
V-set and transmembrane domain containing 1
RAB8B, member RAS oncogene family
TEF transcription factor, PAR bZIP family member
late endosomal/lysosomal adaptor, MAPK and MTOR activator 5
SLIT-ROBO Rho GTPase activating protein 2C
BAF chromatin remodeling complex subunit BCL7A

SLP adaptor and CSK interacting membrane protein
leucine rich repeat containing 4
ETS transcription factor ERG
CKLF like MARVEL transmembrane domain containing 6
dynein cytoplasmic 1 heavy chain 1
serine/threonine/tyrosine kinase 1
acyl-CoA binding domain containing 3
zyxin
zinc finger protein 586
forkhead box J3
Wnt family member 16
solute carrier family 2 member 5
CDGSH iron sulfur domain 1
RAB11A, member RAS oncogene family
ADP ribosylation factor 4
metabolism of cobalamin associated D
carboxymethylenebutenolidase homolog
myeloperoxidase
small integral membrane protein 1 (Vel blood group)
family with sequence similarity 43 member A
protein tyrosine phosphatase receptor type E
phosphorylase kinase regulatory subunit beta
elastin microfibril interfacer 2
signal peptide peptidase like 2A
centrosomal protein 55
leukocyte immunoglobulin like receptor B2
transient receptor potential cation channel subfamily V member 1
chromosome 15 open reading frame 40
diacylglycerol kinase gamma
phosphatidylethanolamine binding protein 4
kelch domain containing 8A
G protein subunit gamma 11
amyloid beta precursor protein binding protein 2
torsin family 4 member A
BCL2 family apoptosis regulator BOK
solute carrier family 16 member 14
zinc finger matrin-type 5
mitogen-activated protein kinase kinase kinase 2
maternal embryonic leucine zipper kinase
fem-1 homolog C
follistatin like 4
paxillin
IQ motif containing GTPase activating protein 3
SH3 domain binding glutamate rich protein like 2
chondroitin sulfate synthase 1
SRY-box transcription factor 8

ASH1 like histone lysine methyltransferase
RAS like proto-oncogene B
potassium voltage-gated channel subfamily E regulatory subunit 3
amine oxidase copper containing 3
GEN1 Holliday junction 5' flap endonuclease
piggyBac transposable element derived 2
WD repeat domain 86
adhesion molecule with Ig like domain 2
MMP24 opposite strand
telomerase associated protein 1
UBX domain protein 2B
acyloxyacyl hydrolase
dynamin 3
endo-beta-N-acetylglucosaminidase
DNA polymerase lambda
ribonuclease A family member k6
post-glycosylphosphatidylinositol attachment to proteins 6
TNF superfamily member 15
cyclin dependent kinase inhibitor 2D
CD58 molecule
ubiquitin specific peptidase 46
TNF receptor superfamily member 8
seizure related 6 homolog like
complement factor H
kelch repeat and BTB domain containing 4
IQ motif containing GTPase activating protein 1
novel protein
growth arrest and DNA damage inducible alpha
Rho guanine nucleotide exchange factor 7
nuclear pore complex interacting protein family member B5
ADP ribosylation factor like GTPase 8B
UV stimulated scaffold protein A
general transcription factor IIIC subunit 2
mast cell immunoglobulin like receptor 1
oxysterol binding protein like 8
kinesin family member 27
spindle and kinetochore associated complex subunit 1
proliferating cell nuclear antigen
putative homeodomain transcription factor 2
spermatogenesis associated serine rich 2
contactin associated protein 1
TATA-box binding protein associated factor 8
ATPase 13A3
integrin subunit alpha 2b
proliferation and apoptosis adaptor protein 15
Rho GTPase activating protein 18

microtubule associated protein RP/EB family member 1
G protein-coupled receptor 55
solute carrier family 29 member 1 (Augustine blood group)
free fatty acid receptor 2
novel protein
F-box protein 42
cyclin G1
praja ring finger ubiquitin ligase 2
CDC42 binding protein kinase beta
transportin 1
RecQ like helicase 4
peroxisomal testis enriched protein 1
zinc finger DHHC-type containing 24
polynucleotide kinase 3'-phosphatase
cyclin A2
adaptor related protein complex 1 subunit sigma 1
phospholipase C delta 3
thyroid hormone receptor beta
charged multivesicular body protein 4B
leukocyte immunoglobulin like receptor B3
KAT8 regulatory NSL complex subunit 1
anaphase promoting complex subunit 7
membrane bound O-acyltransferase domain containing 2
CBFA2/RUNX1 partner transcriptional co-repressor 2
C-C motif chemokine receptor 10
apolipoprotein B mRNA editing enzyme catalytic subunit 3A
zinc finger protein 169
dehydrogenase/reductase 9
novel twinfilin, actin-binding protein, homolog 2 (Drosophila) (TWF2) and toll-like rec
complement C1s
CD9 molecule
utrophin
abhydrolase domain containing 3, phospholipase
ferritin heavy chain 1
transcription factor 19
dermatan sulfate epimerase like
general transcription factor Iii
ubiquitination factor E4B
centrosomal protein 104
semenogelin 1
lysosomal protein transmembrane 4 alpha
calcium voltage-gated channel auxiliary subunit beta 1
RHO family interacting cell polarization regulator 2
platelet factor 4
H3.3 histone A
Ras related GTP binding D

zinc finger protein 467
phosphodiesterase 3A
novel protein
coiled-coil domain containing 9B
NPC intracellular cholesterol transporter 1
noggin
disco interacting protein 2 homolog B
vimentin
FKBP prolyl isomerase 1C
base methyltransferase of 25S rRNA 2 homolog
dedicator of cytokinesis 4
zinc finger CCCH-type containing 18
dedicator of cytokinesis 7
ICOS ligand
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2
2'-deoxynucleoside 5'-phosphate N-hydrolase 1
pleckstrin homology and coiled-coil domain containing D1
zinc finger AN1-type containing 5
perilipin 2
nuclear receptor coactivator 3
ankyrin and armadillo repeat containing
GLI family zinc finger 1
ATPase phospholipid transporting 9A (putative)
RAD54 like
BUB1 mitotic checkpoint serine/threonine kinase B
prostaglandin F receptor
X-prolyl aminopeptidase 3
transmembrane protein 33
radial spoke head 3
mitochondrial fission factor
RAP2B, member of RAS oncogene family
triggering receptor expressed on myeloid cells like 1
SOS Ras/Rho guanine nucleotide exchange factor 2
PDCD6-AHRR readthrough (NMD candidate)
ubiquitin associated and SH3 domain containing A
triple QxxK/R motif containing
glycolipid transfer protein
alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase B
LY6/PLAUR domain containing 2
MYB proto-oncogene, transcription factor
neural EGFL like 2
DNA polymerase eta
neuregulin 1
RAB5A, member RAS oncogene family
glycoprotein IX platelet
transmembrane protein 183A

CKLF like MARVEL transmembrane domain containing 7
zinc finger protein 160
DEAF1 transcription factor
cathepsin H
T-box transcription factor 19
guanylate cyclase 2D, retinal
RAR related orphan receptor C
olfactomedin 4
matrix metalloproteinase 8
complement C3
calpain 13
INSC spindle orientation adaptor protein
lipocalin 2
defensin alpha 3
lactotransferrin
STEAP family member 1B
CEA cell adhesion molecule 8
oxidized low density lipoprotein receptor 1
secretory carrier membrane protein 5
toll like receptor 5
CEA cell adhesion molecule 6
bactericidal permeability increasing protein
tetraspanin 13
defensin alpha 4
cathelicidin antimicrobial peptide
elastase, neutrophil expressed
collagen type XVII alpha 1 chain
coiled-coil domain containing 50
TNF receptor superfamily member 21
polypeptide N-acetylgalactosaminyltransferase 14
cysteine rich secretory protein 3
C-type lectin domain family 4 member F
leukocyte immunoglobulin like receptor A4
leukocyte receptor tyrosine kinase
ATP binding cassette subfamily A member 13
transcription factor 4
EPH receptor A2
neurotensin receptor 1
Pim-3 proto-oncogene, serine/threonine kinase
RELB proto-oncogene, NF-kB subunit
reticulon 2
U6 snRNA biogenesis phosphodiesterase 1
sialic acid binding Ig like lectin 6
chitinase 1
BAF chromatin remodeling complex subunit BCL11A
kringle containing transmembrane protein 1

Spi-B transcription factor
protein kinase C and casein kinase substrate in neurons 1
cysteine rich secretory protein 2
CD177 molecule
CD1c molecule
potassium voltage-gated channel subfamily H member 3
interleukin 17 receptor E
serpin family F member 1
proteinase 3
deoxyribonuclease 1 like 3
neuropilin 1
myeloperoxidase
cut like homeobox 2
nuclear factor kappa B subunit 2
cysteine rich transmembrane module containing 1
phospholipase D family member 4
procollagen C-endopeptidase enhancer 2
mannose receptor C-type 1
B cell linker
cathepsin G
ETS transcription factor ERG
Fc receptor like A
aldehyde dehydrogenase 1 family member A2
notch receptor 4
resistin
ST3 beta-galactoside alpha-2,3-sialyltransferase 2
regulator of hemoglobinization and erythroid cell expansion
protein tyrosine phosphatase receptor type S
secretory leukocyte peptidase inhibitor
interferon regulatory factor 8
alkaline phosphatase, biomineralization associated
myristoylated alanine rich protein kinase C substrate
GDNF family receptor alpha 2
N-ribosyldihydronicotinamide:quinone reductase 2
ribonuclease A family member 3
solute carrier family 12 member 3
adhesion G protein-coupled receptor E2
copine 7
Fc receptor like 5
Janus kinase 3
azurocidin 1
kazrin, periplakin interacting protein
nuclear factor kappa B subunit 1
transcobalamin 1
TNFAIP3 interacting protein 1
integrin subunit beta 4

annexin A3
tectonin beta-propeller repeat containing 2
serine incorporator 2
lamin B1
major histocompatibility complex, class II, DQ alpha 1
solute carrier family 4 member 10
C-X-C motif chemokine ligand 9
G protein-coupled receptor 84
phospholipase B1
serpin family B member 10
calcium/calmodulin dependent protein kinase kinase 2
TNF receptor superfamily member 13B
ATPase secretory pathway Ca²⁺ transporting 2
cyclin and CBS domain divalent metal cation transport mediator 4
HtrA serine peptidase 3
sodium voltage-gated channel beta subunit 1
sarcospan
solute carrier family 26 member 8
prokineticin 2
haptoglobin
tetraspanin 3
B cell scaffold protein with ankyrin repeats 1
ArfGAP with SH3 domain, ankyrin repeat and PH domain 1
angiotensin II receptor associated protein
calcium voltage-gated channel subunit alpha1 E
GRAM domain containing 1A
solute carrier family 22 member 4
small integral membrane protein 1 (Vel blood group)
ADP ribosylation factor GTPase activating protein 3
cAMP responsive element binding protein 5
adrenomedullin
SH3KBP1 binding protein 1
folate receptor gamma
myocyte enhancer factor 2C
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
carbonic anhydrase 4
peptidoglycan recognition protein 1
ADAM metallopeptidase domain 8
class II major histocompatibility complex transactivator
multiple C2 and transmembrane domain containing 1
HLF transcription factor, PAR bZIP family member
syndecan 2
ral guanine nucleotide dissociation stimulator like 4
SRSF protein kinase 1
MAX dimerization protein 3
desmocollin 2

abhydrolase domain containing 15
T cell-interacting, activating receptor on myeloid cells 1
myosin X
C-type lectin like 1
cytohesin 3
potassium two pore domain channel subfamily K member 17
solute carrier family 25 member 37
target of myb1 membrane trafficking protein
PHD finger protein 21A
protein tyrosine phosphatase non-receptor type 13
lysosomal associated membrane protein family member 5
phosphatase domain containing paladin 1
plexin C1
inhibin subunit beta B
acetyl-CoA acyltransferase 1
ADAM metalloproteinase domain 12
niban apoptosis regulator 3
5-oxoprolinase, ATP-hydrolysing
solute carrier family 2 member 3
inhibin subunit beta A
flotillin 1
glycogen phosphorylase L
ring finger protein 207
ring finger protein 10
cytokine dependent hematopoietic cell linker
zinc finger protein 438
mitogen-activated protein kinase 14
nuclear prelamin A recognition factor
flotillin 2
proline rich transmembrane protein 4
kelch domain containing 8A
HCK proto-oncogene, Src family tyrosine kinase
DENN domain containing 5B
CEA cell adhesion molecule 3
myosin VIIB
hydrogen voltage gated channel 1
adaptor related protein complex 3 subunit beta 2
cytochrome P450 family 26 subfamily B member 1
tyrosyl-DNA phosphodiesterase 2
insulin like 3
deltex E3 ubiquitin ligase 4
dehydrogenase/reductase 13
semaphorin 4A
aspartate beta-hydroxylase
protein kinase C delta
BCL6 transcription repressor

maltase-glucoamylase 2 (putative)
KIAA0825
formyl peptide receptor 3
mitogen-activated protein kinase kinase kinase 20
hexokinase 3
heparan sulfate-glucosamine 3-sulfotransferase 5
protein arginine methyltransferase 5
solute carrier family 4 member 3
sodium voltage-gated channel alpha subunit 3
endothelin converting enzyme 1
acidic nuclear phosphoprotein 32 family member A
zinc finger protein 608
3-ketodihydrosphingosine reductase
chromosome 8 open reading frame 88
major histocompatibility complex, class II, DQ beta 1
adenosine monophosphate deaminase 3
beta-1,3-galactosyltransferase 2
pleckstrin 2
zinc finger DHHC-type palmitoyltransferase 19
ADAM metallopeptidase with thrombospondin type 1 motif 2
oxysterol binding protein like 10
collagen type V alpha 3 chain
solute carrier family 41 member 2
docking protein 3
CD72 molecule
LIM domain kinase 2
TNF receptor associated factor 4
oxidative stress responsive kinase 1
signal induced proliferation associated 1 like 3
interferon gamma receptor 2
cordon-bleu WH2 repeat protein like 1
spectrin beta, erythrocytic
cystatin F
TNF alpha induced protein 6
interleukin 1 beta
carbonic anhydrase 1
S100 calcium binding protein A12
glutaminyI-tRNA amidotransferase subunit QRSL1
glycophorin B (MNS blood group)
Fc fragment of IgA receptor
collagen type XXVI alpha 1 chain
mitogen-activated protein kinase kinase 3
dysferlin
C-type lectin domain containing 9A
sulfotransferase family 1B member 1
transmembrane protein 45B

coagulation factor V
interleukin 4 receptor
major histocompatibility complex, class II, DO beta
S100 calcium binding protein A9
glutamate ionotropic receptor NMDA type subunit associated protein 1
collagen type IV alpha 3 chain
mast cell expressed membrane protein 1
serine palmitoyltransferase small subunit B
alpha hemoglobin stabilizing protein
contactin associated protein 1
fermitin family member 3
major histocompatibility complex, class II, DO alpha
guanosine monophosphate reductase
AF4/FMR2 family member 3
docking protein 4
acyl-CoA synthetase long chain family member 1
steroid receptor RNA activator 1
CD22 molecule
acyl-CoA synthetase short chain family member 3
leukocyte immunoglobulin like receptor A6
storkhead box 2
chromosome 9 open reading frame 78
phospholipid phosphatase 5
plasminogen activator, urokinase
glutaredoxin 5
family with sequence similarity 200 member B
perilipin 5
oligodendrocyte myelin glycoprotein
small integral membrane protein 14
complement C3a receptor 1
membrane bound O-acyltransferase domain containing 2
solute carrier family 9 member A1
carboxymethylenebutenolidase homolog
family with sequence similarity 210 member B
multiple C2 and transmembrane domain containing 2
leucine rich repeat containing 36
ETS proto-oncogene 2, transcription factor
G protein subunit gamma 7
metal regulatory transcription factor 1
DNA damage regulated autophagy modulator 1
myelin protein zero like 1
olfactory receptor family 2 subfamily W member 3
ST3 beta-galactoside alpha-2,3-sialyltransferase 4
potassium voltage-gated channel subfamily Q member 4
peptidase inhibitor 3
tubulin beta 2A class IIa

interleukin 23 receptor
SRY-box transcription factor 5
MAX interactor 1, dimerization protein
solute carrier family 25 member 44
tudor domain containing 9
heparanase
NEDD4 binding protein 1
neutrophil cytosolic factor 4
transmembrane O-mannosyltransferase targeting cadherins 1
BLK proto-oncogene, Src family tyrosine kinase
dematin actin binding protein
selenium binding protein 1
Kell metallo-endopeptidase (Kell blood group)
hydroxycarboxylic acid receptor 3
synaptopodin
glycosyltransferase 1 domain containing 1
F-box and leucine rich repeat protein 5
tripartite motif containing 58
regulating synaptic membrane exocytosis 3
von Willebrand factor C and EGF domains
aquaporin 9
histamine receptor H2
nuclear factor, erythroid 2
brain abundant membrane attached signal protein 1
glucosylceramidase beta
lin-7 homolog A, crumbs cell polarity complex component
Y-box binding protein 3
NFKB inhibitor alpha
glycoprotein M6A
BCL3 transcription coactivator
ubiquitin associated protein 1
serpin family A member 1
intercellular adhesion molecule 1
zinc finger CCCH-type containing 12A
metaxin 1
niban apoptosis regulator 1
RAB6B, member RAS oncogene family
leukocyte immunoglobulin like receptor A5
pentraxin 3
NPR3 like, GATOR1 complex subunit
nuclear factor, interleukin 3 regulated
kinesin family member 5C
choline phosphotransferase 1
CDC42 effector protein 3
atypical chemokine receptor 1 (Duffy blood group)
coronin 2B

M-phase phosphoprotein 8
suppressor of glucose, autophagy associated 1
STE20 related adaptor beta
C-C motif chemokine receptor 4
hemoglobin subunit theta 1
secernin 1
transmembrane protein 185B
chromosome 1 open reading frame 116
protein tyrosine phosphatase receptor type K
solute carrier family 2 member 5
perilipin 4
tubulin beta 6 class V
solute carrier family 4 member 1 (Diego blood group)
synuclein alpha
DDB1 and CUL4 associated factor 12
Rh associated glycoprotein
transmembrane protein 158 (gene/pseudogene)
membrane spanning 4-domains A1
BCL2 like 1
ribonuclease A family member 2
E2F transcription factor 5
discs large MAGUK scaffold protein 5
tripartite motif containing 10
hydroxyacylglutathione hydrolase
prolyl 4-hydroxylase subunit alpha 2
adiponectin receptor 1
RUN domain containing 3A
translocator protein
cyclin dependent kinase inhibitor 2D
RAB10, member RAS oncogene family
arginase 1
UBX domain protein 6
cytochrome b561
peptidyl arginine deiminase 2
transmembrane and coiled-coil domains 3
ankyrin repeat domain 9
C-type lectin domain containing 10A
Fc fragment of IgE receptor Ig
Ral GEF with PH domain and SH3 binding motif 2
TNF receptor associated factor 5
glutaminy-peptide cyclotransferase
JunB proto-oncogene, AP-1 transcription factor subunit
basic leucine zipper ATF-like transcription factor 3
glycogenin 1
MYD88 innate immune signal transduction adaptor
solute carrier family 38 member 11

biliverdin reductase B
spermatogenesis and centriole associated 1
galectin 3
CD79b molecule
tensin 1
interleukin 1 receptor antagonist
F-box and leucine rich repeat protein 13
kinesin family member 3C
collagen type IV alpha 4 chain
novel protein, MINDY4 and AQP1 readthrough
solute carrier family 25 member 39
rhopilin associated tail protein 1 like
ubiquitin conjugating enzyme E2 D1
insulin like growth factor 2 mRNA binding protein 2
prolyl 3-hydroxylase 2
thioredoxin reductase 1
F-box protein 7
fibrillin 1
Tctex1 domain containing 1
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3
Fc fragment of IgG receptor IIa
BCL2 interacting protein 3 like
TNF receptor superfamily member 11a
suppression of tumorigenicity 14
signal transducer and activator of transcription 5B
killer cell lectin like receptor B1
PDZ domain containing 8
RNA binding motif protein 38
ATPase phospholipid transporting 10D (putative)
papilin, proteoglycan like sulfated glycoprotein
family with sequence similarity 160 member A1
secreted frizzled related protein 2
vanin 1
solute carrier family 2 member 14
DNA polymerase lambda
ribose 5-phosphate isomerase A
spectrin alpha, erythrocytic 1
small integral membrane protein 24
tropomodulin 1
N-acetylneuraminate pyruvate lyase
glycophorin C (Gerbich blood group)
EBF transcription factor 1
ariadne RBR E3 ubiquitin protein ligase 2
transglutaminase 2
erythrocyte membrane protein band 4.2
protein phosphatase 1 regulatory subunit 3B

Kruppel like factor 1
ankyrin 1
Fc receptor like 2
heparin binding growth factor
major histocompatibility complex, class II, DQ beta 2
bone marrow stromal cell antigen 1
THO complex 5
sialic acid binding Ig like lectin 9
DENN domain containing 5A
R3H domain containing 4
MAF bZIP transcription factor G
matrix metalloproteinase 9
seizure related 6 homolog like
NLR family apoptosis inhibitory protein
golgi associated, gamma adaptin ear containing, ARF binding protein 2
serpin family B member 1
pyruvate dehydrogenase kinase 4
RUN and FYVE domain containing 3
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1A
nardilysin convertase
ubiquitin specific peptidase like 1
transmembrane protein 92
Rho guanine nucleotide exchange factor 12
RAD23 homolog B, nucleotide excision repair protein
terminal nucleotidyltransferase 5C
integrin subunit alpha M
TBC1 domain family member 9
G1 to S phase transition 1
SH3 domain containing GRB2 like, endophilin B1
shisa family member 7
orosomucoid 1
N-terminal EF-hand calcium binding protein 1
oleoyl-ACP hydrolase
UTP6 small subunit processome component
beta-1,3-N-acetylgalactosaminyltransferase 2
transmembrane and coiled-coil domain family 2
sialic acid binding Ig like lectin 5
BCL6 antisense 1
SH3 domain binding protein 4
SPARC related modular calcium binding 1
cytoskeleton associated protein 4
potassium inwardly rectifying channel subfamily J member 15
solute carrier family 30 member 5
complement C1r subcomponent like
ferrochelatase
cannabinoid receptor 2

pro-apoptotic WT1 regulator
rabaptin, RAB GTPase binding effector protein 2
SEC22 homolog B, vesicle trafficking protein (gene/pseudogene)
opioid related nociceptin receptor 1
nuclear factor I X
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7
F-box protein 9
alanyl aminopeptidase, membrane
Rab interacting lysosomal protein
adenosine deaminase RNA specific B2 (inactive)
interferon induced protein with tetratricopeptide repeats 1B
maestro heat like repeat family member 6
neutrophil cytosolic factor 2
G protein-coupled receptor 146
DnaJ heat shock protein family (Hsp40) member C3
peroxiredoxin 5
galactokinase 1
PTEN induced kinase 1
NFKB inhibitor zeta
peroxiredoxin 6
siah E3 ubiquitin protein ligase 2
major histocompatibility complex, class II, DP beta 1
S100 calcium binding protein A8
bisphosphoglycerate mutase
CXXC finger protein 5
Yip1 domain family member 1
cytoglobin
major facilitator superfamily domain containing 2B
cortactin binding protein 2
kinesin light chain 3
ADP ribosylation factor like GTPase 11
NLR family member X1
hemoglobin subunit beta
family with sequence similarity 81 member A
cell division cycle 34, ubiquitin conjugating enzyme
FERM, ARH/RhoGEF and pleckstrin domain protein 2
solute carrier family 9 member A8
semaphorin 3C
SID1 transmembrane family member 2
TPD52 like 2
N-acetyltransferase domain containing 1
coactivator associated arginine methyltransferase 1
paired box 5
dimethylarginine dimethylaminohydrolase 2
osteoclast associated Ig-like receptor
aquaporin 1 (Colton blood group)

syndecan 4
DnaJ heat shock protein family (Hsp40) member C5
cathepsin E
prostate transmembrane protein, androgen induced 1
LIM domains containing 1
POC1 centriolar protein B
small EDRK-rich factor 2
KIAA0319
interleukin 7
family with sequence similarity 126 member B
cadherin EGF LAG seven-pass G-type receptor 1
oncostatin M
BCL2 like 15
protein kinase C and casein kinase substrate in neurons 2
optineurin
cytochrome b5 reductase 1
family with sequence similarity 104 member A
tescalcin
dachshund family transcription factor 1
BAG cochaperone 1
ring finger protein 11
matrix metalloproteinase 19
potassium voltage-gated channel subfamily H member 2
SH3GL interacting endocytic adaptor 1
transgelin
BH3 interacting domain death agonist
methyltransferase like 9
RAS guanyl releasing protein 4
acetylcholinesterase (Cartwright blood group)
T cell leukemia/lymphoma 1A
growth factor receptor bound protein 10
prolylcarboxypeptidase
ATP binding cassette subfamily B member 4
activator of transcription and developmental regulator AUTS2
novel protein
PDZK1 interacting protein 1
ORAI calcium release-activated calcium modulator 2
zinc finger and BTB domain containing 7B
diacylglycerol O-acyltransferase 2
glycerol-3-phosphate acyltransferase 3
family with sequence similarity 53 member C
MCF.2 cell line derived transforming sequence-like 2
makorin ring finger protein 1
retinoid X receptor alpha
WD repeat and FYVE domain containing 3
collagen like tail subunit of asymmetric acetylcholinesterase

ubiquitin B
zinc finger protein 641
FGR proto-oncogene, Src family tyrosine kinase
TATA-box binding protein associated factor 15
hepsin
sestrin 3
latent transforming growth factor beta binding protein 2
arachidonate 5-lipoxygenase
leucine rich single-pass membrane protein 1
leukotriene A4 hydrolase
major histocompatibility complex, class II, DM beta
solute carrier family 66 member 2
transcription factor Dp-1
BORCS7-ASMT readthrough (NMD candidate)
Spi-1 proto-oncogene
basal body orientation factor 1
activating signal cointegrator 1 complex subunit 2
CCAAT enhancer binding protein epsilon
S100 calcium binding protein A11
5'-3' exoribonuclease 2
integrin subunit alpha 2b
desmoplakin
monooxygenase DBH like 1
heparin binding EGF like growth factor
cell division cycle 25C
pleckstrin homology and RhoGEF domain containing G7
vasodilator stimulated phosphoprotein
speedy/RINGO cell cycle regulator family member A
vav guanine nucleotide exchange factor 2
zinc finger and SCAN domain containing 9
Y-box binding protein 1
mannose receptor C type 2
small integral membrane protein 35
RCSD domain containing 1
ventricular zone expressed PH domain containing 1
solute carrier family 35 member F3
nicotinamide phosphoribosyltransferase
PBX homeobox 1
G protein-coupled receptor 27
DNA damage induced apoptosis suppressor
Src homology 2 domain containing transforming protein D
hedgehog acyltransferase
ribosomal RNA processing 12 homolog
guanylate kinase 1
short transmembrane mitochondrial protein 1
calcium voltage-gated channel auxiliary subunit beta 4

zinc finger protein 469
A-kinase anchoring protein 9
strawberry notch homolog 2
RAP1 GTPase activating protein
Rho GTPase activating protein 17
cytohesin 4
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 4
EMI domain containing 1
adipocyte plasma membrane associated protein
solute carrier family 16 member 3
sprouty related EVH1 domain containing 1
syndecan binding protein
ZFP36 ring finger protein like 1
aldehyde dehydrogenase 2 family member
patatin like phospholipase domain containing 1
hydroxymethylbilane synthase
inosine monophosphate dehydrogenase 1
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta
RAN binding protein 10
SRR1 domain containing
BEN domain containing 7
ring finger protein 24
signal regulatory protein alpha
ADAM metallopeptidase domain 9
apoptosis associated tyrosine kinase
PDZ and LIM domain 7
chromosome 11 open reading frame 80
immunoglobulin mu DNA binding protein 2
CD180 molecule
hydroxycarboxylic acid receptor 2
vanin 2
TAL bHLH transcription factor 1, erythroid differentiation factor
5'-aminolevulinate synthase 1
5'-nucleotidase domain containing 4
S100 calcium binding protein A6
perilipin 3
zinc finger protein 532
dual specificity phosphatase 13
KIT proto-oncogene, receptor tyrosine kinase
cyclin L2
ADAM metallopeptidase domain 28
rabaptin, RAB GTPase binding effector protein 1
B and T lymphocyte associated
cytochrome P450 family 46 subfamily A member 1
pleckstrin homology domain containing A5
hippocalcin like 1

Pim-1 proto-oncogene, serine/threonine kinase
family with sequence similarity 214 member B
RAS like proto-oncogene B
keratin 1
complement C3b/C4b receptor 1 like
myosin binding protein C3
potassium two pore domain channel subfamily K member 10
paxillin
calcium voltage-gated channel auxiliary subunit beta 1
adhesion G protein-coupled receptor G3
FKBP prolyl isomerase 8
dolichyl-phosphate mannosyltransferase subunit 2, regulatory
alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase
STEAP4 metalloreductase
solute carrier family 37 member 3
dystonin
TNF receptor superfamily member 13C
suppressor of cytokine signaling 3
reticulophagy regulator family member 2
fission, mitochondrial 1
RAB3A interacting protein like 1
HPS1 biogenesis of lysosomal organelles complex 3 subunit 1
complement factor H
switching B cell complex subunit SWAP70
transmembrane protein 63B
NOP2/Sun RNA methyltransferase family member 7
brain protein I3
major histocompatibility complex, class II, DP alpha 1
granule associated Rac and RHOG effector 1
tumor protein p53 inducible protein 11
small vasohibin binding protein
zinc finger protein 319
arrestin beta 2
histone deacetylase 9
oxysterol binding protein 2
PTTG1 interacting protein
lymphatic vessel endothelial hyaluronan receptor 1
family with sequence similarity 151 member B
zinc finger protein 701
laminin subunit alpha 5
hemoglobin subunit mu
nuclear factor I A
mal, T cell differentiation protein
endoplasmic reticulum oxidoreductase 1 alpha
tropomyosin 1
growth arrest and DNA damage inducible alpha

peptidase inhibitor 16
transmembrane protein 121B
reticulon 3
zinc finger protein 467
transmembrane protein 183A
ATPase Na⁺/K⁺ transporting subunit beta 2
FRAT regulator of WNT signaling pathway 2
X-C motif chemokine receptor 1
follistatin like 1
ubiquitin specific peptidase 46
parathymosin
CD82 molecule
RAB32, member RAS oncogene family
chemerin chemokine-like receptor 1
transmembrane channel like 5
phosphatase and actin regulator 1
late endosomal/lysosomal adaptor, MAPK and MTOR activator 1
zinc finger DHHC-type palmitoyltransferase 2
semenogelin 1
phosphatase and actin regulator 4
potassium voltage-gated channel subfamily H member 8
ankyrin repeat and ubiquitin domain containing 1
C-type lectin domain containing 17A
SUMO specific peptidase 5
yippee like 4
lysophosphatidylcholine acyltransferase 3
killer cell lectin like receptor C1
pleckstrin
prostaglandin I2 receptor
membrane associated ring-CH-type finger 8
potassium inwardly rectifying channel subfamily J member 2
novel twinfilin, actin-binding protein, homolog 2 (Drosophila) (TWF2) and toll-like rec
gamma-aminobutyric acid type A receptor subunit rho2
SEL1L family member 3
KRAS proto-oncogene, GTPase
LARGE xylosyl- and glucuronyltransferase 1
AXL receptor tyrosine kinase
WD repeat domain, phosphoinositide interacting 1
CD19 molecule
receptor accessory protein 3
SEC14 like lipid binding 4
zinc finger protein 850
spermatid perinuclear RNA binding protein
WD repeat domain 77
methyltransferase like 8
family with sequence similarity 117 member B

BCL2 like 11
scavenger receptor family member expressed on T cells 1
tetraspanin 5
EF-hand domain family member D2
N-terminal EF-hand calcium binding protein 2
regulator of G protein signaling 10
ubiquitin domain containing 1
signal transducing adaptor family member 1
stearoyl-CoA desaturase
BAG cochaperone 6
tubulin polyglutamylase complex subunit 2
thromboxane A2 receptor
microtubule associated monooxygenase, calponin and LIM domain containing 2
leukocyte immunoglobulin like receptor B3
solute carrier family 2 member 1
hemogen
syntaxin binding protein 2
LYL1 basic helix-loop-helix family member
zinc finger protein 35
solute carrier family 12 member 9
carnitine palmitoyltransferase 1A
TNF alpha induced protein 3
interleukin 1 receptor associated kinase 3
RAB24, member RAS oncogene family
myosin light chain 9
eukaryotic translation initiation factor 2 alpha kinase 1
RAB27A, member RAS oncogene family
vitamin D receptor
MANSC domain containing 1
kinesin family member 1B
butyrophilin like 9
GEN1 Holliday junction 5' flap endonuclease
DnaJ heat shock protein family (Hsp40) member A4
CAP-Gly domain containing linker protein 1
basal cell adhesion molecule (Lutheran blood group)
chromosome 16 open reading frame 72
RAD23 homolog A, nucleotide excision repair protein
pleckstrin homology and coiled-coil domain containing D1
ninjurin 2
translocator protein 2
novel protein
dystrotelin
zinc finger protein 791
myosin IE
cyclin dependent kinase inhibitor 2C
mitogen-activated protein kinase kinase kinase 2

nucleoporin 160
glycine C-acetyltransferase
chondroadherin
glyceraldehyde-3-phosphate dehydrogenase
calpain 5
serine/threonine kinase 16
pleckstrin homology and RhoGEF domain containing G1
nibrin
interleukin 17 receptor A
phosphatidylglycerophosphate synthase 1
grancalcin
cytochrome P450 family 2 subfamily U member 1
ornithine decarboxylase 1
eukaryotic translation initiation factor 1B
catenin alpha like 1
patatin like phospholipase domain containing 2
elongin B
C9orf72-SMCR8 complex subunit
proprotein convertase subtilisin/kexin type 6
G protein-coupled receptor kinase 6
NLR family CARD domain containing 4
growth arrest specific 6
charged multivesicular body protein 4B
EMAP like 4
actinin alpha 1
ring finger protein 187
hook microtubule tethering protein 2
G protein-coupled receptor 162
EH domain binding protein 1 like 1
UV radiation resistance associated
PRKR interacting protein 1
RAB31, member RAS oncogene family
ERCC excision repair 3, TFIIH core complex helicase subunit
E2F transcription factor 2
fumarylacetoacetate hydrolase
sorting nexin family member 30
espin
Rh blood group CcEe antigens
C-C motif chemokine ligand 23
WD and tetratricopeptide repeats 1
furin, paired basic amino acid cleaving enzyme
coiled-coil and C2 domain containing 2B
PEAK family member 3
synapsin II
BTB domain containing 11
zinc finger protein 609

ATPase Na⁺/K⁺ transporting subunit beta 1
double C2 domain beta
mitogen-activated protein kinase 3
transmembrane serine protease 9
ISL LIM homeobox 2
ring finger protein 123
SLP adaptor and CSK interacting membrane protein
glycerophosphodiester phosphodiesterase 1
pleckstrin homology domain containing M3
FKBP prolyl isomerase 9
proteasome inhibitor subunit 1
glycophorin A (MNS blood group)
kynurenine 3-monooxygenase
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1N (putative)
transmembrane protein 156
SH3 binding domain protein 5 like
POU class 2 homeobox associating factor 1
phospholipase B domain containing 1
coiled-coil serine rich protein 1
whirlin
VAMP associated protein A
ATP binding cassette subfamily C member 3
aldehyde dehydrogenase 5 family member A1
NIMA related kinase 10
vimentin
base methyltransferase of 25S rRNA 2 homolog
IQ motif containing GTPase activating protein 3
guanylyl cyclase domain containing 1
tectonic family member 1
NLR family pyrin domain containing 12
interleukin 12 receptor subunit beta 2
GRAM domain containing 1C
toll like receptor 1
cadherin like and PC-esterase domain containing 1
protein tyrosine phosphatase receptor type F
DnaJ heat shock protein family (Hsp40) member B2
nei like DNA glycosylase 1
anoctamin 10
solute carrier family 22 member 14
maltase-glucoamylase
spliceosome associated factor 3, U4/U6 recycling protein
zinc finger DHHC-type palmitoyltransferase 18
mucolipin 1
DNA polymerase beta
Rho guanine nucleotide exchange factor 17
chromosome 19 open reading frame 38

dedicator of cytokinesis 4
Fc fragment of IgE receptor II
chloride intracellular channel 1
integrin subunit beta 2
GLI pathogenesis related 2
KN motif and ankyrin repeat domains 2
acyl-CoA binding domain containing 3
MAPK interacting serine/threonine kinase 1
transport and golgi organization 2 homolog
caspase recruitment domain family member 6
toll interacting protein
zona pellucida glycoprotein 3
myosin light chain 4
YY1 associated protein 1
methionine sulfoxide reductase B3
EH domain containing 1
EMAP like 6
ring finger protein 182
zinc finger protein 814
senataxin
dehydrogenase/reductase 7
SRY-box transcription factor 6
follistatin like 4
cryptochrome circadian regulator 1
SHANK associated RH domain interactor
mitogen-activated protein kinase kinase kinase kinase 4
H1.0 linker histone
formyl peptide receptor 1
dishevelled binding antagonist of beta catenin 1
alpha kinase 1
MAF1 homolog, negative regulator of RNA polymerase III
LY6/PLAUR domain containing 6B
1-acylglycerol-3-phosphate O-acyltransferase 2
oocyte secreted protein family member 3
UBX domain protein 2B
ATPase phospholipid transporting 9A (putative)
LDL receptor related protein 5
zyxin
F-box protein 28
Wnt family member 16
twinfilin actin binding protein 2
synergism gamma
FKBP prolyl isomerase 1B
hydroxysteroid 11-beta dehydrogenase 1
C-type lectin domain containing 5A
growth differentiation factor 7

sterol regulatory element binding transcription factor 1
angiopoietin 1
WD repeat domain 26
sphingomyelin phosphodiesterase acid like 3A
NEDD4 like E3 ubiquitin protein ligase
novel protein
zinc finger DHHC-type palmitoyltransferase 14
VOPP1 WW domain binding protein
ubiquitin like with PHD and ring finger domains 2
regulatory factor X2
fucosyltransferase 7
epidermal growth factor
lysyl oxidase like 1
argonaute RISC catalytic component 3
CASC3 exon junction complex subunit
docking protein 7
aquaporin 10
transmembrane protein 163
RAB5A, member RAS oncogene family
lipoxygenase homology domains 1
butyrophilin subfamily 2 member A2
transmembrane protein 86B
adaptor related protein complex 2 subunit alpha 1
adenosine A1 receptor
recombination signal binding protein for immunoglobulin kappa J region
ubiquitin protein ligase E3C
kelch like family member 2
NOP10 ribonucleoprotein
Rap guanine nucleotide exchange factor like 1
G protein subunit beta 2
dehydrogenase/reductase 9
signal induced proliferation associated 1 like 2
NPC intracellular cholesterol transporter 1
adaptor related protein complex 3 subunit sigma 2
uronyl 2-sulfotransferase
solute carrier family 51 subunit alpha
ER membrane protein complex subunit 3
membrane associated ring-CH-type finger 2
LDL receptor related protein associated protein 1
protein tyrosine phosphatase receptor type E
solute carrier family 23 member 2
prepronociceptin
anillin actin binding protein
POU class 5 homeobox 1
heat shock protein family A (Hsp70) member 1A
CTD phosphatase subunit 1

Fas associated via death domain
zinc finger protein 318
asialoglycoprotein receptor 2
GLIS family zinc finger 2
TSC22 domain family member 4
transmembrane protein 19
tumor protein D52
SOS Ras/Rho guanine nucleotide exchange factor 2
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2
junctional sarcoplasmic reticulum protein 1
guanosine monophosphate reductase 2
solute carrier family 6 member 9
radial spoke head component 9
envoplakin
DDB1 and CUL4 associated factor 6
DnaJ heat shock protein family (Hsp40) member C1
chromosome 1 open reading frame 61
chromosome 16 open reading frame 74
tripartite motif containing 8
BAF chromatin remodeling complex subunit BCL7A
hexokinase 2
clathrin heavy chain like 1
MYB proto-oncogene, transcription factor
colony stimulating factor 1 receptor
ubiquitin conjugating enzyme E2 D3
HEPACAM family member 2
H3.3 histone A
pantothenate kinase 1
acyl-CoA dehydrogenase very long chain
TNF receptor superfamily member 9
tumor associated calcium signal transducer 2
WNK lysine deficient protein kinase 2
TNF superfamily member 14
cyclin D1 binding protein 1
heparan sulfate-glucosamine 3-sulfotransferase 1
glutamate-ammonia ligase
integrin subunit alpha X
golgin A7
complement C1r
methionine sulfoxide reductase B1
zinc finger CCHC-type containing 7
transmembrane phosphoinositide 3-phosphatase and tensin homolog 2
stromal interaction molecule 2
KN motif and ankyrin repeat domains 3
pro-platelet basic protein
zinc finger protein 131

ubiquitin A-52 residue ribosomal protein fusion product 1
tubulin alpha 1a
Fc fragment of IgE receptor Ia
sorting nexin 3
complement C3b/C4b receptor 1 (Knops blood group)
indoleamine 2,3-dioxygenase 2
PHD finger protein 12
interleukin 18 binding protein
solute carrier organic anion transporter family member 1C1
sterile alpha motif domain containing 14
NLR family pyrin domain containing 1
insulin like growth factor 2 receptor
proton activated chloride channel 1
serglycin
tubulin beta 4B class IVb
trio Rho guanine nucleotide exchange factor
gamma-glutamyl hydrolase
argonaute RISC catalytic component 2
ciliary rootlet coiled-coil, rootletin family member 2
zinc finger DHHC-type palmitoyltransferase 3
neural cell adhesion molecule 1
solute carrier family 1 member 3
solute carrier organic anion transporter family member 3A1
chromosome 2 open reading frame 92
membrane associated ring-CH-type finger 5
hemoglobin subunit delta
death effector domain containing 2
integrin subunit alpha 4
MET transcriptional regulator MACC1
dynein axonemal heavy chain 10
enolase 1
autophagy related 9A
hemoglobin subunit alpha 2
C-X-C motif chemokine ligand 5
GABA type A receptor associated protein like 2
small integral membrane protein 3
zinc finger protein 595
leucine rich repeat containing 6
NFKB inhibitor epsilon
rhotekin
zinc finger DHHC-type containing 11B
branched chain amino acid transaminase 1
Ras like without CAAX 1
migration and invasion inhibitory protein
major histocompatibility complex, class II, DQ alpha 2
hyaluronidase 3

phosphogluconate dehydrogenase
gamma-glutamyl carboxylase
RAB2B, member RAS oncogene family
ubiquitin conjugating enzyme E2 R2
interleukin 10 receptor subunit beta
RAB36, member RAS oncogene family
adenosine kinase
ADP ribosylation factor like GTPase 8A
adhesion G protein-coupled receptor E1
inhibitor of nuclear factor kappa B kinase subunit epsilon
CKLF like MARVEL transmembrane domain containing 5
RIO kinase 3
amyloid beta precursor protein binding family B member 1 interacting protein
deleted in primary ciliary dyskinesia homolog (mouse)
novel protein
CTD small phosphatase like 2
zinc finger protein 721
MAX network transcriptional repressor
cytochrome b-245 chaperone 1
testis expressed metallothionein like protein
hemoglobin subunit alpha 1
major histocompatibility complex, class II, DR beta 5
midnolin
glycerophosphodiester phosphodiesterase domain containing 5
macrophage erythroblast attacher, E3 ubiquitin ligase
Ras protein specific guanine nucleotide releasing factor 1
lysine demethylase 6B
novel protein, SIRPB1-SIRPD readthrough
CD79a molecule
cAMP responsive element binding protein 3 like 2
ras homolog family member G
dysbindin domain containing 1
olfactomedin like 2B
basic helix-loop-helix family member e41
zinc finger protein 281
oligosaccharyltransferase complex subunit 4, non-catalytic
24-dehydrocholesterol reductase
transmembrane protein 11
basigin (Ok blood group)
ferritin heavy chain 1
four and a half LIM domains 2
capicua transcriptional repressor
ATPase H⁺ transporting V1 subunit C1
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7
transforming growth factor beta 1 induced transcript 1
5',3'-nucleotidase, mitochondrial

regulator of G protein signaling 6
lactate dehydrogenase A
heme binding protein 1
cytochrome P450 family 2 subfamily E member 1
regulator of G protein signaling 14
glycoprotein V platelet
protein phosphatase 2 regulatory subunit B'beta
metallothionein 1F
SEC14 like lipid binding 3
zinc finger protein 787
procollagen-lysine,2-oxoglutarate 5-dioxygenase 2
lysine acetyltransferase 2A
NUMB endocytic adaptor protein
zinc finger FYVE-type containing 28
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1M
ankyrin and armadillo repeat containing
spermine oxidase
flagellum associated containing coiled-coil domains 1
cytochrome P450 family 4 subfamily F member 12
zinc finger protein 316
HPS3 biogenesis of lysosomal organelles complex 2 subunit 1
CD40 molecule
Sp1 transcription factor
Jupiter microtubule associated homolog 1
DENN domain containing 4C
zinc finger RANBP2-type containing 1
complement C5a receptor 1
potassium channel modulatory factor 1
RAB30, member RAS oncogene family
TBC1 domain family member 22B
multimerin 1
zinc finger protein 611
membrane associated ring-CH-type finger 3
transaldolase 1
novel protein, ZNRF2-LINC01176 readthrough
elongation factor 1 homolog
minichromosome maintenance complex binding protein
gelsolin
polypeptide N-acetylgalactosaminyltransferase 5
EBP like
zinc finger protein 618
ATP binding cassette subfamily C member 4
latent transforming growth factor beta binding protein 1
ghrelin and obestatin prepropeptide
tumor protein p53 inducible protein 3
zinc finger protein 329

solute carrier family 8 member A1
leukocyte immunoglobulin like receptor A2
macrophage expressed 1
clusterin
membrane spanning 4-domains A3
chromosome 17 open reading frame 99
activating transcription factor 7 interacting protein 2
G protein subunit alpha 12
cell division cycle associated 3
interferon induced transmembrane protein 2
outer dense fiber of sperm tails 2
ubiquitin conjugating enzyme E2 J1
kelch repeat and BTB domain containing 8
fumarylacetoacetate hydrolase domain containing 1
homeobox A9
microsomal glutathione S-transferase 1
phospholipase C beta 1
plasminogen activator, urokinase receptor
YEATS domain containing 2
beta-1,4-galactosyltransferase 5
caspase 4
post-glycosylphosphatidylinositol attachment to proteins 6
DNA cross-link repair 1C
small integral membrane protein 5
major histocompatibility complex, class II, DR alpha
ORMDL sphingolipid biosynthesis regulator 3
granulin precursor
tousled like kinase 1
dehydrogenase/reductase 7B
regulator of G protein signaling 1
triggering receptor expressed on myeloid cells like 1
phosphatase and actin regulator 2
zinc finger protein 703
IQ motif containing GTPase activating protein 1
zyg-11 related cell cycle regulator
beta-ureidopropionase 1
Rab interacting lysosomal protein like 2
fatty acid 2-hydroxylase
nuclear factor, erythroid 2 like 2
polycomb group ring finger 5
ring finger protein 19B
FERM domain containing 4A
stomatin
zinc finger protein 160
fatty acid hydroxylase domain containing 2
cadherin related family member 1

endo-beta-N-acetylglucosaminidase
pyruvate kinase M1/2
deoxynucleotidyltransferase terminal interacting protein 1
endoplasmic reticulum oxidoreductase 1 beta
leukocyte immunoglobulin like receptor B2
Kruppel like factor 7
matrix metalloproteinase 25
zinc finger protein 225
N-terminal asparagine amidase
ferritin light chain
N-deacetylase and N-sulfotransferase 3
macrophage scavenger receptor 1
sorting nexin 25
HIVEP zinc finger 1
oxidative stress induced growth inhibitor 1
arachidonate 15-lipoxygenase type B
scavenger receptor class B member 1
basic transcription factor 3
piezo type mechanosensitive ion channel component 1
protein phosphatase 4 regulatory subunit 2
zinc finger protein 124
RAB GTPase activating protein 1 like
deleted in azoospermia like
kinase suppressor of ras 1
DOP1 leucine zipper like protein B
thyroid hormone receptor interactor 12
trafficking kinesin protein 2
apolipoprotein B mRNA editing enzyme catalytic subunit 3A
coagulation factor XIII A chain
androgen induced 1
adrenomedullin 2
anaphase promoting complex subunit 7
cytidine deaminase
mitogen-activated protein kinase 1
transforming acidic coiled-coil containing protein 3
transmembrane protein 260
WASP family member 2
major histocompatibility complex, class II, DR beta 1
notch receptor 2
insulin like growth factor binding protein 2
solute carrier family 16 member 6
solute carrier family 25 member 20
solute carrier family 28 member 3
cytoplasmic linker associated protein 2
killer cell lectin like receptor F1
DENN domain containing 4A

collagen type IX alpha 3 chain
integrator complex subunit 4
capping actin protein of muscle Z-line subunit alpha 1
zinc finger protein 264
RIPOR family member 3
chromatin licensing and DNA replication factor 1
solute carrier family 48 member 1
tyrosylprotein sulfotransferase 2
MOB kinase activator 2
isocitrate dehydrogenase (NAD(+)) 3 catalytic subunit alpha
TNF receptor associated factor 3
CTD small phosphatase like
acyloxyacyl hydrolase
ubiquitin conjugating enzyme E2 H
abhydrolase domain containing 12B
ATPase H⁺ transporting V0 subunit d1
YOD1 deubiquitinase
ring finger protein 170
chromosome 9 open reading frame 40
peroxisome proliferator activated receptor delta
RNA polymerase I and III subunit D
zinc finger AN1-type containing 2B
secreted protein acidic and cysteine rich
SH3 domain binding glutamate rich protein like 2
transmembrane BAX inhibitor motif containing 1
ANKH inorganic pyrophosphate transport regulator
uridine phosphorylase 1
DEAD-box helicase 27
sperm antigen with calponin homology and coiled-coil domains 1
immediate early response 3
NME/NM23 nucleoside diphosphate kinase 4
DExH-box helicase 34
TIFA inhibitor
ring finger protein 32
vesicle transport through interaction with t-SNAREs 1B
COP9 signalosome subunit 3
mitogen-activated protein kinase kinase kinase 14
phosphate cytidyltransferase 1, choline, alpha
SRY-box transcription factor 13
cytoplasmic polyadenylation element binding protein 4
yippee like 1
ATP/GTP binding protein 1
SET binding protein 1
coiled-coil domain containing 6
transmembrane protein 268
tumor protein p53 binding protein 1

glutamic--pyruvic transaminase 2
SEC23 interacting protein
regulatory factor X associated ankyrin containing protein
cyclin Pas1/PHO80 domain containing 1
cell adhesion molecule 4
BAF chromatin remodeling complex subunit BCL7C
dopamine receptor D4
hyaluronidase 2
carboxylesterase 1
putative homeodomain transcription factor 2
ret finger protein like 2
alpha kinase 3
myelin protein zero like 2
phosphoglucomutase 1
unc-51 like autophagy activating kinase 2
adenosine deaminase RNA specific B1
myosin VC
peptidylprolyl isomerase F
sphingosine-1-phosphate phosphatase 2
LDL receptor related protein 10
ADP-ribosylserine hydrolase
neuraminidase 1
lunapark, ER junction formation factor
SUMO1 activating enzyme subunit 1
protein activator of interferon induced protein kinase EIF2AK2
yippee like 3
ADAM metallopeptidase with thrombospondin type 1 motif 1
EF-hand calcium binding domain 12
tetraspanin 15
cyclase associated actin cytoskeleton regulatory protein 1
LIM domain binding 2
MLLT1 super elongation complex subunit
AE binding protein 1
S100 calcium binding protein P
aminopeptidase puromycin sensitive
glutamine-fructose-6-phosphate transaminase 2
family with sequence similarity 117 member A
G protein subunit alpha i3
lipopolysaccharide induced TNF factor
HEAT repeat containing 5B
syntaxin 10
RAD17 checkpoint clamp loader component
dual specificity tyrosine phosphorylation regulated kinase 3
glucose-fructose oxidoreductase domain containing 2
UBA like domain containing 2
tissue specific transplantation antigen P35B

ribosomal protein S6 kinase A1
BCL9 transcription coactivator
protein kinase cAMP-dependent type II regulatory subunit beta
KH RNA binding domain containing, signal transduction associated 2
interferon alpha and beta receptor subunit 1
ectonucleoside triphosphate diphosphohydrolase 5 (inactive)
FYVE, RhoGEF and PH domain containing 2
sequestosome 1
FOS like 2, AP-1 transcription factor subunit
TIMP metalloproteinase inhibitor 2
collectin subfamily member 12
iron-sulfur cluster assembly 1
GID complex subunit 4 homolog
putative homeodomain transcription factor 1
GNAS complex locus
inositol polyphosphate-5-phosphatase B
BCS1 homolog, ubiquinol-cytochrome c reductase complex chaperone
solute carrier family 25 member 38
gamma-aminobutyric acid type A receptor subunit beta1
chondroitin sulfate synthase 1
cytochrome c oxidase subunit 6B1
mitotic arrest deficient 2 like 2
CD74 molecule
CREB regulated transcription coactivator 1
nucleolar protein 3
ECSIT signaling integrator
transketolase
N-acyl ethanolamine acid amidase
CASP8 and FADD like apoptosis regulator
H3.3 histone B
microtubule associated serine/threonine kinase family member 4
nuclear factor of activated T cells 2 interacting protein
acidic nuclear phosphoprotein 32 family member B
proline rich nuclear receptor coactivator 1
TAP binding protein
C-C motif chemokine receptor 10
CDC42 binding protein kinase alpha
galectin 12
selectin P
formin binding protein 4
small glutamine rich tetratricopeptide repeat containing beta
ubiquitin conjugating enzyme E2 M
GATA zinc finger domain containing 2A
reversion inducing cysteine rich protein with kazal motifs
follistatin like 3
glycogen synthase kinase 3 alpha

mediator complex subunit 6
BCL2 interacting killer
adaptor related protein complex 2 subunit mu 1
piwi like RNA-mediated gene silencing 4
UBA domain containing 1
WW domain binding protein 2
ankyrin repeat and SOCS box containing 2
cerebellar degeneration related protein 2
zinc finger family member 783
alkaline ceramidase 1
megakaryocyte and platelet inhibitory receptor G6b
SR-related CTD associated factor 4
striatin interacting protein 1
cyclin I
zinc finger protein 274
CD1d molecule
TEA domain transcription factor 2
SNF8 subunit of ESCRT-II
zinc finger protein 600
slingshot protein phosphatase 1
Ras related GTP binding D
insulin receptor substrate 1
prune homolog 2 with BCH domain
myotubularin related protein 11
TUB like protein 3
SPG7 matrix AAA peptidase subunit, paraplegin
leucine rich repeat containing 4
ABL proto-oncogene 1, non-receptor tyrosine kinase
family with sequence similarity 111 member A
kelch like family member 14
RALBP1 associated Eps domain containing 1
ZFP36 ring finger protein
cathepsin A
signaling lymphocytic activation molecule family member 1
tetraspanin 9
zinc finger protein 845
RELT like 1
nuclear pore complex interacting protein family member B3
transcription termination factor 1
ribosomal modification protein rimK like family member B
glycine amidinotransferase
RFX family member 8, lacking RFX DNA binding domain
platelet factor 4
H2B clustered histone 11
LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated
protein phosphatase 4 regulatory subunit 1

armadillo repeat containing 3
denticleless E3 ubiquitin protein ligase homolog
neuritin 1
calpain 14
collagen type XIX alpha 1 chain
ATPase H⁺ transporting V0 subunit e1
Ras association domain family member 6
cytochrome p450 oxidoreductase
regulator of cell cycle
regulator of G protein signaling 19
Rho GTPase activating protein 30
GATA zinc finger domain containing 1
symplesin
tripartite motif containing 13
G protein-coupled receptor 68
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 1
inositol 1,4,5-trisphosphate receptor interacting protein
nucleoporin 43
novel protein
free fatty acid receptor 2
peptidyl arginine deiminase 4
nuclear pore complex interacting protein family member B4
C-X-C motif chemokine receptor 5
zinc finger protein 224
formiminotransferase cyclodeaminase N-terminal like
solute carrier family 17 member 9
family with sequence similarity 43 member A
H2B clustered histone 21
TEA domain transcription factor 3
inositol polyphosphate-5-phosphatase K
nuclear receptor binding factor 2
kallikrein 1
periplin 1
junction adhesion molecule like
Rho GTPase activating protein 18
MSL complex subunit 1
beta-1,4-galactosyltransferase 3
palladin, cytoskeletal associated protein
DSN1 component of MIS12 kinetochore complex
transferrin receptor 2
growth factor independent 1B transcriptional repressor
myosin phosphatase Rho interacting protein
sorting nexin 18
Rac family small GTPase 1
SMG7 nonsense mediated mRNA decay factor
G protein-coupled receptor 19

mevalonate kinase
zinc finger protein 606
ETS transcription factor ELK3
mitofusin 2
ubiquitin specific peptidase 12
actin binding LIM protein family member 3
SPC25 component of NDC80 kinetochore complex
gigaxonin
solute carrier family 14 member 1 (Kidd blood group)
protein kinase cAMP-dependent type I regulatory subunit beta
cell death inducing DFFA like effector b
ADP ribosylation factor 4
TatD DNase domain containing 3
coiled-coil domain containing 84
sphingosine-1-phosphate receptor 4
adenylate cyclase 9
RNA binding motif single stranded interacting protein 1
NADH:ubiquinone oxidoreductase complex assembly factor 3
stem-loop binding protein
CD80 molecule
myosin light chain 6
ISY1-RAB43 readthrough
zinc finger protein 227
C2 calcium dependent domain containing 5
arachidonate 12-lipoxygenase, 12S type
phosphatidylcholine transfer protein
quiescin sulfhydryl oxidase 2
transcription factor CP2
neurobeachin like 2
integrin subunit alpha 9
INO80 complex ATPase subunit
G protein signaling modulator 3
actin related protein 2/3 complex subunit 5
frizzled class receptor 5
capping actin protein of muscle Z-line subunit alpha 2
coiled-coil domain containing 146
proteasome 26S subunit, non-ATPase 4
fibronectin 1
piggyBac transposable element derived 2
neurexophilin 4
glycoprotein IX platelet
interleukin 1 receptor type 1
novel protein, TPD52-MRPS28 readthrough
G protein regulated inducer of neurite outgrowth 1
IQ motif and Sec7 domain ArfGEF 1
cadherin 1

CD44 molecule (Indian blood group)
transport and golgi organization 6 homolog
ubiquitin specific peptidase 32
pseudouridine synthase 7
novel protein
crystallin gamma S
activin A receptor type 1B
salt inducible kinase 1B (putative)
neogenin 1
placental growth factor
transmembrane 7 superfamily member 2
nuclear pore complex interacting protein family member B5
mitochondrial ribosomal protein S25
BMP/retinoic acid inducible neural specific 3
tripartite motif containing 25
leucine rich repeat neuronal 1
catenin alpha 2
tetratricopeptide repeat domain 37
SAM domain, SH3 domain and nuclear localization signals 1
plexin A4
MTSS I-BAR domain containing 1
cadherin 26
regulation of nuclear pre-mRNA domain containing 2
sorting nexin 2
fem-1 homolog C
coiled-coil domain containing 32
RPGR interacting protein 1
potassium two pore domain channel subfamily K member 5
ubiquitin conjugating enzyme E2 Q2
solute carrier family 30 member 4
novel protein
tetratricopeptide repeat domain 9
TNF receptor superfamily member 1A
cysteine and serine rich nuclear protein 1
formyl peptide receptor 2
major facilitator superfamily domain containing 1
male germ cell associated kinase
adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 1
WNK lysine deficient protein kinase 1
abhydrolase domain containing 6, acylglycerol lipase
ubiquitin conjugating enzyme E2 G2
platelet endothelial aggregation receptor 1
ribonuclease H2 subunit B
calponin 2
C-type lectin domain family 4 member C
jumonji domain containing 6, arginine demethylase and lysine hydroxylase

adaptor related protein complex 1 subunit sigma 3
ST3 beta-galactoside alpha-2,3-sialyltransferase 1
zinc finger protein 860
Ras and Rab interactor 3
family with sequence similarity 135 member A
C-C motif chemokine receptor 3
bestrophin 1
keratin 23
amyloid beta precursor protein binding protein 2
zinc finger and SCAN domain containing 16
pre-mRNA processing factor 3
cysteinyl-tRNA synthetase 1
replication timing regulatory factor 1
vacuolar protein sorting 45 homolog
CDC like kinase 3
Wnt family member 2B
butyrophilin subfamily 3 member A1
sphingosine-1-phosphate phosphatase 1
amyloid beta precursor protein binding family B member 3
transmembrane p24 trafficking protein 1
NOP2/Sun RNA methyltransferase 4
prostaglandin F receptor
RNA polymerase II subunit C
phosphatidylinositol-4,5-bisphosphate 4-phosphatase 2
cathepsin B
gamma-aminobutyric acid type A receptor subunit beta2
tropomyosin 3
brain enriched myelin associated protein 1
netrin 4
peptidylprolyl isomerase H
AFG1 like ATPase
RAB7A, member RAS oncogene family
RP9 pre-mRNA splicing factor
abhydrolase domain containing 18
bone morphogenetic protein 1
H2A clustered histone 20
Ras association domain family member 2
ICOS ligand
zinc finger protein 169
NK3 homeobox 1
programmed cell death 4
LYN proto-oncogene, Src family tyrosine kinase
N-acylsphingosine amidohydrolase 1
RAS related 2
H4 clustered histone 4
protein kinase, membrane associated tyrosine/threonine 1

Rab9 effector protein with kelch motifs
carbohydrate sulfotransferase 13
sorbitol dehydrogenase
SEC24 homolog C, COPII coat complex component
phosphatidylinositol glycan anchor biosynthesis class L
H2A.W histone
translocation associated membrane protein 2
proline rich coiled-coil 2B
VPS41 subunit of HOPS complex
BCL2 family apoptosis regulator BOK
caspase recruitment domain family member 11
caldesmon 1
inositol polyphosphate multikinase
transforming growth factor beta regulator 1
transmembrane protein 88
transforming growth factor alpha
SWT1 RNA endoribonuclease homolog
solute carrier family 24 member 3
ring finger protein 144B
rubicon autophagy regulator
protein phosphatase 2 regulatory subunit B'alpha
leucine rich repeat containing 42
zinc finger protein 697
kirre like nephrin family adhesion molecule 3
caspase recruitment domain family member 19
karyopherin subunit alpha 1
coiled-coil domain containing 28A
solute carrier family 11 member 1
tetratricopeptide repeat domain 17
progesterone and adipoQ receptor family member 9
RPA interacting protein
poly(A) binding protein cytoplasmic 3
capping actin protein, gelsolin like
queuine tRNA-ribosyltransferase accessory subunit 2
fibrinogen like 2
Rac family small GTPase 2
RIC8 guanine nucleotide exchange factor B
zinc finger matrin-type 5
rabphilin 3A
alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase B
TNF receptor superfamily member 10c
ATP binding cassette subfamily C member 2
testis expressed 9
uridine phosphorylase 2
novel protein
RNA binding motif protein 4B

WDFY family member 4
low density lipoprotein receptor class A domain containing 2
transmembrane protein 120A
pleckstrin homology domain containing A8
solute carrier family 1 member 5
proliferation-associated 2G4
1,4-alpha-glucan branching enzyme 1
chromosome 16 open reading frame 70
JAZF zinc finger 1
growth factor receptor bound protein 2
epsin 1
protein tyrosine phosphatase receptor type N
forkhead box O3
solute carrier family 16 member 5
myotubularin related protein 3
receptor interacting serine/threonine kinase 2
proprotein convertase subtilisin/kexin type 7
RAS guanyl releasing protein 3
ubiquitin protein ligase E3 component n-recognin 1
apoptosis resistant E3 ubiquitin protein ligase 1
ring finger protein 115
aminolevulinate dehydratase
protein phosphatase 1 regulatory subunit 18
exosome component 4
novel protein
sorcin
novel transcript
unc-13 homolog D
neurogranin
syntaxin 8
purinergic receptor P2X 1
myosin IXA
ubiquitin conjugating enzyme E2 B
fibrosin
tRNA-yW synthesizing protein 1 homolog
death effector domain containing
THADA armadillo repeat containing
prostaglandin D2 receptor
guanylate cyclase activator 1B
PHD finger protein 23
zinc finger protein 26
adaptor related protein complex 5 subunit beta 1
PR/SET domain 5
oxysterol binding protein like 8
ZFP30 zinc finger protein
RAS related

LY6G6F-LY6G6D readthrough
transmembrane immune signaling adaptor TYROBP
MAPK activated protein kinase 5
complement C3d receptor 2
CBFA2/RUNX1 partner transcriptional co-repressor 2
inositol 1,4,5-trisphosphate receptor type 1
heterogeneous nuclear ribonucleoprotein A3
CD248 molecule
proline rich 5 like
thyroglobulin
X-ray repair cross complementing 4
collagen type VI alpha 2 chain
CD63 molecule
LARGE xylosyl- and glucuronyltransferase 2
WD repeat domain 86
lymphocyte antigen 96
nicastrin
transcription activation suppressor family member 2
cell division cycle 42
ST13 Hsp70 interacting protein
pyrimidinergic receptor P2Y6
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha
thrombospondin 3
phosphodiesterase 3A
forkhead box K1
MEFV innate immunity regulator, pyrin
erythroblast membrane associated protein (Scianna blood group)
lymphocyte cytosolic protein 1
protein phosphatase 2 regulatory subunit Bbeta
aryl hydrocarbon receptor nuclear translocator
striatin interacting protein 2
reticulon 1
high density lipoprotein binding protein
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8
neurocalcin delta
oxysterol binding protein
protein phosphatase 1 regulatory subunit 3D
FtsJ RNA 2'-O-methyltransferase 3
fatty acid desaturase 2
treacle ribosome biogenesis factor 1
novel protein
ornithine aminotransferase
neural proliferation, differentiation and control 1
family with sequence similarity 89 member B
dihydrolipoamide S-succinyltransferase
nudix hydrolase 4

tubulin gamma complex associated protein 6
thioredoxin like 1
protein tyrosine kinase 2 beta
leucine rich repeat containing 25
transcription factor EB
platelet derived growth factor subunit A
junctophilin 4
zinc finger protein 582
LIM and SH3 protein 1
SH3 domain containing GRB2 like 1, endophilin A2
ankyrin repeat and BTB domain containing 1
uroporphyrinogen decarboxylase
colony stimulating factor 2 receptor subunit beta
ubiquitin specific peptidase 24
potassium channel tetramerization domain containing 21
PDS5 cohesin associated factor A
poly(ADP-ribose) polymerase family member 15
thyroid hormone receptor interactor 6
SP140 nuclear body protein
H2A.J histone
osteoclast stimulating factor 1
sulfide quinone oxidoreductase
transient receptor potential cation channel subfamily M member 6
RUNX family transcription factor 2
KBTBD11 overlapping transcript 1
zinc finger protein 706
dual specificity phosphatase 4
solute carrier family 5 member 8
LHFPL tetraspan subfamily member 5
Ras association domain family member 1
RNA binding motif protein 4
CD55 molecule (Cromer blood group)
chromosome 4 open reading frame 3
hematopoietic SH2 domain containing
autophagy related 7
phosphoglycerate mutase 1
succinate receptor 1
formin binding protein 1
tropomyosin 2
homocysteine inducible ER protein with ubiquitin like domain 1
transmembrane protein 132C
late endosomal/lysosomal adaptor, MAPK and MTOR activator 5
cytochrome b5 reductase 3
meiosis 1 associated protein
decapping mRNA 2
chromosome 14 open reading frame 132

zinc finger CCHC-type containing 8
single stranded DNA binding protein 2
transmembrane protein 40
potassium voltage-gated channel interacting protein 2
mab-21 like 3
POP7 homolog, ribonuclease P/MRP subunit
retinoic acid receptor alpha
upstream transcription factor family member 3
cadherin related family member 2
NFAT activating protein with ITAM motif 1
transcriptional adaptor 3
DnaJ heat shock protein family (Hsp40) member C6
TBC1 domain family member 10B
dehydrogenase/reductase 3
zinc finger protein 83
intelectin 1
myocyte enhancer factor 2A
slingshot protein phosphatase 3
Fc receptor like 1
chondroitin sulfate synthase 3
glutamate metabotropic receptor 2
calcium sensing receptor
coiled-coil domain containing 106
potassium channel tetramerization domain containing 6
calpain 15
phospholipid scramblase 1
mannosidase alpha class 2A member 2
Yip1 domain family member 2
shisa family member 8
charged multivesicular body protein 3
CKLF like MARVEL transmembrane domain containing 6
ataxin 1
EPH receptor B4
LIM zinc finger domain containing 1
solute carrier family 7 member 1
dipeptidyl peptidase 9
F-box and WD repeat domain containing 11
novel protein
C-type lectin domain family 4 member D
actin related protein 1A
cilia and flagella associated protein 58
ring finger protein 114
C-C motif chemokine receptor 8
scaffold attachment factor B2
reticulon 4
NBPF member 26

bromodomain containing 4
poly(rC) binding protein 2
NLR family pyrin domain containing 6
SHOC2 leucine rich repeat scaffold protein
growth arrest and DNA damage inducible beta
leucine rich repeat and fibronectin type III domain containing 1
tudor and KH domain containing
solute carrier family 40 member 1
ubiquitin specific peptidase 45
collagen type V alpha 1 chain
solute carrier family 49 member 4
RAD9 checkpoint clamp component A
tRNA-yW synthesizing protein 1 homolog B
C-terminal Src kinase
phosphatidylinositol 4-kinase alpha
GPN-loop GTPase 2
heat shock protein family A (Hsp70) member 4
interleukin 2 receptor subunit beta
netrin G2
discs large MAGUK scaffold protein 1
phosphoglucomutase 2
solute carrier family 46 member 1
homeodomain interacting protein kinase 1
GRB2 related adaptor protein 2
lymphocyte antigen 6 family member G6C
glycerol-3-phosphate dehydrogenase 1 like
DNA replication and sister chromatid cohesion 1
CD58 molecule
anaphase promoting complex subunit 5
Rho GDP dissociation inhibitor beta
solute carrier family 36 member 1
serine and arginine repetitive matrix 1
ataxin 7 like 3
cation channel sperm associated 1
BCL2 like 13
CCR4-NOT transcription complex subunit 6 like
Myb/SANT DNA binding domain containing 2
amine oxidase copper containing 2
NIPA magnesium transporter 1
carnitine O-acetyltransferase
calneuron 1
copine 2
Cdk5 and Abl enzyme substrate 1
RRN3 homolog, RNA polymerase I transcription factor
chromodomain helicase DNA binding protein 9
amyloid beta precursor protein binding family A member 1

heat shock protein family A (Hsp70) member 1 like
dedicator of cytokinesis 7
transcription elongation factor A3
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta
RAS like family 11 member A
general transcription factor Ili
ubiquitin like 7
growth arrest specific 2 like 1
ADP ribosylation factor like GTPase 4A
novel protein
zinc finger protein 296
solute carrier family 38 member 9
exostosin glycosyltransferase 1
solute carrier family 25 member 22
erythrocyte membrane protein band 4.1
H2B clustered histone 12
amphiphysin
lysosomal protein transmembrane 4 beta
DNA polymerase eta
solute carrier family 35 member F2
ankyrin repeat and MYND domain containing 2
synaptosome associated protein 23
centrosomal protein 104
cyclin dependent kinase 1
chromosome 12 open reading frame 45
ATR serine/threonine kinase
golgi brefeldin A resistant guanine nucleotide exchange factor 1
zinc finger protein 33B
family with sequence similarity 160 member A2
ubiquitin specific peptidase 42
calcium/calmodulin dependent protein kinase II inhibitor 1
serpin family I member 2
solute carrier family 6 member 6
tRNA splicing endonuclease subunit 34
phospholipase C delta 3
actin related protein 3
CDKN1A interacting zinc finger protein 1
YTH N6-methyladenosine RNA binding protein 3
TNF receptor associated protein 1
carbonic anhydrase 12
HCLS1 binding protein 3
spermatogenesis associated serine rich 2
glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase
zinc finger protein 266
zinc finger CCHC-type containing 4
EF-hand domain containing 1

Rho GTPase activating protein 15
CCAAT enhancer binding protein beta
G protein-coupled receptor 108
guanylate cyclase 2D, retinal
lymphocyte antigen 86
SP140 nuclear body protein like
ArfGAP with dual PH domains 1
zinc finger DHHC-type containing 24
striatin 4
Ran GTPase activating protein 1
TRAF3 interacting protein 1
butyrophilin subfamily 3 member A2
NAD kinase
phosphorylase kinase regulatory subunit beta
cyclin dependent kinase 13
chromodomain Y like
zinc finger and BTB domain containing 21
solute carrier family 23 member 1
telomerase associated protein 1
serine/threonine kinase 4
ubiquitin conjugating enzyme E2 O
zinc finger and BTB domain containing 40
solute carrier family 6 member 4
autophagy related 10
solute carrier family 44 member 3
Scm like with four mbt domains 1
CCAAT enhancer binding protein alpha
myosin light chain 6B
centrosomal protein 76
beta-secretase 1
homeobox containing 1
vinculin
long intergenic non-protein coding RNA 2218
coronin 1A
glutamine--fructose-6-phosphate transaminase 1
serine protease 23
lysine demethylase 4C
SVOP like
sorting nexin 9
sialic acid binding Ig like lectin 12 (gene/pseudogene)
stomatin like 2
coiled-coil domain containing 69
leucine rich repeat and Ig domain containing 2
serine protease 27
N-acetylglucosamine-1-phosphate transferase subunits alpha and beta
MIS18 binding protein 1

quiescin sulfhydryl oxidase 1
Ral GTPase activating protein catalytic subunit alpha 2
RAB11 family interacting protein 3
zinc finger protein 567
PX domain containing serine/threonine kinase like
centriolin
progesterone immunomodulatory binding factor 1
endoplasmic reticulum aminopeptidase 2
agouti signaling protein
MYC binding protein 2
tetratricopeptide repeat domain 21B
ATPase phospholipid transporting 11B (putative)
zinc finger protein 415
telomeric repeat binding factor 2
zinc finger protein 516
utrophin
BORCS8-MEF2B readthrough
gamma-aminobutyric acid type A receptor subunit gamma1
E2F transcription factor 4
zinc finger DHHC-type palmitoyltransferase 23
chitinase
cell division cycle 14B
polyamine oxidase
PKHD1 like 1
chloride intracellular channel 4
bone morphogenetic protein receptor type 1A
pre-mRNA processing factor 8
unc-5 family C-terminal like
MAPK interacting serine/threonine kinase 2
selenoprotein T
erythroferrone
villin like
mechanistic target of rapamycin kinase
SH2 domain containing 1B
NLR family CARD domain containing 3
zinc finger protein 136
ALG2 alpha-1,3/1,6-mannosyltransferase
pecanex 1
methyltransferase like 2B
BICD cargo adaptor 1
laminin subunit beta 3
period circadian regulator 3
tumor protein p53 inducible nuclear protein 2
structural maintenance of chromosomes 5
CD70 molecule
lymphocyte specific protein 1

protein phosphatase 4 regulatory subunit 3A
1-acylglycerol-3-phosphate O-acyltransferase 5
mitogen-activated protein kinase kinase 2
chondrolectin
Rho guanine nucleotide exchange factor 37
protein S
doublecortin like kinase 2
phosphodiesterase 3B
SPT20 homolog, SAGA complex component
tumor susceptibility 101
GIPC PDZ domain containing family member 3
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
CD14 molecule
ubiquitin conjugating enzyme E2 E2
serine/threonine kinase 35
RNA binding motif protein 25
fat storage inducing transmembrane protein 1
PX domain containing 1
regulator of G protein signaling 3
hydroxysteroid 17-beta dehydrogenase 4
defective in cullin neddylation 1 domain containing 1
Fc fragment of IgG receptor Ib
serine/threonine kinase 11
ciliary rootlet coiled-coil, rootletin
RELT TNF receptor
F-box protein 10
ankyrin repeat domain 34B
superoxide dismutase 2
N-alpha-acetyltransferase 15, NatA auxiliary subunit
intraflagellar transport 46
ependymin related 1
BLCAP apoptosis inducing factor
unk zinc finger
E2F transcription factor 3
dynein cytoplasmic 1 heavy chain 1
phosphotyrosine interaction domain containing 1
N-acyl phosphatidylethanolamine phospholipase D
ubiquitin specific peptidase 28
potassium voltage-gated channel subfamily H member 7
endoplasmic reticulum aminopeptidase 1
selenoprotein K
lymphotoxin beta receptor
microtubule affinity regulating kinase 3
nucleoporin 107
glycoprotein Ib platelet subunit alpha
fascin actin-bundling protein 2, retinal

4-hydroxyphenylpyruvate dioxygenase
S100 calcium binding protein A4
forty-two-three domain containing 1
sorting nexin 24
coiled-coil domain containing 124
WBP2 N-terminal like
prostaglandin-endoperoxide synthase 1
oligodendrocyte transcription factor 1
phospholipid scramblase 2
ficolin 1
disco interacting protein 2 homolog C
mucosal vascular addressin cell adhesion molecule 1
MAM domain containing glycosylphosphatidylinositol anchor 1
G protein-coupled receptor class C group 5 member B
integrin linked kinase
MYC associated factor X
protein tyrosine kinase 2
protein phosphatase 6 regulatory subunit 1
cysteine and tyrosine rich 1
bone morphogenetic protein 6
protein phosphatase 2 regulatory subunit B'gamma
RNA polymerase II associated protein 3
coenzyme Q2, polyprenyltransferase
guanylate cyclase 1 soluble subunit beta 1
integrin subunit alpha 7
zinc finger protein 623
cytokine receptor like factor 1
cysteine rich protein 3
elongation factor for RNA polymerase II 2
SET domain containing 7, histone lysine methyltransferase
dual specificity phosphatase 5
long intergenic non-protein coding RNA 672
heat shock protein family B (small) member 1
C-C motif chemokine receptor 5 (gene/pseudogene)
FA complementation group M
ATPase H⁺ transporting V0 subunit b
integrin subunit alpha E
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1L
dynein light chain LC8-type 2
zinc finger CCCH-type containing 12C
actin related protein 2/3 complex subunit 1B
ring finger protein 167
abl interactor 2
thioredoxin
calpain 1
histone deacetylase 4

signal transducing adaptor molecule
calcium activated nucleotidase 1
potassium calcium-activated channel subfamily M alpha 1
serine incorporator 3
ankyrin repeat domain 30B
WW domain containing adaptor with coiled-coil
ectonucleotide pyrophosphatase/phosphodiesterase 3
RNA polymerase II subunit J
reticulon 4 receptor like 1
aldo-keto reductase family 1 member C3
coagulation factor XII
endonuclease domain containing 1
histone deacetylase 7
protein kinase cAMP-activated catalytic subunit alpha
microtubule associated protein 1B
zinc finger protein 44
transmembrane protein 33
protein tyrosine phosphatase non-receptor type 9
chondroitin sulfate N-acetylgalactosaminyltransferase 2
TEF transcription factor, PAR bZIP family member
cell cycle progression 1
UDP glycosyltransferase 8
calcium voltage-gated channel auxiliary subunit alpha2delta 3
natural killer cell triggering receptor
carbonic anhydrase 2
TBK1 binding protein 1
novel protein
sodium/potassium transporting ATPase interacting 2
A-kinase anchoring protein 8
inositol hexakisphosphate kinase 2
single stranded DNA binding protein 3
fibulin 5
inhibitor of nuclear factor kappa B kinase subunit beta
TLE family member 1, transcriptional corepressor
cyclin B2
solute carrier family 39 member 13
chromosome 1 open reading frame 122
ovochoymase 1
CD200 molecule
nuclear transcription factor, X-box binding 1
proteasome 20S subunit beta 3
Rap guanine nucleotide exchange factor 5
transmembrane protein 181
torsin family 4 member A
eukaryotic translation initiation factor 2B subunit gamma
mercaptopyruvate sulfurtransferase

DnaJ heat shock protein family (Hsp40) member C17
nurim
trafficking regulator and scaffold protein tamalin
CD151 molecule (Raph blood group)
HPS4 biogenesis of lysosomal organelles complex 3 subunit 2
ribosomal protein S6 kinase A5
platelet derived growth factor receptor beta
G protein-coupled receptor 132
ubiquilin 4
chondroitin sulfate N-acetylgalactosaminyltransferase 1
calcium binding protein 39
RUN domain containing 3B
tropomyosin 4
ankyrin repeat and sterile alpha motif domain containing 3
cystatin B
actin filament associated protein 1
CTD nuclear envelope phosphatase 1 regulatory subunit 1
beaded filament structural protein 1
chromosome 3 open reading frame 38
zinc finger protein 146
MAX dimerization protein 1
phosphatidylinositol binding clathrin assembly protein
casein kinase 1 delta
aryl hydrocarbon receptor nuclear translocator like 2
iron-sulfur cluster assembly enzyme
zinc finger protein 839
leucine rich repeat containing 75B
F-box and leucine rich repeat protein 17
protocadherin 1
ribonuclease K
Rap1 GTPase-GDP dissociation stimulator 1
WD repeat domain 33
solute carrier family 7 member 11
large 60S subunit nuclear export GTPase 1
transducer of ERBB2, 2
thymidine kinase 1
X-prolyl aminopeptidase 3
GEM interacting protein
transient receptor potential cation channel subfamily M member 7
SET domain containing 1A, histone lysine methyltransferase
zinc finger protein 683
RAB8B, member RAS oncogene family
calpain 7
lysine acetyltransferase 6A
zinc finger protein 253
selectin L

LUC7 like 3 pre-mRNA splicing factor
chromosome 2 open reading frame 88
G protein subunit gamma 11
SET binding factor 2
fucosyltransferase 10
N-sulfoglucosamine sulfohydrolase
phosphodiesterase 5A
bridging integrator 3
TBL1X receptor 1
tetratricopeptide repeat domain 31
PITH domain containing 1
family with sequence similarity 126 member A
shortage in chiasmata 1
spectrin alpha, non-erythrocytic 1
E2F transcription factor 8
phosphoprotein membrane anchor with glycosphingolipid microdomains 1
tripartite motif containing 2
family with sequence similarity 160 member B2
protein O-linked mannose N-acetylglucosaminyltransferase 2 (beta 1,4-)
NBPF member 12
sideroflexin 5
apical junction component 1 homolog
MICAL like 2
farnesyl-diphosphate farnesyltransferase 1
metal response element binding transcription factor 2
WD repeat domain 45B
ST6 beta-galactoside alpha-2,6-sialyltransferase 1
cell division cycle 123
ecotropic viral integration site 2B
MALT1 paracaspase
SEC31 homolog A, COPII coat complex component
TBC1 domain family member 31
Ras suppressor protein 1
zinc finger protein 420
fucosyltransferase 8
TATA-box binding protein associated factor 11
coiled-coil domain containing 154
phosphatidylinositol-5-phosphate 4-kinase type 2 alpha
SUZ12 polycomb repressive complex 2 subunit
protein tyrosine kinase 7 (inactive)
beta-1,3-galactosyltransferase 4
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2
DnaJ heat shock protein family (Hsp40) member C4
zinc finger protein 428
influenza virus NS1A binding protein
transmembrane protein 216

PHD and ring finger domains 1
calcium voltage-gated channel auxiliary subunit alpha2delta 2
mast cell immunoglobulin like receptor 1
phosphoglycerate dehydrogenase
shieldin complex subunit 2
PBX homeobox 4
valyl-tRNA synthetase 1
caprin family member 2
zinc finger protein 180
calmodulin 3
BSD domain containing 1
N-acetylneuraminate synthase
synoviolin 1
telomere maintenance 2
proline rich 14 like
cytochrome c oxidase assembly factor 1 homolog
poly(rC) binding protein 1
family with sequence similarity 214 member A
negative elongation factor complex member A
epsin 2
aconitase 1
pipecolic acid and sarcosine oxidase
actin beta
ectonucleoside triphosphate diphosphohydrolase 4
heat shock protein family A (Hsp70) member 12A
cordon-bleu WH2 repeat protein
arginyl-tRNA synthetase 2, mitochondrial
copine 3
HtrA serine peptidase 1
glutaminase
ankyrin repeat domain 13C
phosphatidylserine decarboxylase
GRAM domain containing 1B
serine/threonine/tyrosine kinase 1
pyridoxal kinase
MTOR associated protein, eak-7 homolog
transcription factor 12
cilia and flagella associated protein 44
vacuolar protein sorting 25 homolog
translocase of outer mitochondrial membrane 40 like
leucine rich repeats and calponin homology domain containing 3
fatty acyl-CoA reductase 1
glutathione peroxidase 3
cell division cycle 16
ATPase family AAA domain containing 3B
immediate early response 2

protein phosphatase 1 regulatory subunit 12A
interferon related developmental regulator 2
ATPase cation transporting 13A2
NEDD4 binding protein 2 like 1
replication factor C subunit 1
SH2 domain containing 4A
NBL1, DAN family BMP antagonist
neuregulin 1
praja ring finger ubiquitin ligase 2
butyrophilin like 8
interferon lambda receptor 1
orthodenticle homeobox 1
acyl-CoA oxidase 1
DiGeorge syndrome critical region gene 2
cyclin D3
leucine rich repeat containing G protein-coupled receptor 4
PDZ domain containing 3
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
synaptotagmin binding cytoplasmic RNA interacting protein
chromosome 15 open reading frame 40
upstream binding protein 1
NBPF member 11
membrane palmitoylated protein 7
RAD9 checkpoint clamp component B
general transcription factor IIIC subunit 2
platelet factor 4 variant 1
LUC7 like
solute carrier family 8 member B1
zinc finger protein 766
zinc finger protein 440
KH domain containing 4, pre-mRNA splicing factor
VPS8 subunit of CORVET complex
UTP23 small subunit processome component
monoglyceride lipase
ubiquitin recognition factor in ER associated degradation 1
uroporphyrinogen III synthase
NCK associated protein 5 like
Abelson helper integration site 1
autophagy related 16 like 1
SH2B adaptor protein 2
ATP binding cassette subfamily B member 1
RAB11B, member RAS oncogene family
CDC42 binding protein kinase beta
chromosome 4 open reading frame 50
sulfotransferase family 1A member 1
MX dynamin like GTPase 1

atonal bHLH transcription factor 8
arylformamidase
ryanodine receptor 1
solute carrier family 2 member 6
cofilin 1
SUFU negative regulator of hedgehog signaling
UPF3A regulator of nonsense mediated mRNA decay
ArfGAP with coiled-coil, ankyrin repeat and PH domains 1
armadillo repeat containing 8
syntaxin 3
thymidylate synthetase
BCL2 binding component 3
metabolism of cobalamin associated D
gap junction protein beta 6
cyclin dependent kinase 2 interacting protein
calpastatin
egl-9 family hypoxia inducible factor 1
cyclin and CBS domain divalent metal cation transport mediator 3
sperm tail PG-rich repeat containing 1
cytoplasmic FMR1 interacting protein 2
caspase 8 associated protein 2
mitochondrial pyruvate carrier 2
platelet activating factor acetylhydrolase 1b catalytic subunit 2
intercellular adhesion molecule 4 (Landsteiner-Wiener blood group)
serum response factor
RAB19, member RAS oncogene family
small nuclear ribonucleoprotein polypeptide A'
embigin
phosphofurin acidic cluster sorting protein 2
ZFP69 zinc finger protein
mitochondrial translational initiation factor 2
heme binding protein 2
PRELI domain containing 1
WD repeat and FYVE domain containing 2
RAB GTPase activating protein 1
transmembrane protein 135
RNA binding motif protein 17
novel protein, WDFY1-AP1S3 readthrough
transmembrane protein 176A
SYNJ2BP-COX16 readthrough
tetratricopeptide repeat domain 7B
adaptor related protein complex 3 subunit sigma 1
centrosomal protein 126
COPI coat complex subunit zeta 2
synaptotagmin like 2
MAX dimerization protein MGA

thymidine phosphorylase
T-box transcription factor 19
protein phosphatase 1 regulatory inhibitor subunit 14B
phosphodiesterase 8A
low density lipoprotein receptor
prickle planar cell polarity protein 1
nudix hydrolase 13
EF-hand calcium binding domain 10
opsin 3
CD209 molecule
cytochrome b561 family member A3
solute carrier family 22 member 13
adducin 1
CWF19 like cell cycle control factor 2
NCK associated protein 5
N-acetyltransferase 10
calcium binding protein 5
MICAL like 1
USO1 vesicle transport factor
mitochondrial ribosomal protein L52
RAB3D, member RAS oncogene family
novel protein
SLIT-ROBO Rho GTPase activating protein 2C
FYN binding protein 1
growth arrest specific 7
RNA binding motif protein 6
solute carrier family 25 member 33
dynein cytoplasmic 1 intermediate chain 1
microtubule associated monooxygenase, calponin and LIM domain containing 3
F-box protein 42
ER degradation enhancing alpha-mannosidase like protein 1
fat storage inducing transmembrane protein 2
fibronectin type III domain containing 3B
STE20 related adaptor alpha
TBC1 domain family member 8
ring finger protein 165
ring finger protein 144A
mitogen-activated protein kinase 13
synthesis of cytochrome C oxidase 1
centrosomal protein 19
3-hydroxyacyl-CoA dehydratase 2
X-C motif chemokine ligand 1
potassium voltage-gated channel subfamily E regulatory subunit 3
teneurin transmembrane protein 4
adenosylhomocysteinase like 2
cap binding complex dependent translation initiation factor

ATPase phospholipid transporting 8B4 (putative)
component of oligomeric golgi complex 3
GA binding protein transcription factor subunit beta 2
kinesin family member 18B
arachidonate 5-lipoxygenase activating protein
inner centromere protein
structural maintenance of chromosomes 6
nuclear cap binding protein subunit 1
ring finger protein 121
afadin, adherens junction formation factor
deoxyribonuclease 2, lysosomal
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
prostaglandin D2 synthase
Rho GTPase activating protein 9
SH3 domain and tetratricopeptide repeats 1
thyroid hormone receptor interactor 4
fibroblast growth factor receptor 1
zinc finger protein 418
protein-L-isoaspartate (D-aspartate) O-methyltransferase
oxysterol binding protein like 2
formin like 2
ADP ribosylation factor like GTPase 6 interacting protein 5
ankyrin repeat domain 33B
solute carrier family 25 member 40
microtubule associated protein 4
proline rich 13
tropomodulin 2
radixin
GTPase, IMAP family member 2
ubiquitin protein ligase E3 component n-recognin 3
TOX high mobility group box family member 2
proline-serine-threonine phosphatase interacting protein 1
TOPBP1 interacting checkpoint and replication regulator
NSE1 homolog, SMC5-SMC6 complex component
muscleblind like splicing regulator 2
amine oxidase copper containing 3
oxoeicosanoid receptor 1
mitochondrial fission factor
NADH:ubiquinone oxidoreductase subunit B2
GRB2 associated binding protein 2
leucine rich repeat containing G protein-coupled receptor 6
pappalysin 2
fms related receptor tyrosine kinase 1
RFT1 homolog
protein interacting with cyclin A1
meiosis regulator and mRNA stability factor 1

abraxas 2, BRISC complex subunit
NOP2/Sun RNA methyltransferase 6
leucine rich repeat containing 69
ZFP14 zinc finger protein
epoxide hydrolase 2
nucleoporin 58
serum/glucocorticoid regulated kinase 1
DNA polymerase theta
WD repeat domain 49
family with sequence similarity 168 member B
zinc finger matrin-type 2
apoptosis inducing factor mitochondria associated 2
semaphorin 3G
golgin A8 family member N
chitinase domain containing 1
pancreatic progenitor cell differentiation and proliferation factor
glutamyl-tRNA synthetase 2, mitochondrial
killer cell lectin like receptor C2
glutathione S-transferase omega 1
novel transcript
opioid growth factor receptor like 1
exportin 6
zinc finger and BTB domain containing 46
novel protein
DEAD-box helicase 23
oligodendrocyte transcription factor 2
mitochondrial calcium uptake 1
calcium release activated channel regulator 2B
triple QxxK/R motif containing
TM2 domain containing 3
DNA topoisomerase III alpha
insulin like growth factor binding protein 4
glycophorin E (MNS blood group)
signal-induced proliferation-associated 1
potassium voltage-gated channel subfamily A regulatory beta subunit 2
zinc finger MYM-type containing 1
FKBP prolyl isomerase 1C
EGF containing fibulin extracellular matrix protein 2
sialic acid acetyltransferase
G protein subunit alpha i2
clathrin light chain B
F-box protein 38
inositol polyphosphate-5-phosphatase F
solute carrier family 12 member 6
nuclear factor, erythroid 2 like 3
olfactory receptor family 6 subfamily N member 1

zinc finger protein 513
interactor of little elongation complex ELL subunit 1
STN1 subunit of CST complex
family with sequence similarity 83 member G
KIAA0100
membrane bound transcription factor peptidase, site 1
ribonuclease A family member k6
VPS28 subunit of ESCRT-I
cellular repressor of E1A stimulated genes 1
TBC1 domain family member 2
microtubule crosslinking factor 1
interleukin 17 receptor B
CRACD like
baculoviral IAP repeat containing 6
vesicle amine transport 1
coactosin like F-actin binding protein 1
Rho guanine nucleotide exchange factor 7
DDB1 and CUL4 associated factor 7
OS9 endoplasmic reticulum lectin
zinc finger protein 284
L3MBTL histone methyl-lysine binding protein 3
cornichon family AMPA receptor auxiliary protein 3
growth differentiation factor 15
nescient helix-loop-helix 1
LDL receptor related protein 8
regulator of G protein signaling 7
S-phase kinase associated protein 1
zinc finger protein 573
euchromatic histone lysine methyltransferase 2
sterol O-acyltransferase 2
tigger transposable element derived 3
family with sequence similarity 160 member B1
glycoprotein VI platelet
transmembrane and ubiquitin like domain containing 2
ubiquitin specific peptidase 13
MYB proto-oncogene like 1
dermatan sulfate epimerase like
erythrocyte membrane protein band 4.1 like 2
SH2B adaptor protein 1
solute carrier family 16 member 4
polycystin 2, transient receptor potential cation channel
protein phosphatase 4 catalytic subunit
novel transcript
tenascin R
microtubule affinity regulating kinase 2
Wnt family member 10A

poly(A)-specific ribonuclease
tripartite motif containing 37
immunoglobulin like domain containing receptor 1
poly(ADP-ribose) polymerase 1
ring finger protein, transmembrane 2
suppressor of cytokine signaling 2
anaphase promoting complex subunit 15
kelch like family member 36
regenerating family member 4
transportin 1
nucleus accumbens associated 1
D-glutamate cyclase
ankyrin repeat and LEM domain containing 1
pogo transposable element derived with ZNF domain
zinc finger protein 875
HEAT repeat containing 1
COP9 signalosome subunit 7B
LLGL scribble cell polarity complex component 2
growth hormone inducible transmembrane protein
growth arrest and DNA damage inducible gamma
tubulin beta 1 class VI
phosphoinositide-3-kinase regulatory subunit 4
minichromosome maintenance 10 replication initiation factor
myosin regulatory light chain interacting protein
component of oligomeric golgi complex 4
sirtuin 1
zinc finger CCHC-type containing 10
grainyhead like transcription factor 1
membrane associated ring-CH-type finger 9
G-patch domain containing 11
myosin light chain 12A
tripartite motif containing 27
nipsnap homolog 3B
SFT2 domain containing 2
LIM domain kinase 1
carbohydrate sulfotransferase 2
acyl-CoA thioesterase 13
sperm equatorial segment protein 1
TNF receptor superfamily member 12A
clock circadian regulator
glutathione S-transferase alpha 4
interferon induced protein with tetratricopeptide repeats 1
SPG21 abhydrolase domain containing, maspardin
RFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
calcium binding protein 39 like
charged multivesicular body protein 2A

myeloid associated differentiation marker
pellino E3 ubiquitin protein ligase family member 2
taxilin alpha
G protein nucleolar 2
N-alpha-acetyltransferase 25, NatB auxiliary subunit
thioredoxin interacting protein
zinc finger FYVE-type containing 27
vasoactive intestinal peptide receptor 2
solute carrier family 15 member 4
transcriptional adaptor 2B
bromodomain adjacent to zinc finger domain 1B
non-SMC condensin I complex subunit G
fibrosin like 1
USP6 N-terminal like
islet cell autoantigen 1 like
GID complex subunit 8 homolog
eukaryotic translation initiation factor 2B subunit epsilon
homeobox C4
basic leucine zipper ATF-like transcription factor
MYC target 1
CD8b molecule
maternal embryonic leucine zipper kinase
ADP ribosylation factor interacting protein 1
H2B clustered histone 8
desumoylating isopeptidase 1
G protein-coupled receptor kinase 5
zinc finger protein 234
novel protein
triggering receptor expressed on myeloid cells like 2
phosphatidylinositol-4-phosphate 5-kinase type 1 alpha
basenuclin 2
septin 5
RNA binding fox-1 homolog 3
calpain 12
7-dehydrocholesterol reductase
modulator of smoothened
protein kinase D3
zinc finger protein 235
neural EGFL like 2
EGF like repeats and discoidin domains 3
insulin induced gene 1
tumor protein p63 regulated 1 like
dynamin 3
lysine demethylase 2B
pleckstrin and Sec7 domain containing
nuclear receptor corepressor 2

WRN RecQ like helicase
zinc finger protein 429
terminal nucleotidyltransferase 4A
partner and localizer of BRCA2
solute carrier family 7 member 5
unc-51 like autophagy activating kinase 1
kinesin family member 13A
leucine rich repeats and calponin homology domain containing 1
interferon regulatory factor 2
ADP ribosylation factor 1
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 3
RB binding protein 6, ubiquitin ligase
NFKB inhibitor like 1
dynactin subunit 2
ribosomal protein L22
zinc finger protein 596
C-X-C motif chemokine receptor 1
ribosomal protein S6 kinase B2
solute carrier family 25 member 17
transmembrane protein 175
cytochrome b5 type B
actin related protein 8
elastin microfibril interfacier 2
POM121 transmembrane nucleoporin
cation channel sperm associated auxiliary subunit gamma
coenzyme Q7, hydroxylase
beta-1,4-galactosyltransferase 7
tRNA methyltransferase 10B
oxidation resistance 1
mitogen-activated protein kinase kinase kinase kinase 3
NADH:ubiquinone oxidoreductase subunit A3
NIMA related kinase 9
DLG associated protein 3
Wnt family member 7A
importin 11
lysyl oxidase like 2
cyclin dependent kinase 6
G protein subunit alpha z
AP2 associated kinase 1
DNA methyltransferase 1 associated protein 1
mitogen-activated protein kinase kinase kinase 4
PBX/knotted 1 homeobox 1
desumoylating isopeptidase 2
fibroblast growth factor 14
oxidative stress responsive serine rich 1
zinc finger protein 852

apolipoprotein B receptor
chromosome 16 open reading frame 87
dishevelled associated activator of morphogenesis 1
protein tyrosine phosphatase receptor type M
zinc finger DHHC-type palmitoyltransferase 21
transmembrane protein 94
CST telomere replication complex component 1
collagen type VI alpha 3 chain
novel transcript, TMEM14B-SYCP2L readthrough
extra spindle pole bodies like 1, separase
zinc fingers and homeoboxes 3
isoleucyl-tRNA synthetase 1
zinc finger DHHC-type palmitoyltransferase 12
large tumor suppressor kinase 1
zinc finger DHHC-type containing 11
exostosin glycosyltransferase 2
Josephin domain containing 1
V-set and immunoglobulin domain containing 10
tribbles pseudokinase 2
transmembrane protein 65
novel transcript, TSTD1 - F11R readthrough
DEAD-box helicase 10
methyltransferase like 14
glucose-fructose oxidoreductase domain containing 1
COMM domain containing 7
endoplasmic reticulum metallopeptidase 1
ATP binding cassette subfamily A member 1
proline rich 14
DEAH-box helicase 36
TOG array regulator of axonemal microtubules 1
calcineurin like EF-hand protein 1
RAB11 family interacting protein 5
butyrophilin subfamily 3 member A3
Yip1 domain family member 3
ankyrin repeat and SOCS box containing 8
zinc finger protein 335
lactamase beta 2
mannosidase beta like
SH3 domain containing GRB2 like, endophilin B2
calmodulin regulated spectrin associated protein 1
solute carrier family 30 member 10
interferon alpha inducible protein 27
BEN domain containing 4
purine nucleoside phosphorylase
cytochrome P450 family 20 subfamily A member 1
autophagy related 4C cysteine peptidase

zinc finger protein 211
succinate dehydrogenase complex assembly factor 3
spindle and kinetochore associated complex subunit 1
trophinin associated protein
zinc finger with KRAB and SCAN domains 7
DnaJ heat shock protein family (Hsp40) member A2
Holliday junction recognition protein
nuclear respiratory factor 1
coiled-coil domain containing 107
Sad1 and UNC84 domain containing 1
fibroblast growth factor binding protein 3
serpin family E member 1
SKI like proto-oncogene
S-phase cyclin A associated protein in the ER
mitogen-activated protein kinase kinase kinase 11
ankyrin repeat and FYVE domain containing 1
DnaJ heat shock protein family (Hsp40) member C7
UBA like domain containing 1
splA/ryanodine receptor domain and SOCS box containing 3
complement C1s
armadillo like helical domain containing 3
DDB1 and CUL4 associated factor 11
WD repeat domain 53
sperm associated antigen 1
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1K
protein tyrosine phosphatase non-receptor type 11
galectin like
chromobox 4
mitochondrial poly(A) polymerase
ankyrin repeat domain 42
TPX2 microtubule nucleation factor
STT3 oligosaccharyltransferase complex catalytic subunit A
inositol polyphosphate-5-phosphatase D
exocyst complex component 3 like 1
SS nuclear autoantigen 1
La ribonucleoprotein 4
zinc finger protein 431
ADP dependent glucokinase
SLIT-ROBO Rho GTPase activating protein 2B
Rab acceptor 1
arrestin beta 1
solute carrier organic anion transporter family member 4C1
teashirt zinc finger homeobox 3
B double prime 1, subunit of RNA polymerase III transcription initiation factor IIIB
cathepsin O
Rho GTPase activating protein 12

methylcrotonoyl-CoA carboxylase 1
RALY heterogeneous nuclear ribonucleoprotein
protein tyrosine phosphatase receptor type J
kinesin family member 13B
integral membrane protein 2C
SOS Ras/Rac guanine nucleotide exchange factor 1
small integral membrane protein 29
Rab geranylgeranyltransferase subunit beta
transmembrane protein 186
fibulin 2
organic solute carrier partner 1
ubiquitin conjugating enzyme E2 V2
nucleolar protein 10
CDK5 regulatory subunit associated protein 1
vacuolar protein sorting 13 homolog C
gliomedin
zinc finger protein 254
ligand dependent nuclear receptor corepressor like
eukaryotic translation initiation factor 1
BTB domain containing 8
TNF superfamily member 4
glucosidase alpha, neutral C
tankyrase 2
enhancer of polycomb homolog 1
ATP binding cassette subfamily G member 2 (Junior blood group)
pleckstrin homology like domain family B member 2
potassium inwardly rectifying channel subfamily J member 6
serum/glucocorticoid regulated kinase family member 3
zinc finger protein 134
amine oxidase copper containing 1
bromodomain and PHD finger containing 1
G protein-coupled receptor 55
SET domain bifurcated histone lysine methyltransferase 2
Rh blood group D antigen
activin A receptor like type 1
GIT ArfGAP 2
G protein-coupled receptor 15
glial cells missing transcription factor 1
leukotriene B4 receptor
erythroid differentiation regulatory factor 1
TATA-box binding protein associated factor 8
synaptophysin like 1
E2F transcription factor 1
inositol polyphosphate-1-phosphatase
FA complementation group D2
G-patch domain containing 1

transcription factor AP-2 epsilon
nuclear RNA export factor 1
nudix hydrolase 1
NIPA like domain containing 2
forkhead box M1
C-X-C motif chemokine ligand 8
serum response factor binding protein 1
golgi SNAP receptor complex member 1
phosphodiesterase 4D interacting protein
RAB, member of RAS oncogene family like 2B
DEAF1 transcription factor
OTU deubiquitinase with linear linkage specificity like
Rho guanine nucleotide exchange factor 11
solute carrier family 25 member 16
lipase maturation factor 2
RNA binding motif protein 48
alpha 1,3-galactosyltransferase 2
solute carrier family 25 member 25
BTB domain and CNC homolog 1
myeloid cell nuclear differentiation antigen
golgin A4
dystrobrevin beta
glycogen synthase kinase 3 beta
LTO1 maturation factor of ABCE1
phosphoinositide kinase, FYVE-type zinc finger containing
zinc finger protein 528
NLR family pyrin domain containing 7
PNKD metallo-beta-lactamase domain containing
GTP binding protein 2
zinc finger protein 226
NHS like 1
sushi, nidogen and EGF like domains 1
Ral GTPase activating protein catalytic subunit alpha 1
tribbles pseudokinase 1
cleavage and polyadenylation specific factor 4
tetratricopeptide repeat domain 21A
RNA polymerase I subunit B
FIG4 phosphoinositide 5-phosphatase
nuclear receptor subfamily 6 group A member 1
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein eta
ubiquitin specific peptidase 36
TRIO and F-actin binding protein
myeloid leukemia factor 2
cytochrome b-245 alpha chain
dynactin subunit 4
mitogen-activated protein kinase kinase 1

ATP synthase F1 subunit epsilon
solute carrier family 25 member 19
TGF-beta activated kinase 1 (MAP3K7) binding protein 2
small nuclear ribonucleoprotein U5 subunit 200
TraB domain containing
tenascin XB
sestrin 1
zinc finger protein 230
pre-mRNA processing factor 4B
novel protein
leucine rich repeats and immunoglobulin like domains 2
zinc finger AN1-type containing 5
SH3 domain containing 19
novel protein
zinc finger protein 85
ephrin A1
RBM14-RBM4 readthrough
microtubule associated protein 1 light chain 3 beta
exportin 7
leucine rich repeat containing 8 VRAC subunit A
nicotinate phosphoribosyltransferase
zinc finger protein 317
transcriptional repressor GATA binding 1
programmed cell death 11
transmembrane protein 120B
zinc finger protein 33A
janus kinase and microtubule interacting protein 2
palmitoyl-protein thioesterase 1
clathrin heavy chain
SAM and HD domain containing deoxynucleoside triphosphate triphosphohydrolase
protein tyrosine phosphatase receptor type O
lysine acetyltransferase 2B
nucleoporin 133
semaphorin 6C
trafficking protein particle complex 3 like
acylphosphatase 2
mitochondrial ribosomal protein S36
mitochondrial tRNA translation optimization 1
SH3 domain binding glutamate rich protein like 3
FES proto-oncogene, tyrosine kinase
FRY like transcription coactivator
semaphorin 3B
carboxylesterase 2
DNA polymerase delta interacting protein 2
ornithine decarboxylase antizyme 2
solute carrier family 43 member 1

SAC1 like phosphatidylinositide phosphatase
novel transcript
activating transcription factor 6
epidermal growth factor receptor pathway substrate 8
ariadne RBR E3 ubiquitin protein ligase 1
H2A clustered histone 8
CD1a molecule
sortilin related VPS10 domain containing receptor 2
scavenger receptor class B member 2
proteasome 26S subunit, non-ATPase 13
G protein subunit alpha 15
SIK family kinase 3
G protein-coupled receptor 135
ring finger protein 14
akirin 2
adaptor related protein complex 2 subunit sigma 1
novel protein
sterile alpha motif domain containing 4A
glycerophosphocholine phosphodiesterase 1
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5
uncoupling protein 2
acyl-CoA synthetase long chain family member 5
calmodulin binding transcription activator 1
zinc finger protein 597
H2A.Z variant histone 1
zinc finger CCCH-type containing 8
AMMECR1 like
MINDY lysine 48 deubiquitinase 1
coiled-coil domain containing 77
nudix hydrolase 9
proteoglycan 4
mitogen-activated protein kinase kinase 7
KAT8 regulatory NSL complex subunit 2
HIV-1 Tat interactive protein 2
Rho GTPase activating protein 35
lectin, mannose binding 2
mitogen-activated protein kinase kinase kinase 9
granzyme B
vav guanine nucleotide exchange factor 1
heterogeneous nuclear ribonucleoprotein R
ADAM metalloproteinase with thrombospondin type 1 motif 13
scribble planar cell polarity protein
YLP motif containing 1
ArfGAP with GTPase domain, ankyrin repeat and PH domain 3
apolipoprotein M
divergent protein kinase domain 1A

aph-1 homolog B, gamma-secretase subunit
abhydrolase domain containing 10, depalmitoylase
novel protein
POC1 centriolar protein A
TATA-box binding protein
TLE family member 4, transcriptional corepressor
AE binding protein 2
neurofibromin 2
membrane associated guanylate kinase, WW and PDZ domain containing 3
ATPase H⁺ transporting V1 subunit B2
leucine rich repeat containing 34
forkhead box J3
claudin 9
zinc finger protein 485
vav guanine nucleotide exchange factor 3
phospholipase D family member 5
annexin A11
dpy-19 like C-mannosyltransferase 3
zinc finger protein 737
CDC42 effector protein 1
novel protein
serine and arginine rich splicing factor 5
interleukin 18
erythrocyte membrane protein band 4.1 like 4A
phosphatidylinositol-4-phosphate 5-kinase like 1
autophagy related 4D cysteine peptidase
ADP ribosylation factor like GTPase 16
legumain
ring finger protein 5
F-box and WD repeat domain containing 2
sorting nexin 19
zinc finger CCCH-type containing 18
transforming growth factor beta induced
cysteine and serine rich nuclear protein 2
TATA-box binding protein associated factor 5
casein kinase 1 epsilon
mono-ADP ribosylhydrolase 2
zinc finger protein 461
carboxypeptidase vitellogenic like
exportin 5
staufen double-stranded RNA binding protein 1
transient receptor potential cation channel subfamily V member 1
KISS1 receptor
alpha tubulin acetyltransferase 1
PYD and CARD domain containing
cortactin

WW domain containing oxidoreductase
villin 1
COMM domain containing 5
mannosidase alpha class 1A member 1
kinesin family member 20A
ras homolog family member A
fibrillin 2
cilia and flagella associated protein 77
thioredoxin like 4A
Kruppel like factor 16
golgin A3
dynamin 2
GTPase, IMAP family member 4
protein O-mannosyltransferase 1
BBX high mobility group box domain containing
glycolipid transfer protein
perforin 1
1-aminocyclopropane-1-carboxylate synthase homolog (inactive)
NIMA related kinase 6
eukaryotic translation initiation factor 4E nuclear import factor 1
nucleoporin 188
1-acylglycerol-3-phosphate O-acyltransferase 1
inositol polyphosphate-5-phosphatase E
novel transcript
ELOVL fatty acid elongase 7
ATP synthase mitochondrial F1 complex assembly factor 2
copine 5
MLLT6, PHD finger containing
pyruvate dehydrogenase kinase 2
interleukin enhancer binding factor 3
NADH:ubiquinone oxidoreductase complex assembly factor 6
zinc finger protein 385C
interleukin 18 receptor accessory protein
Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4
SH2 domain containing 3C
procollagen C-endopeptidase enhancer
actin related protein 2/3 complex subunit 2
BICD cargo adaptor 2
twist family bHLH transcription factor 2
interleukin 6 receptor
zinc finger protein 430
TBC1 domain family member 3L
XK related 6
Rho related BTB domain containing 1
capping actin protein of muscle Z-line subunit beta
fibronectin type III and SPRY domain containing 1

sodium channel modifier 1
V-set pre-B cell surrogate light chain 3
integrator complex subunit 1
WD repeat domain 4
euchromatic histone lysine methyltransferase 1
beta 3-glucosyltransferase
transmembrane protein 119
AKT serine/threonine kinase 2
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
integrin subunit beta 5
chromosome 19 open reading frame 71
acid phosphatase 1
inversin
SEC11 homolog C, signal peptidase complex subunit
phosphoribosyl transferase domain containing 1
RAB11A, member RAS oncogene family
cyclin A2
transmembrane protein 70
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1
V-set and transmembrane domain containing 1
ectonucleoside triphosphate diphosphohydrolase 7
cleavage and polyadenylation specific factor 1
ATP/GTP binding protein like 5
CLN8 transmembrane ER and ERGIC protein
SMAD family member 5
zinc finger and SCAN domain containing 29
mitochondrial fission regulator 1
zinc finger DHHC-type palmitoyltransferase 7
vascular endothelial growth factor B
PHD finger protein 20 like 1
MAF bZIP transcription factor
charged multivesicular body protein 1A
chromosome 1 open reading frame 198
semaphorin 6B
schlafen family member 14
presenilin 1
zinc finger protein 106
lysosomal protein transmembrane 4 alpha
protein kinase D1
NDRG family member 2
kinesin family binding protein
interferon related developmental regulator 1
zinc finger protein 300
ADAMTS like 5
Rho/Rac guanine nucleotide exchange factor 2
ArfGAP with GTPase domain, ankyrin repeat and PH domain 2

interferon induced protein 44 like
N-alpha-acetyltransferase 35, NatC auxiliary subunit
galectin 1
DnaJ heat shock protein family (Hsp40) member C30
ceramide synthase 5
chromodomain helicase DNA binding protein 4
protein tyrosine phosphatase non-receptor type 12
KIAA0040
zinc finger MYND-type containing 10
DNA damage regulated autophagy modulator 2
nuclear envelope integral membrane protein 1
RUN domain containing 1
family with sequence similarity 8 member A1
zinc finger protein 251
guanylate binding protein family member 6
SLIT-ROBO Rho GTPase activating protein 2
SEC62 homolog, preprotein translocation factor
interacts with SUPT6H, CTD assembly factor 1
tripartite motif containing 9
retinal pigment epithelium-derived rhodopsin homolog
MCC regulator of WNT signaling pathway
high mobility group nucleosomal binding domain 4
tetratricopeptide repeat domain 13
chromosome 20 open reading frame 194
ATPase H⁺ transporting V0 subunit a2
coiled-coil domain containing 68
prostaglandin E receptor 4
tetratricopeptide repeat domain 19
mitogen-activated protein kinase kinase kinase kinase 1
tubulin alpha 1c
PDGFA associated protein 1
PH domain and leucine rich repeat protein phosphatase 2
nischarin
lysine acetyltransferase 6B
netrin G1
general transcription factor IIA subunit 2
electron transfer flavoprotein dehydrogenase
ZFP82 zinc finger protein
zinc finger protein 470
signal peptide peptidase like 2B
peroxisomal biogenesis factor 13
NBPF member 10
thyroid hormone receptor interactor 11
ATP binding cassette subfamily F member 3
novel transcript
zinc finger and AT-hook domain containing

eukaryotic translation initiation factor 3 subunit A
interleukin 10
BTG anti-proliferation factor 2
solute carrier family 30 member 6
novel protein
ribosomal protein S12
kelch like family member 12
ubiquitin conjugating enzyme E2 C
major facilitator superfamily domain containing 8
zinc finger C2HC-type containing 1A
spexin hormone
endothelial cell adhesion molecule
nucleic acid binding protein 1
novel protein
integrator complex subunit 10
arrestin domain containing 4
adenylate kinase 8
apolipoprotein L4
beta-transducin repeat containing E3 ubiquitin protein ligase
guided entry of tail-anchored proteins factor 3, ATPase
mbt domain containing 1
poly(ADP-ribose) glycohydrolase
ubiquitin conjugating enzyme E2 G1
NFKB inhibitor delta
methionyl aminopeptidase 1
RNF103-CHMP3 readthrough
solute carrier family 27 member 2
pre T cell antigen receptor alpha
nucleoporin 42
homer scaffold protein 3
paraoxonase 2
terminal uridylyl transferase 4
zinc finger protein 785
anoctamin 5
actin related protein 2
potassium voltage-gated channel subfamily C member 3
AT-rich interaction domain 3B
claudin domain containing 2
family with sequence similarity 71 member F2
G-patch domain containing 8
solute carrier family 20 member 2
TATA-box binding protein associated factor, RNA polymerase I subunit D
solute carrier family 38 member 10
BUB1 mitotic checkpoint serine/threonine kinase B
pleckstrin homology domain containing B1
mitochondrial ribosomal protein L28

tumor protein p63 regulated 1
CD24 molecule
CDP-diacylglycerol--inositol 3-phosphatidyltransferase
GTPase activating Rap/RanGAP domain like 3
zinc finger protein 195
ADP ribosylation factor like GTPase 14 effector protein
aldehyde dehydrogenase 3 family member B1
nicotinamide nucleotide adenylyltransferase 3
zinc finger protein 789
solute carrier family 15 member 3
OTU deubiquitinase 3
dipeptidyl peptidase 8
dynein light chain roadblock-type 1
chromosome alignment maintaining phosphoprotein 1
cerebellin 3 precursor
required for excision 1-B domain containing
gon-4 like
CFAP97 domain containing 2
GC-rich promoter binding protein 1
nucleoporin 98 and 96 precursor
BAR/IMD domain containing adaptor protein 2
methionine sulfoxide reductase A
homeodomain interacting protein kinase 3
solute carrier family 4 member 7
novel protein
phospholipase C like 2
semaphorin 5A
solute carrier family 25 member 11
citramalyl-CoA lyase
leucine rich repeat containing 32
FCH and double SH3 domains 2
post-GPI attachment to proteins phospholipase 3
ELMO domain containing 3
MON2 homolog, regulator of endosome-to-Golgi trafficking
DEP domain containing 1
FAM3 metabolism regulating signaling molecule C
tet methylcytosine dioxygenase 2
BUD23 rRNA methyltransferase and ribosome maturation factor
serine carboxypeptidase 1
C-C motif chemokine ligand 3 like 3
endoplasmic reticulum to nucleus signaling 1
AKT serine/threonine kinase 3
FAT atypical cadherin 4
small integral membrane protein 20
centromere protein M
CDK5 regulatory subunit associated protein 2

triggering receptor expressed on myeloid cells like 4
pejvakin
triosephosphate isomerase 1
cytochrome P450 family 2 subfamily R member 1
torsin 1A interacting protein 2
importin 5
SET domain containing 2, histone lysine methyltransferase
IQ motif containing B1
NFKB inhibitor beta
ankyrin repeat domain 52
hes family bHLH transcription factor 6
ATP binding cassette subfamily D member 4
nucleoporin 85
chromosome 11 open reading frame 24
family with sequence similarity 89 member A
FLII actin remodeling protein
neuropilin and tolloid like 2
U2 small nuclear RNA auxiliary factor 1
oxysterol binding protein like 5
mediator complex subunit 16
methyltransferase like 22
LY6/PLAUR domain containing 3
tetratricopeptide repeat and ankyrin repeat containing 1
C-type lectin domain family 1 member B
sorting nexin 5
TNF receptor superfamily member 18
bone morphogenetic protein receptor type 2
T cell immune regulator 1, ATPase H⁺ transporting V0 subunit a3
ubiquitin like 5
TSPY like 1
histone deacetylase 5
Ras related GTP binding A
leptin receptor overlapping transcript like 1
dual specificity phosphatase 10
multiple EGF like domains 11
inosine triphosphatase
TNF receptor superfamily member 10a
scaffold attachment factor B
PWWP domain containing 2A
transmembrane protein 39A
cilia and flagella associated protein 97
radial spoke head 14 homolog
chromosome 21 open reading frame 58
WD repeat domain 70
family with sequence similarity 120A opposite strand
Rho guanine nucleotide exchange factor 19

eukaryotic translation initiation factor 2 alpha kinase 4
zinc finger MYND-type containing 11
frizzled class receptor 1
oxysterol binding protein like 9
CDGSH iron sulfur domain 2
eukaryotic translation initiation factor 2 alpha kinase 3
COPI coat complex subunit alpha
sirtuin 6
serine and arginine rich splicing factor 9
MAD2L1 binding protein
interleukin 4
dishevelled segment polarity protein 2
zinc finger and BTB domain containing 47
RAB3A interacting protein
BCL2 associated agonist of cell death
ankyrin repeat domain 23
cochlin
tetratricopeptide repeat domain 28
F-box protein 41
beclin 1
ras homolog family member Q
mutS homolog 6
NADH:ubiquinone oxidoreductase subunit A2
eukaryotic translation initiation factor 2B subunit alpha
KIAA1328
H1.10 linker histone
collagen type X alpha 1 chain
WD repeat containing planar cell polarity effector
RHEB like 1
antizyme inhibitor 2
GTP binding protein 1
DDB1 and CUL4 associated factor 17
amyloid beta precursor protein binding family A member 3
golgin A8 family member A
oxysterol binding protein like 3
desmocollin 1
lysophosphatidic acid receptor 2
pannexin 2
nucleoporin 210
protein phosphatase 1 regulatory subunit 16B
nuclear receptor binding protein 2
DNA polymerase gamma 2, accessory subunit
ITPRIP like 1
tau tubulin kinase 2
PR/SET domain 4
hyaluronan and proteoglycan link protein 3

splicing factor SWAP
kinesin family member 3A
ATP binding cassette subfamily C member 1
host cell factor C1 regulator 1
erythrocyte membrane protein band 4.1 like 3
eukaryotic translation initiation factor 4E binding protein 2
zinc finger protein 736
calmodulin-lysine N-methyltransferase
RAB3A, member RAS oncogene family
zinc finger DHHC-type containing 1
RAB12, member RAS oncogene family
uridine-cytidine kinase 1 like 1
ASXL transcriptional regulator 1
forkhead box K2
ATPase phospholipid transporting 8B1
cadherin 5
methyltransferase like 21A
phospholipase A2 group X11A
heparan sulfate proteoglycan 2
pericentriolar material 1
5'-nucleotidase domain containing 1
chromosome 1 open reading frame 54
BMS1 ribosome biogenesis factor
pterin-4 alpha-carbinolamine dehydratase 2
phospholipase A and acyltransferase 5
serine/arginine repetitive matrix 2
importin 8
dihydropyrimidine dehydrogenase
SS18L1 subunit of BAF chromatin remodeling complex
exocyst complex component 6B
small G protein signaling modulator 1
DNA topoisomerase II alpha
high mobility group 20A
N-alpha-acetyltransferase 40, NatD catalytic subunit
protein tyrosine phosphatase receptor type G
exosome component 10
metallothionein 1E
iron responsive element binding protein 2
tRNA isopentenyltransferase 1
PARP1 binding protein
tetratricopeptide repeat domain 39B
midasin AAA ATPase 1
nucleolin
ATM serine/threonine kinase
RNA binding motif protein 11
complement C3

RELB proto-oncogene, NF-kB subunit
C-X-C motif chemokine ligand 9
nuclear factor kappa B subunit 2
RAR related orphan receptor C
sarcospan
TNF receptor superfamily member 13B
Fc receptor like 5
STEAP family member 1B
ring finger protein 207
B cell linker
Fc receptor like A
cordon-bleu WH2 repeat protein like 1
BLK proto-oncogene, Src family tyrosine kinase
oxysterol binding protein like 10
B cell scaffold protein with ankyrin repeats 1
regulator of hemoglobinization and erythroid cell expansion
reticulon 2
collagen type IV alpha 3 chain
G protein-coupled receptor 84
sialic acid binding Ig like lectin 6
solute carrier family 38 member 11
SEL1L family member 3
tetraspanin 13
Pim-3 proto-oncogene, serine/threonine kinase
DENN domain containing 5B
collagen type IV alpha 4 chain
nuclear factor kappa B subunit 1
sodium voltage-gated channel alpha subunit 3
zinc finger CCCH-type containing 12A
paired box 5
U6 snRNA biogenesis phosphodiesterase 1
kelch like family member 14
CD22 molecule
leukocyte immunoglobulin like receptor A5
pleckstrin homology and RhoGEF domain containing G7
Spi-B transcription factor
pro-apoptotic WT1 regulator
toll like receptor 5
mitogen-activated protein kinase kinase kinase 20
prolylcarboxypeptidase
POU class 2 homeobox associating factor 1
adrenomedullin
intercellular adhesion molecule 1
synaptopodin
ST3 beta-galactoside alpha-2,3-sialyltransferase 2
adhesion G protein-coupled receptor E1

ADAM metallopeptidase domain 28
Janus kinase 3
Fc fragment of IgE receptor Ig
Ral GEF with PH domain and SH3 binding motif 2
heparanase
tetraspanin 3
spermatogenesis and centriole associated 1
G protein subunit gamma 7
hexokinase 3
AF4/FMR2 family member 3
solute carrier family 2 member 3
LARGE xylosyl- and glucuronyltransferase 1
alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase
RAB10, member RAS oncogene family
CD177 molecule
TNF receptor superfamily member 13C
multiple C2 and transmembrane domain containing 1
myristoylated alanine rich protein kinase C substrate
leukocyte receptor tyrosine kinase
major histocompatibility complex, class II, DO beta
TNF alpha induced protein 6
phospholipid phosphatase 5
prostaglandin I2 receptor
MAX dimerization protein 3
niban apoptosis regulator 3
interleukin 1 beta
Fc receptor like 2
kringle containing transmembrane protein 1
calpain 13
hydrogen voltage gated channel 1
osteoclast associated Ig-like receptor
basic helix-loop-helix family member e41
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1N (putative)
butyrophilin like 9
myelin protein zero like 1
EBF transcription factor 1
NFKB inhibitor epsilon
lamin B1
BAF chromatin remodeling complex subunit BCL11A
serine palmitoyltransferase small subunit B
angiopoietin 1
GRAM domain containing 1C
protein kinase C delta
INSC spindle orientation adaptor protein
FAM20A golgi associated secretory pathway pseudokinase
DNA damage induced apoptosis suppressor

cystatin F
coronin 2B
flotillin 1
angiotensin II receptor associated protein
chromosome 1 open reading frame 61
cadherin EGF LAG seven-pass G-type receptor 1
CEA cell adhesion molecule 3
S100 calcium binding protein A12
CD72 molecule
monooxygenase DBH like 1
haptoglobin
Fc fragment of IgA receptor
glycoprotein M6A
C-type lectin like 1
cytokine dependent hematopoietic cell linker
F-box and leucine rich repeat protein 5
oxidized low density lipoprotein receptor 1
FGR proto-oncogene, Src family tyrosine kinase
CD1c molecule
B and T lymphocyte associated
S100 calcium binding protein A9
CXXC finger protein 5
leukotriene A4 hydrolase
neuropilin and tolloid like 1
mast cell expressed membrane protein 1
BCL3 transcription coactivator
syndecan 4
transcription factor 4
5-oxoprolinase, ATP-hydrolysing
RUNX family transcription factor 2
annexin A3
KIT proto-oncogene, receptor tyrosine kinase
cathelicidin antimicrobial peptide
complement C3a receptor 1
aldehyde dehydrogenase 2 family member
secretory carrier membrane protein 5
syndecan 2
myotubularin related protein 11
C-type lectin domain containing 9A
steroid receptor RNA activator 1
leukocyte immunoglobulin like receptor A6
EMAP like 6
interleukin 1 receptor antagonist
membrane spanning 4-domains A1
fms related receptor tyrosine kinase 3
novel protein

TNF alpha induced protein 3
peptidyl arginine deiminase 2
docking protein 4
growth differentiation factor 7
pleckstrin
prepronociceptin
alkaline phosphatase, biomineralization associated
kinase non-catalytic C-lobe domain containing 1
solute carrier family 26 member 8
X-C motif chemokine receptor 1
folate receptor gamma
laminin subunit alpha 5
nibrin
asialoglycoprotein receptor 2
ral guanine nucleotide dissociation stimulator like 4
collagen type XVII alpha 1 chain
beta-1,3-galactosyltransferase 2
solute carrier family 2 member 6
ficolin 1
metal regulatory transcription factor 1
GRAM domain containing 1A
TNF receptor associated factor 5
resistin
solute carrier family 9 member A1
DNA damage regulated autophagy modulator 1
bone marrow stromal cell antigen 1
HCK proto-oncogene, Src family tyrosine kinase
neuritins 1
Rap guanine nucleotide exchange factor 5
translocator protein
TNF receptor associated factor 3
peptidoglycan recognition protein 1
zinc finger and SCAN domain containing 9
chromosome 19 open reading frame 38
interleukin 17 receptor E
C-type lectin domain family 4 member F
glutamyl-peptide cyclotransferase
interferon regulatory factor 8
coagulation factor V
ATP binding cassette subfamily B member 4
matrix metalloproteinase 9
coiled-coil domain containing 50
CD44 molecule (Indian blood group)
mast cell immunoglobulin like receptor 1
Rho guanine nucleotide exchange factor 4
collagen type IX alpha 2 chain

N-terminal EF-hand calcium binding protein 1
matrix metalloproteinase 8
prokineticin 2
E2F transcription factor 5
N-ribosyldihydronicotinamide:quinone reductase 2
tumor protein p53 inducible protein 11
sphingomyelin phosphodiesterase acid like 3A
NLR family CARD domain containing 4
JunB proto-oncogene, AP-1 transcription factor subunit
lysophosphatidylcholine acyltransferase 3
S100 calcium binding protein A8
nuclear factor, erythroid 2 like 3
glyceraldehyde-3-phosphate dehydrogenase
transmembrane protein 176A
TNFAIP3 interacting protein 1
sialic acid binding Ig like lectin 9
G0/G1 switch 2
SH3KBP1 binding protein 1
CD180 molecule
docking protein 7
ADAM metalloproteinase domain 8
fermitin family member 3
MET transcriptional regulator MACC1
polypeptide N-acetylgalactosaminyltransferase 14
protein tyrosine phosphatase non-receptor type 13
cysteine rich secretory protein 3
neurotensin receptor 1
T cell leukemia/lymphoma 1A
immediate early response 3
glycogenin 1
phospholipase A2 group VII
peptidase inhibitor 3
lymphotoxin beta
S100 calcium binding protein A6
thyroid hormone receptor beta
TLE family member 1, transcriptional corepressor
glycogen phosphorylase L
solute carrier family 4 member 10
ADAM metalloproteinase domain 12
target of myb1 membrane trafficking protein
glucosylceramidase beta
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7
BH3 interacting domain death agonist
laminin subunit gamma 1
maestro heat like repeat family member 6
zinc finger protein 438

solute carrier family 2 member 14
NFKB inhibitor zeta
serpin family B member 1
LIM domain kinase 2
interferon gamma receptor 2
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
histone deacetylase 9
transmembrane O-mannosyltransferase targeting cadherins 1
CD19 molecule
ArfGAP with GTPase domain, ankyrin repeat and PH domain 3
C-C motif chemokine ligand 23
HLF transcription factor, PAR bZIP family member
minichromosome maintenance complex binding protein
copine 7
translocation associated membrane protein 2
mannose receptor C-type 1
integrin subunit beta 2
RELT like 1
tectonin beta-propeller repeat containing 2
EF-hand domain family member D2
fatty acid 2-hydroxylase
family with sequence similarity 200 member B
syndecan 1
interleukin 4 receptor
CD79a molecule
leukocyte immunoglobulin like receptor A4
lactate dehydrogenase A
steroid 5 alpha-reductase 3
tudor domain containing 9
neutrophil cytosolic factor 4
transmembrane protein 176B
rabphilin 3A
endoplasmic reticulum to nucleus signaling 1
acetyl-CoA acyltransferase 1
Ras association domain family member 6
dysferlin
semaphorin 3C
granulin precursor
immunoglobulin lambda like polypeptide 5
major histocompatibility complex, class II, DO alpha
heparan sulfate-glucosamine 3-sulfotransferase 1
bactericidal permeability increasing protein
piwi like RNA-mediated gene silencing 4
adhesion G protein-coupled receptor G3
olfactomedin 4
pyruvate kinase M1/2

enolase 1
microtubule associated monooxygenase, calponin and LIM domain containing 3
lipocalin 2
BCL6 transcription repressor
vanin 2
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3
carbohydrate sulfotransferase 2
mitogen-activated protein kinase 14
coenzyme Q2, polyprenyltransferase
SEC22 homolog B, vesicle trafficking protein (gene/pseudogene)
lactotransferrin
flotillin 2
docking protein 3
mitotic arrest deficient 2 like 2
ST3 beta-galactoside alpha-2,3-sialyltransferase 4
RAB30, member RAS oncogene family
USP6 N-terminal like
tumor protein D52
granule associated Rac and RHOG effector 1
calcium voltage-gated channel auxiliary subunit beta 4
acyloxyacyl hydrolase
cysteine rich secretory protein 2
cannabinoid receptor 2
serpin family B member 10
dual specificity phosphatase 3
adaptor related protein complex 3 subunit beta 2
tyrosylprotein sulfotransferase 1
signal transducing adaptor family member 1
CD14 molecule
cysteine rich transmembrane module containing 1
inhibitor of nuclear factor kappa B kinase subunit epsilon
glycerol-3-phosphate acyltransferase 3
derlin 3
Ras protein specific guanine nucleotide releasing factor 1
spermatogenesis associated serine rich 2
small ArfGAP2
amyloid beta precursor protein binding family A member 3
protein tyrosine phosphatase receptor type K
tetratricopeptide repeat domain 9
phosphogluconate dehydrogenase
interferon lambda receptor 1
solute carrier family 12 member 3
calcineurin binding protein 1
WDFY family member 4
PHD finger protein 21A
ribonuclease A family member 3

kinesin family member 27
tectonic family member 1
galectin 2
glutaminyl-tRNA amidotransferase subunit QRSL1
leukocyte immunoglobulin like receptor B2
cochlin
alanyl aminopeptidase, membrane
elastase, neutrophil expressed
caspase recruitment domain family member 6
plasminogen activator, urokinase receptor
muscle RAS oncogene homolog
chromosome 11 open reading frame 80
integrin subunit beta 4
protein kinase C and casein kinase substrate in neurons 1
beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase
nuclear prelamin A recognition factor
photoreceptor disc component
sorcin
signal induced proliferation associated 1 like 3
EH domain containing 1
hydroxycarboxylic acid receptor 3
regenerating family member 4
zinc finger protein 274
cyclin and CBS domain divalent metal cation transport mediator 4
DnaJ heat shock protein family (Hsp40) member C5
MYD88 innate immune signal transduction adaptor
RCSD domain containing 1
dishevelled binding antagonist of beta catenin 1
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta
prostate transmembrane protein, androgen induced 1
regulator of G protein signaling 1
whirlin
MDM2 proto-oncogene
integrin subunit alpha M
dehydrogenase/reductase 13
ICOS ligand
brain protein I3
insulin like 3
vav guanine nucleotide exchange factor 2
lysozyme
cathepsin G
TAFA chemokine like family member 2
serpin family A member 1
ribonuclease A family member 2
NLR family pyrin domain containing 1
UDP glycosyltransferase 8

vasodilator stimulated phosphoprotein
zinc finger protein 860
GLI pathogenesis related 2
microsomal glutathione S-transferase 1
major histocompatibility complex, class II, DQ alpha 1
syntaxin binding protein 2
solute carrier family 37 member 3
zinc finger and BTB domain containing 32
chloride intracellular channel 1
zinc finger DHHC-type palmitoyltransferase 19
semaphorin 4A
ZFP36 ring finger protein like 1
synoviolin 1
zinc finger protein 66
olfactory receptor family 13 subfamily A member 1
BLCAP apoptosis inducing factor
G protein regulated inducer of neurite outgrowth 1
adipocyte plasma membrane associated protein
tenascin R
calcium voltage-gated channel subunit alpha1 E
plasminogen activator, urokinase
SRSF protein kinase 1
collagen type V alpha 3 chain
dystrotelin
defensin alpha 4
V-set and transmembrane domain containing 1
translocase of outer mitochondrial membrane 40 like
solute carrier family 17 member 9
adhesion G protein-coupled receptor E2
transcobalamin 1
RAS related
CD200 molecule
solute carrier family 35 member F2
zinc finger protein 532
myosin X
zinc finger protein 814
GDNF family receptor alpha 2
thymidine phosphorylase
oncostatin M
potassium inwardly rectifying channel subfamily J member 15
zinc finger protein 316
C-type lectin domain family 4 member G
kinesin family member 5C
ankyrin repeat and ubiquitin domain containing 1
CD79b molecule
hedgehog acyltransferase

spermatid perinuclear RNA binding protein
maltase-glucoamylase 2 (putative)
zinc finger protein 33A
kinesin family member 3C
BICD cargo adaptor 1
interleukin 7
junction adhesion molecule like
myosin VC
ADAM metallopeptidase domain 9
zinc finger and BTB domain containing 7B
dishevelled associated activator of morphogenesis 2
myosin ID
EPH receptor A2
brain abundant membrane attached signal protein 1
tropomyosin 3
myosin phosphatase Rho interacting protein
solute carrier family 30 member 5
cytochrome b-245 chaperone 1
solute carrier family 51 subunit alpha
marginal zone B and B1 cell specific protein
hook microtubule tethering protein 2
cyclin L2
coiled-coil serine rich protein 1
calpastatin
NEDD4 binding protein 1
PX domain containing 1
Spi-1 proto-oncogene
heat shock protein family A (Hsp70) member 12A
ATPase secretory pathway Ca²⁺ transporting 2
RAB32, member RAS oncogene family
interleukin 1 receptor accessory protein
guanylate cyclase activator 1B
FERM, ARH/RhoGEF and pleckstrin domain protein 2
sialic acid binding Ig like lectin 5
phospholipase B1
family with sequence similarity 151 member B
quiescin sulfhydryl oxidase 2
cytoskeleton associated protein 4
TBC1 domain family member 8
stromal antigen 3
RAS guanyl releasing protein 3
adenosine monophosphate deaminase 3
CD48 molecule
ADP ribosylation factor like GTPase 6 interacting protein 5
elastin microfibril interfacier 2
transmembrane protein 156

transmembrane protein 253
ATP binding cassette subfamily C member 3
fibrillin 1
solute carrier family 46 member 2
ectodermal-neural cortex 1
capping actin protein, gelsolin like
period circadian regulator 3
cyclin D3
integral membrane protein 2C
solute carrier family 23 member 2
galectin 12
zinc finger protein 318
TEK receptor tyrosine kinase
LIM domains containing 1
Josephin domain containing 1
G protein subunit alpha 15
EF-hand domain containing 1
beta-ureidopropionase 1
ghrelin and obestatin prepropeptide
multiple C2 and transmembrane domain containing 2
solute carrier family 16 member 3
EH domain binding protein 1 like 1
golgin A3
brain enriched myelin associated protein 1
interleukin 27 receptor subunit alpha
Fc receptor like 1
peptidyl arginine deiminase 4
acyl-CoA binding domain containing 3
calcium/calmodulin dependent protein kinase kinase 2
zinc finger protein 319
cathepsin Z
C-type lectin domain containing 17A
zinc finger protein 641
creatine kinase B
perilipin 3
TNF receptor superfamily member 11a
switching B cell complex subunit SWAP70
cytidine deaminase
serine/threonine/tyrosine kinase 1
5'-3' exoribonuclease 2
tumor protein p53 inducible protein 3
G protein-coupled receptor kinase 5
endothelin converting enzyme 1
triggering receptor expressed on myeloid cells like 4
copine 5
afadin, adherens junction formation factor

alkaline ceramidase 1
aquaporin 9
prostaglandin E receptor 4
protein kinase, DNA-activated, catalytic subunit
zinc finger protein 701
P2RX5-TAX1BP3 readthrough (NMD candidate)
CEA cell adhesion molecule 6
anaphase promoting complex subunit 15
SH3 domain binding protein 4
long intergenic non-protein coding RNA 2218
chromosome 10 open reading frame 105
katanin catalytic subunit A1 like 1
delta 4-desaturase, sphingolipid 1
acyl-CoA synthetase long chain family member 1
C-type lectin domain family 4 member D
fatty acid desaturase 2
solute carrier family 25 member 44
desmoplakin
class II major histocompatibility complex transactivator
CD300e molecule
ETS transcription factor ERG
S100 calcium binding protein A11
basic helix-loop-helix family member a15
DENN domain containing 5A
transmembrane protein 92
myocyte enhancer factor 2C
UTP6 small subunit processome component
ring finger protein 122
zinc finger protein 117
kynureninase
radial spoke head component 9
xenotropic and polytropic retrovirus receptor 1
ADP ribosylation factor like GTPase 8A
GRB2 associated binding protein 1
NLR family member X1
SLIT-ROBO Rho GTPase activating protein 2B
lipin 2
glutathione S-transferase omega 1
CD82 molecule
5'-aminolevulinate synthase 1
defensin alpha 3
orosomucoid 1
leukocyte immunoglobulin like receptor B3
synergin gamma
vimentin
reticulon 3

ribosomal protein S6 kinase A5
ADP ribosylation factor GTPase activating protein 3
PRELI domain containing 1
ATPase phospholipid transporting 9A (putative)
procollagen C-endopeptidase enhancer 2
signal peptide peptidase like 2A
solute carrier family 35 member E3
strawberry notch homolog 2
shisa family member 8
glycine amidinotransferase
zinc finger protein 469
hyaluronan and proteoglycan link protein 3
G protein-coupled receptor class C group 5 member D
TNF alpha induced protein 8 like 1
gelsolin
BCL6 antisense 1
out at first homolog
RAD23 homolog B, nucleotide excision repair protein
UPF1 RNA helicase and ATPase
TAP binding protein
sorting nexin 18
follistatin like 3
PHD finger protein 24
proliferation and apoptosis adaptor protein 15
nei like DNA glycosylase 1
leukocyte specific transcript 1
LY6/PLAUR domain containing 6B
CEA cell adhesion molecule 8
collagen beta(1-O)galactosyltransferase 1
C-type lectin domain containing 5A
cytochrome p450 oxidoreductase
phospholipid scramblase 1
methyltransferase like 9
RNA polymerase II subunit C
solute carrier family 44 member 3
S100 calcium binding protein A4
SWI/SNF related, matrix associated, actin dependent regulator of chromatin subfam
discs large MAGUK scaffold protein 4
TNF superfamily member 15
growth arrest and DNA damage inducible beta
dimethylarginine dimethylaminohydrolase 2
membrane associated ring-CH-type finger 3
neuregulin 1
myotubularin related protein 12
ArfGAP with SH3 domain, ankyrin repeat and PH domain 1
caspase 4

dermatan sulfate epimerase like
mitogen-activated protein kinase kinase kinase 9
FCH and double SH3 domains 2
NFKB inhibitor beta
kinesin family member 1B
clathrin heavy chain like 1
Rho related BTB domain containing 2
SEC61 translocon subunit alpha 2
spermatogenesis associated 6
scavenger receptor family member expressed on T cells 1
formyl peptide receptor 1
exosome component 4
heat shock protein family A (Hsp70) member 1A
CCAAT enhancer binding protein alpha
Rho GTPase activating protein 30
transmembrane protein 185B
RPGR interacting protein 1
RAB27A, member RAS oncogene family
solute carrier family 23 member 1
phospholipase B domain containing 1
capping actin protein of muscle Z-line subunit alpha 1
adaptor related protein complex 3 subunit sigma 2
family with sequence similarity 214 member A
novel transcript, TMEM14B-SYCP2L readthrough
thioredoxin interacting protein
immunoglobulin like domain containing receptor 1
GEN1 Holliday junction 5' flap endonuclease
pleckstrin homology and RhoGEF domain containing G1
homer scaffold protein 3
CDC42 effector protein 3
chromatin licensing and DNA replication factor 1
single stranded DNA binding protein 2
Wnt family member 16
free fatty acid receptor 2
cell adhesion molecule 4
LDL receptor related protein associated protein 1
solute carrier family 39 member 8
G protein-coupled receptor class C group 5 member B
late endosomal/lysosomal adaptor, MAPK and MTOR activator 1
suppressor of cytokine signaling 3
influenza virus NS1A binding protein
N-acetylneuraminate synthase
myeloperoxidase
annexin A5
cytochrome P450 family 2 subfamily E member 1
SRY-box transcription factor 5

nudix hydrolase 5
transcriptional repressor GATA binding 1
perilipin 2
BTG3 associated nuclear protein
cathepsin H
scavenger receptor class F member 1
FOS like 2, AP-1 transcription factor subunit
novel transcript
torsin family 4 member A
hydroxycarboxylic acid receptor 2
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1M
1-acylglycerol-3-phosphate O-acyltransferase 2
CUGBP Elav-like family member 2
acetyl-CoA acyltransferase 2
novel protein
N-deacetylase and N-sulfotransferase 3
Fc fragment of IgE receptor II
fucosyltransferase 7
tripartite motif containing 27
BCAR3 adaptor protein, NSP family member
lysyl oxidase like 1
phosphoinositide-3-kinase adaptor protein 1
reticulon 4
rhopilin associated tail protein 1 like
kelch like family member 5
lysosomal protein transmembrane 4 alpha
Yip1 domain family member 1
senataxin
solute carrier family 39 member 13
VAMP associated protein A
phosphoglucomutase 1
LHFPL tetraspan subfamily member 5
C9orf72-SMCR8 complex subunit
calpain 12
transmembrane immune signaling adaptor TYROBP
proline rich 14 like
THADA armadillo repeat containing
RAB20, member RAS oncogene family
kizuna centrosomal protein
deltex E3 ubiquitin ligase 4
chondroadherin
cytohesin 3
purinergic receptor P2Y2
guanylate cyclase 2D, retinal
ER degradation enhancing alpha-mannosidase like protein 1
galectin 1

plexin C1
family with sequence similarity 168 member B
Scm like with four mbt domains 1
sorting nexin 22
tigger transposable element derived 3
testis expressed 9
HtrA serine peptidase 3
pentraxin 3
LIM domain kinase 1
Rho GTPase activating protein 35
integrin linked kinase
alkaline ceramidase 3
nuclear GTPase, germinal center associated
serine incorporator 2
cornichon family AMPA receptor auxiliary protein 4
T cell-interacting, activating receptor on myeloid cells 1
actin related protein 1A
dehydrogenase/reductase 7
selectin L
ubiquitin conjugating enzyme E2 D1
EBP like
H2A.X variant histone
arrestin beta 2
ATP binding cassette subfamily A member 13
Tctex1 domain containing 1
homocysteine inducible ER protein with ubiquitin like domain 1
pericentriolar material 1
TEA domain transcription factor 2
zinc finger protein 329
NFKB inhibitor delta
SR-related CTD associated factor 4
Fc fragment of IgG receptor IIb
thrombospondin type laminin G domain and EAR repeats
protein kinase C zeta
glutamate ionotropic receptor NMDA type subunit associated protein 1
zinc finger protein 467
mannosidase alpha class 2B member 1
nuclear factor, erythroid 2
zinc finger protein 418
mitogen-activated protein kinase kinase 1
cell death inducing DFFA like effector b
paternally expressed 10
cytochrome c oxidase assembly factor 1 homolog
phosphatase domain containing paladin 1
C-X-C motif chemokine ligand 10
TEF transcription factor, PAR bZIP family member

glycolipid transfer protein
nudix hydrolase 16
ATPase H⁺ transporting V1 subunit C1
lymphocyte cytosolic protein 1
opioid related nociceptin receptor 1
homeobox C4
acidic nuclear phosphoprotein 32 family member A
methionine sulfoxide reductase B1
semaphorin 4D
TNF superfamily member 8
Fc fragment of IgG receptor IIa
tubulin beta 6 class V
cyclin dependent kinase inhibitor 2C
SWI5 dependent homologous recombination repair protein 1
toll like receptor 10
zyxin
BAI1 associated protein 3
NOP10 ribonucleoprotein
transketolase
asialoglycoprotein receptor 1
C-X3-C motif chemokine receptor 1
major facilitator superfamily domain containing 14B
lon peptidase 2, peroxisomal
myosin binding protein C3
CKLF like MARVEL transmembrane domain containing 3
carbonic anhydrase 4
ras homolog family member G
complement factor H
novel protein
troponin I2, fast skeletal type
triosephosphate isomerase 1
FKBP prolyl isomerase 1C
zinc finger protein 160
methenyltetrahydrofolate synthetase
inositol polyphosphate phosphatase like 1
CD36 molecule
novel protein
major histocompatibility complex, class II, DQ beta 1
LON peptidase N-terminal domain and ring finger 1
proteasome 20S subunit beta 3
proteinase 3
ribonuclease A family member k6
zinc finger protein 787
BTB domain containing 11
phospholipase A and acyltransferase 5
GTP cyclohydrolase 1

mevalonate kinase
zinc finger matrin-type 5
homeobox B2
capping actin protein of muscle Z-line subunit alpha 2
notch receptor 4
paxillin
RasGEF domain family member 1A
MAF bZIP transcription factor G
mitochondrial calcium uptake 1
sestrin 1
dual specificity phosphatase 10
DnaJ heat shock protein family (Hsp40) member B5
DOP1 leucine zipper like protein B
AT-rich interaction domain 1B
zinc finger and BTB domain containing 16
NADH:ubiquinone oxidoreductase core subunit S2
inositol-tetrakisphosphate 1-kinase
nucleus accumbens associated 1
zinc finger protein 609
FA complementation group D2
lunapark, ER junction formation factor
coiled-coil domain containing 9B
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha
oligodendrocyte myelin glycoprotein
selenoprotein T
synapsin III
ubiquitin associated protein 1
NFKB inhibitor alpha
ubiquitin conjugating enzyme E2 R2
NFKB inhibitor like 1
cathepsin A
TNF receptor superfamily member 21
serpin family B member 6
spermidine/spermine N1-acetyltransferase family member 2
regulating synaptic membrane exocytosis 3
TPD52 like 2
signaling lymphocytic activation molecule family member 1
mechanistic target of rapamycin kinase
H4 histone 16
vitamin D receptor
ADP ribosylation factor like GTPase 8B
SH3 binding domain protein 5 like
sodium channel modifier 1
solute carrier family 15 member 3
Wnt family member 10A
NADH:ubiquinone oxidoreductase complex assembly factor 6

SET binding protein 1
complement C1s
cystatin B
ubiquitin specific peptidase 24
novel protein
oxoeicosanoid receptor 1
late endosomal/lysosomal adaptor, MAPK and MTOR activator 5
syndecan binding protein
formin homology 2 domain containing 1
niban apoptosis regulator 2
signal peptidase complex subunit 2
inositol 1,4,5-trisphosphate receptor type 1
regulator of G protein signaling 19
CRACD like
WNK lysine deficient protein kinase 2
RNF103-CHMP3 readthrough
nicotinate phosphoribosyltransferase
fem-1 homolog C
solute carrier family 22 member 4
zinc finger FYVE-type containing 27
nurim
MORN repeat containing 1
RAS guanyl releasing protein 4
metaxin 1
cation channel sperm associated 1
TBC1 domain family member 9
ArfGAP with coiled-coil, ankyrin repeat and PH domains 1
prosaposin
cellular communication network factor 3
adenosine kinase
zinc finger protein 90
ISL LIM homeobox 2
poly(ADP-ribose) polymerase family member 15
tubulin alpha 1a
rabenosyn, RAB effector
CST telomere replication complex component 1
MTOR associated protein, eak-7 homolog
ELOVL fatty acid elongase 1
membrane spanning 4-domains A6A
IQ motif containing N
actin related protein 3
forkhead box N3
sodium voltage-gated channel beta subunit 1
GPN-loop GTPase 2
kazrin, periplakin interacting protein
azurocidin 1

zinc finger CCHC-type containing 7
pogo transposable element derived with ZNF domain
CD80 molecule
syntaxin 11
ornithine aminotransferase
androgen dependent TFPI regulating protein
proteasome 20S subunit alpha 1
chromosome 16 open reading frame 74
peripheral myelin protein 22
zinc finger protein 791
protein tyrosine phosphatase receptor type G
CAP-Gly domain containing linker protein 1
cofilin 1
RAB31, member RAS oncogene family
thioredoxin
H1.10 linker histone
SECIS binding protein 2
transcription factor 7 like 2
VPS41 subunit of HOPS complex
quinolinate phosphoribosyltransferase
immunoglobulin heavy variable 4-38-2-like
novel protein
phosphorylase kinase regulatory subunit beta
basic leucine zipper ATF-like transcription factor
coiled-coil domain containing 6
pre-mRNA processing factor 3
general transcription factor Ili
sorting nexin 9
TBC1 domain family member 2
CD63 molecule
zinc finger protein 85
zinc finger protein 224
cell division cycle 42
G protein signaling modulator 3
Rho GTPase activating protein 42
argonaute RISC catalytic component 3
potassium voltage-gated channel subfamily H member 8
baculoviral IAP repeat containing 6
G protein-coupled receptor 19
fucosyltransferase 8
C-type lectin domain containing 11A
phosphatidylinositol glycan anchor biosynthesis class G
activator of transcription and developmental regulator AUTS2
protein inhibitor of activated STAT 2
nicotinamide phosphoribosyltransferase
coronin 1A

ETS proto-oncogene 2, transcription factor
asparaginase and isoaspartyl peptidase 1
tyrosyl-DNA phosphodiesterase 2
forkhead box J3
cytochrome b-245 alpha chain
arachidonate 5-lipoxygenase
amyloid beta precursor protein binding family B member 1 interacting protein
calmin
protein kinase C epsilon
transmembrane protein 45B
protein phosphatase 4 regulatory subunit 2
lysophosphatidic acid receptor 1
protein phosphatase 1 regulatory subunit 18
cathepsin K
putative homeodomain transcription factor 2
adenosine A1 receptor
complement C3b/C4b receptor 1 (Knops blood group)
solute carrier family 5 member 9
thioredoxin domain containing 11
trio Rho guanine nucleotide exchange factor
proline rich coiled-coil 2B
zinc finger protein 35
dachshund family transcription factor 1
metallothionein 1F
EPM2A glucan phosphatase, laforin
Jun proto-oncogene, AP-1 transcription factor subunit
endoplasmic reticulum oxidoreductase 1 alpha
leukocyte immunoglobulin like receptor B1
transient receptor potential cation channel subfamily M member 2
dynactin subunit 2
chromosome 2 open reading frame 92
epithelial cell adhesion molecule
prostaglandin D2 receptor
FRAT regulator of WNT signaling pathway 2
Jupiter microtubule associated homolog 1
STEAP4 metalloredutase
DSN1 component of MIS12 kinetochore complex
VPS35 retromer complex component
ArfGAP with dual PH domains 1
golgin A7
beta-1,4-galactosyltransferase 5
ankyrin repeat domain 34B
BCL2 related protein A1
DnaJ heat shock protein family (Hsp40) member C3
signal transducer and activator of transcription 5B
collagen type V alpha 1 chain

methy-CpG binding domain protein 2
sorting nexin 20
family with sequence similarity 117 member B
coactosin like F-actin binding protein 1
jumonji and AT-rich interaction domain containing 2
N-acetylglucosamine kinase
serglycin
zinc finger protein 721
TNF receptor associated factor 4
galactokinase 1
tweety family member 2
Cdk5 and Abl enzyme substrate 1
ADP ribosylation factor like GTPase 11
phospholipase C delta 3
glycerol-3-phosphate dehydrogenase 1 like
oxysterol binding protein
migration and invasion inhibitory protein
microtubule crosslinking factor 1
bromodomain containing 1
pre-mRNA processing factor 8
small integral membrane protein 14
lin-7 homolog A, crumbs cell polarity complex component
Cas scaffold protein family member 4
caspase 8
YLP motif containing 1
Rho GTPase activating protein 25
ORAI calcium release-activated calcium modulator 2
ependymin related 1
TSC22 domain family member 4
zinc finger DHHC-type palmitoyltransferase 7
lectin, mannose binding 2
TATA-box binding protein associated factor 8
chromosome 8 open reading frame 88
protein phosphatase 1 regulatory subunit 3B
dehydrogenase/reductase 7B
aurora kinase A
calcium sensing receptor
lactamase beta
SET binding factor 2
serine carboxypeptidase 1
nuclear factor, interleukin 3 regulated
actin beta
Rac family small GTPase 2
carboxylesterase 2
UTP11 small subunit processome component
G protein subunit beta 2

caveolin 1
PDZ and LIM domain 7
coiled-coil-helix-coiled-coil-helix domain containing 5
sterol O-acyltransferase 2
novel protein, ZNRF2-LINC01176 readthrough
D-glutamate cyclase
PR/SET domain 1
kelch repeat and BTB domain containing 8
histone deacetylase 11
RHO family interacting cell polarization regulator 2
collagen type XIX alpha 1 chain
chondroitin sulfate synthase 1
protein tyrosine phosphatase receptor type E
transmembrane protein 101
solute carrier family 38 member 7
guanosine monophosphate reductase 2
succinyl-CoA:glutarate-CoA transferase
cut like homeobox 2
ubiquitin like with PHD and ring finger domains 2
2'-deoxynucleoside 5'-phosphate N-hydrolase 1
sequestosome 1
solute carrier family 12 member 9
profilin 1
novel protein
uronyl 2-sulfotransferase
ATPase H⁺ transporting V0 subunit d1
mal, T cell differentiation protein
fibroblast growth factor binding protein 3
CD58 molecule
sorting nexin 19
activity dependent neuroprotector homeobox
glutamic--pyruvic transaminase 2
microtubule associated protein 1 light chain 3 beta 2
sterol regulatory element binding transcription factor 1
mannose-P-dolichol utilization defect 1
ubiquitin specific peptidase 53
WD repeat domain 77
secernin 1
ADP ribosylation factor interacting protein 1
IQ motif containing GTPase activating protein 2
X-prolyl aminopeptidase 3
follistatin like 4
oxidative stress responsive kinase 1

structural maintenance of chromosomes flexible hinge domain containing 1
ectonucleoside triphosphate diphosphohydrolase 7

family with sequence similarity 110 member A
cyclase associated actin cytoskeleton regulatory protein 1
FKBP prolyl isomerase 5
zinc finger DHHC-type palmitoyltransferase 18
dynein axonemal heavy chain 8
peroxisomal testis enriched protein 1
purinergic receptor P2X 1
NCK associated protein 5 like
cortactin binding protein 2
sperm associated antigen 1
SPARC related modular calcium binding 1
zinc finger protein 296
phosphoglycerate mutase 1
niban apoptosis regulator 1
prostate androgen-regulated mucin-like protein 1
Ras association domain family member 4
potassium voltage-gated channel subfamily H member 3
EH domain containing 4
CAP-Gly domain containing linker protein 3
plexin D1
beta-1,4-galactosyltransferase 1
coiled-coil domain containing 32
ubiquitin specific peptidase like 1
complement C3
B cell linker
nuclear factor kappa B subunit 1
Fc receptor like A
CD72 molecule
RAR related orphan receptor C
RELB proto-oncogene, NF-kB subunit
TNF receptor superfamily member 13B
pleckstrin homology and RhoGEF domain containing G7
Fc receptor like 5
nuclear factor kappa B subunit 2
ring finger protein 207
B cell scaffold protein with ankyrin repeats 1
sarcospan
C-X-C motif chemokine ligand 9
Spi-B transcription factor
STEAP family member 1B
adhesion G protein-coupled receptor E1
POU class 2 homeobox associating factor 1
polypeptide N-acetylgalactosaminyltransferase 14
CD22 molecule
oxysterol binding protein like 10
major histocompatibility complex, class II, DO alpha

INSC spindle orientation adaptor protein
toll like receptor 5
reticulon 2
DENN domain containing 5B
coagulation factor V
kazrin, periplakin interacting protein
U6 snRNA biogenesis phosphodiesterase 1
kringle containing transmembrane protein 1
ArfGAP with SH3 domain, ankyrin repeat and PH domain 1
solute carrier family 2 member 3
zinc finger and BTB domain containing 32
TNF receptor superfamily member 13C
Janus kinase 3
transcription factor 4
kinase non-catalytic C-lobe domain containing 1
alkaline phosphatase, biomineralization associated
coronin 2B
tetraspanin 3
interleukin 4 receptor
sialic acid binding Ig like lectin 6
NFKB inhibitor zeta
BLK proto-oncogene, Src family tyrosine kinase
mitogen-activated protein kinase kinase kinase 20
adenosine monophosphate deaminase 3
Pim-3 proto-oncogene, serine/threonine kinase
RAB10, member RAS oncogene family
zinc finger CCCH-type containing 12A
SEL1L family member 3
leukocyte receptor tyrosine kinase
EBF transcription factor 1
prokineticin 2
integrin subunit beta 4
calpain 13
metal regulatory transcription factor 1
cysteine rich transmembrane module containing 1
coiled-coil domain containing 50
solute carrier family 17 member 9
G protein-coupled receptor 84
phospholipid phosphatase 5
HCK proto-oncogene, Src family tyrosine kinase
CD1c molecule
myristoylated alanine rich protein kinase C substrate
multiple C2 and transmembrane domain containing 2
GRAM domain containing 1A
protein kinase C delta
PHD finger protein 21A

major histocompatibility complex, class II, DO beta
nuclear prelamin A recognition factor
T cell leukemia/lymphoma 1A
tectonin beta-propeller repeat containing 2
CD79a molecule
major histocompatibility complex, class II, DQ alpha 1
major histocompatibility complex, class II, DQ beta 2
N-ribosyldihydronicotinamide:quinone reductase 2
membrane spanning 4-domains A1
neurotensin receptor 1
solute carrier family 37 member 3
CD44 molecule (Indian blood group)
endothelin converting enzyme 1
paired box 5
BCL6 transcription repressor
mannose receptor C-type 1
collagen type IV alpha 3 chain
niban apoptosis regulator 3
cordon-bleu WH2 repeat protein like 1
Fc fragment of IgA receptor
heparanase
prepronociceptin
CD19 molecule
ST3 beta-galactoside alpha-2,3-sialyltransferase 2
MAX dimerization protein 3
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3
glycogen phosphorylase L
C-type lectin like 1
transmembrane protein 45B
ST3 beta-galactoside alpha-2,3-sialyltransferase 4
interferon lambda receptor 1
HIVEP zinc finger 1
SRSF protein kinase 1
hexokinase 3
tudor domain containing 9
phospholipase B1
docking protein 4
asialoglycoprotein receptor 2
annexin A3
flotillin 2
lysyl oxidase like 1
mitogen-activated protein kinase 14
dysferlin
C-type lectin domain family 4 member F
adipocyte plasma membrane associated protein
tetraspanin 13

major histocompatibility complex, class II, DP beta 1
major histocompatibility complex, class II, DQ beta 1
F-box and leucine rich repeat protein 5
collagen type IV alpha 4 chain
copine 7
synaptopodin
flotillin 1
regulator of hemoglobinization and erythroid cell expansion
tumor protein p53 inducible protein 11
AF4/FMR2 family member 3
WEE1 G2 checkpoint kinase
sphingomyelin phosphodiesterase acid like 3A
neural proliferation, differentiation and control 1
sialic acid binding Ig like lectin 9
5'-3' exoribonuclease 2
CAP-Gly domain containing linker protein 1
sodium voltage-gated channel alpha subunit 3
adhesion G protein-coupled receptor E2
signal transducer and activator of transcription 5B
FGR proto-oncogene, Src family tyrosine kinase
glutaminyl-tRNA amidotransferase subunit QRSL1
follistatin like 4
E2F transcription factor 5
ADP ribosylation factor GTPase activating protein 3
BAF chromatin remodeling complex subunit BCL11A
transmembrane protein 185B
mast cell expressed membrane protein 1
CD177 molecule
CEA cell adhesion molecule 3
adrenomedullin
B and T lymphocyte associated
solute carrier family 22 member 4
GDNF family receptor alpha 2
DENN domain containing 5A
TNFAIP3 interacting protein 1
glycoprotein M6A
complement C3b/C4b receptor 1 (Knops blood group)
plexin C1
zinc finger protein 438
dehydrogenase/reductase 13
CDC42 effector protein 3
bone marrow stromal cell antigen 1
leukocyte immunoglobulin like receptor A4
complement C1r subcomponent like
adhesion G protein-coupled receptor G3
folate receptor gamma

LIM domain kinase 2
solute carrier family 9 member A1
integrin subunit alpha M
cAMP responsive element binding protein 5
collagen type V alpha 3 chain
lamin B1
carbohydrate sulfotransferase 2
mitogen-activated protein kinase kinase kinase kinase 1
glycerol-3-phosphate acyltransferase 3
syndecan 4
target of myb1 membrane trafficking protein
fatty acid 2-hydroxylase
collagen type IX alpha 2 chain
STEAP4 metalloreductase
cyclin and CBS domain divalent metal cation transport mediator 4
interferon gamma receptor 2
P2RX5-TAX1BP3 readthrough (NMD candidate)
alanyl aminopeptidase, membrane
lysophosphatidylcholine acyltransferase 3
NEDD4 binding protein 1
cystatin F
SEC22 homolog B, vesicle trafficking protein (gene/pseudogene)
WD repeat domain 34
RAS related 2
neutrophil cytosolic factor 4
NLR family CARD domain containing 4
glutaminy-peptide cyclotransferase
immunoglobulin like domain containing receptor 1
rhopilin associated tail protein 1 like
multiple C2 and transmembrane domain containing 1
sodium voltage-gated channel beta subunit 1
basic helix-loop-helix family member e41
leukotriene A4 hydrolase
TNF receptor associated factor 4
5-oxoprolinase, ATP-hydrolysing
transmembrane protein 156
WD repeat and FYVE domain containing 3
transmembrane and coiled-coil domains 3
leukocyte immunoglobulin like receptor A6
LARGE xylosyl- and glucuronyltransferase 1
kinesin family member 3C
membrane bound O-acyltransferase domain containing 2
ADAM metallopeptidase domain 9
phosphate cytidyltransferase 1, choline, alpha
protein tyrosine phosphatase receptor type E
zinc finger DHHC-type palmitoyltransferase 19

transmembrane O-mannosyltransferase targeting cadherins 1
BCL3 transcription coactivator
DSN1 component of MIS12 kinetochore complex
sulfotransferase family 1B member 1
arachidonate 5-lipoxygenase
S100 calcium binding protein A12
glycogenin 1
TNF receptor associated factor 3
BH3 interacting domain death agonist
major histocompatibility complex, class II, DQ alpha 2
PTTG1 interacting protein
solute carrier family 2 member 6
nuclear GTPase, germinal center associated
macrophage erythroblast attacher, E3 ubiquitin ligase
angiopoietin 1
FERM, ARH/RhoGEF and pleckstrin domain protein 2
ral guanine nucleotide dissociation stimulator like 4
solute carrier family 9 member A8
laminin subunit alpha 5
translocator protein
ADAM metallopeptidase domain 8
phospholipase D family member 4
acyl-CoA synthetase long chain family member 1
teashirt zinc finger homeobox 3
plasminogen activator, urokinase
karyopherin subunit alpha 1
muscle RAS oncogene homolog
DnaJ heat shock protein family (Hsp40) member C5
solute carrier family 25 member 44
activator of transcription and developmental regulator AUTS2
semaphorin 4A
FAM20A golgi associated secretory pathway pseudokinase
ATPase phospholipid transporting 9A (putative)
SLAM family member 6
vanin 2
secretory carrier membrane protein 5
beta-ureidopropionase 1
matrix metallopeptidase 8
ATP binding cassette subfamily C member 3
prolylcarboxypeptidase
maltase-glucoamylase 2 (putative)
kinesin family member 1B
interleukin 17 receptor A
haptoglobin
ubiquitin specific peptidase 28
BMP2 inducible kinase

Fc fragment of IgG receptor IIa
pipecolic acid and sarcosine oxidase
signal transducing adaptor family member 1
solute carrier family 26 member 8
aldehyde dehydrogenase 1 family member A2
influenza virus NS1A binding protein
maltase-glucoamylase
transient receptor potential cation channel subfamily M member 6
docking protein 3
mitogen-activated protein kinase kinase kinase kinase 4
nibrin
NLR family apoptosis inhibitory protein
small glutamine rich tetratricopeptide repeat containing beta
kelch like family member 14
myelin protein zero like 1
fms related receptor tyrosine kinase 3
adaptor related protein complex 1 subunit sigma 3
N-terminal EF-hand calcium binding protein 1
protein kinase C and casein kinase substrate in neurons 1
orosomucoid 1
LY6/PLAUR domain containing 2
minichromosome maintenance complex binding protein
peptidyl arginine deiminase 2
membrane associated ring-CH-type finger 3
CD82 molecule
solute carrier family 2 member 14
cytokine dependent hematopoietic cell linker
docking protein 7
major histocompatibility complex, class II, DP alpha 1
kinesin family member C3
transmembrane protein 176B
androgen dependent TFPI regulating protein
hydroxycarboxylic acid receptor 3
pleckstrin
fermitin family member 3
SOS Ras/Rho guanine nucleotide exchange factor 2
caspase recruitment domain family member 19
resistin
SRY-box transcription factor 5
MET transcriptional regulator MACC1
intercellular adhesion molecule 1
NIMA related kinase 6
androgen induced 1
phosphoglucomutase 1
katanin catalytic subunit A1 like 1
pro-apoptotic WT1 regulator

ADAM metallopeptidase domain 12
DNA damage induced apoptosis suppressor
G protein-coupled receptor 19
angiotensin II receptor associated protein
Fc fragment of IgE receptor Ig
solute carrier family 38 member 11
rabphilin 3A
ADAM metallopeptidase domain 28
spermatogenesis and centriole associated 1
ribonuclease A family member k6
elastin microfibril interfacier 2
slingshot protein phosphatase 1
carbonic anhydrase 4
N-acetylneuraminate pyruvate lyase
prolyl 4-hydroxylase subunit alpha 2
prostaglandin I2 receptor
hexokinase 2
G protein subunit gamma 7
S100 calcium binding protein A9
ZFP36 ring finger protein like 1
erythroblast membrane associated protein (Scianna blood group)
ATPase secretory pathway Ca²⁺ transporting 2
protein phosphatase 1 regulatory subunit 3B
HLF transcription factor, PAR bZIP family member
perilipin 4
interleukin 7
kelch like family member 5
peptidase inhibitor 3
brain abundant membrane attached signal protein 1
PHD finger protein 12
Fc receptor like 2
cytoskeleton associated protein 4
C-C motif chemokine receptor 5 (gene/pseudogene)
matrix metallopeptidase 9
zinc finger protein 254
aquaporin 9
lin-7 homolog A, crumbs cell polarity complex component
methyltransferase like 9
interleukin 1 beta
VAMP associated protein A
phosphatidylinositol binding clathrin assembly protein
oncostatin M
NLR family pyrin domain containing 12
cochlin
desmocollin 2
calcium/calmodulin dependent protein kinase kinase 2

EH domain binding protein 1 like 1
transmembrane protein 176A
RAD23 homolog B, nucleotide excision repair protein
amyloid beta precursor protein binding family B member 1 interacting protein
CD58 molecule
junction adhesion molecule like
cytoplasmic FMR1 interacting protein 2
F-box and leucine rich repeat protein 13
niban apoptosis regulator 1
BAI1 associated protein 3
N-sulfoglucosamine sulfohydrolase
C-X-C motif chemokine receptor 6
CD36 molecule
hippocalcin like 1
peptidoglycan recognition protein 1
sideroflexin 5
methyltransferase like 22
complement C1q B chain
ubiquitin associated protein 1
myosin X
osteoclast associated Ig-like receptor
Fc fragment of IgE receptor II
diacylglycerol O-acyltransferase 2
novel protein
butyrophilin like 9
DnaJ heat shock protein family (Hsp40) member C3
mal, T cell differentiation protein
hydrogen voltage gated channel 1
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1N (putative)
transmembrane protein 260
ATPase H⁺ transporting V1 subunit C1
leukocyte immunoglobulin like receptor A5
mitochondrial calcium uptake 1
patatin like phospholipase domain containing 1
calcium voltage-gated channel subunit alpha1 E
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
neuregulin 1
chondroadherin
MAF bZIP transcription factor G
Ral GEF with PH domain and SH3 binding motif 2
steroid receptor RNA activator 1
interferon regulatory factor 8
minichromosome maintenance complex component 5
complement C3a receptor 1
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
marginal zone B and B1 cell specific protein

RAB32, member RAS oncogene family
methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate
interleukin 12 receptor subunit beta 2
CCAAT enhancer binding protein alpha
IKAROS family zinc finger 3
valyl-tRNA synthetase 1
myocyte enhancer factor 2C
abhydrolase domain containing 15
POC1 centriolar protein B
acetyl-CoA acyltransferase 1
EH domain containing 1
solute carrier organic anion transporter family member 3A1
lymphocyte transmembrane adaptor 1
adaptor related protein complex 3 subunit beta 2
nicotinamide phosphoribosyltransferase
chromosome 8 open reading frame 88
alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase
LIM domains containing 1
IQ motif and Sec7 domain ArfGEF 1
N-deacetylase and N-sulfotransferase 3
ribosomal RNA processing 12 homolog
WD repeat domain 26
calmin
Rho guanine nucleotide exchange factor 11
phosphatidylglycerophosphate synthase 1
myotubularin related protein 11
DNA damage regulated autophagy modulator 1
regulating synaptic membrane exocytosis 3
complement C1q C chain
ankyrin repeat and ubiquitin domain containing 1
caspase recruitment domain family member 6
family with sequence similarity 200 member B
CXXC finger protein 5
signal regulatory protein alpha
killer cell lectin like receptor B1
potassium voltage-gated channel subfamily H member 3
RAB27A, member RAS oncogene family
zinc finger and BTB domain containing 7B
butyrophilin subfamily 2 member A2
zinc finger DHHC-type palmitoyltransferase 3
lipocalin 2
RELT TNF receptor
sorting nexin 25
notch receptor 2
integrin subunit beta 2
neurobeachin like 2

C9orf72-SMCR8 complex subunit
cell division cycle associated 7
SH3KBP1 binding protein 1
melanocyte inducing transcription factor
chromosome 11 open reading frame 80
phosphogluconate dehydrogenase
serpin family B member 1
chromosome 16 open reading frame 70
procollagen C-endopeptidase enhancer 2
aldehyde dehydrogenase 2 family member
microtubule associated serine/threonine kinase family member 4
sorting nexin 18
ITPRIP like 1
TPD52 like 2
uridine phosphorylase 1
SET binding protein 1
anoctamin 10
zinc finger DHHC-type palmitoyltransferase 7
tyrosyl-DNA phosphodiesterase 2
zinc finger protein 106
capicua transcriptional repressor
G protein-coupled receptor kinase 6
toll like receptor 1
glycosyltransferase 1 domain containing 1
dystrotelin
SH3 binding domain protein 5 like
solute carrier family 49 member 4
complement C1q A chain
N-acetyltransferase domain containing 1
actinin alpha 1
minichromosome maintenance complex component 4
glucose-fructose oxidoreductase domain containing 2
NCK associated protein 5 like
protein phosphatase 4 regulatory subunit 2
zinc finger protein 683
growth differentiation factor 7
oxysterol binding protein like 8
transmembrane 9 superfamily member 4
ectodysplasin A receptor
cadherin EGF LAG seven-pass G-type receptor 1
BRCA2 DNA repair associated
lactotransferrin
zinc finger protein 787
ubiquitin conjugating enzyme E2 D1
acidic nuclear phosphoprotein 32 family member A
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma

C-type lectin domain containing 5A
granulocalcin
insulin like 3
FOS like 2, AP-1 transcription factor subunit
hepsin
CTP synthase 1
ETS proto-oncogene 2, transcription factor
rabaptin, RAB GTPase binding effector protein 2
JunB proto-oncogene, AP-1 transcription factor subunit
ryanodine receptor 1
immunoglobulin lambda like polypeptide 5
cell division cycle 20
phospholipase B domain containing 1
class II major histocompatibility complex transactivator
interferon alpha and beta receptor subunit 1
novel protein
integral membrane protein 2C
dachshund family transcription factor 1
solute carrier family 8 member B1
beta-1,3-N-acetylgalactosaminyltransferase 2
cytochrome p450 oxidoreductase
chondroitin sulfate synthase 1
microsomal glutathione S-transferase 1
reticulon 3
neurexophilin 4
G protein-coupled receptor class C group 5 member B
tumor protein D52
versican
G protein-coupled receptor 25
interleukin 10 receptor subunit beta
Krüppel like factor 7
GLI pathogenesis related 2
transcriptional repressor GATA binding 1
fibroblast growth factor receptor 1
cytochrome P450 family 27 subfamily A member 1
G0/G1 switch 2
lysophosphatidic acid receptor 1
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7
autophagy related 9A
ornithine aminotransferase
BEN domain containing 4
KIAA0825
kallikrein 1
calpastatin
solute carrier family 12 member 9
ficolin 1

S100 calcium binding protein A8
Wnt family member 16
thioredoxin interacting protein
coenzyme Q2, polyprenyltransferase
cut like homeobox 1
signaling lymphocytic activation molecule family member 1
glycine amidinotransferase
beta-1,4-galactosyltransferase 2
RAS guanyl releasing protein 4
histamine receptor H2
Yip1 domain family member 1
mast cell immunoglobulin like receptor 1
solute carrier family 35 member F2
olfactomedin 4
MYB proto-oncogene like 2
kinesin family member 11
TNF receptor associated factor 5
gap junction protein beta 6
ATP binding cassette subfamily B member 4
minichromosome maintenance complex component 7
potassium inwardly rectifying channel subfamily J member 15
solute carrier family 25 member 42
family with sequence similarity 151 member B
thioredoxin reductase 1
assembly factor for spindle microtubules
CD200 molecule
NADH:ubiquinone oxidoreductase complex assembly factor 6
strawberry notch homolog 2
homeobox C4
pyruvate kinase M1/2
killer cell lectin like receptor D1
coiled-coil domain containing 57
sialic acid binding Ig like lectin 5
UTP6 small subunit processome component
glucosylceramidase beta
opioid related nociceptin receptor 1
NFKB inhibitor epsilon
retinoid X receptor alpha
NLR family member X1
syndecan binding protein
pyridoxal kinase
dysbindin domain containing 1
solute carrier family 25 member 37
neural EGFL like 2
UDP-N-acetylglucosamine pyrophosphorylase 1
solute carrier family 12 member 3

fem-1 homolog C
RAB31, member RAS oncogene family
phospholipase C delta 3
methionine sulfoxide reductase A
C3 and PZP like alpha-2-macroglobulin domain containing 8
replication factor C subunit 5
BICD cargo adaptor 1
phospholipase A2 group VII
ADP ribosylation factor like GTPase 11
chromosome 16 open reading frame 72
CD55 molecule (Cromer blood group)
carbonic anhydrase 6
protein phosphatase 2 regulatory subunit B'alpha
reticulon 4
hydroxycarboxylic acid receptor 2
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta
protein kinase C and casein kinase substrate in neurons 2
testis expressed 9
family with sequence similarity 111 member B
glutamate ionotropic receptor NMDA type subunit associated protein 1
SH3 domain containing GRB2 like, endophilin B1
protein O-glucosyltransferase 2
neurocalcin delta
CD14 molecule
perilipin 3
hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase
niban apoptosis regulator 2
coiled-coil serine rich protein 1
KIT proto-oncogene, receptor tyrosine kinase
timeless circadian regulator
ATP/GTP binding protein 1
major histocompatibility complex, class II, DM beta
interleukin 1 receptor antagonist
zinc finger protein 467
signal induced proliferation associated 1 like 3
suppressor of cytokine signaling 3
serine hydroxymethyltransferase 1
serpin family B member 10
vasodilator stimulated phosphoprotein
zinc finger protein 641
ring finger protein 24
fatty acyl-CoA reductase 1
MAX network transcriptional repressor
homer scaffold protein 3
protein tyrosine kinase 2 beta
solute carrier family 25 member 40

SWT1 RNA endoribonuclease homolog
SET binding factor 2
base methyltransferase of 25S rRNA 2 homolog
NDC80 kinetochore complex component
colony stimulating factor 2 receptor subunit beta
protein tyrosine phosphatase receptor type K
heparan sulfate-glucosamine 3-sulfotransferase 1
poly(ADP-ribose) polymerase 1
ubiquitin specific peptidase 46
coagulation factor XIII A chain
adenylate kinase 5
zinc finger protein 860
family with sequence similarity 214 member B
Spi-1 proto-oncogene
TLE family member 1, transcriptional corepressor
transcription factor 19
C-type lectin domain family 4 member D
amyloid beta precursor like protein 2
RELT like 1
EMAP like 6
acyloxyacyl hydrolase
histone deacetylase 7
cyclin A2
protein kinase C epsilon
vanin 1
neutrophil cytosolic factor 2
dynein axonemal heavy chain 6
pecanex 1
THO complex 5
LARGE xylosyl- and glucuronyltransferase 2
chromosome 19 open reading frame 38
RAD51 recombinase
PX domain containing serine/threonine kinase like
serine carboxypeptidase 1
piwi like RNA-mediated gene silencing 4
pleckstrin homology domain containing M3
zinc finger protein 250
immediate early response 3
ERCC excision repair 1, endonuclease non-catalytic subunit
G protein subunit alpha 15
follistatin like 3
forkhead box M1
paxillin
DNA polymerase eta
superoxide dismutase 2
apoptosis associated tyrosine kinase

MYD88 innate immune signal transduction adaptor
mannosidase alpha class 1C member 1
apoptosis resistant E3 ubiquitin protein ligase 1
pseudouridine synthase 7
vav guanine nucleotide exchange factor 1
B9 domain containing 2
fucosyltransferase 8
yippee like 1
cytidine deaminase
non-SMC condensin I complex subunit G
purinergic receptor P2X 1
ribonucleotide reductase catalytic subunit M1
TatD DNase domain containing 3
zinc finger protein 319
calcium voltage-gated channel auxiliary subunit beta 4
methyltransferase like 2B
F-box protein 9
major facilitator superfamily domain containing 14B
integrin subunit alpha 7
spermatid perinuclear RNA binding protein
solute carrier family 16 member 3
brain protein I3
non-SMC condensin I complex subunit H
zinc finger DHHC-type palmitoyltransferase 2
checkpoint kinase 1
dehydrogenase/reductase 9
deoxyribonuclease 1 like 3
dehydrogenase/reductase 3
cell division cycle associated 7 like
nuclear factor, erythroid 2
drebrin like
TTK protein kinase
dynactin subunit 4
pleckstrin homology and RhoGEF domain containing G1
dehydrogenase/reductase 7B
RAB5A, member RAS oncogene family
family with sequence similarity 160 member A2
PDZ and LIM domain 5
1,4-alpha-glucan branching enzyme 1
copine 5
SLIT-ROBO Rho GTPase activating protein 2C
integrin subunit alpha X
ATPase phospholipid transporting 11B (putative)
basic leucine zipper ATF-like transcription factor 3
neuropilin and tolloid like 1
prostate androgen-regulated mucin-like protein 1

macrophage scavenger receptor 1
TNF receptor superfamily member 8
Rho guanine nucleotide exchange factor 4
major histocompatibility complex, class II, DR beta 1
cortactin binding protein 2
cytohesin 4
WD repeat domain 76
solute carrier family 4 member 10
KH RNA binding domain containing, signal transduction associated 2
golgi associated, gamma adaptin ear containing, ARF binding protein 2
hook microtubule tethering protein 2
TNF alpha induced protein 6
DIX domain containing 1
TNF receptor superfamily member 21
ArfGAP with coiled-coil, ankyrin repeat and PH domains 1
major histocompatibility complex, class II, DR beta 5
serpin family A member 1
small integral membrane protein 20
cytochrome P450 family 1 subfamily B member 1
SH3 domain containing ring finger 3
aminopeptidase puromycin sensitive
peptidyl arginine deiminase 4
basic helix-loop-helix family member a15
nuclear factor, erythroid 2 like 2
ribonucleotide reductase regulatory subunit M2
solute carrier family 51 subunit alpha
family with sequence similarity 126 member B
nardilysin convertase
novel protein
lemur tyrosine kinase 2
membrane associated ring-CH-type finger 5
glutamate rich 1
vav guanine nucleotide exchange factor 3
epoxide hydrolase 2
nuclear factor, erythroid 2 like 3
ADP ribosylation factor like GTPase 8A
interleukin 1 receptor associated kinase 2
dpy-19 like C-mannosyltransferase 3
golgin A7
TNF receptor superfamily member 9
PNKD metallo-beta-lactamase domain containing
RNA polymerase II subunit C
ring finger and WD repeat domain 3
zinc finger protein 516
RUNX family transcription factor 2
embigin

prostaglandin F receptor
latent transforming growth factor beta binding protein 2
LDL receptor related protein associated protein 1
cap binding complex dependent translation initiation factor
oxysterol binding protein like 9
adaptor related protein complex 3 subunit sigma 2
TGF-beta activated kinase 1 (MAP3K7) binding protein 2
presenilin 1
nucleolar protein 3
defensin alpha 3
calcium binding protein 39
cytochrome b561
inhibitor of nuclear factor kappa B kinase subunit epsilon
heme binding protein 2
X-C motif chemokine receptor 1
small integral membrane protein 14
syntaxin binding protein 2
UBX domain protein 2B
protein phosphatase 1 regulatory subunit 16B
paternally expressed 10
protein S
supervillin
whirlin
nudix hydrolase 5
zinc finger protein 697
TBL1X receptor 1
cytochrome b-245 chaperone 1
F-box and WD repeat domain containing 2
MLLT1 super elongation complex subunit
SLIT-ROBO Rho GTPase activating protein 2B
aryl hydrocarbon receptor nuclear translocator
ST6 beta-galactoside alpha-2,6-sialyltransferase 1
F-box protein 38
kinesin family member 13A
poly(A)-specific ribonuclease
G protein-coupled receptor 27
nicotinamide nucleotide adenylyltransferase 3
heat shock protein family A (Hsp70) member 1A
harakiri, BCL2 interacting protein
butyrophilin subfamily 3 member A2
fucosyltransferase 7
golgi associated kinase 1B
TBC1 domain family member 8
serine/threonine/tyrosine kinase 1
DNA polymerase beta
hyaluronidase 2

novel protein
TBC1 domain family member 2
EPH receptor B4
cannabinoid receptor 2
Rho GTPase activating protein 30
selectin P
programmed cell death 4
kelch like family member 2
cell cycle progression 1
minichromosome maintenance complex component 3
Rab interacting lysosomal protein like 1
WD repeat domain 53
transient receptor potential cation channel subfamily M member 2
zinc finger protein 281
beaded filament structural protein 1
thyroid hormone receptor interactor 13
synaptosome associated protein 23
glycoprotein V platelet
TPX2 microtubule nucleation factor
RAS guanyl releasing protein 3
inosine monophosphate dehydrogenase 1
CD79b molecule
FA complementation group M
mitogen-activated protein kinase 1
bactericidal permeability increasing protein
YTH N6-methyladenosine RNA binding protein 3
uveal autoantigen with coiled-coil domains and ankyrin repeats
derlin 3
kinesin family member C1
divergent protein kinase domain 1A
proprotein convertase subtilisin/kexin type 5
spermatogenesis associated serine rich 2
inner centromere protein
delta 4-desaturase, sphingolipid 1
acyl-CoA synthetase short chain family member 3
solute carrier family 44 member 3
NUMB endocytic adaptor protein
late endosomal/lysosomal adaptor, MAPK and MTOR activator 1
collagen beta(1-O)galactosyltransferase 1
tigger transposable element derived 3
solute carrier organic anion transporter family member 4C1
MANSC domain containing 1
Cbl proto-oncogene B
Rap1 GTPase-GDP dissociation stimulator 1
thymidylate synthetase
double PHD fingers 3

PAXX non-homologous end joining factor
EF-hand domain containing 1
RNA binding motif single stranded interacting protein 1
amyloid beta precursor protein
NGFI-A binding protein 2
fucosyltransferase 11
SMG7 nonsense mediated mRNA decay factor
kinesin family member 15
T-box transcription factor 21
leukocyte immunoglobulin like receptor B2
zinc finger protein 532
methyltransferase like 8
mitogen-activated protein kinase kinase 3
thyroid hormone receptor beta
SHC binding and spindle associated 1
transcription termination factor 1
USP6 N-terminal like
zinc finger DHHC-type palmitoyltransferase 18
signal transducing adaptor molecule
CEA cell adhesion molecule 8
centrosomal protein 55
dual specificity phosphatase 4
Ras association domain family member 1
tripartite motif containing 8
eukaryotic translation initiation factor 2 alpha kinase 3
TLE family member 4, transcriptional corepressor
platelet factor 4 variant 1
maestro heat like repeat family member 6
ubiquitin like with PHD and ring finger domains 2
heat shock protein family A (Hsp70) member 1 like
perforin 1
DnaJ heat shock protein family (Hsp40) member A4
beta-1,4-galactosyltransferase 5
TAFA chemokine like family member 2
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2
synaptotagmin 17
DDB1 and CUL4 associated factor 10
mitogen-activated protein kinase kinase kinase 2
shisa family member 8
histone deacetylase 4
interleukin 23 receptor
fragile histidine triad diadenosine triphosphatase
argininosuccinate lyase
charged multivesicular body protein 4B
translocation associated membrane protein 2
perilipin 5

jagged canonical Notch ligand 1
CD1a molecule
ATPase 13A3
recombination signal binding protein for immunoglobulin kappa J region
matrix metalloproteinase 25
ATPase Na⁺/K⁺ transporting subunit beta 1
RAB6B, member RAS oncogene family
C-terminal binding protein 2
dishevelled associated activator of morphogenesis 2
chromatin licensing and DNA replication factor 1
oxidative stress responsive kinase 1
cyclin dependent kinase 14
NFKB inhibitor alpha
stromal interaction molecule 2
kinetochore scaffold 1
quiescin sulfhydryl oxidase 1
hedgehog acyltransferase
sorting nexin 22
methyl-CpG binding domain protein 2
polo like kinase 1
novel protein, ZNRF2-LINC01176 readthrough
clustered mitochondria homolog
fucosyltransferase 10
vimentin
serpin family F member 1
solute carrier family 12 member 2
sorting nexin 3
pantothenate kinase 1
vitamin D receptor
tyrosylprotein sulfotransferase 1
cyclin F
CD74 molecule
crystallin beta-gamma domain containing 1
protein tyrosine phosphatase non-receptor type 13
glycolipid transfer protein
leucine rich single-pass membrane protein 1
SPT20 homolog, SAGA complex component
carbohydrate sulfotransferase 12
tyrosylprotein sulfotransferase 2
carbohydrate sulfotransferase 15
transmembrane protein 19
denticless E3 ubiquitin protein ligase homolog
tubulin beta 2A class IIa
cathelicidin antimicrobial peptide
minichromosome maintenance complex component 2
syntaxin binding protein 1

sphingosine-1-phosphate receptor 3
tribbles pseudokinase 2
APC down-regulated 1
interleukin 12 receptor subunit beta 1
solute carrier family 24 member 3
proprotein convertase subtilisin/kexin type 7
EPH receptor A2
WD repeat domain 86
immunoglobulin heavy variable 4-38-2-like
ankyrin repeat domain 34B
Ras like without CAAX 1
ras homolog family member Q
transgelin
serine/threonine kinase 38
myotubularin related protein 3
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1A
fibrillin 2
alkaline ceramidase 3
protein phosphatase 2 regulatory subunit Bbeta
ubiquitin conjugating enzyme E2 R2
von Willebrand factor A domain containing 5A
death effector domain containing
exonuclease 5
metaxin 1
cytoplasmic polyadenylation element binding protein 4
transmembrane protein 11
FRAT regulator of WNT signaling pathway 2
zinc finger AN1-type containing 5
chondroitin sulfate N-acetylgalactosaminyltransferase 1
interferon regulatory factor 4
epidermal growth factor
Ras protein specific guanine nucleotide releasing factor 1
toll interacting protein
testis expressed metallothionein like protein
protein tyrosine phosphatase receptor type J
coiled-coil domain containing 167
cell division cycle 6
GIT ArfGAP 2
polo like kinase 4
butyrophilin subfamily 3 member A1
RAD51 associated protein 1
small integral membrane protein 3
GINS complex subunit 1
ankyrin repeat domain 33B
signal peptidase complex subunit 2
apical junction component 1 homolog

uronyl 2-sulfotransferase
CD320 molecule
inositol polyphosphate multikinase
synoviolin 1
apolipoprotein B mRNA editing enzyme catalytic subunit 3H
ribonuclease H2 subunit B
BSD domain containing 1
phospholipase C like 2
CD80 molecule
small integral membrane protein 5
protein phosphatase 1 regulatory subunit 10
hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit beta
TEA domain transcription factor 3
Fc fragment of IgG receptor IIb
ZW10 interacting kinetochore protein
calcineurin binding protein 1
DNA methyltransferase 3 alpha
nuclear factor, interleukin 3 regulated
cyclin B1
EF-hand domain family member D2
WNK lysine deficient protein kinase 1
cyclin dependent kinase inhibitor 2D
UBA domain containing 1
stathmin 1
leukocyte immunoglobulin like receptor B3
acid phosphatase 3
ubiquitin specific peptidase 7
TNF alpha induced protein 3
NBPF member 26
thyroid hormone receptor interactor 12
solute carrier family 39 member 8
potassium channel tetramerization domain containing 21
cathepsin H
ubiquitin specific peptidase 32
lysosomal protein transmembrane 4 beta
mitochondrial ribosomal protein L52
lysine demethylase 6B
ghrelin and obestatin prepropeptide
dispatched RND transporter family member 3
ubiquitin conjugating enzyme E2 T
F-box protein 10
oxysterol binding protein like 1A
transmembrane protein 273
nuclear transcription factor, X-box binding 1
GRAM domain containing 1C
zinc finger protein 296

apolipoprotein B mRNA editing enzyme catalytic subunit 3G
fibronectin type III domain containing 3B
leucine rich repeat containing 4
RFT1 homolog
SP140 nuclear body protein
activating transcription factor 7 interacting protein 2
dynamin 2
protein phosphatase 1 regulatory subunit 3D
ubiquitin domain containing 1
TNF receptor superfamily member 10b
NOP2/Sun RNA methyltransferase 3
PLAG1 like zinc finger 2
UDP glycosyltransferase 8
kelch like family member 29
jumonji domain containing 6, arginine demethylase and lysine hydroxylase
RAB30, member RAS oncogene family
thrombospondin 3
BCL2 interacting protein 2
suppressor of cytokine signaling 2
solute carrier family 36 member 1
granzyme B
protein inhibitor of activated STAT 2
lysine acetyltransferase 2A
cytoplasmic FMR1 interacting protein 1
stromal antigen 3
ankyrin repeat and LEM domain containing 1
CD40 molecule
upstream transcription factor family member 3
S100 calcium binding protein A6
G2 and S-phase expressed 1
sestrin 3
GLIS family zinc finger 2
lysozyme
DDB1 and CUL4 associated factor 6
amyloid beta precursor protein binding family B member 3
ArfGAP with GTPase domain, ankyrin repeat and PH domain 3
integrin subunit alpha 2b
KIAA0319
family with sequence similarity 117 member A
solute carrier family 6 member 6
MTOR associated protein, eak-7 homolog
histone deacetylase 9
transforming growth factor alpha
oxoeicosanoid receptor 1
RIO kinase 3
tropomyosin 1

glutamine-fructose-6-phosphate transaminase 2
MDM2 proto-oncogene
ADP ribosylation factor like GTPase 8B
activin A receptor type 1B
TGFB induced factor homeobox 1
nicastrin
prostaglandin D2 synthase
kinesin family member 20B
tectonic family member 1
transmembrane protein 170B
solute carrier family 5 member 9
SUMO1 activating enzyme subunit 1
RAB2B, member RAS oncogene family
formyl peptide receptor 3
complement factor H
complement C5a receptor 1
hematopoietically expressed homeobox
protein phosphatase 1 regulatory subunit 12A
claspin
ring finger protein 10
mitogen-activated protein kinase 13
CDC42 effector protein 1
dishevelled binding antagonist of beta catenin 1
capping actin protein of muscle Z-line subunit alpha 1
cyclin B1 interacting protein 1
CDK5 regulatory subunit associated protein 2
apolipoprotein B mRNA editing enzyme catalytic subunit 3A
signal peptide peptidase like 2A
p53 apoptosis effector related to PMP22
solute carrier family 46 member 2
Ras and Rab interactor 3
glutathione S-transferase mu 3
SPG21 abhydrolase domain containing, maspardin
Rh blood group D antigen
NFKB inhibitor delta
IQ motif containing GTPase activating protein 1
interleukin 6 receptor
triple QxxK/R motif containing
zinc finger protein 706
dynein axonemal heavy chain 8
zinc finger DHHC-type palmitoyltransferase 21
V-set pre-B cell surrogate light chain 3
DnaJ heat shock protein family (Hsp40) member C1
PWP1 homolog, endonuclease
uracil DNA glycosylase
rogdi atypical leucine zipper

C-X-C motif chemokine receptor 5
AKT interacting protein
zinc finger protein 710
solute carrier family 22 member 23
aldehyde dehydrogenase 5 family member A1
patatin like phospholipase domain containing 2
cytochrome b5 reductase 1
ankyrin repeat domain 9
GABA type A receptor associated protein like 2
lysophosphatidic acid receptor 5
solute carrier family 11 member 1
cyclin L2
N-acylsphingosine amidohydrolase 1
Rho GTPase activating protein 11A
syndecan 3
CASP8 and FADD like apoptosis regulator
ribonuclease A family member 2
furin, paired basic amino acid cleaving enzyme
praja ring finger ubiquitin ligase 2
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
transmembrane protein 63B
transcription elongation factor A3
LDL receptor related protein 10
CDP-diacylglycerol synthase 2
novel protein, TPD52-MRPS28 readthrough
G protein-coupled receptor 132
BUB1 mitotic checkpoint serine/threonine kinase
steroid 5 alpha-reductase 1
phosphatidylinositol transfer protein membrane associated 2
RAR related orphan receptor A
baculoviral IAP repeat containing 5
protein kinase C alpha
NFAT activating protein with ITAM motif 1
guanylate cyclase 2D, retinal
CTD phosphatase subunit 1
HIVEP zinc finger 2
cornichon family AMPA receptor auxiliary protein 4
NOP2/Sun RNA methyltransferase family member 7
monooxygenase DBH like 1
cytochrome P450 family 46 subfamily A member 1
granzyme A
cyclase associated actin cytoskeleton regulatory protein 1
exostosin glycosyltransferase 1
coiled-coil domain containing 69
interferon related developmental regulator 1
lymphotoxin beta

cysteine rich secretory protein 3
FA complementation group I
tubulin alpha 1a
migration and invasion inhibitory protein
lamin B receptor
Sp1 transcription factor
CDC like kinase 3
WD repeat domain, phosphoinositide interacting 1
DLG associated protein 5
cytochrome b5 type B
nuclear factor of activated T cells 2 interacting protein
syndecan 2
ubiquitin conjugating enzyme E2 D3
oxidized low density lipoprotein receptor 1
scaffold protein involved in DNA repair
spindlin interactor and repressor of chromatin binding
DiGeorge syndrome critical region gene 2
COPI coat complex subunit alpha
matrix metalloproteinase 19
integrin subunit alpha 4
Ras association domain family member 2
zinc finger DHHC-type containing 24
cysteine rich secretory protein 2
zinc finger protein 316
solute carrier family 26 member 6
CDK2 associated cullin domain 1
cyclin dependent kinase 12
KH and NYN domain containing
regulatory factor X2
solute carrier family 35 member E3
PBX homeobox interacting protein 1
megakaryocyte-associated tyrosine kinase
RAB19, member RAS oncogene family
cyclin B2
novel protein, SIRPB1-SIRPD readthrough
transmembrane protein 223
glycogen synthase kinase 3 beta
vesicle transport through interaction with t-SNAREs 1B
clathrin heavy chain
microtubule affinity regulating kinase 3
KIAA0513
cathepsin Z
CFAP97 domain containing 2
endonuclease domain containing 1
sushi domain containing 4
hematopoietic SH2 domain containing

integrin subunit alpha 6
eukaryotic translation initiation factor 4 gamma 2
novel protein
granulin precursor
sialic acid binding Ig like lectin 15
RAS like proto-oncogene B
programmed cell death 1
discs large MAGUK scaffold protein 5
DNA topoisomerase II alpha
family with sequence similarity 53 member C
kinesin family member 27
serpin family B member 8
VOPP1 WW domain binding protein
acyl-CoA oxidase 1
Rac GTPase activating protein 1
protein kinase cAMP-dependent type I regulatory subunit beta
lysosomal trafficking regulator
hydroxysteroid 11-beta dehydrogenase 1
major histocompatibility complex, class II, DR alpha
ring finger protein 19B
cyclin E2
arrestin beta 2
heat shock protein family A (Hsp70) member 4
RPGR interacting protein 1
tissue factor pathway inhibitor
caspase recruitment domain family member 11
single stranded DNA binding protein 4
CD180 molecule
torsin family 4 member A
M-phase phosphoprotein 8
actin related protein 3
syndecan 1
tumor protein p73
polyamine oxidase
glutamic--pyruvic transaminase 2
capping actin protein of muscle Z-line subunit alpha 2
CD151 molecule (Raph blood group)
centrosomal protein 128
killer cell lectin like receptor G1
arylformamidase
TBC1 domain family member 3L
zinc finger protein 839
GINS complex subunit 2
photoreceptor disc component
cysteinyl-tRNA synthetase 1
thymocyte selection associated high mobility group box

microtubule associated scaffold protein 1
leucine rich repeat neuronal 3
phospholipase B domain containing 2
DNA topoisomerase III alpha
lysine demethylase 3B
rabaptin, RAB GTPase binding effector protein 1
tripartite motif containing 9
lipoic acid synthetase
lymphocyte cytosolic protein 1
lysophosphatidylcholine acyltransferase 2
family with sequence similarity 43 member A
phosphodiesterase 9A
protein phosphatase 4 regulatory subunit 1
PAT1 homolog 2
adenosine deaminase
enolase 1
guanylate cyclase 1 soluble subunit beta 1
cathepsin K
cyclin dependent kinase 1
KRAS proto-oncogene, GTPase
Rho GTPase activating protein 15
deleted in azoospermia like
autophagy related 4D cysteine peptidase
mitogen-activated protein kinase kinase kinase 14
olfactomedin like 2B
ATPase phospholipid transporting 11A
neuronal PAS domain protein 2
glyceraldehyde-3-phosphate dehydrogenase
solute carrier family 30 member 5
homeodomain interacting protein kinase 1
chromosome 1 open reading frame 61
coiled-coil domain containing 6
intercellular adhesion molecule 5
BTB domain and CNC homolog 1
laminin subunit beta 3
LYN proto-oncogene, Src family tyrosine kinase
CEBPZ opposite strand
formyl peptide receptor 1
ADP-ribosylserine hydrolase
synapsin III

CCR4-NOT transcription complex subunit 10
cytochrome P450 family 4 subfamily F member 12
kinesin family member 2C
dehydrogenase/reductase 7
spectrin beta, erythrocytic

E2F transcription factor 8
hexokinase 1
transmembrane O-mannosyltransferase targeting cadherins 2
pentraxin 3
zinc finger protein 131
phospholipase C delta 1
BLM RecQ like helicase
H3.3 histone A
minichromosome maintenance 10 replication initiation factor
RCC1 and BTB domain containing protein 2
TUB like protein 3
FA complementation group G
Rho guanine nucleotide exchange factor 12
sperm associated antigen 1
MAU2 sister chromatid cohesion factor
latexin
nuclear autoantigenic sperm protein
ring finger protein 123
cell division cycle associated 5
galectin 3
myelin protein zero like 3
oligodendrocyte transcription factor 1
BAF chromatin remodeling complex subunit BCL7A
WD and tetratricopeptide repeats 1
solute carrier family 4 member 3
transmembrane BAX inhibitor motif containing 1
serine hydroxymethyltransferase 2
plasminogen activator, urokinase receptor
trafficking kinesin protein 2
zinc finger RANBP2-type containing 1
solute carrier family 52 member 2
HECT domain E3 ubiquitin protein ligase 2
lipase maturation factor 2
low density lipoprotein receptor class A domain containing 2
kelch domain containing 8A
cyclin J like
ubiquitin conjugating enzyme E2 H
nucleoporin 160
OTU deubiquitinase with linear linkage specificity like
cytochrome b561 family member A3
adaptor related protein complex 5 subunit beta 1
musculin
complement C3d receptor 2
CREB regulated transcription coactivator 3
proliferating cell nuclear antigen
TNF receptor superfamily member 10c

cyclin D3
oxysterol binding protein like 2
damage specific DNA binding protein 2
refilin B
cytochrome P450 family 4 subfamily F member 3
protein disulfide isomerase family A member 6
chromosome 2 open reading frame 42
translocase of outer mitochondrial membrane 40 like
nudE neurodevelopment protein 1 like 1
transcription factor Dp-1
annexin A7
Rap guanine nucleotide exchange factor like 1
huntingtin interacting protein 1 related
mitofusin 2
cell division cycle associated 8
ATPase H⁺ transporting V0 subunit d1
nucleoporin 58
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1M
ubiquitin specific peptidase 12
MINDY lysine 48 deubiquitinase 1
NPC intracellular cholesterol transporter 1
death effector domain containing 2
Wnt family member 10B
torsin family 3 member A
cathepsin B
acid phosphatase 6, lysophosphatidic
protein phosphatase 3 catalytic subunit gamma
INO80 complex subunit E
zyxin
PTEN induced kinase 1
dispatched RND transporter family member 2
polypeptide N-acetylgalactosaminyltransferase 5
obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF
tropomyosin 3
huntingtin interacting protein 1
dishevelled associated activator of morphogenesis 1
transmembrane protein 163
tubulin tyrosine ligase like 4
ring finger protein 141
NCK associated protein 1 like
regulator of G protein signaling 14
talin 1
small integral membrane protein 35
transketolase
makorin ring finger protein 1
interleukin 1 receptor associated kinase 3

phospholipid scramblase 1
meiosis regulator and mRNA stability factor 1
translocase of inner mitochondrial membrane 9
late endosomal/lysosomal adaptor, MAPK and MTOR activator 5
zinc finger protein 90
choline phosphotransferase 1
novel protein, MINDY4 and AQP1 readthrough
mucolipin 2
DEAD-box helicase 27
asialoglycoprotein receptor 1
sterile alpha motif domain containing 3
coiled-coil domain containing 32
small ArfGAP2
aquaporin 3 (Gill blood group)
C-terminal Src kinase
kynurenine 3-monooxygenase
tetraspanin 9
mastermind like transcriptional coactivator 1
latent transforming growth factor beta binding protein 4
potassium channel tetramerization domain containing 20
kelch repeat and BTB domain containing 8
solute carrier family 22 member 14
structural maintenance of chromosomes 6
G-patch domain containing 11
serine palmitoyltransferase small subunit B
Rap guanine nucleotide exchange factor 5
actin filament associated protein 1
ATPase family AAA domain containing 2
insulin like growth factor binding protein 2
ASXL transcriptional regulator 2
N-acetylglucosamine-1-phosphate transferase subunit gamma
S100 calcium binding protein A11
replication factor C subunit 3
multimerin 1
calpain 12
gelsolin
GEN1 Holliday junction 5' flap endonuclease
tripartite motif containing 25
inositol polyphosphate phosphatase like 1
novel protein
glycophorin B (MNS blood group)
basic leucine zipper and W2 domains 2
small vasohibin binding protein
acetylcholinesterase (Cartwright blood group)
cyclin D1 binding protein 1
capping actin protein, gelsolin like

pyrroline-5-carboxylate reductase 3
selectin L
adenosine kinase
marker of proliferation Ki-67
TBC1 domain family member 14
RUN and SH3 domain containing 2
DnaJ heat shock protein family (Hsp40) member B5
UDP-glucose 6-dehydrogenase
ring finger protein 11
synapsin II
kynurenine aminotransferase 3
Ras suppressor protein 1
pyruvate dehydrogenase kinase 1
oxysterol binding protein like 3
beta-1,3-galactosyltransferase 2
family with sequence similarity 81 member A
ferrochelatase
growth arrest specific 2 like 1
ataxin 7 like 3
DLC1 Rho GTPase activating protein
alpha kinase 1
transcription factor 7 like 2
decapping enzyme, scavenger
RAB8B, member RAS oncogene family
selenoprotein T
transmembrane protein 86B
Cbl proto-oncogene
origin recognition complex subunit 1
BORCS8-MEF2B readthrough
T cell activation RhoGTPase activating protein
phosphoinositide-3-kinase adaptor protein 1
dimethylarginine dimethylaminohydrolase 2
solute carrier family 6 member 9
ArfGAP with GTPase domain, ankyrin repeat and PH domain 1
solute carrier family 14 member 1 (Kidd blood group)
small nuclear ribonucleoprotein U11/U12 subunit 25
CDC28 protein kinase regulatory subunit 2
ATPase family AAA domain containing 3A
hypoxia up-regulated 1
solute carrier family 4 member 7
torsin 1A interacting protein 2
KN motif and ankyrin repeat domains 2
actin related protein 2
glutaminy-peptide cyclotransferase like
chromodomain helicase DNA binding protein 3
microtubule associated monooxygenase, calponin and LIM domain containing 2

cytochrome b5 reductase 3
notch receptor 4
tRNA splicing endonuclease subunit 54
alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase B
sphingomyelin synthase 1
PBX homeobox 1
myosin light chain 9
DnaJ heat shock protein family (Hsp40) member C6
poly(ADP-ribose) polymerase 2
DEP domain containing 1
netrin G2
iron-sulfur cluster assembly 1
zinc finger DHHC-type palmitoyltransferase 23
SLIT-ROBO Rho GTPase activating protein 2
novel protein
FA complementation group A
SEC11 homolog C, signal peptidase complex subunit
latent transforming growth factor beta binding protein 1
F-box protein 5
centromere protein F
twincillin actin binding protein 2
PDZ and LIM domain 7
prostaglandin E receptor 4
microtubule associated monooxygenase, calponin and LIM domain containing 1
nudix hydrolase 4
coiled-coil domain containing 107
5'-nucleotidase domain containing 2
free fatty acid receptor 2
leukocyte immunoglobulin like receptor B5
PX domain containing 1
major facilitator superfamily domain containing 2B
5'-aminolevulinate synthase 1
DEXH-box helicase 34
LIM zinc finger domain containing 1
TIMP metalloproteinase inhibitor 2
rubicon like autophagy enhancer
lymphocyte activating 3
ubiquitin specific peptidase like 1
MAF bZIP transcription factor
zinc finger and BTB domain containing 16
transmembrane 131 like
carbohydrate sulfotransferase 13
myosin binding protein C3
activating signal cointegrator 1 complex subunit 1
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1K
SRP receptor subunit beta

novel protein
phosphatidylethanolamine binding protein 4
chromosome 12 open reading frame 75
thymidine kinase 2
desmoplakin
transportin 3
autophagy related 7
acyl-CoA binding domain containing 3
transportin 1
ribose 5-phosphate isomerase A
eomesodermin
dual specificity phosphatase 3
solute carrier family 16 member 6
NADH:ubiquinone oxidoreductase complex assembly factor 7
plexin B2
leucine zipper tumor suppressor family member 3
HRas proto-oncogene, GTPase
bisphosphoglycerate mutase
defensin alpha 4
BICD cargo adaptor 2
NECAP endocytosis associated 2
SET domain containing 5
G-patch domain containing 1
guanosine monophosphate reductase 2
transmembrane protein 268
MAPK interacting serine/threonine kinase 1
VANGL planar cell polarity protein 1
Rho guanine nucleotide exchange factor 17
PDZ domain containing 8
potassium voltage-gated channel subfamily Q member 1
keratin 23
clusterin
thromboxane A2 receptor
sterol regulatory element binding transcription factor 1
calcineurin like EF-hand protein 1
cellular repressor of E1A stimulated genes 1
structural maintenance of chromosomes 2
PR/SET domain 1
leucine rich repeat containing 6
integrin linked kinase
membrane metalloendopeptidase
phosphoglucomutase 2
WW domain containing adaptor with coiled-coil
adhesion G protein-coupled receptor D1
glycine decarboxylase
tetratricopeptide repeat domain 9

HOP homeobox
PDZ domain containing 3
formyl peptide receptor 2
kinesin family member 20A
SPT16 homolog, facilitates chromatin remodeling subunit
kinesin family member 18A
cytochrome P450 family 26 subfamily B member 1
solute carrier family 40 member 1
zinc finger protein 274
high mobility group nucleosomal binding domain 4
midnolin
pleckstrin 2
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8
protein kinase cAMP-activated catalytic subunit alpha
MAX dimerization protein 1
Kruppel like factor 1
FERM domain containing 8
hyaluronan mediated motility receptor
glyoxylate reductase 1 homolog
LLGL scribble cell polarity complex component 2
polypeptide N-acetylgalactosaminyltransferase 3
RNA binding motif protein 4B
cell adhesion molecule 1
Abelson helper integration site 1
ISY1-RAB43 readthrough
serpin family B member 2
GPN-loop GTPase 2
endoplasmic reticulum oxidoreductase 1 alpha
GEM interacting protein
spindle and kinetochore associated complex subunit 2
phosphoglycerate mutase 1
nudix hydrolase 16
eukaryotic translation initiation factor 1B
helicase, lymphoid specific
selenoprotein S
vav guanine nucleotide exchange factor 2
RNA binding motif protein 38
HPS3 biogenesis of lysosomal organelles complex 2 subunit 1
LIM domain kinase 1
TOG array regulator of axonemal microtubules 2
EBP like
serine/threonine kinase 10
zinc finger protein 592
kinase D interacting substrate 220
Ly1 antibody reactive
putative homeodomain transcription factor 1

jade family PHD finger 2
basal body orientation factor 1
RAS related
protein kinase cAMP-dependent type II regulatory subunit beta
extra spindle pole bodies like 1, separase
interleukin 2 receptor subunit beta
serine incorporator 3
N-alpha-acetyltransferase 40, NatD catalytic subunit
WASP family member 2
cell division cycle 42
NEDD4 like E3 ubiquitin protein ligase
TAP binding protein
endoplasmic reticulum to nucleus signaling 1
transmembrane protein 64
TBC1 domain family member 22B
HPS1 biogenesis of lysosomal organelles complex 3 subunit 1
interleukin 17 receptor E
GINS complex subunit 4
MSL complex subunit 1
tRNA phosphotransferase 1
ADP-ribosylhydrolase like 1
vinculin
tripartite motif containing 24
leucine rich repeat neuronal 1
GATA zinc finger domain containing 2A
WD repeat and SOCS box containing 1
complement C5
poly(ADP-ribose) polymerase family member 15
DEP domain containing 1B
solute carrier family 2 member 1
LETM1 domain containing 1
cadherin like and PC-esterase domain containing 1
nucleoporin 155
complement C3b/C4b receptor 1 like
Wnt family member 10A
ADAM metallopeptidase domain 10
chromosome 10 open reading frame 105
MICAL like 1
pro-platelet basic protein
cAMP responsive element binding protein 3 like 2
fatty acid desaturase 1
1-acylglycerol-3-phosphate O-acyltransferase 2
aminolevulinate dehydratase
joining chain of multimeric IgA and IgM
adhesion G protein-coupled receptor E3
SHOC2 leucine rich repeat scaffold protein

RAB3A interacting protein
solute carrier family 24 member 4
BTB domain containing 11
inositol 1,4,5-trisphosphate receptor interacting protein
TraB domain containing 2A
nucleoporin 214
phosphoribosylaminoimidazole carboxylase and phosphoribosylaminoimidazolesucc
phosphatidylinositol specific phospholipase C X domain containing 2
transforming acidic coiled-coil containing protein 3
glucosamine (N-acetyl)-6-sulfatase
chloride intracellular channel 1
eukaryotic translation initiation factor 2 alpha kinase 1
oxysterol binding protein like 7
MCF.2 cell line derived transforming sequence-like 2
sorting nexin 16
adaptor related protein complex 2 subunit beta 1
COMM domain containing 5
ferritin heavy chain 1
transforming growth factor beta receptor 1
C-type lectin domain containing 10A
lysophospholipase 1
lipocalin 12
kinesin family member 5C
creatine kinase B
tectonin beta-propeller repeat containing 1
cathepsin A
CTD small phosphatase like 2
F2R like thrombin or trypsin receptor 3
outer dense fiber of sperm tails 2
ankyrin repeat domain 55
centromere protein H
zinc finger protein 3
Kell metallo-endopeptidase (Kell blood group)
3-hydroxyacyl-CoA dehydratase 1
lipopolysaccharide induced TNF factor
follistatin like 1
myosin IB
integrator complex subunit 6
transcobalamin 1
family with sequence similarity 111 member A
phospholipase A2 group XIA
serine incorporator 2
zinc finger protein 684
cryptochrome circadian regulator 1
ADAM metallopeptidase with thrombospondin type 1 motif 17
PIF1 5'-to-3' DNA helicase

abhydrolase domain containing 18
syntaphilin
tropomodulin 1
TNF receptor superfamily member 17
RAN binding protein 10
ankyrin 1
C-type lectin domain containing 9A
ubiquitin conjugating enzyme E2 O
secretory leukocyte peptidase inhibitor
V-set and transmembrane domain containing 1
protein tyrosine phosphatase receptor type F
enhancer of zeste 2 polycomb repressive complex 2 subunit
protein tyrosine phosphatase receptor type N
sterile alpha motif domain containing 4A
alpha hemoglobin stabilizing protein
chromosome 11 open reading frame 24
WASP family member 1
proline-serine-threonine phosphatase interacting protein 1
growth arrest and DNA damage inducible alpha
triggering receptor expressed on myeloid cells like 1
maestro heat like repeat family member 8
aquaporin 10
FERM domain containing 4B
dynein axonemal assembly factor 2
regulator of G protein signaling 3
C-type lectin domain containing 17A
siah E3 ubiquitin protein ligase 2
microtubule associated monooxygenase, calponin and LIM domain containing 3
NPL4 homolog, ubiquitin recognition factor
solute carrier family 66 member 2
fatty acyl-CoA reductase 2
short transmembrane mitochondrial protein 1
TATA-box binding protein associated factor 15
taste 1 receptor member 3
exonuclease 1
spermatogenesis associated 6
FYVE, RhoGEF and PH domain containing 2
retinoic acid receptor alpha
solute carrier family 15 member 3
F-box protein 34
sterol O-acyltransferase 1
BCL9 transcription coactivator
homocysteine inducible ER protein with ubiquitin like domain 1
zinc finger DHHC-type palmitoyltransferase 14
sorcin
methionine sulfoxide reductase B1

GDP-mannose pyrophosphorylase A
calcium sensing receptor
fukutin related protein
adhesion G protein-coupled receptor G1
MAX interactor 1, dimerization protein
lysosomal associated membrane protein 1
histamine N-methyltransferase
tet methylcytosine dioxygenase 3
spectrin alpha, erythrocytic 1
nectin cell adhesion molecule 1
decapping mRNA 2
Rab9 effector protein with kelch motifs
ZFP36 ring finger protein like 2
lysine demethylase 7A
SH2B adaptor protein 2
dishevelled segment polarity protein 3
thioredoxin domain containing 11
chloride intracellular channel 3
glycerophosphodiester phosphodiesterase 1
SH3 domain binding glutamate rich protein like 2
solute carrier family 22 member 17
methyltransferase like 2A
ependymin related 1
complement C1s
ankyrin repeat and MYND domain containing 2
natural killer cell granule protein 7
nuclear receptor subfamily 6 group A member 1
RAB3D, member RAS oncogene family
TBC1 domain family member 16
neuropilin and tolloid like 2
noggin
plectin
caveolin 1
trans-golgi network protein 2
ArfGAP with FG repeats 2
TNF receptor superfamily member 10d
G protein-coupled receptor 68
myosin phosphatase Rho interacting protein
regulator of cell cycle
glutaredoxin 5
Holliday junction recognition protein
ubiquitin interaction motif containing 1
platelet endothelial aggregation receptor 1
envoplakin
zinc finger CCHC-type containing 7
intelectin 1

transforming growth factor beta receptor 3
ubiquitin protein ligase E3B
calmodulin binding transcription activator 2
putative homeodomain transcription factor 2
prostate transmembrane protein, androgen induced 1
ankyrin repeat domain 50
fumarylacetoacetate hydrolase domain containing 1
caspase 4
coiled-coil domain containing 106
calpain 5
zinc finger protein 737
myotubularin related protein 12
adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 1
TRIO and F-actin binding protein
actin related protein 2/3 complex subunit 5 like
solute carrier family 19 member 1
caldesmon 1
semaphorin 6B
RAD54 like
family with sequence similarity 167 member A
Fas associated via death domain
bromodomain containing 4
NEDD4 E3 ubiquitin protein ligase
membrane associated ring-CH-type finger 8
C-C motif chemokine receptor 4
CDV3 homolog
EPH receptor A1
NLR family CARD domain containing 3
cysteine rich with EGF like domains 2
TIR domain containing adaptor protein
cyclin dependent kinase inhibitor 1C
tripartite motif containing 58
family with sequence similarity 136 member A
discs large MAGUK scaffold protein 4
aminoacyl tRNA synthetase complex interacting multifunctional protein 2
YY1 associated protein 1
butyrophilin like 8
sorting nexin family member 21
methionine sulfoxide reductase B3
serine/threonine kinase 4
catalase
interleukin 32
ORAI calcium release-activated calcium modulator 2
zinc finger protein 33A
lipase family member N
cell division cycle associated 3

nuclear receptor binding SET domain protein 2
G protein subunit alpha 12
erythrocyte membrane protein band 4.2
regulator of chromosome condensation 1
zinc finger protein 862
mitochondrial fission regulator 2
protein phosphatase 2 regulatory subunit B'beta
cadherin 26
RNA polymerase II subunit D
RAB GTPase activating protein 1 like
syntaxin 3
triggering receptor expressed on myeloid cells like 2
mitogen-activated protein kinase 3
bone morphogenetic protein receptor type 1A
SRY-box transcription factor 13
LY6G6F-LY6G6D readthrough
sequestosome 1
FAM20C golgi associated secretory pathway kinase
lymphatic vessel endothelial hyaluronan receptor 1
DDB1 and CUL4 associated factor 12
kinesin family member 22
proteoglycan 4
Scm like with four mbt domains 1
BTB domain containing 8
family with sequence similarity 228 member B
family with sequence similarity 110 member A
intermediate filament family orphan 2
solute carrier family 26 member 11
leptin receptor overlapping transcript like 1
H1.0 linker histone
reticulophagy regulator family member 2
sorbitol dehydrogenase
GTP binding protein 1
osteoclast stimulating factor 1
ATP synthase inhibitory factor subunit 1
aprataxin
zinc finger and BTB domain containing 22
family with sequence similarity 104 member A
secreted frizzled related protein 2
ceramide transporter 1
ArfGAP with FG repeats 1
granulysin
syntabulin
striatin 4
potassium channel modulatory factor 1
cullin 4A

geminin DNA replication inhibitor
spire type actin nucleation factor 2
family with sequence similarity 89 member A
CEA cell adhesion molecule 6
transmembrane and ubiquitin like domain containing 2
platelet and endothelial cell adhesion molecule 1
myosin VC
AT-rich interaction domain 3A
KIAA0232
regulatory factor X5
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1
proprotein convertase subtilisin/kexin type 6
novel transcript
ankyrin repeat and SOCS box containing 7
homeostatic iron regulator
SCY1 like pseudokinase 2
tumor protein p53 inducible protein 3
p53-induced death domain protein 1
non-SMC condensin II complex subunit G2
MYCL proto-oncogene, bHLH transcription factor
actin related protein 1A
TSC22 domain family member 4
tensin 1
Rho/Rac guanine nucleotide exchange factor 2
inositol hexakisphosphate kinase 2
H2B clustered histone 21
phosphatidylinositol-4,5-bisphosphate 4-phosphatase 2
deoxynucleotidyltransferase terminal interacting protein 1
glutamic-oxaloacetic transaminase 1
nucleoporin 153
treacle ribosome biogenesis factor 1
coiled-coil domain containing 137
aspartate beta-hydroxylase
staufen double-stranded RNA binding protein 1
establishment of sister chromatid cohesion N-acetyltransferase 2
SRR1 domain containing
gonadotropin releasing hormone 1
zinc finger protein 230
round spermatid basic protein 1
G protein-coupled receptor 20
carboxylesterase 1
serine/threonine kinase 3
BCL6 antisense 1
TNF superfamily member 14
Ral GTPase activating protein catalytic subunit alpha 2
Rh blood group CcEe antigens

aldo-keto reductase family 1 member E2
family with sequence similarity 83 member G
serine/threonine kinase 11
ankyrin repeat and SOCS box containing 1
DnaJ heat shock protein family (Hsp40) member B2
transport and golgi organization 2 homolog
sidekick cell adhesion molecule 1
G protein subunit gamma 2
BOP1 ribosomal biogenesis factor
membrane spanning 4-domains A6A
hemoglobin subunit delta
CD48 molecule
G protein-coupled receptor 135
RAB11 family interacting protein 4
family with sequence similarity 83 member D
enhancer of mRNA decapping 3
cilia and flagella associated protein 54
CASC3 exon junction complex subunit
serine protease 33
RAD23 homolog A, nucleotide excision repair protein
glycoprotein IX platelet
adaptor related protein complex 2 subunit alpha 1
S100 calcium binding protein P
oxidoreductase NAD binding domain containing 1
GRAM domain containing 1B
BCL2 like 12
apoptosis inducing factor mitochondria associated 2
NIPA magnesium transporter 1
myotubularin related protein 10
BRCA1 interacting protein C-terminal helicase 1
TAL bHLH transcription factor 1, erythroid differentiation factor
Jun proto-oncogene, AP-1 transcription factor subunit
lysosomal associated membrane protein family member 5
transmembrane protein 33
adducin 1
interferon stimulated exonuclease gene 20
megakaryocyte and platelet inhibitory receptor G6b
UDP-glucose ceramide glucosyltransferase
stromal cell derived factor 2
growth hormone regulated TBC protein 1
granzyme H
transducer of ERBB2, 2
CKLF like MARVEL transmembrane domain containing 3
low density lipoprotein receptor
switching B cell complex subunit SWAP70
cell division cycle 14B

hypoxia inducible factor 1 subunit alpha
sarcoglycan epsilon
G protein-coupled receptor 146
SREBF chaperone
FLII actin remodeling protein
solute carrier family 25 member 4
ADP ribosylation factor guanine nucleotide exchange factor 1
nuclear receptor binding factor 2
SPC24 component of NDC80 kinetochore complex
mesencephalic astrocyte derived neurotrophic factor
karyopherin subunit alpha 2
fumarylacetoacetate hydrolase
phospholipase D2
DNA replication and sister chromatid cohesion 1
sarcoglycan beta
procollagen-lysine,2-oxoglutarate 5-dioxygenase 2
UTP4 small subunit processome component
heat shock transcription factor 4
myosin VIIB
lipid droplet associated hydrolase
tubulin beta 1 class VI
prostaglandin-endoperoxide synthase 1
transmembrane protein 183A
solute carrier family 22 member 13
ATP binding cassette subfamily A member 13
lysosomal protein transmembrane 4 alpha
hydroxyacylglutathione hydrolase
DNA polymerase theta
tubulin polyglutamylase complex subunit 2
tripartite motif containing 65
pellino E3 ubiquitin protein ligase family member 3
myosin XIX
leucine rich repeat containing 7
NDRG family member 3
microtubule crosslinking factor 1
TOPBP1 interacting checkpoint and replication regulator
peroxisomal trans-2-enoyl-CoA reductase
cytohesin 3
transaldolase 1
G protein subunit beta 2
protein tyrosine phosphatase receptor type C
CYLD lysine 63 deubiquitinase
SKI like proto-oncogene
ribonuclease K
G1 to S phase transition 1
anaphase promoting complex subunit 15

myosin ID
potassium two pore domain channel subfamily K member 17
autocrine motility factor receptor
insulin like growth factor 2 mRNA binding protein 2
family with sequence similarity 160 member B1
C-type lectin domain containing 6A
protein phosphatase 1 regulatory inhibitor subunit 14B
transmembrane and coiled-coil domain family 2
Rho GTPase activating protein 21
chromosome 1 open reading frame 216
MLLT3 super elongation complex subunit
chondrolectin
sestrin 1
period circadian regulator 1
dual specificity phosphatase 22
H2A.Z variant histone 2
cleavage and polyadenylation specific factor 4
casein kinase 1 delta
tetratricopeptide repeat domain 21A
UHRF1 binding protein 1 like
selenium binding protein 1
dedicator of cytokinesis 2
Rho related BTB domain containing 2
G protein-coupled receptor 18
chloride intracellular channel 4
uroporphyrinogen decarboxylase
NOP56 ribonucleoprotein
pleckstrin homology domain containing A5
ATP/GTP binding protein like 5
proteasome 20S subunit alpha 1
phosphoprotein membrane anchor with glycosphingolipid microdomains 1
biliverdin reductase B
atypical chemokine receptor 1 (Duffy blood group)
DEAF1 transcription factor
ring finger protein 14
kinesin family member 21B
malic enzyme 2
Wnt ligand secretion mediator
chromodomain Y like 2
1-acylglycerol-3-phosphate O-acyltransferase 5
THADA armadillo repeat containing
striated muscle enriched protein kinase
eva-1 homolog C
kelch like family member 18
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta
transferrin receptor 2

copine 2
CD2 molecule
diphthamide biosynthesis 7
NBPF member 14
carbonic anhydrase 1
centromere protein N
dachsous cadherin-related 1
zinc finger protein 85
STT3 oligosaccharyltransferase complex catalytic subunit A
very low density lipoprotein receptor
zinc finger and BTB domain containing 18
chromosome 9 open reading frame 40
5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase
stomatin
secreted protein acidic and cysteine rich
four and a half LIM domains 2
CXXC finger protein 1
leucine rich repeat containing 75B
sorting nexin 5
CTD small phosphatase like
uridine-cytidine kinase 2
phosphatase domain containing paladin 1
TEF transcription factor, PAR bZIP family member
centromere protein M
TEA domain transcription factor 2
glycerophosphocholine phosphodiesterase 1
ACD shelterin complex subunit and telomerase recruitment factor
sialic acid acetyltransferase
ATP binding cassette subfamily C member 5
EH domain containing 4
hyaluronan and proteoglycan link protein 3
STE20 related adaptor beta
cold shock domain containing E1
myeloperoxidase
collagen like tail subunit of asymmetric acetylcholinesterase
regulator of G protein signaling 10
MORN repeat containing 1
hemogen
SH3 domain containing GRB2 like 1, endophilin A2
Krüppel like factor 13
transglutaminase 2
mannose receptor C type 2
lymphoid enhancer binding factor 1
proline rich basic protein 1
ring finger protein 4
heparin binding growth factor

mediator complex subunit 16
chromodomain Y like
solute carrier family 4 member 1 (Diego blood group)
N-alpha-acetyltransferase 35, NatC auxiliary subunit
hydroxymethylbilane synthase
TOX high mobility group box family member 4
calcium voltage-gated channel auxiliary subunit beta 1
chromosome 12 open reading frame 45
NDC1 transmembrane nucleoporin
chromosome 1 open reading frame 198
Wnt family member 7A
interleukin 12A
TSPY like 5
lysine acetyltransferase 6A
DnaJ heat shock protein family (Hsp40) member A2
translocase of inner mitochondrial membrane 10
transmembrane protein 121B
collagen type XVII alpha 1 chain
fatty acid hydroxylase domain containing 2
nucleolar protein 4 like
translocator protein 2
sphingosine-1-phosphate phosphatase 2
D-glutamate cyclase
solute carrier family 16 member 4
DNA polymerase lambda
RAN binding protein 9
killer cell lectin like receptor C1
sialic acid binding Ig like lectin 8
lymphocyte specific protein 1
basic leucine zipper ATF-like transcription factor
nuclear receptor subfamily 4 group A member 1
bestrophin 1
SRA stem-loop interacting RNA binding protein
serine protease 41
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
cytoskeleton associated protein 2 like
ADP ribosylation factor like GTPase 6 interacting protein 5
pyruvate dehydrogenase phosphatase catalytic subunit 2
MYB binding protein 1a
teneurin transmembrane protein 4
glycophorin A (MNS blood group)
galectin 8
C-X-C motif chemokine ligand 5
phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetas
SID1 transmembrane family member 1
lysine acetyltransferase 2B

regulator of G protein signaling 19
coiled-coil domain containing 93
adhesion G protein-coupled receptor G5
thyroglobulin
solute carrier family 1 member 5
nucleic acid binding protein 1
cold inducible RNA binding protein
diacylglycerol kinase theta
cell division cycle 25A
leucine zipper and EF-hand containing transmembrane protein 1
translocase of outer mitochondrial membrane 40
solute carrier family 39 member 13
growth arrest and DNA damage inducible beta
methyltransferase like 1
S-phase kinase associated protein 2
arachidonate 12-lipoxygenase, 12S type
ubiquitin specific peptidase 38
translation machinery associated 16 homolog
ankyrin repeat domain 34A
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7
carbonic anhydrase 2
ZFP36 ring finger protein
novel protein
granzyme K
RAD50 interactor 1
protein tyrosine phosphatase receptor type S
mannosyl-oligosaccharide glucosidase
histidyl-tRNA synthetase 1
VPS9 domain containing 1
family with sequence similarity 120A opposite strand
synergism gamma
B-Raf proto-oncogene, serine/threonine kinase
centrosomal protein 78
interleukin 4 induced 1
kinesin family member 18B
protein-L-isoaspartate (D-aspartate) O-methyltransferase
zinc finger and BTB domain containing 47
proliferation-associated 2G4
zinc finger protein 791
polycomb group ring finger 3
protein arginine methyltransferase 2
adenosine deaminase tRNA specific 1
X-ray repair cross complementing 3
apolipoprotein B mRNA editing enzyme catalytic subunit 3F
NmrA like redox sensor 1
cyclin dependent kinase inhibitor 3

polynucleotide kinase 3'-phosphatase
hydroxyacyl-CoA dehydrogenase
copine 3
integrin subunit beta 5
MAF1 homolog, negative regulator of RNA polymerase III
maternal embryonic leucine zipper kinase
ribosomal protein S6 kinase A1
sodium channel modifier 1
quiescin sulfhydryl oxidase 2
spindle and kinetochore associated complex subunit 1
BCL2 like 1
signal-induced proliferation-associated 1
platelet derived growth factor D
SH3 domain binding protein 4
KH domain containing 1
zinc finger with KRAB and SCAN domains 7
autophagy related 4C cysteine peptidase
isocitrate dehydrogenase (NAD(+)) 3 catalytic subunit alpha
endoplasmic reticulum aminopeptidase 2
Rho GTPase activating protein 9
secernin 1
zinc finger and BTB domain containing 44
formin homology 2 domain containing 1
Rac family small GTPase 2
inositol-tetrakisphosphate 1-kinase
exportin 7
purine nucleoside phosphorylase
hemoglobin subunit theta 1
ubiquitin conjugating enzyme E2 V2
solute carrier family 41 member 2
BEN domain containing 7
oligodendrocyte transcription factor 2
G protein subunit alpha i3
alpha-L-fucosidase 1
apolipoprotein L domain containing 1
transmembrane protein 158 (gene/pseudogene)
DDB1 and CUL4 associated factor 4
TRIM39-RPP21 readthrough
ras homolog family member T2
sorting nexin 20
FAM3 metabolism regulating signaling molecule C
IQ motif containing N
CD63 molecule
potassium voltage-gated channel subfamily H member 2
GID complex subunit 4 homolog
ubiquitin specific peptidase 3

PMS1 homolog 1, mismatch repair system component
Fas ligand
CDC28 protein kinase regulatory subunit 1B
transmembrane protein 161A
interleukin 16
WBP2 N-terminal like
cell division cycle 34, ubiquitin conjugating enzyme
guanosine monophosphate reductase
phosphodiesterase 5A
aldehyde dehydrogenase 18 family member A1
cathepsin G
erythrocyte membrane protein band 4.1 like 4A
mitogen-activated protein kinase kinase kinase 9
fission, mitochondrial 1
spermatogenesis associated 20
solute carrier family 2 member 8
centrosomal protein 250
R3H domain containing 4
KIAA1191
zinc finger SWIM-type containing 6
protein disulfide isomerase family A member 4
long intergenic non-protein coding RNA 2218
actin related protein 2/3 complex subunit 5
homogentisate 1,2-dioxygenase
RasGEF domain family member 1A
dihydrolipoamide branched chain transacylase E2
ERGIC and golgi 2
2-oxoglutarate and iron dependent oxygenase domain containing 1
RAB6A, member RAS oncogene family
epithelial cell adhesion molecule
KN motif and ankyrin repeat domains 3
bridging integrator 3
ubiquitin protein ligase E3 component n-recogin 7
RELT like 2
solute carrier family 44 member 1
NAD kinase
actin related protein 8
potassium voltage-gated channel subfamily C member 4
CD300e molecule
WD repeat domain 5
eukaryotic translation initiation factor 4E nuclear import factor 1
nicotinamide riboside kinase 1
single stranded DNA binding protein 3
anaphase promoting complex subunit 7
interleukin 10
acyl-CoA synthetase medium chain family member 3

bromodomain and PHD finger containing 3
zinc finger FYVE-type containing 16
DBF4 zinc finger B
peroxiredoxin 6
RNA exonuclease 2
apolipoprotein L4
SH3 domain and tetratricopeptide repeats 2
FAM20B glycosaminoglycan xylosylkinase
adaptor related protein complex 1 subunit mu 1
Jupiter microtubule associated homolog 1
tripartite motif containing 10
CCAAT enhancer binding protein beta
novel transcript
pleckstrin homology and FYVE domain containing 1
DENN domain containing 4B
family with sequence similarity 78 member A
frizzled class receptor 5
fibrosin
coiled-coil-helix-coiled-coil-helix domain containing 4
kelch repeat and BTB domain containing 11
mucolipin 1
membrane associated ring-CH-type finger 6
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
family with sequence similarity 98 member A
SID1 transmembrane family member 2
nuclear factor I C
mitogen-activated protein kinase 8 interacting protein 1
scribble planar cell polarity protein
transmembrane protein 97
deleted in primary ciliary dyskinesia homolog (mouse)
chromosome 13 open reading frame 46
JAZF zinc finger 1
H2A.J histone
checkpoint kinase 2
PHD finger protein 20 like 1
abhydrolase domain containing 2, acylglycerol lipase
interleukin 1 receptor associated kinase 4
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta
ETS transcription factor ERG
NBR1 autophagy cargo receptor
novel protein, WDFY1-AP1S3 readthrough
microfibril associated protein 3 like
protein kinase cAMP-dependent type II regulatory subunit alpha
CCR4-NOT transcription complex subunit 6 like
nuclear factor I X
radial spoke head 3

fibronectin type III domain containing 11
dynactin subunit 2
fibronectin type III and SPRY domain containing 1
cation channel sperm associated 1
calpain 1
methylcrotonoyl-CoA carboxylase 2
ORMDL sphingolipid biosynthesis regulator 3
spondin 2
transmembrane protein 259
butyrophilin subfamily 3 member A3
CD8a molecule
schlafen family member 14
anaphase promoting complex subunit 5
TNFRSF1A associated via death domain
thymidine kinase 1
polypeptide N-acetylgalactosaminyltransferase 1
endoplasmic reticulum metalloproteinase 1
zinc finger protein 217
high mobility group nucleosome binding domain 1
CKLF like MARVEL transmembrane domain containing 6
myocyte enhancer factor 2A
chromosome 19 open reading frame 54
ATP binding cassette subfamily C member 6
KAT8 regulatory NSL complex subunit 2
c-Maf inducing protein
desumoylating isopeptidase 1
ADP ribosylation factor like GTPase 3
coronin 2A
small integral membrane protein 1 (Vel blood group)
acyl-CoA synthetase bubblegum family member 1
zinc finger E-box binding homeobox 1
pygopus family PHD finger 2
sphingomyelin phosphodiesterase 3
dual specificity tyrosine phosphorylation regulated kinase 4
asparaginyl-tRNA synthetase 2, mitochondrial
inhibin subunit beta A
GID complex subunit 8 homolog
neuralized E3 ubiquitin protein ligase 1
guanylyl cyclase domain containing 1
optineurin
LSM6 homolog, U6 small nuclear RNA and mRNA degradation associated
SAP30 like
ankyrin and armadillo repeat containing
chromosome 14 open reading frame 93
piezo type mechanosensitive ion channel component 1
myosin IE

zinc finger protein 57
small nuclear ribonucleoprotein U5 subunit 40
Ras related GTP binding D
claudin domain containing 2
tropomyosin 4
thiosulfate sulfurtransferase like domain containing 3
zinc and ring finger 2
solute carrier family 12 member 6
exocyst complex component 3 like 1
catenin alpha 1
FES proto-oncogene, tyrosine kinase
cyclin dependent kinase 20
peptidylprolyl isomerase H
ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1
RAB3A interacting protein like 1
major vault protein
ring finger protein 146
ras homolog family member G
SET nuclear proto-oncogene
mortality factor 4 like 1
ANKH inorganic pyrophosphate transport regulator
Rho guanine nucleotide exchange factor 37
chromosome 3 open reading frame 20
NPR3 like, GATOR1 complex subunit
protein phosphatase 5 catalytic subunit
histone H3 associated protein kinase
notch receptor 1
solute carrier family 23 member 1
Rho GTPase activating protein 31
post-glycosylphosphatidylinositol attachment to proteins 6
amyloid beta precursor protein binding protein 2
janus kinase and microtubule interacting protein 2
RCSD domain containing 1
DnaJ heat shock protein family (Hsp40) member C9
solute carrier family 1 member 4
acidic nuclear phosphoprotein 32 family member B
DEAD-box helicase 42
chromosome 17 open reading frame 99
hemoglobin subunit mu
scavenger receptor family member expressed on T cells 1
armadillo repeat containing 12
galactose-3-O-sulfotransferase 4
FKBP prolyl isomerase 15
solute carrier family 35 member C2
unc-5 netrin receptor A
regulator of G protein signaling 6

coiled-coil domain containing 51
tet methylcytosine dioxygenase 2
Rab interacting lysosomal protein
NBPF member 10
C-C motif chemokine receptor 10
membrane associated ring-CH-type finger 2
tetraspanin 5
tumor protein p63
FERM domain containing 4A
exocyst complex component 7
family with sequence similarity 219 member A
integrin subunit alpha 1
TRAF3 interacting protein 3
BCL2 related protein A1
interferon induced protein with tetratricopeptide repeats 3
CGRP receptor component
tousled like kinase 1
ring finger protein 144B
synaptonemal complex protein 2
CD93 molecule
olfactory receptor family 2 subfamily W member 3
NLR family pyrin domain containing 3
zinc finger protein 212
interferon induced protein with tetratricopeptide repeats 1B
contactin associated protein 1
pyrin and HIN domain family member 1
HtrA serine peptidase 3
Kruppel like factor 3
SH3GL interacting endocytic adaptor 1
protein tyrosine phosphatase non-receptor type 12
transmembrane protein 214
transmembrane protein 144
FA core complex associated protein 24
succinyl-CoA:glutarate-CoA transferase
coiled-coil domain containing 126
phosphomevalonate kinase
solute carrier family 46 member 3
ubiquitin 1
SPOC domain containing 1
Kruppel like factor 9
DNA cross-link repair 1C
ectonucleoside triphosphate diphosphohydrolase 5 (inactive)
catenin alpha like 1
valosin containing protein lysine methyltransferase
exostosin like glycosyltransferase 2
clathrin heavy chain linker domain containing 1

CBFA2/RUNX1 partner transcriptional co-repressor 3
bone morphogenetic protein 8b
LIM and SH3 protein 1
inosine monophosphate dehydrogenase 2
lysine methyltransferase 5C
methionyl aminopeptidase 1
GDP-mannose pyrophosphorylase B
MDM2 binding protein
transmembrane protein 38A
methionine adenosyltransferase 2A
shieldin complex subunit 2
transcriptional adaptor 2B
tissue specific transplantation antigen P35B
chromosome 9 open reading frame 85
chromosome 4 open reading frame 50
large tumor suppressor kinase 2
interferon induced protein with tetratricopeptide repeats 1
Ras association domain family member 4
thioredoxin like 1
novel protein
misato mitochondrial distribution and morphology regulator 1
4-hydroxyphenylpyruvate dioxygenase
ubiquitin specific peptidase 45
PRKR interacting protein 1
TNF superfamily member 4
tumor protein p53 binding protein 2
beta-1,3-glucuronyltransferase 1
UEV and lactate/malate dehydrogenase domains
monoglyceride lipase
peptidase inhibitor 16
Rieske Fe-S domain containing
H2A clustered histone 6
solute carrier family 8 member A3
zyg-11 related cell cycle regulator
tripartite motif containing 27
CCAAT enhancer binding protein epsilon
RTF1 homolog, Paf1/RNA polymerase II complex component
NOC2 like nucleolar associated transcriptional repressor
protein arginine methyltransferase 1
transmembrane serine protease 3
glyoxalase I
ubiquilin 1
family with sequence similarity 214 member A
formin like 2
glomulin, FKBP associated protein
EGF like domain multiple 7

CBFA2/RUNX1 partner transcriptional co-repressor 2
lysine methyltransferase 5A
family with sequence similarity 210 member A
carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase
protein interacting with PRKCA 1
phospholipid phosphatase related 2
damage specific DNA binding protein 1
heat shock protein 90 beta family member 1
BCL2 like 11
ST13 Hsp70 interacting protein
tumor susceptibility 101
RecQ mediated genome instability 2
phosphodiesterase 3B
ninjurin 2
collagen type XXVI alpha 1 chain
neural cell adhesion molecule 1
tripartite motif containing 26
tudor domain containing 3
FIC domain protein adenylyltransferase
kinetochore associated 1
glutamine--fructose-6-phosphate transaminase 1
necient helix-loop-helix 1
IQ motif containing GTPase activating protein 2
shortage in chiasmata 1
major facilitator superfamily domain containing 2A
sine oculis binding protein homolog
tudor and KH domain containing
dematin actin binding protein
nuclear envelope integral membrane protein 1
transmembrane protein 88
RAS p21 protein activator 2
nectin cell adhesion molecule 2
progesterin and adipoQ receptor family member 9
Ras association domain family member 6
abhydrolase domain containing 12B
HYLS1 centriolar and ciliogenesis associated
cell migration inducing hyaluronidase 2
protein kinase cAMP-dependent type I regulatory subunit alpha
BAR/IMD domain containing adaptor protein 2
cut like homeobox 2
bridging integrator 1
proteasomal ATPase associated factor 1
proteasome 26S subunit, non-ATPase 4
Rho guanine nucleotide exchange factor 19
mitotic arrest deficient 2 like 1
glutamate-ammonia ligase

C2 calcium dependent domain containing 5
leucine rich melanocyte differentiation associated
solute carrier family 25 member 25
novel protein, identical to neuroblastoma breakpoint family, member 19 NBPF19
serine peptidase inhibitor Kazal type 8 (putative)
major facilitator superfamily domain containing 1
phenylalanyl-tRNA synthetase subunit beta
DIRAS family GTPase 1
vitamin K epoxide reductase complex subunit 1 like 1
RUN and FYVE domain containing 1
amine oxidase copper containing 1
ER membrane protein complex subunit 3
syntaxin 10
transmembrane protein 175
BAF chromatin remodeling complex subunit BCL7C
interferon induced transmembrane protein 2
proline rich transmembrane protein 3
thimet oligopeptidase 1
threonyl-tRNA synthetase 2, mitochondrial
chitinase 1
MYC associated factor X
aquaporin 1 (Colton blood group)
family with sequence similarity 210 member B
elongator acetyltransferase complex subunit 3
SMAD family member 1
protein phosphatase 6 regulatory subunit 1
serglycin
N-terminal glutamine amidase 1
PBX homeobox 4
killer cell lectin like receptor F1
mitochondrial rRNA methyltransferase 1
ribonuclease P/MRP subunit p38
collagen type X alpha 1 chain
interleukin 18 binding protein
lymphocyte antigen 6 family member E
flagellum associated containing coiled-coil domains 1
double PHD fingers 2
ligand dependent nuclear receptor corepressor like
G protein-coupled receptor 55
MYB proto-oncogene, transcription factor
kinesin family member 19
glucosidase II alpha subunit
NIN1 (RPN12) binding protein 1 homolog
serine and arginine rich splicing factor 8
G protein subunit gamma 11
coiled-coil domain containing 78

C-C motif chemokine receptor 7
WD repeat domain 62
NADH:ubiquinone oxidoreductase complex assembly factor 1
period circadian regulator 3
coactivator associated arginine methyltransferase 1
family with sequence similarity 217 member B
chromosome 16 open reading frame 87
karyopherin subunit alpha 4
UDP-glucose pyrophosphorylase 2
TNF receptor superfamily member 11a
erythroferrone
integrator complex subunit 7
chromosome 16 open reading frame 74
ventricular zone expressed PH domain containing 1
FA complementation group D2
3-hydroxyacyl-CoA dehydratase 3
radial spoke head component 9
GIPC PDZ domain containing family member 3
leukotriene B4 receptor
pyruvate dehydrogenase kinase 2
KIAA1671
G protein-coupled receptor kinase 3
shisa family member 7
Fc fragment of IgM receptor
aurora kinase A
thioredoxin reductase 3
SH2 domain containing 3C
Ras protein specific guanine nucleotide releasing factor 2
cytochrome b5 type A
aryl hydrocarbon receptor nuclear translocator like
galactosidase beta 1 like 2
HIRA interacting protein 3
FCH and double SH3 domains 2
WD repeat domain 25
synuclein alpha
novel protein
galactosidase beta 1 like 3
DNA replication fork stabilization factor DONSON
3-hydroxyisobutyrate dehydrogenase
tigger transposable element derived 5
vascular endothelial growth factor A
MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
acid phosphatase 1
spindle and kinetochore associated complex subunit 3
spexin hormone
myosin heavy chain 9

nucleoporin 98 and 96 precursor
FAST kinase domains 1
testis specific serine kinase 6
proline rich nuclear receptor coactivator 1
polyribonucleotide nucleotidyltransferase 1
ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 1
cysteinyl-tRNA synthetase 2, mitochondrial
Ras association domain family member 5
suppressor of variegation 3-9 homolog 2
leucine rich repeat containing 8 VRAC subunit A
spliceosome associated factor 3, U4/U6 recycling protein
dihydropyrimidine dehydrogenase
adaptor related protein complex 2 subunit mu 1
N-acetylneuraminase synthase
proteasome 26S subunit, non-ATPase 1
solute carrier family 25 member 22
BCL2 interacting protein 3 like
SP140 nuclear body protein like
exocyst complex component 6
legumain
5'-nucleotidase domain containing 1
argonaute RISC component 4
basal cell adhesion molecule (Lutheran blood group)
phosphoglucomutase 2 like 1
calpain 14
SH2 domain containing 2A
kaptin, actin binding protein
isochorismatase domain containing 2
transmembrane protein 165
BAG cochaperone 6
TNF receptor superfamily member 1A
glycoprotein Ib platelet subunit alpha
cystatin B
InaF motif containing 2
nuclear receptor coactivator 6
elastase, neutrophil expressed
growth arrest specific 7
growth factor receptor bound protein 2
family with sequence similarity 153 member A
forkhead box J2
GRB10 interacting GYF protein 1
scavenger receptor class B member 1
zinc finger and SCAN domain containing 9
phosphodiesterase 6D
transmembrane protein 40
partner and localizer of BRCA2

argonaute RISC catalytic component 2
PEAK family member 3
non-SMC condensin II complex subunit H2
single stranded DNA binding protein 2
bromodomain adjacent to zinc finger domain 1B
basigin (Ok blood group)
centromere protein U
sorting nexin 13
ring finger protein, transmembrane 2
unc-13 homolog D
Pim-1 proto-oncogene, serine/threonine kinase
chromosome 15 open reading frame 40
inositol polyphosphate-5-phosphatase A
NUF2 component of NDC80 kinetochore complex
structure specific recognition protein 1
MOK protein kinase
argonaute RISC catalytic component 3
myotubularin related protein 14
armadillo repeat containing 8
zinc finger protein 436
ring finger protein 187
WD repeat domain 4
cyclin I
oxysterol binding protein
tuftelin 1
CD52 molecule
mediator complex subunit 22
meiotic nuclear divisions 1
1-acylglycerol-3-phosphate O-acyltransferase 3
TNF superfamily member 15
leucine rich repeat containing 56
interleukin 1 receptor accessory protein
activin A receptor type 1
adrenoceptor beta 2
zinc finger protein 837
SPC25 component of NDC80 kinetochore complex
NIMA related kinase 2
ADAM metallopeptidase with thrombospondin type 1 motif 10
membrane associated ring-CH-type finger 7
fibrillin 1
TLE family member 3, transcriptional corepressor
ubiquitin like modifier activating enzyme 7
transmembrane channel like 8
protein phosphatase 1 regulatory subunit 18
potassium voltage-gated channel subfamily H member 8
UV radiation resistance associated

TATA-box binding protein associated factor 8
keratin 1
H2B clustered histone 6
trafficking protein particle complex 12
ALG14 UDP-N-acetylglucosaminyltransferase subunit
killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 2
cytochrome b5 reductase 4
SDS3 homolog, SIN3A corepressor complex component
deoxyhypusine hydroxylase
galactokinase 1
MAM domain containing glycosylphosphatidylinositol anchor 1
prickle planar cell polarity protein 1
formin binding protein 4
anoctamin 6
GTPase, IMAP family member 2
chromodomain helicase DNA binding protein 4
phosphatidylinositol-4,5-bisphosphate 4-phosphatase 1
ring finger protein 175
MCF.2 cell line derived transforming sequence like
protocadherin 9
KN motif and ankyrin repeat domains 1
F-box protein 32
LysM domain containing 4
sprouty related EVH1 domain containing 2
WD repeat domain, phosphoinositide interacting 2
NCK associated protein 1
solute carrier family 5 member 10
pleckstrin homology domain containing A7
BCL2 like 13
NME/NM23 nucleoside diphosphate kinase 4
serine protease 23
erythrocyte membrane protein band 4.1
tonsoku like, DNA repair protein
pellino E3 ubiquitin protein ligase family member 2
COP1 E3 ubiquitin ligase
exosome component 4
egl-9 family hypoxia inducible factor 1
cytotoxic T-lymphocyte associated protein 4
cyclic nucleotide gated channel subunit alpha 4
leukocyte immunoglobulin like receptor A2
interleukin 6 signal transducer
polypyrimidine tract binding protein 3
ankyrin repeat and SOCS box containing 8
LRR binding FLII interacting protein 2
structural maintenance of chromosomes 4
leucine rich repeat containing 36

peroxisomal biogenesis factor 11 gamma
glycerol-3-phosphate dehydrogenase 1 like
myosin light chain kinase
3-ketodihydrosphingosine reductase
leucine rich repeat containing 25
ninein
thioredoxin
galactosamine (N-acetyl)-6-sulfatase
lines homolog 1
CLN3 lysosomal/endosomal transmembrane protein, battenin
ring finger protein 114
SAP30 binding protein
NOP2/Sun RNA methyltransferase 6
signal peptide peptidase like 2B
cleavage and polyadenylation specific factor 1
septin 10
adiponectin receptor 1
YOD1 deubiquitinase
WD repeat domain 12
caspase 10
basenuclin 2
DnaJ heat shock protein family (Hsp40) member B6
lecithin-cholesterol acyltransferase
mitochondrial ribosomal protein S18B
PHD finger protein 24
ubiquitin conjugating enzyme E2 C
formiminotransferase cyclodeaminase N-terminal like
CD248 molecule
NEDD4 binding protein 2 like 1
REST corepressor 1
IQ motif containing B1
PITH domain containing 1
chromosome 18 open reading frame 25
gamma-aminobutyric acid type A receptor subunit rho2
proteasome inhibitor subunit 1
growth factor independent 1B transcriptional repressor
cyclin Pas1/PHO80 domain containing 1
translocase of outer mitochondrial membrane 34
ETS variant transcription factor 5
myeloid cell nuclear differentiation antigen
ectonucleoside triphosphate diphosphohydrolase 7
TATA-box binding protein associated factor 13
NUMB like endocytic adaptor protein
C-X3-C motif chemokine receptor 1
pseudouridine synthase 1
NSE1 homolog, SMC5-SMC6 complex component

zinc finger protein 92
tRNA aspartic acid methyltransferase 1
chromosome 14 open reading frame 132
family with sequence similarity 107 member B
cysteine and serine rich nuclear protein 1
terminal nucleotidyltransferase 5C
myotrophin
DExD-box helicase 39A
cache domain containing 1
phosphatidylinositol-5-phosphate 4-kinase type 2 alpha
ubiquitin associated and SH3 domain containing B
nucleolar and coiled-body phosphoprotein 1
TBCC domain containing 1
mitochondrial ribosomal protein S9
MEFV innate immunity regulator, pyrin
collagen type V alpha 1 chain
killer cell lectin like receptor C2
arachidonate 5-lipoxygenase activating protein
ribonuclease P and MRP subunit p25
activating signal integrator 1 complex subunit 2
cortactin
defective in cullin neddylation 1 domain containing 1
G protein signaling modulator 3
succinate dehydrogenase complex subunit C
multiple EGF like domains 9
acyl-CoA synthetase short chain family member 1
ABI family member 3
zinc finger protein 407
septin 5
hydroxysteroid dehydrogenase like 2
synaptotagmin like 2
E2F transcription factor 4
tectonic family member 3
mucin 16, cell surface associated
lysine acetyltransferase 14
glycoprotein VI platelet
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5
cadherin 1
ATPase copper transporting beta
glutamyl-tRNA synthetase 2, mitochondrial
tRNA splicing endonuclease subunit 34
proteasome activator subunit 4
papilin, proteoglycan like sulfated glycoprotein
muscleblind like splicing regulator 2
sphingosine-1-phosphate phosphatase 1
RUNX family transcription factor 1

synaptotagmin 1
H2B clustered histone 12
PR/SET domain 5
unc-51 like autophagy activating kinase 1
GNAS complex locus
intercellular adhesion molecule 4 (Landsteiner-Wiener blood group)
ERCC excision repair 3, TFIIH core complex helicase subunit
WD repeat domain 1
solute carrier family 28 member 3
ubiquitin protein ligase E3 component n-recogin 4
zinc finger protein 618
NOC3 like DNA replication regulator
sphingosine-1-phosphate receptor 4
intraflagellar transport 57
seizure related 6 homolog like
ATP binding cassette subfamily G member 1
cell death inducing DFFA like effector b
LYL1 basic helix-loop-helix family member
prosaposin
FGFR1 oncogene partner 2
RAB40B, member RAS oncogene family
nucleus accumbens associated 1
transmembrane protein 167B
potassium calcium-activated channel subfamily N member 4
SLP adaptor and CSK interacting membrane protein
baculoviral IAP repeat containing 2
oxysterol binding protein 2
novel transcript
thioredoxin domain containing 15
phospholipase D1
PHD finger protein 7
tripartite motif containing 73
sulfotransferase family 1A member 1
EF-hand calcium binding domain 12
sulfatase modifying factor 1
glutamate-cysteine ligase modifier subunit
Y-box binding protein 3
lipoxygenase homology domains 1
cyclin and CBS domain divalent metal cation transport mediator 3
UDP-glucuronate decarboxylase 1
hyaluronidase 1
enoyl-CoA delta isomerase 1
oxidative stress responsive serine rich 1
carnitine O-acetyltransferase
H3.3 histone B
galectin 9C

ring finger protein 149
ephrin A1
tetratricopeptide repeat domain 7B
cell adhesion molecule 4
peptidylprolyl isomerase A
potassium inwardly rectifying channel subfamily J member 2
zinc finger CCCH-type containing 18
myosin light chain 6
BUB1 mitotic checkpoint serine/threonine kinase B
interleukin 27 receptor subunit alpha
signal induced proliferation associated 1 like 2
RB transcriptional corepressor like 1
transmembrane protein 120B
divergent protein kinase domain 1B
2,4-dienoyl-CoA reductase 1
coenzyme Q10A
filamin B
carnosine synthase 1
tweety family member 3
programmed cell death 2
isoleucyl-tRNA synthetase 1
transmembrane 6 superfamily member 1
4-aminobutyrate aminotransferase
CDGSH iron sulfur domain 2
PDZK1 interacting protein 1
OS9 endoplasmic reticulum lectin
SAM domain, SH3 domain and nuclear localization signals 1
nuclear receptor coactivator 1
hexosaminidase D
N-terminal asparagine amidase
nth like DNA glycosylase 1
out at first homolog
myosin light chain 4
aurora kinase B
FYN binding protein 1
poly(A) polymerase alpha
intraflagellar transport 52
HECT domain E3 ubiquitin protein ligase 4
cAMP-dependent protein kinase inhibitor gamma
family with sequence similarity 110 member B
replication factor C subunit 1
ring finger protein 32
TRAF interacting protein
prostaglandin D2 receptor
cadherin related family member 2
kinesin family member 24

exportin 6
membrane associated ring-CH-type finger 9
nuclear receptor coactivator 4
chondroitin polymerizing factor
trichoplein keratin filament binding
interferon induced protein with tetratricopeptide repeats 2
solute carrier family 4 member 1 adaptor protein
mannosidase alpha class 1B member 1
shugoshin 2
transforming growth factor beta regulator 1
zinc finger AN1-type containing 3
EPH receptor B3
TBC1 domain family member 2B
tripartite motif containing 47
N-alpha-acetyltransferase 15, NatA auxiliary subunit
neuromedin U receptor 1
centlein
G kinase anchoring protein 1
G protein nucleolar 1 (putative)
ribosomal protein S6 kinase A5
villin 1
CD81 molecule
N-terminal EF-hand calcium binding protein 2
transmembrane protein 71
transmembrane and coiled-coil domain family 1
actin related protein 10
E2F transcription factor 2
zinc finger protein 770
slingshot protein phosphatase 3
ubiquitin recognition factor in ER associated degradation 1
uridine monophosphate synthetase
leucine rich repeat containing 34
ASH2 like, histone lysine methyltransferase complex subunit
translocase of inner mitochondrial membrane 44
MON1 homolog B, secretory trafficking associated
golgi membrane protein 2
adenosine A2b receptor
HEAT repeat containing 5A
multiple coagulation factor deficiency 2, ER cargo receptor complex subunit
DEAD-box helicase 10
cell division cycle 45
TSPY like 1
RNA polymerase I and III subunit D
inositol-trisphosphate 3-kinase B
leucine rich repeat containing 45
novel protein

XK related 6
semenogelin 1
diacylglycerol kinase eta
regulator of G protein signaling 12
CKLF like MARVEL transmembrane domain containing 5
lamin B2
salt inducible kinase 1B (putative)
tetratricopeptide repeat and ankyrin repeat containing 1
LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated
monocyte to macrophage differentiation associated
inosine triphosphatase
cathepsin E
NADH:ubiquinone oxidoreductase core subunit S1
La ribonucleoprotein 4
desumoylating isopeptidase 2
regenerating family member 4
C-C motif chemokine receptor 8
ADAM metallopeptidase with thrombospondin type 1 motif 1
hypoxia inducible factor 1 subunit alpha inhibitor
hyaluronidase 3
arachidonate 15-lipoxygenase type B
solute carrier family 6 member 13
leptin receptor
coiled-coil domain containing 159
ADP ribosylation factor like GTPase 4C
VENT homeobox
methyltransferase like 4
splA/ryanodine receptor domain and SOCS box containing 1
ATPase Na⁺/K⁺ transporting subunit beta 2
X-box binding protein 1
DLG associated protein 3
ribonuclease P/MRP subunit p40
mitochondrial ribosomal protein S14
phosphatase and actin regulator 2
protein O-mannosyltransferase 1
transmembrane protein 127
sorting nexin 8
CD209 molecule
eukaryotic translation initiation factor 4H
SS18 like 2
tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2
SMAD family member 2
cholinergic receptor nicotinic alpha 10 subunit
mannosidase endo-alpha
Rho GTPase activating protein 17
ZXD family zinc finger C

indoleamine 2,3-dioxygenase 2
actin binding LIM protein family member 3
guanylate kinase 1
actin binding transcription modulator
troponin I2, fast skeletal type
sterol regulatory element binding transcription factor 2
RecQ like helicase 4
nuclear receptor binding SET domain protein 3
family with sequence similarity 117 member B
eukaryotic translation initiation factor 5B
aldehyde dehydrogenase 1 family member B1
CD1e molecule
leucine rich repeat and fibronectin type III domain containing 1
nebulette
RB binding protein 8, endonuclease
transmembrane protein 120A
transcription factor EB
iron-sulfur cluster assembly enzyme
mitochondrial calcium uniporter
fumarate hydratase
dynamin 3
ubiquilin 4
secretogranin V
ubiquitin conjugating enzyme E2 J1
dopamine receptor D4
S-phase kinase associated protein 1
ArfGAP with coiled-coil, ankyrin repeat and PH domains 2
dihydrolipoamide S-acetyltransferase
olfactomedin 1
UPF1 RNA helicase and ATPase
collagen type VI alpha 2 chain
transmembrane protein 201
cyclin dependent kinase 6
elongin B
interleukin 1 receptor type 1
cytoplasmic linker associated protein 1
epsin 1
H4 clustered histone 4
cactin, spliceosome C complex subunit
lysophosphatidylglycerol acyltransferase 1
poly(rC) binding protein 1
KIAA2026
cyclin dependent kinase 2 interacting protein
GTPase activating protein and VPS9 domains 1
ABL proto-oncogene 1, non-receptor tyrosine kinase
caveolae associated protein 2

antagonist of mitotic exit network 1 homolog
UBX domain protein 6
cellular communication network factor 3
potassium voltage-gated channel subfamily A member 2
TNF receptor associated protein 1
MOB kinase activator 2
serine incorporator 1
programmed cell death 11
component of oligomeric golgi complex 4
DNA methyltransferase 1
thrombospondin type laminin G domain and EAR repeats
peroxiredoxin 5
solute carrier family 43 member 1
isocitrate dehydrogenase (NADP(+)) 2
heat shock protein family D (Hsp60) member 1
mitochondrial trans-2-enoyl-CoA reductase
solute carrier family 31 member 2
cysteine rich protein 3
homologous recombination factor with OB-fold
lectin, mannose binding 1
spermidine synthase
H2B clustered histone 5
endothelial cell adhesion molecule
mono-ADP ribosylhydrolase 2
Tctex1 domain containing 1
tescalcin
VPS35 retromer complex component
citron rho-interacting serine/threonine kinase
carbonic anhydrase 12
centromere protein P
RB1 inducible coiled-coil 1
exosome component 9
zinc finger matrin-type 2
ribosomal RNA processing 8
ALG5 dolichyl-phosphate beta-glucosyltransferase
chromosome 14 open reading frame 28
required for meiotic nuclear division 5 homolog A
zinc finger DHHC-type palmitoyltransferase 20
progesterone receptor membrane component 2
lysine demethylase 2B
glutamic-oxaloacetic transaminase 2
TATA-box binding protein associated factor 5
bromodomain adjacent to zinc finger domain 2B
mesoderm development LRP chaperone
syntaxin 1B
elongation factor for RNA polymerase II

round spermatid basic protein 1 like
nucleoporin 43
chromosome 9 open reading frame 78
nurim
formin like 1
zwilch kinetochore protein
periphilin 1
tribbles pseudokinase 1
mitogen-activated protein kinase kinase kinase 10
zinc finger protein 501
zinc finger FYVE-type containing 28
DEAH-box helicase 40
HESX homeobox 1
CCHC-type zinc finger nucleic acid binding protein
ankyrin repeat domain 16
signal transducer and activator of transcription 2
N-terminal EF-hand calcium binding protein 3
calcium activated nucleotidase 1
dynactin subunit 1
HEPACAM family member 2
coronin 1C
WD repeat domain 54
F-box protein 28
Ras converting CAAX endopeptidase 1
mitochondrial poly(A) polymerase
RNA polymerase II subunit H
novel transcript
PHD finger protein 23
signal sequence receptor subunit 3
CD300c molecule
tenascin XB
adenylate kinase 8
ELOVL fatty acid elongase 7
DnaJ heat shock protein family (Hsp40) member C4
bleomycin hydrolase
acyl-CoA synthetase short chain family member 2
PMS1 homolog 2, mismatch repair system component
vesicle amine transport 1
casein kinase 1 epsilon
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 4
C-X-C motif chemokine ligand 1
KIAA0930
ring finger protein 121
glucose-fructose oxidoreductase domain containing 1
zinc finger and SCAN domain containing 21
N-acyl phosphatidylethanolamine phospholipase D

DENN domain containing 4C
adenosine deaminase RNA specific B2 (inactive)
CKLF like MARVEL transmembrane domain containing 7
CD70 molecule
limb and CNS expressed 1 like
TNF receptor superfamily member 1B
VPS41 subunit of HOPS complex
clathrin heavy chain like 1
FA complementation group L
neuralized E3 ubiquitin protein ligase 1B
IKAROS family zinc finger 1
src kinase associated phosphoprotein 2
acyl-CoA synthetase family member 2
acyl-CoA dehydrogenase medium chain
Ras and Rab interactor 1
chromobox 8
lipin 2
chemerin chemokine-like receptor 1
SLIT-ROBO Rho GTPase activating protein 3
5',3'-nucleotidase, mitochondrial
proline rich coiled-coil 2A
linker for activation of T cells family member 2
stabilin 1
capping protein regulator and myosin 1 linker 3
coiled-coil domain containing 47
XK related 7
SIVA1 apoptosis inducing factor
G protein-coupled receptor kinase 5
keratin 72
lipocalin 8
coiled-coil domain containing 102A
TruB pseudouridine synthase family member 2
insulin like growth factor 1 receptor
protein arginine methyltransferase 5
HAUS augmin like complex subunit 1
CD59 molecule (CD59 blood group)
ATPase H⁺ transporting V0 subunit a2
RAB2A, member RAS oncogene family
phosphatidylinositol 4-kinase type 2 beta
Janus kinase 2
SH3 domain binding protein 2
chromosome 1 open reading frame 116
DNA polymerase gamma 2, accessory subunit
kynureninase
serpin family E member 2
ECSIT signaling integrator

RAN binding protein 1
mitochondrial ribosomal protein L39
DENN domain containing 3
Bcl2 modifying factor
NADH:ubiquinone oxidoreductase core subunit V1
URB2 ribosome biogenesis homolog
F-box protein 30
golgin A3
calponin 3
calcium release activated channel regulator 2A
growth factor independent 1 transcriptional repressor
nicotinamide nucleotide adenylyltransferase 1
CD9 molecule
pyruvate carboxylase
zinc finger protein 264
G protein-coupled receptor 137
guanylate cyclase activator 1B
negative elongation factor complex member A
kinesin family member 14
tumor protein p53 inducible nuclear protein 2
GTPase, IMAP family member 4
coactosin like F-actin binding protein 1
chitobiase
annexin A5
semaphorin 3G
replication termination factor 2
RAB11A, member RAS oncogene family
coiled-coil domain containing 138
endoplasmic reticulum oxidoreductase 1 beta
sialic acid binding Ig like lectin 1
regulator of G protein signaling 2
zinc finger protein 253
solute carrier family 16 member 5
5', 3'-nucleotidase, cytosolic
chromosome 4 open reading frame 3
NME/NM23 nucleoside diphosphate kinase 6
opsin 3
tropomodulin 3
oligodendrocyte myelin glycoprotein
fascin actin-bundling protein 2, retinal
leucine rich repeat and fibronectin type III domain containing 4
cell division cycle associated 2
unc-5 family C-terminal like
G protein-coupled receptor 65
Rho GTPase activating protein 18
Wnt family member 5B

DExD-box helicase 50
sphingosine-1-phosphate receptor 5
NOP10 ribonucleoprotein
nucleolar complex associated 4 homolog
G protein-coupled receptor 108
regulator of G protein signaling 1
sulfide quinone oxidoreductase
fructose-bisphosphatase 1
calponin 2
collagen type XIX alpha 1 chain
Fc receptor like 6
ankyrin repeat domain 52
orthodenticle homeobox 1
NIMA related kinase 4
post-GPI attachment to proteins phospholipase 3
RAB20, member RAS oncogene family
cyclin dependent kinase 4
RuvB like AAA ATPase 1
transcriptional adaptor 3
speedy/RINGO cell cycle regulator family member A
sphingosine kinase 1
sulfatase modifying factor 2
WD repeat domain 37
kelch like family member 24
histocompatibility minor 13
retinoic acid receptor gamma
klotho
ankyrin repeat domain 17
nucleosome assembly protein 1 like 4
popeye domain containing 2
protein phosphatase 1 regulatory inhibitor subunit 14A
DENN domain containing 4A
heterogeneous nuclear ribonucleoprotein A1 pseudogene 48
suppressor of cytokine signaling 1
zinc finger protein 93
clock circadian regulator
mitogen-activated protein kinase kinase 4
espin
signal transducer and activator of transcription 5A
peptidylprolyl isomerase B
low density lipoprotein receptor class A domain containing 3
methyltransferase like 23
FA complementation group E
caseinolytic mitochondrial matrix peptidase chaperone subunit X
G protein-coupled receptor class C group 5 member D
growth hormone inducible transmembrane protein

adhesion G protein-coupled receptor B2
glycogen phosphorylase, muscle associated
Dmx like 2
COP9 signalosome subunit 7B
adenosine monophosphate deaminase 2
mutS homolog 6
SAS-6 centriolar assembly protein
thymocyte selection associated family member 2
TBC1 domain family member 10B
kalirin RhoGEF kinase
platelet factor 4
prolyl 3-hydroxylase 2
interferon induced protein 44 like
zinc finger protein 721
lymphocyte antigen 96
MRE11 homolog, double strand break repair nuclease
suppressor APC domain containing 2
structural maintenance of chromosomes 5
ring finger protein 157
gasdermin E
pyruvate dehydrogenase phosphatase regulatory subunit
serum response factor
HSPB1 associated protein 1
taxilin alpha
carnosine N-methyltransferase 1
laminin subunit gamma 1
mitochondrial translational release factor 1 like
RGP1 homolog, RAB6A GEF complex partner 1
ataxin 1
gamma-glutamylcyclotransferase
ring-box 1
telomere maintenance 2
heterogeneous nuclear ribonucleoprotein A3
small EDRK-rich factor 2
ATP binding cassette subfamily G member 2 (Junior blood group)
exportin 5
RUN domain containing 3A
zinc finger CCCH-type containing, antiviral 1 like
exosome component 6
DEPP1 autophagy regulator
homeobox A9
dual specificity phosphatase 2
chromosome 6 open reading frame 136
myosin VI
cysteine and histidine rich 1
proteasome 26S subunit, non-ATPase 2

zinc finger protein 33B
ALG8 alpha-1,3-glucosyltransferase
chromosome 1 open reading frame 21
RecQ mediated genome instability 1
RAN, member RAS oncogene family
nucleoporin 42
transmembrane protein 92
phosphatase and actin regulator 4
AE binding protein 1
cadherin related family member 1
HSPA (Hsp70) binding protein 1
zinc finger protein 789
MOB kinase activator 1B
solute carrier family 37 member 4
mitochondrial ribosomal protein L10
BRI3 binding protein
basic transcription factor 3
integrin subunit alpha E
RFX family member 8, lacking RFX DNA binding domain
actin like 6A
spermatogenesis associated serine rich 2 like
solute carrier family 16 member 10
olfactory receptor family 52 subfamily N member 4 (gene/pseudogene)
DNA cross-link repair 1A
beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase
ubiquitin conjugating enzyme E2 B
vesicle associated membrane protein 3
proteinase 3
NIMA related kinase 8
nucleoporin 50
myotubularin related protein 6
WW domain binding protein 2
pecanex 3
WD repeat domain 74
fatty acid binding protein 5
torsin family 1 member A
WASP family member 3
CKLF like MARVEL transmembrane domain containing 2
RNA polymerase III subunit G like
semaphorin 4B
Suv3 like RNA helicase
phosphatidylinositol glycan anchor biosynthesis class W
RAB24, member RAS oncogene family
alpha tocopherol transfer protein like
radixin
zinc finger protein 117

citramalyl-CoA lyase
lunapark, ER junction formation factor
zinc finger CCCH-type containing 12C
zinc finger SWIM-type containing 9
CCZ1 homolog B, vacuolar protein trafficking and biogenesis associated
NudC domain containing 1
trimethylguanosine synthase 1
TATA-box binding protein
ArfGAP with GTPase domain, ankyrin repeat and PH domain 2
TATA-box binding protein associated factor, RNA polymerase I subunit D
apoptotic chromatin condensation inducer 1
succinate dehydrogenase complex assembly factor 3
ICOS ligand
solute carrier family 18 member A1
DDB1 and CUL4 associated factor 7
dishevelled segment polarity protein 1
catenin beta 1
acyl-CoA synthetase long chain family member 3
spermine oxidase
tRNA-histidine guanylyltransferase 1 like
WD repeat domain 63
SUMO specific peptidase 5
novel protein
insulin like growth factor 1
cullin 3
colony stimulating factor 3 receptor
ring finger protein 122
non-SMC condensin II complex subunit D3
MTSS I-BAR domain containing 1
dolichyl-phosphate mannosyltransferase subunit 2, regulatory
Ras related GTP binding A
EPS8 like 2
WD repeat and HMG-box DNA binding protein 1
N-acylethanolamine acid amidase
sorting nexin 2
3-hydroxy-3-methylglutaryl-CoA reductase
mitochondrial ribosomal protein L1
mitochondrial contact site and cristae organizing system subunit 13
zinc finger matrin-type 5
mesenchyme homeobox 1
testis development related protein
signaling threshold regulating transmembrane adaptor 1
nucleotide binding protein 2
EBNA1 binding protein 2
PC-esterase domain containing 1A
selenoprotein O

glycerophosphodiester phosphodiesterase domain containing 1
rubicon autophagy regulator
purinergic receptor P2X 7
nucleoporin 107
endosome-lysosome associated apoptosis and autophagy regulator 1
ISG15 ubiquitin like modifier
heterogeneous nuclear ribonucleoprotein R
proliferation and apoptosis adaptor protein 15
potassium two pore domain channel subfamily K member 10
ring finger and CHY zinc finger domain containing 1
olfactomedin like 2A
fasciculation and elongation protein zeta 2
mitotic spindle organizing protein 1
cilia and flagella associated protein 161
BRCA1 DNA repair associated
HECT and RLD domain containing E3 ubiquitin protein ligase 5
dolichyl-phosphate N-acetylglucosaminophosphotransferase 1
BTB domain containing 10
acyl-CoA binding domain containing 5
fuzzy planar cell polarity protein
phospholipase A2 group IVA
transmembrane protein 181
polycystin 2, transient receptor potential cation channel
plexin D1
Ras association domain family member 3
inositol polyphosphate-1-phosphatase
membrane spanning 4-domains A14
CDKN1A interacting zinc finger protein 1
phosphoribosylformylglycinamide synthase
galectin 1
fructosamine 3 kinase related protein
kinesin light chain 3
transmembrane protein 241
tubulin beta class I
collagen type IX alpha 3 chain
dedicator of cytokinesis 9
dynein light chain LC8-type 2
glycerol-3-phosphate acyltransferase 4
adaptor related protein complex 1 subunit gamma 1
ankyrin repeat domain 28
endoplasmic reticulum protein 29
BUD23 rRNA methyltransferase and ribosome maturation factor
structural maintenance of chromosomes flexible hinge domain containing 1
epithelial stromal interaction 1
zinc finger E-box binding homeobox 2
pleckstrin homology domain containing J1

SERTA domain containing 3
C-X-C motif chemokine receptor 1
coiled-coil domain containing 28A
eukaryotic translation initiation factor 4E
chromosome 2 open reading frame 88
novel transcript
KH-type splicing regulatory protein
transmembrane immune signaling adaptor TYROBP
proline rich 7, synaptic
pyrroline-5-carboxylate reductase 1
ubiquitin like modifier activating enzyme 3
nei like DNA glycosylase 3
zinc finger protein 292
DDB1 and CUL4 associated factor 17
upstream transcription factor 2, c-fos interacting
myocardin related transcription factor A
ubiquitin specific peptidase 22
ribosomal modification protein rimK like family member B
nucleoporin 188
ring finger protein 44
ADP ribosylation factor 4
solute carrier family 25 member 39
CRACD like
fibroblast growth factor binding protein 2
coiled-coil and C2 domain containing 2B
atlastin GTPase 2
N-acetyltransferase 10
thioredoxin domain containing 16
kinesin family member 23
zinc finger protein 600
E4F transcription factor 1
glycogen synthase kinase 3 alpha
beclin 1
insulin like growth factor binding protein 4
hydroxysteroid 17-beta dehydrogenase 7
novel transcript
centrosomal protein 131
potassium voltage-gated channel subfamily E regulatory subunit 3
doublecortin like kinase 2
inositol polyphosphate-5-phosphatase B
Fc receptor like B
ring finger protein 217
nucleolin
ornithine decarboxylase 1
SH3 domain containing ring finger 2
WW domain binding protein 1 like

Rho GTPase activating protein 44
TATA-box binding protein associated factor 5 like
mitochondrial fission factor
RIPOR family member 3
CXXC motif containing zinc binding protein
BORA aurora kinase A activator
GRAM domain containing 2B
protocadherin 1
coiled-coil domain containing 130
inositol monophosphatase 2
ubiquitin B
glycophorin C (Gerbich blood group)
VRK serine/threonine kinase 1
eukaryotic translation initiation factor 2B subunit gamma
toll like receptor 10
uridine-cytidine kinase 1 like 1
ADAM metallopeptidase with thrombospondin type 1 motif 3
retinol dehydrogenase 11
actin beta
HEAT repeat containing 5B
arginase 2
coiled-coil domain containing 194
transmembrane channel like 5
DNA replication helicase/nuclease 2
myosin IIIB
G protein subunit gamma transducin 2
ring finger protein 130
cell division cycle 25B
family with sequence similarity 120B
galactokinase 2
transmembrane protein 30A
fructosamine 3 kinase
HCLS1 binding protein 3
interferon induced protein 44
euchromatic histone lysine methyltransferase 2
DEXH-box helicase 9
FKBP prolyl isomerase 1C
netrin G1
tubulin epsilon and delta complex 1
VPS8 subunit of CORVET complex
thyroid hormone receptor associated protein 3
argonaute RISC component 1
poly(ADP-ribose) polymerase family member 16
PBX/knotted 1 homeobox 1
NPR2 like, GATOR1 complex subunit
beta-1,4-galactosyltransferase 3

TraB domain containing
eukaryotic translation initiation factor 1
leucine rich repeat containing 75A
zinc finger protein 563
mitochondrial ribosomal protein L24
cytochrome P450 family 2 subfamily E member 1
G3BP stress granule assembly factor 1
charged multivesicular body protein 2B
C-type lectin domain family 4 member G
NFKB inhibitor like 1
apolipoprotein B receptor
cellular inhibitor of PP2A
chromosome 1 open reading frame 226
ArfGAP with coiled-coil, ankyrin repeat and PH domains 3
L3MBTL histone methyl-lysine binding protein 4
5-phosphohydroxy-L-lysine phospho-lyase
eukaryotic translation initiation factor 5
diphthamine biosynthesis 6
adhesion G protein-coupled receptor L1
Rab interacting lysosomal protein like 2
phosphoinositide-3-kinase regulatory subunit 3
phosphatidylethanolamine binding protein 1
calpain 15
metallothionein 1E
PHD finger protein 20
zinc finger protein 107
E1A binding protein p300
required for meiotic nuclear division 1 homolog
GINS complex subunit 3
hes related family bHLH transcription factor with YRPW motif 1
heat shock protein family B (small) member 1
BAR/IMD domain containing adaptor protein 2 like 1
small cell adhesion glycoprotein
nuclear receptor subfamily 1 group H member 3
GRB2 associated binding protein 2
small nuclear ribonucleoprotein D1 polypeptide
novel protein
high density lipoprotein binding protein
scavenger receptor class F member 1
protein phosphatase 1 catalytic subunit gamma
isthmin 1
glutaminase
TOG array regulator of axonemal microtubules 1
nei like DNA glycosylase 1
leucine rich repeat containing 1
BRISC and BRCA1 A complex member 2

oligosaccharyltransferase complex subunit 4, non-catalytic
galectin 9
FtsJ RNA 2'-O-methyltransferase 3
kinetochore localized astrin (SPAG5) binding protein
AXL receptor tyrosine kinase
membrane anchored junction protein
receptor accessory protein 3
MX dynamin like GTPase 1
ATPase 13A1
signal recognition particle 19
stearoyl-CoA desaturase 5
EPH receptor B1
small nuclear ribonucleoprotein polypeptide A
HIV-1 Tat interactive protein 2
solute carrier family 25 member 38
proteasome 20S subunit alpha 8
poly(ADP-ribose) polymerase family member 3
family with sequence similarity 71 member F2
Ras and Rab interactor 2
NHL repeat containing 2
ring finger protein 8
semaphorin 3A
leukocyte associated immunoglobulin like receptor 2
tetratricopeptide repeat domain 30B
neuritin 1
BCL2 antagonist/killer 1
neurogranin
yippee like 4
DEAD/H-box helicase 11
carbohydrate sulfotransferase 8
sphingolipid transporter 3 (putative)
TP53RK binding protein
arachidonate 15-lipoxygenase
abhydrolase domain containing 3, phospholipase
novel twinfilin, actin-binding protein, homolog 2 (Drosophila) (TWF2) and toll-like rec
syntaxin binding protein 3
YEATS domain containing 2
PTPRF interacting protein alpha 1
galactose mutarotase
Sp3 transcription factor
ubiquitin specific peptidase 36
novel protein
lipase H
neuronal cell adhesion molecule
integrator complex subunit 4
serpin family G member 1

membrane bound O-acyltransferase domain containing 1
RUNX family transcription factor 3
lysine methyltransferase 5B
claudin 5
coenzyme Q7, hydroxylase
autophagy related 3
dystroglycan 1
Rh associated glycoprotein
RUN and FYVE domain containing 3
dedicator of cytokinesis 4
heat shock protein family B (small) member 11
signal peptide, CUB domain and EGF like domain containing 2
lactate dehydrogenase A
mitochondrial ribosomal protein L19
guanylate binding protein 5
regulator of G protein signaling 9
SUMO specific peptidase 6
replication factor C subunit 4
elongation factor 1 homolog
RNA binding motif protein 23
mitogen-activated protein kinase kinase 1
phosphatidylinositol-5-phosphate 4-kinase type 2 gamma
cell division cycle 37 like 1
TIMELESS interacting protein
coiled-coil domain containing 88B
ZFP69 zinc finger protein
leucine rich repeat containing G protein-coupled receptor 6
mannosidase alpha class 2B member 1
leucine rich repeat kinase 2
Mix paired-like homeobox
SS18 subunit of BAF chromatin remodeling complex
VAMP associated protein B and C
UL16 binding protein 3
neurofilament light
zinc finger protein 608
NOP16 nucleolar protein
lysine demethylase 5B
CD302 molecule
cyclin D1
vasohibin 1
cytidine monophosphate N-acetylneuraminic acid synthetase
zinc finger and BTB domain containing 7A
casein kinase 1 alpha 1
AUP1 lipid droplet regulating VLDL assembly factor
NKD inhibitor of WNT signaling pathway 1
LDL receptor related protein 5

EPH receptor A4
zeta chain of T cell receptor associated protein kinase 70
ALG12 alpha-1,6-mannosyltransferase
tripartite motif containing 22
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein beta
ecotropic viral integration site 2B
immunoglobulin superfamily member 11
collagen type VI alpha 1 chain
leucine rich repeat containing 2
DAB2 interacting protein
killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 1
senataxin
thioredoxin like 4B
family with sequence similarity 149 member B1
protein kinase C beta
triggering receptor expressed on myeloid cells 1
general transcription factor Iii
erythropoietin receptor
mitochondrial ribosomal protein L4
novel transcript
BTB domain containing 3
RAB44, member RAS oncogene family
trafficking protein particle complex 3 like
integrator complex subunit 11
GLI family zinc finger 4
RB transcriptional corepressor like 2
chromodomain helicase DNA binding protein 9
translational activator of cytochrome c oxidase I
Src homology 2 domain containing transforming protein D
zinc finger and SCAN domain containing 16
lymphocyte antigen 6 family member G5C
mutS homolog 2
WD repeat containing antisense to TP53
thymocyte expressed, positive selection associated 1
zinc finger protein 124
ETS variant transcription factor 6
retinal outer segment membrane protein 1
twist family bHLH transcription factor 2
WD repeat domain 77
trafficking protein particle complex 2 like
nuclear receptor subfamily 4 group A member 2
pleckstrin homology domain containing B1
transcription factor CP2
zinc finger DHHC-type containing 11B
chromosome 19 open reading frame 71
interferon alpha inducible protein 6

oxytocin receptor
cytochrome P450 family 2 subfamily U member 1
dermatan sulfate epimerase
mitogen-activated protein kinase kinase 7
MYC target 1
protein arginine methyltransferase 3
multivesicular body subunit 12A
Kruppel like factor 4
tetratricopeptide repeat domain 38
zinc finger protein 215
FosB proto-oncogene, AP-1 transcription factor subunit
CKLF like MARVEL transmembrane domain containing 4
zinc finger AN1-type containing 2B
solute carrier family 25 member 24
speckle type BTB/POZ protein
UBA like domain containing 2
NIMA related kinase 10
exoribonuclease 1
caseinolytic mitochondrial matrix peptidase chaperone subunit B
RAP1 GTPase activating protein
chloride voltage-gated channel 3
translocase of inner mitochondrial membrane 29
thyroid hormone receptor interactor 6
caveolin 2
abhydrolase domain containing 6, acylglycerol lipase
fizzy and cell division cycle 20 related 1
RAD17 checkpoint clamp loader component
ETS variant transcription factor 7
serine/threonine kinase 40
origin recognition complex subunit 3
novel protein
spectrin repeat containing nuclear envelope family member 3
serpin family F member 2
TERF1 interacting nuclear factor 2
ribosomal oxygenase 1
zinc finger CCHC-type containing 10
interleukin 18 receptor accessory protein
potassium calcium-activated channel subfamily M regulatory beta subunit 1
RHEB like 1
STIL centriolar assembly protein
RAD50 double strand break repair protein
F-box protein 7
UPF3A regulator of nonsense mediated mRNA decay
ADP ribosylation factor 1
nuclear receptor binding protein 1
zinc finger CCCH-type containing 12D

exportin 1
cell division cycle associated 4
neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adaptor 2
capping actin protein of muscle Z-line subunit beta
N-myc downstream regulated 1
Rho related BTB domain containing 1
IMP U3 small nucleolar ribonucleoprotein 4
galectin 12
EMI domain containing 1
zinc finger FYVE-type containing 27
suppressor of cytokine signaling 6
G protein-coupled receptor 160
galectin 2
ribosomal protein L39 like
mercaptopyruvate sulfurtransferase
transmembrane protein 62
guanylate binding protein family member 6
pre T cell antigen receptor alpha
thrombospondin type 1 domain containing 1
peptidase, mitochondrial processing subunit alpha
transient receptor potential cation channel subfamily M member 7
serine peptidase inhibitor, Kunitz type 2
cyclin dependent kinase inhibitor 2A
coiled-coil alpha-helical rod protein 1
novel protein
SLIT-ROBO Rho GTPase activating protein 1
PGAM family member 5, mitochondrial serine/threonine protein phosphatase
DExH-box helicase 58
poly(ADP-ribose) polymerase family member 12
mannosidase beta like
fascin actin-bundling protein 3
axin 2
calcium voltage-gated channel subunit alpha1 D
UBX domain protein 7
forkhead box O3
leucine rich repeats and IQ motif containing 3
BCL2 interacting killer
metal response element binding transcription factor 2
LSM family member 14B
zinc finger protein 746
selenoprotein N
LDL receptor related protein 6
solute carrier family 25 member 35
solute carrier family 27 member 2
solute carrier family 25 member 30
protein phosphatase 1 regulatory subunit 12B

syntaxin 12
DnaJ heat shock protein family (Hsp40) member B9
metastasis associated 1
sarcolemma associated protein
phosphoribosyl pyrophosphate amidotransferase
solute carrier family 39 member 14
ZFP1 zinc finger protein
abhydrolase domain containing 17A, depalmitoylase
KLRC4-KLRK1 readthrough
CTD nuclear envelope phosphatase 1 regulatory subunit 1
FAD dependent oxidoreductase domain containing 2
family with sequence similarity 83 member A
syntaxin 11
aldo-keto reductase family 1 member C1
X-ray repair cross complementing 4
protein tyrosine phosphatase receptor type G
SPARC related modular calcium binding 1
zinc metalloproteinase STE24
NIPA like domain containing 4
KH domain containing 4, pre-mRNA splicing factor
UBE2F-SCLY readthrough (NMD candidate)
serpin family E member 1
metabolism of cobalamin associated D
cyclin Y
tripartite motif containing 56
fem-1 homolog A
Rho guanine nucleotide exchange factor 39
TIAM Rac1 associated GEF 1
adenosine A1 receptor
chromosome 3 open reading frame 18
polypyrimidine tract binding protein 1
nuclear casein kinase and cyclin dependent kinase substrate 1
zinc finger protein 569
enamelin
nuclear receptor subfamily 1 group D member 2
ELOVL fatty acid elongase 4
DNA cross-link repair 1B
parathymosin
aquarius intron-binding spliceosomal factor
ring finger protein 227
RAS protein activator like 2
SHANK associated RH domain interactor
lysophosphatidic acid receptor 2
transmembrane and coiled-coil domains 4
zinc finger CCCH-type containing 3
dynein cytoplasmic 1 light intermediate chain 1

coiled-coil domain containing 86
ring finger protein 208
heat shock factor binding protein 1 like 1
DOP1 leucine zipper like protein B
mitogen-activated protein kinase kinase kinase 11
tripartite motif containing 32
ubiquitin specific peptidase 13
guanylate cyclase 1 soluble subunit alpha 1
TBK1 binding protein 1
lactamase beta
endoplasmic reticulum protein 27
DM1 locus, WD repeat containing
H2B clustered histone 11
fucose mutarotase
ATPase H⁺ transporting accessory protein 1 like
phospholipid phosphatase 1
potassium voltage-gated channel subfamily Q member 5
ring finger protein 169
polypeptide N-acetylgalactosaminyltransferase 2
thioesterase superfamily member 5
aldehyde dehydrogenase 3 family member B1
AFG3 like matrix AAA peptidase subunit 2
KIAA0319 like
DEAD-box helicase 43
voltage dependent anion channel 1
mediator complex subunit 6
mitochondrial ribosomal protein L2
RPA interacting protein
IQ motif containing K
AT-rich interaction domain 5A
TLE family member 2, transcriptional corepressor
coiled-coil domain containing 115
G protein-coupled receptor 35
cell adhesion molecule L1 like
sushi domain containing 2
CD244 molecule
phospholipase A and acyltransferase 5
SEC61 translocon subunit alpha 1
oncoprotein induced transcript 3
Kruppel like factor 5
G protein-coupled receptor 183
integrin subunit beta 7
serine peptidase inhibitor, Kunitz type 1
BEN domain containing 3
transmembrane protein 109
saccharopine dehydrogenase (putative)

transmembrane protein 39A
C-C motif chemokine ligand 23
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 2
aldehyde dehydrogenase 16 family member A1
galactosylceramidase
ETS variant transcription factor 3
myosin light chain 12A
transmembrane protein 134
retinoid X receptor beta
mitochondrial translational initiation factor 2
small G protein signaling modulator 1
RIC8 guanine nucleotide exchange factor B
replication protein A3
family with sequence similarity 114 member A1
centromere protein X
dual specificity phosphatase 13
DEAD-box helicase 20
zinc finger protein 367
phospholipase C beta 2
cyclin dependent kinase inhibitor 1A
mitochondrial ribosomal protein S30
G protein-coupled receptor 171
DEP domain containing 7
aldo-keto reductase family 1 member B
N-acetylglutamate synthase
basic leucine zipper ATF-like transcription factor 2
FKBP prolyl isomerase 14
H2A.X variant histone
deltex E3 ubiquitin ligase 4
wolframin ER transmembrane glycoprotein
exophilin 5
membrane integral NOTCH2 associated receptor 1
connector enhancer of kinase suppressor of Ras 1
leukocyte specific transcript 1
THAP domain containing 6
guanine monophosphate synthase
chromosome 12 open reading frame 42
solute carrier family 35 member G2
solute carrier family 25 member 17
phosphatidylinositol glycan anchor biosynthesis class C
protein phosphatase targeting COQ7
transmembrane 7 superfamily member 2
zyg-11 family member B, cell cycle regulator
zinc finger protein 267
ring finger protein 40
nucleotide binding oligomerization domain containing 1

RFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
male germ cell associated kinase
plasmolipin
DNA ligase 1
schlafen family member 5
LRP2 binding protein
BAG cochaperone 4
receptor transporter protein 5 (putative)
keratin 73
zinc finger protein 611
exosome component 2
chondroitin sulfate synthase 3
BUB3 mitotic checkpoint protein
selenophosphate synthetase 1
SEC61 translocon subunit alpha 2
progesterone immunomodulatory binding factor 1
membrane palmitoylated protein 2
kelch domain containing 4
tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase
epiplakin 1
TATA-box binding protein associated factor, RNA polymerase I subunit B
RUN and FYVE domain containing 4
solute carrier family 30 member 1
solute carrier family 39 member 6
G protein regulated inducer of neurite outgrowth 1
PML-RARA regulated adaptor molecule 1
ATP binding cassette subfamily C member 11
RAB, member RAS oncogene family like 6
otoferlin
S100 calcium binding protein A4
RNA 3'-terminal phosphate cyclase
phosphatidylinositol glycan anchor biosynthesis class H
coiled-coil domain containing 24
ATPase phospholipid transporting 9B (putative)
farnesyl-diphosphate farnesyltransferase 1
symplesin
DNA damage inducible transcript 4
FKBP prolyl isomerase 8
leucine carboxyl methyltransferase 1
CKLF like MARVEL transmembrane domain containing 8
ARV1 homolog, fatty acid homeostasis modulator
protein O-glucosyltransferase 1
transmembrane protein 245
poly(rC) binding protein 2
pre-mRNA processing factor 6
spectrin repeat containing nuclear envelope protein 1

solute carrier family 25 member 12
glucosamine-phosphate N-acetyltransferase 1
apolipoprotein L6
solute carrier family 38 member 1
TNFAIP3 interacting protein 2
ORMDL sphingolipid biosynthesis regulator 2
oxysterol binding protein like 11
ST3 beta-galactoside alpha-2,3-sialyltransferase 1
abhydrolase domain containing 12, lysophospholipase
chromosome alignment maintaining phosphoprotein 1
H2B clustered histone 18
E74 like ETS transcription factor 2
nuclear factor of activated T cells 3
ring finger protein 145
NEDD4 binding protein 3
sodium voltage-gated channel alpha subunit 5
NFKB inhibitor interacting Ras like 2
mitochondrial pyruvate carrier 1
C-type lectin domain family 1 member B
G protein subunit beta 1
actin related protein 2/3 complex subunit 1B
RNA polymerase II associated protein 2
ADP ribosylation factor like GTPase 4D
proteasome activator subunit 2
UFM1 specific peptidase 2
tetraspanin 18
thyroid hormone receptor interactor 4
GUF1 homolog, GTPase
TSC22 domain family member 1
FKBP prolyl isomerase 1B
3-oxoacid CoA-transferase 1
ELOVL fatty acid elongase 6
syntaxin 5
neuropilin 1
RWD domain containing 2B
chromosome 9 open reading frame 24
MALT1 paracaspase
solute carrier family 26 member 2
synaptotagmin 11
dynein regulatory complex subunit 7
C-C motif chemokine ligand 2
opioid growth factor receptor like 1
zinc finger protein 821
Fc receptor like 1
solute carrier family 7 member 1
ubiquitin protein ligase E3 component n-recognin 1

transcription factor 7
Mab-21 domain containing 2
TNF superfamily member 13b
ISL LIM homeobox 2
ribonuclease A family member 3
NIMA related kinase 9
mechanistic target of rapamycin kinase
succinate-CoA ligase GDP/ADP-forming subunit alpha
ADP ribosylation factor like GTPase 4A
dual specificity tyrosine phosphorylation regulated kinase 3
WD repeat domain 31
novel protein
sorbin and SH3 domain containing 1
t-complex 11 like 2
zinc finger protein 428
DnaJ heat shock protein family (Hsp40) member B12
ADP ribosylation factor like GTPase 6 interacting protein 6
endogenous retrovirus group K3 member 1
radical S-adenosyl methionine domain containing 2
SPTY2D1 opposite strand
adrenoceptor alpha 2A
oxidative stress induced growth inhibitor family member 2
chondroitin sulfate N-acetylgalactosaminyltransferase 2
Rho associated coiled-coil containing protein kinase 1
solute carrier family 30 member 4
coiled-coil domain containing 61
centromere protein E
TBC1 domain family member 5
ZPR1 zinc finger
splicing factor 1
TUB like protein 4
spectrin alpha, non-erythrocytic 1
NMDA receptor synaptonuclear signaling and neuronal migration factor
TAR (HIV-1) RNA binding protein 1
microtubule associated protein 1 light chain 3 beta
Ras association (RalGDS/AF-6) and pleckstrin homology domains 1
clusterin associated protein 1
NADH:ubiquinone oxidoreductase subunit AB1
thrombospondin 4
BLOC1S5-TXNDC5 readthrough (NMD candidate)
liver enriched antimicrobial peptide 2
TBC1 domain family member 31
TAP binding protein like
DNA primase subunit 2
cilia and flagella associated protein 97
CD47 molecule

calcium binding protein 39 like
RIMS binding protein 2
exostosin glycosyltransferase 2
mitochondrial ribosomal protein L15
afadin, adherens junction formation factor
chromobox 5
trio Rho guanine nucleotide exchange factor
TATA-box binding protein associated factor 4b
chimerin 1
tRNA-yW synthesizing protein 1 homolog B
nuclear VCP like
GRB2 related adaptor protein 2
transmembrane protein 186
solute carrier organic anion transporter family member 4A1
glutamate-cysteine ligase catalytic subunit
Raf-1 proto-oncogene, serine/threonine kinase
ATP binding cassette subfamily F member 3
NUAK family kinase 2
X-prolyl aminopeptidase 3
aftiphilin
importin 13
glutathione S-transferase omega 1
XPA, DNA damage recognition and repair factor
cytokine inducible SH2 containing protein
adhesion G protein-coupled receptor B3
flavin adenine dinucleotide synthetase 1
immediate early response 2
3-hydroxyacyl-CoA dehydratase 2
ELL associated factor 2
forkhead box O1
CREB binding protein
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1G
THAP domain containing 4
solute carrier family 38 member 2
interferon alpha inducible protein 27 like 1
C-X9-C motif containing 1
Sin3A associated protein 30
PDS5 cohesin associated factor A
GATA zinc finger domain containing 1
leucine rich repeat containing 20
GTP binding protein 2
death associated protein
interferon regulatory factor 2
HEAT repeat containing 1
V-set and immunoglobulin domain containing 10
natural cytotoxicity triggering receptor 3

H2B clustered histone 8
tubulin polymerization promoting protein
scaffold attachment factor B2
tubulin beta 6 class V
inositol polyphosphate-5-phosphatase K
armadillo repeat containing 7
aspartyl-tRNA synthetase 2, mitochondrial
zinc finger protein 397
RAB5 interacting factor
transmembrane p24 trafficking protein 1
CTD small phosphatase 2
ADAMTS like 5
ATR serine/threonine kinase
store-operated calcium entry associated regulatory factor
zinc finger protein 318
SAM and SH3 domain containing 1
ATP synthase F1 subunit epsilon
nuclear pore complex interacting protein family member B8
HMG-box transcription factor 1
microtubule associated protein RP/EB family member 1
aldehyde dehydrogenase 1 family member L2
eEF1A lysine and N-terminal methyltransferase
family with sequence similarity 76 member A
mitogen-activated protein kinase kinase kinase 6
ninjurin 1
family with sequence similarity 13 member A
tubulin beta 4B class IVb
kinesin family member 21A
asparaginase and isoaspartyl peptidase 1
NODAL modulator 1
cytochrome b5 domain containing 1
chromosome 15 open reading frame 41
CD160 molecule
XIAP associated factor 1
phospholipase C beta 1
Rap guanine nucleotide exchange factor 4
novel protein
zinc finger protein 276
activated leukocyte cell adhesion molecule
glutamate rich WD repeat containing 1
F-box protein 31
TATA-box binding protein like 1
DDB1 and CUL4 associated factor 11
speckle type BTB/POZ protein like
achaete-scute family bHLH transcription factor 2
codanin 1

chloride voltage-gated channel 7
WD repeat domain 11
Ecm29 proteasome adaptor and scaffold
mitochondrial ribosome recycling factor
MOB kinase activator 3B
adducin 2
ubiquitin conjugating enzyme E2 E3
glycerophosphodiester phosphodiesterase domain containing 5
tumor protein p63 regulated 1 like
tumor protein p63 regulated 1
ataxin 2 like
RuvB like AAA ATPase 2
RALBP1 associated Eps domain containing 1
platelet activating factor acetylhydrolase 2
FKBP prolyl isomerase 5
SEC62 homolog, preprotein translocation factor
ubiquitin conjugating enzyme E2 E2
methyl-CpG binding domain protein 6
solute carrier family 27 member 1
insulin degrading enzyme
family with sequence similarity 8 member A1
solute carrier family 22 member 16
MER proto-oncogene, tyrosine kinase
protein phosphatase 2 regulatory subunit Bgamma
calcium/calmodulin dependent protein kinase II gamma
ATP synthase F1 subunit alpha
DnaJ heat shock protein family (Hsp40) member C13
enolase-phosphatase 1
platelet derived growth factor C
HAUS augmin like complex subunit 8
fibroblast growth factor receptor 2
ribosomal RNA processing 1B
thrombospondin 1
ABO, alpha 1-3-N-acetylgalactosaminyltransferase and alpha 1-3-galactosyltransferase
sarcosine dehydrogenase
interaction protein for cytohesin exchange factors 1
coiled-coil domain containing 149
novel protein, DEPDC5-YWHAH readthrough
methyltransferase like 15
ER membrane protein complex subunit 9
utrophin
nitrilase family member 2
signal recognition particle 68
mitochondrial ribosomal protein S25
myelin protein zero
polypeptide N-acetylgalactosaminyltransferase 6

TMEM9 domain family member B
PR/SET domain 10
nuclear receptor subfamily 1 group D member 1
poly(ADP-ribose) polymerase family member 14
oocyte secreted protein family member 3
purinergic receptor P2Y12
FKBP prolyl isomerase 9
synaptotagmin like 3
anti-silencing function 1B histone chaperone
MPL proto-oncogene, thrombopoietin receptor
ankyrin repeat and IBR domain containing 1
nuclear factor of activated T cells 2
MAF bZIP transcription factor K
PRELI domain containing 1
ILK associated serine/threonine phosphatase
DDB1 and CUL4 associated factor 5
ER lipid raft associated 1
myosin IXA
bromo adjacent homology domain containing 1
death associated protein 3
mitochondrial ribosomal protein S12
transforming growth factor beta 1
protein phosphatase methylesterase 1
cholinergic receptor nicotinic alpha 5 subunit
DEAD-box helicase 54
islet cell autoantigen 1 like
solute carrier family 25 member 33
neurochondrin
COPI coat complex subunit beta 2
NKAP domain containing 1
zinc finger protein 273
somatostatin receptor 3
sterile alpha motif domain containing 14
debranching RNA lariats 1
pleckstrin homology and coiled-coil domain containing D1
minichromosome maintenance complex component 6
BTG anti-proliferation factor 2
T-box transcription factor 19
transmembrane and immunoglobulin domain containing 3
nicotinate phosphoribosyltransferase
Obg like ATPase 1
HECT domain E3 ubiquitin protein ligase 3
heterogeneous nuclear ribonucleoprotein A/B
SHC adaptor protein 1
chaperonin containing TCP1 subunit 2
YME1 like 1 ATPase

MAK16 homolog
major histocompatibility complex, class I, F
ATP binding cassette subfamily A member 2
nucleoporin 85
ribosomal RNA processing 1
FLVCR heme transporter 2
C-C motif chemokine ligand 3 like 3
suppressor of glucose, autophagy associated 1
HEAT repeat containing 9
neurofibromin 2
solute carrier family 26 member 5
reticulophagy regulator 1
tetratricopeptide repeat domain 27
glutaredoxin 3
activating transcription factor 6
O-sialoglycoprotein endopeptidase
tripartite motif containing 46
adrenomedullin 2
prefoldin subunit 2
semaphorin 3C
D-dopachrome tautomerase like
negative elongation factor complex member C/D
xylulokinase
solute carrier family 11 member 2
dual specificity tyrosine phosphorylation regulated kinase 1A
lipase C, hepatic type
phosphatidylinositol glycan anchor biosynthesis class Q
eukaryotic translation initiation factor 2B subunit epsilon
tenascin R
novel protein
translocase of inner mitochondrial membrane 17A
aladin WD repeat nucleoporin
solute carrier family 7 member 5
centrosomal protein 89
thymocyte selection associated
enhancer of polycomb homolog 2
prostaglandin E synthase 2
peroxisomal testis enriched protein 1
G protein subunit alpha 13
tumor suppressor 2, mitochondrial calcium regulator
CEA cell adhesion molecule 1
ribosomal RNA adenine dimethylase domain containing 1
C-terminal binding protein 1
programmed cell death 10
C-type lectin domain containing 11A
plasminogen receptor with a C-terminal lysine

squalene epoxidase
GC-rich sequence DNA-binding factor 2
proton activated chloride channel 1
solute carrier family 27 member 6
protein phosphatase 1 catalytic subunit beta
actin related protein 2/3 complex subunit 2
Cdk5 and Abl enzyme substrate 2
malectin
cytochrome c oxidase assembly factor 7 (putative)
solute carrier family 39 member 11
zinc finger protein 714
C-C motif chemokine receptor like 2
Fc fragment of IgG receptor Ib
SDE2 telomere maintenance homolog
catenin beta interacting protein 1
adenylate cyclase 3
ADP ribosylation factor like GTPase 16
menin 1
fatty acid desaturase 3
adenylate kinase 4
cofilin 2
zinc finger protein 329
small G protein signaling modulator 2
KIAA0040
target of myb1 like 2 membrane trafficking protein
DnaJ heat shock protein family (Hsp40) member A3
transmembrane protein 106A
nucleolar protein 10
NACC family member 2
cubilin
NLR family pyrin domain containing 1
laminin subunit gamma 3
zinc finger protein 776
sortilin related receptor 1
LIM domain and actin binding 1
protein O-linked mannose N-acetylglucosaminyltransferase 1 (beta 1,2-)
transmembrane protein 50B
serine/threonine kinase 39
X-C motif chemokine ligand 2
potassium channel tetramerization domain containing 12
ATP synthase membrane subunit c locus 1
amidohydrolase domain containing 2
G protein subunit alpha q
NBPF member 3
lactamase beta 2
single-strand-selective monofunctional uracil-DNA glycosylase 1

proline rich transmembrane protein 1
Epstein-Barr virus induced 3
proline, glutamate and leucine rich protein 1
transmembrane protein 167A
cullin 1
yippee like 3
growth differentiation factor 15
heme binding protein 1
ankyrin repeat and SOCS box containing 2
zinc finger protein 383
agrin
modulator of smoothened
inner mitochondrial membrane peptidase subunit 1
zinc finger RNA binding protein
RNA binding motif protein 25
coiled-coil domain containing 9B
intraflagellar transport 46
IQ motif and Sec7 domain ArfGEF 3
phosphodiesterase 4B
nucleoporin 205
chromosome 9 open reading frame 153
zinc finger protein 671
junctional adhesion molecule 3
anoctamin 2
von Willebrand factor C and EGF domains
tyrosyl-DNA phosphodiesterase 1
ferredoxin reductase
MOB kinase activator 1A
caspase 8
beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group)
NSE4 homolog A, SMC5-SMC6 complex component
phosphofructokinase, liver type
endoplasmic reticulum lectin 1
ezrin
LSM4 homolog, U6 small nuclear RNA and mRNA degradation associated
DNA primase subunit 1
transmembrane serine protease 9
adducin 3
src kinase associated phosphoprotein 1
spermatogenesis associated 6 like
urocortin
WD repeat domain 46
PPFIA binding protein 2
trinucleotide repeat containing adaptor 6C
nuclear receptor corepressor 1
selenophosphate synthetase 2

Y-box binding protein 1
protein O-linked mannose N-acetylglucosaminyltransferase 2 (beta 1,4-)
tetratricopeptide repeat domain 34
inositol polyphosphate-4-phosphatase type I A
ataxin 7 like 2
solute carrier family 25 member 15
ubiquitin specific peptidase 42
histamine receptor H4
smoothelin
regulation of nuclear pre-mRNA domain containing 2
caspase activity and apoptosis inhibitor 1
tubulin tyrosine ligase like 5
membrane bound O-acyltransferase domain containing 7
pre-mRNA processing factor 4
mitochondrial tRNA translation optimization 1
cytochrome P450 family 20 subfamily A member 1
sodium channel and clathrin linker 1
Charcot-Leyden crystal galectin
centrosomal protein 85
protein serine kinase H1
proteasome 26S subunit, non-ATPase 14
synaptojanin 2
purinergic receptor P2Y13
TSR1 ribosome maturation factor
novel protein
F-box and WD repeat domain containing 4
membrane spanning 4-domains A4A
zinc finger protein 440
mitogen-activated protein kinase kinase kinase 3
gem nuclear organelle associated protein 4
cyclin dependent kinase 2 associated protein 1
cAMP responsive element binding protein like 2
BCAR3 adaptor protein, NSP family member
MIS18 binding protein 1
platelet activating factor acetylhydrolase 1b catalytic subunit 2
nuclear cap binding protein subunit 2
DNA polymerase epsilon 2, accessory subunit
solute carrier family 20 member 2
zinc finger protein 644
dynactin subunit 5
transient receptor potential cation channel subfamily V member 4
coiled-coil domain containing 68
chitinase domain containing 1
ADP ribosylation factor interacting protein 2
protein kinase D1
lymphotoxin alpha

mitochondrial ribosomal protein L9
NADH:ubiquinone oxidoreductase subunit A12
GM2 ganglioside activator
mitochondrial transcription rescue factor 1
WW domain containing oxidoreductase
peroxidase like
interferon gamma receptor 1
nucleic acid binding protein 2
phospholipase A2 group XV
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 1
TRAF family member associated NFkB activator
shiftless antiviral inhibitor of ribosomal frameshifting
Fc fragment of IgG binding protein
ATPase H⁺ transporting V1 subunit D
solute carrier family 36 member 4
asteroid homolog 1
BCS1 homolog, ubiquinol-cytochrome c reductase complex chaperone
acetyl-CoA acetyltransferase 1
cytochrome P450 family 2 subfamily S member 1
charged multivesicular body protein 3
eukaryotic translation termination factor 1
CD3e molecule associated protein
leucine zipper and EF-hand containing transmembrane protein 2
thioredoxin reductase 2
M-phase phosphoprotein 9
transmembrane protein 267
cytokine induced apoptosis inhibitor 1
rotatin
prune exopolyphosphatase 1
exosome component 10
5'-nucleotidase domain containing 4
trans-L-3-hydroxyproline dehydratase
zinc finger CCHC-type containing 3
RAB18, member RAS oncogene family
HEXIM P-TEFb complex subunit 1
maturin, neural progenitor differentiation regulator homolog
RNA polymerase I subunit B
ATPase Na⁺/K⁺ transporting subunit beta 3
striatin
mitochondrial carrier 1
scleraxis bHLH transcription factor
small ArfGAP 1
cutC copper transporter
Sp4 transcription factor
angel homolog 2
formin binding protein 1

required for excision 1-B domain containing
alpha-2-macroglobulin
secretory carrier membrane protein 1
cell division cycle 73
TBC1 domain family member 19
docking protein 6
neurexophilin and PC-esterase domain family member 3
mitochondrial contact site and cristae organizing system subunit 10
GIT ArfGAP 1
estrogen receptor binding site associated antigen 9
zinc finger HIT-type containing 3
adenosine deaminase RNA specific
RAB3A, member RAS oncogene family
CDP-diacylglycerol--inositol 3-phosphatidyltransferase
ADAM metalloproteinase domain 19
ribosomal RNA processing 9, U3 small nucleolar RNA binding protein
arylsulfatase G
glutaredoxin 2
transmembrane protein 123
cytochrome c oxidase assembly factor 4 homolog
small integral membrane protein 24
zinc finger with KRAB and SCAN domains 5
PHD and ring finger domains 1
procollagen-lysine,2-oxoglutarate 5-dioxygenase 3
transmembrane p24 trafficking protein 10
arginase 1
gastric inhibitory polypeptide receptor
oxysterol binding protein like 5
RAB5B, member RAS oncogene family
lymphotoxin beta receptor
dymeclin
carnitine O-octanoyltransferase
ret finger protein like 2
troponin T3, fast skeletal type
PNMA family member 1
coronin 1A
interferon induced protein with tetratricopeptide repeats 5
nucleoporin 35
Rho guanine nucleotide exchange factor 10 like
molybdenum cofactor synthesis 3
centrosomal protein 164
stromal antigen 1
F-box protein 15
dihydrolipoamide dehydrogenase
RAB interacting factor
hyperpolarization activated cyclic nucleotide gated potassium channel 3

poly(A) binding protein cytoplasmic 1 like
large 60S subunit nuclear export GTPase 1
cyclin dependent kinase like 1
zinc finger protein 70
DNA polymerase mu
DNA ligase 3
phospholipase C gamma 2
transmembrane protein 154
CCM2 scaffold protein
glycerophosphodiester phosphodiesterase domain containing 3
ubiquitin conjugating enzyme E2 Q2
solute carrier family 22 member 1
glucosaminyl (N-acetyl) transferase 4
brain enriched myelin associated protein 1
midkine
RAB7A, member RAS oncogene family
zinc finger protein 606
LLGL scribble cell polarity complex component 1
glutathione S-transferase C-terminal domain containing
cytochrome c oxidase assembly factor heme A:farnesyltransferase COX10
small nuclear ribonucleoprotein polypeptide F
RNA polymerase II associated protein 3
POP1 homolog, ribonuclease P/MRP subunit
cryptochrome circadian regulator 2
sorbin and SH3 domain containing 3
PARP1 binding protein
heme oxygenase 2
FA core complex associated protein 100
novel transcript
zinc finger CCHC-type and RNA binding motif containing 1
semaphorin 4G
5-hydroxymethylcytosine binding, ES cell specific
mitogen-activated protein kinase kinase 6
phosphorylase kinase catalytic subunit gamma 1
Ran GTPase activating protein 1
BRF1 RNA polymerase III transcription initiation factor subunit
AKT serine/threonine kinase 1
proteasome 26S subunit, ATPase 5
AKT serine/threonine kinase 2
lysine demethylase 4B
small ubiquitin like modifier 3
major facilitator superfamily domain containing 13A
OTU deubiquitinase 1
DEAD-box helicase 51
A-kinase anchoring protein 9
mitochondrial ribosomal protein S27

formin 1
solute carrier family 7 member 11
adenylate cyclase 9
serine/threonine kinase 38 like
membrane palmitoylated protein 3
kelch like family member 6
zinc finger and SCAN domain containing 18
ring finger protein 135
LSM11, U7 small nuclear RNA associated
chromosome 12 open reading frame 66
cytochrome c oxidase assembly factor 1 homolog
2'-5'-oligoadenylate synthetase like
patatin like phospholipase domain containing 6
cell division cycle 7
FYVE, RhoGEF and PH domain containing 3
cytochrome c oxidase assembly factor COX18
tectorin alpha
ubiquitin specific peptidase 37
ATPase Na⁺/K⁺ transporting subunit alpha 1
ribosomal protein L7 like 1
proteasome 20S subunit beta 3
ferritin light chain
transmembrane protein 50A
trans-golgi network vesicle protein 23 homolog B
zinc finger protein 487
phosphatidylinositol-5-phosphate 4-kinase type 2 beta
mitochondrial pyruvate carrier 2
USO1 vesicle transport factor
THAP domain containing 8
hemoglobin subunit beta
G protein subunit alpha i2
family with sequence similarity 89 member B
WNK lysine deficient protein kinase 2
carboxymethylenebutenolidase homolog
ornithine decarboxylase antizyme 2
DEAD-box helicase 55
plexin A1
anaphase promoting complex subunit 1
transforming growth factor beta 1 induced transcript 1
zinc finger and BTB domain containing 34
MICAL like 2
polypeptide N-acetylgalactosaminyltransferase 10
zinc finger protein 771
chromosome 7 open reading frame 61
NADH:ubiquinone oxidoreductase complex assembly factor 3
Ras and Rab interactor like

RAD18 E3 ubiquitin protein ligase
zinc finger DHHC-type palmitoyltransferase 17
TATA-box binding protein associated factor 3
cilia and flagella associated protein 70
nebulin
2'-5'-oligoadenylate synthetase 2
solute carrier family 27 member 3
golgi SNAP receptor complex member 1
SRY-box transcription factor 12
IDNK gluconokinase
methyl-CpG binding domain 4, DNA glycosylase
mitogen-activated protein kinase kinase 2
rhotekin
cysteine rich secretory protein LCCL domain containing 2
mannosidase alpha class 2A member 2
dynein axonemal heavy chain 17
tubulin folding cofactor E
serine/threonine kinase 35
transport and golgi organization 6 homolog
ubiquitin like domain containing CTD phosphatase 1
RNA polymerase II associated protein 1
dihydroorotate dehydrogenase (quinone)
solute carrier family 25 member 19
myeloid associated differentiation marker
zinc finger protein 394
tripartite motif containing 5
heat shock protein family A (Hsp70) member 9
ankyrin repeat domain 23
ganglioside induced differentiation associated protein 1
spalt like transcription factor 2
ATPase family AAA domain containing 5
TELO2 interacting protein 2
valyl-tRNA synthetase 2, mitochondrial
TBC1 domain family member 9
SPG7 matrix AAA peptidase subunit, paraplegin
cofilin 1
CDC like kinase 2
peroxisome proliferator activated receptor gamma
trans-2,3-enoyl-CoA reductase
GAR1 ribonucleoprotein
erythrocyte membrane protein band 4.1 like 5
STIMATE-MUSTN1 readthrough
novel transcript
GTPase activating Rap/RanGAP domain like 3
abhydrolase domain containing 13
terminal nucleotidyltransferase 5A

antizyme inhibitor 1
DBF4 zinc finger
cytochrome c, somatic
chromosome 5 open reading frame 34
RAB27B, member RAS oncogene family
phosphatidylinositol glycan anchor biosynthesis class B
zinc finger protein 496
lysophosphatidylcholine acyltransferase 4
endoplasmic reticulum-golgi intermediate compartment 1
major facilitator superfamily domain containing 4B
small nuclear ribonucleoprotein polypeptide G
TBC1 domain family member 20
nidogen 1
protein phosphatase 3 catalytic subunit beta
ovochoymase 1
transmembrane protein 44
PDZ domain containing 2
DNA polymerase delta 2, accessory subunit
amyloid beta precursor protein binding family A member 3
hes family bHLH transcription factor 1
zinc finger protein 66
tetratricopeptide repeat domain 8
adhesion G protein-coupled receptor G6
ring finger protein 115
calcium and integrin binding 1
SOS Ras/Rac guanine nucleotide exchange factor 1
prothymosin alpha
URI1 prefoldin like chaperone
RAD9 checkpoint clamp component A
copper metabolism domain containing 1
peripheral myelin protein 22
kelch repeat and BTB domain containing 2
GCN1 activator of EIF2AK4
G protein subunit alpha z
TEK receptor tyrosine kinase
F-box and leucine rich repeat protein 17
castor zinc finger 1
novel transcript
cytochrome b-245 alpha chain
potassium voltage-gated channel modifier subfamily G member 1
breast carcinoma amplified sequence 4
NFKB inhibitor beta
selenoprotein K
melanotransferrin
RAD51 paralog C
ALG2 alpha-1,3/1,6-mannosyltransferase

RNA pseudouridine synthase D4
zinc finger protein 346
potassium calcium-activated channel subfamily M regulatory beta subunit 4
phosphatidylcholine transfer protein
solute carrier family 48 member 1
MARVEL domain containing 1
pseudopodium enriched atypical kinase 1
SET domain bifurcated histone lysine methyltransferase 2
carboxypeptidase D
CD69 molecule
zinc finger protein 429
testis expressed 10
TSC complex subunit 2
protein kinase, membrane associated tyrosine/threonine 1
interleukin 34
late endosomal/lysosomal adaptor, MAPK and MTOR activator 3
LDL receptor related protein 1
cyclin dependent kinase 10
adaptor related protein complex 3 subunit sigma 1
polypeptide N-acetylgalactosaminyltransferase like 6
nucleoporin 54
outer dense fiber of sperm tails 3B
retinol dehydrogenase 10
biogenesis of ribosomes BRX1
adaptor related protein complex 4 subunit mu 1
HtrA serine peptidase 1
protein kinase N2
ubiquitin associated protein 2
transcription factor B2, mitochondrial
F-box and WD repeat domain containing 9
zinc finger protein 469
actin related protein 5
zinc finger protein 808
neuroligin 2
endonuclease/exonuclease/phosphatase family domain containing 1
sodium voltage-gated channel alpha subunit 9
spondin ankyrin repeat domain family member C
abhydrolase domain containing 14B
ADP ribosylation factor like GTPase 14 effector protein
USH1 protein network component harmonin binding protein 1
importin 5
diacylglycerol kinase alpha
vascular endothelial growth factor B
cap methyltransferase 1
BCAS2 pre-mRNA processing factor
NADH:ubiquinone oxidoreductase subunit B5

homer scaffold protein 1
coiled-coil domain containing 154
RAB3 GTPase activating protein catalytic subunit 1
novel protein
oligosaccharyltransferase complex non-catalytic subunit
lipin 1
spectrin beta, non-erythrocytic 4
programmed cell death 5
RNA binding motif protein 43
sorting nexin 1
MIA SH3 domain ER export factor 2
inositol 1,4,5-trisphosphate receptor type 3
ER membrane protein complex subunit 1
eukaryotic translation initiation factor 2B subunit delta
centrosomal protein 170
armadillo like helical domain containing 1
neuropilin 2
copine 4
Rho GTPase activating protein 5
STE20 related adaptor alpha
protein tyrosine kinase 7 (inactive)
spermatogenesis associated 24
serine hydrolase like 2
macrophage immunometabolism regulator
ATPase plasma membrane Ca²⁺ transporting 1
REST corepressor 3
WD repeat domain 18
pannexin 2
MYST/Esa1 associated factor 6
carbohydrate sulfotransferase 10
BRCA1 associated RING domain 1
AT-hook containing transcription factor 1
TRPM8 channel associated factor 2
serine/threonine kinase 16
differentially expressed in FDCP 8 homolog
family with sequence similarity 114 member A2
discs large MAGUK scaffold protein 1
F-box protein 11
beta 3-glucosyltransferase
solute carrier family 1 member 7
beta-1,3-galactosyltransferase 4
carboxypeptidase Q
phosphate cytidyltransferase 2, ethanolamine
heat shock transcription factor 5
MCC regulator of WNT signaling pathway
lon peptidase 2, peroxisomal

WD repeat domain 3
protein kinase, DNA-activated, catalytic subunit
SPRY domain containing 7
zinc finger protein 786
secretory carrier membrane protein 3
glutaredoxin
RAB11B, member RAS oncogene family
N-alpha-acetyltransferase 25, NatB auxiliary subunit
persephin
novel protein
early growth response 3
novel protein
hippocalcin like 4
nuclear cap binding protein subunit 1
methyltransferase like 21A
angiopoietin like 6
zinc finger protein 883
autophagy related 14
COP9 signalosome subunit 3
solute carrier family 35 member A5
BCL2 interacting protein 1
nuclear FMR1 interacting protein 1
ATP synthase membrane subunit c locus 3
ERCC excision repair 6, chromatin remodeling factor
leucine rich repeat containing 14
heat shock protein family A (Hsp70) member 13
chromosome 1 open reading frame 112
chromosome 11 open reading frame 49
DGCR8 microprocessor complex subunit
DnaJ heat shock protein family (Hsp40) member C28
spire type actin nucleation factor 1
F-box protein 39
phospholipase D family member 5
prolyl 3-hydroxylase family member 4 (inactive)
HAUS augmin like complex subunit 6
gigaxonin
SPARC (osteonectin), cwcv and kazal like domains proteoglycan 2
chromosome transmission fidelity factor 18
low density lipoprotein receptor adaptor protein 1
ELOVL fatty acid elongase 5
solute carrier family 29 member 1 (Augustine blood group)
stromal cell derived factor 2 like 1
centromere protein C
COPI coat complex subunit beta 1
DDB1 and CUL4 associated factor 16
family with sequence similarity 178 member B

endonuclease G
peptidylprolyl isomerase F
PAX interacting protein 1
zinc finger CCHC-type containing 2
tetratricopeptide repeat domain 19
zinc finger protein 572
RNA binding protein with serine rich domain 1
clathrin light chain B
cytohesin 1
mitochondrial ribosomal protein L40
carboxypeptidase X, M14 family member 2
fatty acid amide hydrolase
pumilio RNA binding family member 3
syntrophin gamma 2
transmembrane protein 234
embryonic ectoderm development
ankyrin repeat and FYVE domain containing 1
fatty acid synthase
glia maturation factor gamma
Ral GEF with PH domain and SH3 binding motif 1
ATP binding cassette subfamily B member 9
N-deacetylase and N-sulfotransferase 1
proline and serine rich 2
BAG cochaperone 1
golgin A8 family member M
Scm polycomb group protein like 4
nucleoporin 37
G protein-coupled receptor 137B
chromosome 1 open reading frame 174
glypican 2
xylosyltransferase 1
intraflagellar transport 122
hemicentin 1
karyopherin subunit alpha 3
FKBP prolyl isomerase 3
zinc finger CCCH-type containing 7A
semaphorin 6C
SFI1 centrin binding protein
charged multivesicular body protein 7
glutathione peroxidase 3
gem nuclear organelle associated protein 6
nucleolar protein with MIF4G domain 1
glycosylphosphatidylinositol anchored molecule like
tRNA methyltransferase 10B
SEC14 like lipid binding 4
SMCR8-C9orf72 complex subunit

cyclin dependent kinase 11B
lin-52 DREAM MuvB core complex component
coiled-coil-helix-coiled-coil-helix domain containing 10
synaptopodin 2
PTTG1 regulator of sister chromatid separation, securin
torsin 1A interacting protein 1
purinergic receptor P2Y11
chromosome 4 open reading frame 19
zinc finger protein 266
adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2
immunoglobulin superfamily member 6
tripartite motif containing 71
zinc finger protein 14
UTP11 small subunit processome component
zinc finger protein 814
RNA binding motif single stranded interacting protein 3
Gse1 coiled-coil protein
fibrosin like 1
endoplasmic reticulum aminopeptidase 1
TERF2 interacting protein
apolipoprotein L1
eukaryotic translation initiation factor 3 subunit A
zinc finger protein 708
SMAD family member 5
chromatin assembly factor 1 subunit A
lipase A, lysosomal acid type
PRR5-ARHGAP8 readthrough
solute carrier family 12 member 8
akirin 2
spleen associated tyrosine kinase
hemoglobin subunit alpha 1
ubiquitin protein ligase E3C
3'(2'), 5'-bisphosphate nucleotidase 1
solute carrier family 46 member 1
isovaleryl-CoA dehydrogenase
SIN3 transcription regulator family member B
sphingomyelin phosphodiesterase acid like 3B
disco interacting protein 2 homolog A
heat shock protein family A (Hsp70) member 12A
chromosome 2 open reading frame 92
ribophorin II
armadillo repeat containing 3
glutathione peroxidase 7
shugoshin 1
MINDY lysine 48 deubiquitinase 3
ring finger protein 182

translocase of outer mitochondrial membrane 20
fatty acid desaturase 2
MAPK interacting serine/threonine kinase 2
ring finger protein 111
RB binding protein 6, ubiquitin ligase
sperm acrosome associated 9
potassium voltage-gated channel subfamily Q member 4
LHFPL tetraspan subfamily member 5
DnaJ heat shock protein family (Hsp40) member B11
mitochondrial rRNA methyltransferase 3
zinc finger MYND-type containing 19
discoidin, CUB and LCCL domain containing 1
actin like 10
tripeptidyl peptidase 1
zinc finger MYND-type containing 10
ankyrin repeat and BTB domain containing 1
family with sequence similarity 83 member F
SH3 and cysteine rich domain
progesterone and adipoQ receptor family member 4
FA complementation group F
zinc finger FYVE-type containing 19
LDL receptor related protein 8
zinc finger family member 783
ribonuclease H1
HECT and RLD domain containing E3 ubiquitin protein ligase family member 6
dehydrodolichyl diphosphate synthase subunit
two pore segment channel 2
HAUS augmin like complex subunit 5
reticulocalbin 2
zinc fingers and homeoboxes 2
family with sequence similarity 209 member A
potassium voltage-gated channel subfamily A regulatory beta subunit 2
mitogen-activated protein kinase 9
transcription termination factor 2
proline rich 3
MORN repeat containing 3
NADH:ubiquinone oxidoreductase subunit S6
phosphotriesterase related
nudix hydrolase 21
zinc finger protein 766
DAZ associated protein 1
SEC23 interacting protein
aspartyl aminopeptidase
RANBP2 like and GRIP domain containing 2
polypeptide N-acetylgalactosaminyltransferase 7
SEH1 like nucleoporin

microtubule associated protein 1A
novel protein
kelch like family member 12
structural maintenance of chromosomes 3
muscleblind like splicing regulator 1
GTP cyclohydrolase 1
CD101 molecule
zinc finger protein 562
microtubule affinity regulating kinase 2
adherens junctions associated protein 1
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 3
zinc finger HIT-type containing 6
heparan sulfate 6-O-sulfotransferase 1
ATP binding cassette subfamily E member 1
centrosomal protein 57 like 1
transmembrane protein 253
B double prime 1, subunit of RNA polymerase III transcription initiation factor IIIB
ADP ribosylation factor like GTPase 5A
phosphatidylinositol glycan anchor biosynthesis class L
pleckstrin homology like domain family B member 2
zinc finger GRF-type containing 1
high mobility group 20A
calcium voltage-gated channel auxiliary subunit alpha2delta 4
enoyl-CoA hydratase domain containing 3
lysine demethylase 2A
germinal center associated signaling and motility like
POZ/BTB and AT hook containing zinc finger 1
reticulocalbin 3
adenylate cyclase 10
elongator acetyltransferase complex subunit 6
heat shock protein family H (Hsp110) member 1
DENN domain containing 1B
anillin actin binding protein
nudix hydrolase 6
DEAD-box helicase 56
tRNA nucleotidyl transferase 1
interleukin 27
neuronal pentraxin receptor
general transcription factor IIF subunit 2
transcription activation suppressor family member 2
cyclin G associated kinase
tubulin alpha 4a
zinc finger CCHC-type containing 8
VPS54 subunit of GARP complex
Mtr4 exosome RNA helicase
N-myristoyltransferase 2

chromodomain helicase DNA binding protein 8
Src like adaptor
oxoglutarate dehydrogenase
F-box and leucine rich repeat protein 14
CWF19 like cell cycle control factor 2
mitochondrial genome maintenance exonuclease 1
WRN RecQ like helicase
cytochrome c oxidase subunit 5A
abraxas 2, BRISC complex subunit
THAP domain containing 9
B9 domain containing 1
erb-b2 receptor tyrosine kinase 2
ras homolog family member A
RNF103-CHMP3 readthrough
transmembrane protein 240
ubiquitin conjugating enzyme E2 G2
gephyrin
troponin T1, slow skeletal type
glyoxylate and hydroxypyruvate reductase
presenilin associated rhomboid like
centriolin
proteasome 20S subunit alpha 3
methyltransferase like 26
transmembrane protein 131
ATPase H⁺ transporting V1 subunit B2
von Willebrand factor A domain containing 7
ribosome binding protein 1
zinc finger protein 385A
annexin A2
heparin binding EGF like growth factor
CTD small phosphatase 1
origin recognition complex subunit 6
Novel protein
component of oligomeric golgi complex 6
F11 receptor
tripartite motif containing 28
Rho GTPase activating protein 27
novel transcript
formin like 3
DEAH-box helicase 32 (putative)
junctional sarcoplasmic reticulum protein 1
coiled-coil domain containing 85C
phosphodiesterase 1B
retrotransposon Gag like 6
thyroid hormone receptor interactor 10
phosphatidylinositol glycan anchor biosynthesis class V

3-oxoacyl-ACP synthase, mitochondrial
nuclear transcription factor, X-box binding like 1
immunoglobulin superfamily member 22
lysyl oxidase like 2
PC-esterase domain containing 1B
ADP ribosylation factor like GTPase 1
ATP binding cassette subfamily B member 1
jumonji and AT-rich interaction domain containing 2
DEF6 guanine nucleotide exchange factor
homeodomain interacting protein kinase 3
SEC14 like lipid binding 3
p21 (RAC1) activated kinase 2
Z-DNA binding protein 1
pentatricopeptide repeat domain 3
sorting nexin 10
BCL2 family apoptosis regulator BOK
intraflagellar transport 22
ubiquitin like with PHD and ring finger domains 1
StAR related lipid transfer domain containing 9
oxidation resistance 1
zinc finger protein 430
DDB1 and CUL4 associated factor 13
regulatory factor X7
RAB1A, member RAS oncogene family
Sad1 and UNC84 domain containing 2
sirtuin 1
phosphoglucomutase 5
eukaryotic translation initiation factor 4E binding protein 2
dipeptidase 3
zinc finger protein like 1
elongator acetyltransferase complex subunit 5
testis associated actin remodelling kinase 1
NADH:ubiquinone oxidoreductase subunit B2
centromere protein O
FKBP prolyl isomerase 7
zinc finger FYVE-type containing 9
replication protein A2
myosin VIIA
kelch like family member 26
kelch repeat and BTB domain containing 3
pleckstrin homology and RUN domain containing M1
RNA polymerase I subunit A
holocarboxylase synthetase
SET and MYND domain containing 4
ralA binding protein 1
RAB33B, member RAS oncogene family

leucine rich repeat containing 37A
glucuronidase beta
small integral membrane protein 12
acrosin binding protein
cyclin dependent kinase 13
EDAR associated death domain
hyaluronan binding protein 4
TMF1 regulated nuclear protein 1
chromatin target of PRMT1
novel protein
tripartite motif containing 7
centrosomal protein 85 like
interferon gamma
novel protein, VKORC1 and PRSS53 readthrough
LEO1 homolog, Paf1/RNA polymerase II complex component
amyloid beta precursor protein binding family A member 1
origin recognition complex subunit 5
ubiquinol-cytochrome c reductase complex assembly factor 2
myeloid derived growth factor
M-phase phosphoprotein 10
Fc fragment of IgG receptor IIIb
coronin 1B
CD27 molecule
E2F transcription factor 7
polycomb group ring finger 5
annexin A11
zinc finger protein 682
thyroid stimulating hormone receptor
bromodomain containing 7
transmembrane protein 243
cilia and flagella associated protein 77
mex-3 RNA binding family member C
phospholipase A2 group VI
serine racemase
small nuclear RNA activating complex polypeptide 4
tetratricopeptide repeat domain 39C
serum/glucocorticoid regulated kinase 1
helicase like transcription factor
complement C3
coiled-coil domain containing 50
neurotensin receptor 1
major histocompatibility complex, class II, DO alpha
CD72 molecule
RAR related orphan receptor C
B cell linker
sialic acid binding Ig like lectin 6

matrix metalloproteinase 8
kazrin, periplakin interacting protein
Spi-B transcription factor
calpain 13
leukocyte immunoglobulin like receptor A4
polypeptide N-acetylgalactosaminyltransferase 14
olfactomedin 4
ArfGAP with SH3 domain, ankyrin repeat and PH domain 1
adhesion G protein-coupled receptor E2
transcription factor 4
major histocompatibility complex, class II, DP beta 1
adenosine monophosphate deaminase 3
major histocompatibility complex, class II, DQ alpha 1
Fc receptor like A
nuclear factor kappa B subunit 1
zinc finger protein 683
toll like receptor 5
abhydrolase domain containing 15
lactotransferrin
Fc receptor like 5
neural proliferation, differentiation and control 1
aldehyde dehydrogenase 1 family member A2
STEAP family member 1B
cytochrome b561
carnitine palmitoyltransferase 1A
LIM domains containing 1
major histocompatibility complex, class II, DQ beta 1
ring finger protein 207
INSC spindle orientation adaptor protein
lipocalin 2
major histocompatibility complex, class II, DP alpha 1
CEA cell adhesion molecule 8
alkaline phosphatase, biomineralization associated
phospholipase D family member 4
tectonin beta-propeller repeat containing 2
cysteine rich transmembrane module containing 1
endothelin converting enzyme 1
reticulon 2
secretory carrier membrane protein 5
defensin alpha 3
RAB10, member RAS oncogene family
aspartate beta-hydroxylase
N-ribosyldihydronicotinamide:quinone reductase 2
acidic nuclear phosphoprotein 32 family member A
transmembrane and coiled-coil domains 3
major histocompatibility complex, class II, DQ beta 2

pyruvate dehydrogenase kinase 4
C-type lectin domain family 4 member F
protein phosphatase 1 regulatory subunit 16B
glycosyltransferase 1 domain containing 1
GRAM domain containing 1A
plexin C1
zinc finger and BTB domain containing 32
phospholipase B1
pleckstrin homology and RhoGEF domain containing G7
transmembrane protein 45B
CD22 molecule
interleukin 12 receptor subunit beta 2
RELB proto-oncogene, NF-kB subunit
major histocompatibility complex, class II, DQ alpha 2
ADP ribosylation factor GTPase activating protein 3
chromosome 8 open reading frame 88
acetyl-CoA acyltransferase 2
HCK proto-oncogene, Src family tyrosine kinase
CDC42 effector protein 3
family with sequence similarity 200 member B
potassium voltage-gated channel subfamily H member 3
cathelicidin antimicrobial peptide
TNF receptor superfamily member 21
calcium/calmodulin dependent protein kinase kinase 2
myosin X
prokineticin 2
U6 snRNA biogenesis phosphodiesterase 1
mannose receptor C-type 1
defensin alpha 4
resistin
sarcospan
copine 7
ST6 beta-galactoside alpha-2,6-sialyltransferase 1
interleukin 4 receptor
tyrosyl-DNA phosphodiesterase 2
PHD finger protein 21A
tudor domain containing 9
golgi associated, gamma adaptin ear containing, ARF binding protein 2
protein kinase C and casein kinase substrate in neurons 1
ST3 beta-galactoside alpha-2,3-sialyltransferase 2
CAP-Gly domain containing linker protein 1
TNF receptor superfamily member 13B
histamine receptor H2
transient receptor potential cation channel subfamily M member 6
solute carrier family 22 member 4
ATP binding cassette subfamily A member 13

follistatin like 4
F-box and leucine rich repeat protein 13
solute carrier family 25 member 20
Pim-3 proto-oncogene, serine/threonine kinase
B cell scaffold protein with ankyrin repeats 1
CEA cell adhesion molecule 6
FERM, ARH/RhoGEF and pleckstrin domain protein 2
procollagen C-endopeptidase enhancer 2
mitogen-activated protein kinase kinase kinase 1
membrane bound O-acyltransferase domain containing 2
interferon gamma receptor 2
cAMP responsive element binding protein 5
secretory leukocyte peptidase inhibitor
chondroitin sulfate N-acetylgalactosaminyltransferase 1
annexin A3
oxidized low density lipoprotein receptor 1
multiple C2 and transmembrane domain containing 2
interferon regulatory factor 8
mitogen-activated protein kinase kinase kinase 20
interferon lambda receptor 1
solute carrier family 25 member 37
sulfotransferase family 1B member 1
N-terminal EF-hand calcium binding protein 1
nuclear prelamin A recognition factor
orosomucoid 1
ubiquitin specific peptidase 28
POU class 2 homeobox associating factor 1
protein kinase C delta
formyl peptide receptor 3
nuclear factor kappa B subunit 2
flotillin 1
KIAA0825
chitinase 1
bactericidal permeability increasing protein
POC1 centriolar protein B
SLAM family member 6
Kruppel like factor 7
glycogen phosphorylase L
IKAROS family zinc finger 3
S100 calcium binding protein A12
poly(ADP-ribose) polymerase 1
BH3 interacting domain death agonist
folate receptor gamma
acetyl-CoA acyltransferase 1
lin-7 homolog A, crumbs cell polarity complex component
tetraspanin 13

anoctamin 10
lymphocyte transmembrane adaptor 1
TNFAIP3 interacting protein 1
solute carrier organic anion transporter family member 3A1
C-C motif chemokine receptor 4
class II major histocompatibility complex transactivator
cyclin and CBS domain divalent metal cation transport mediator 4
BCL6 transcription repressor
major histocompatibility complex, class II, DR beta 1
macrophage scavenger receptor 1
C-X-C motif chemokine ligand 9
angiotensin II receptor associated protein
homeobox C4
arachidonate 5-lipoxygenase
thioredoxin reductase 1
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
ITPRIP like 1
flotillin 2
BAF chromatin remodeling complex subunit BCL11A
sialic acid binding Ig like lectin 9
signal regulatory protein alpha
serpin family B member 10
Janus kinase 3
mitogen-activated protein kinase 14
signaling lymphocytic activation molecule family member 1
ribosomal RNA processing 12 homolog
elastase, neutrophil expressed
integrin subunit beta 4
SRSF protein kinase 1
kringle containing transmembrane protein 1
zinc finger protein 608
methyltransferase like 9
TNF receptor associated factor 4
KIAA0319
major histocompatibility complex, class II, DR beta 5
interleukin 12 receptor subunit beta 1
CD177 molecule
TNF receptor associated factor 5
acyl-CoA synthetase short chain family member 3
CD79a molecule
SEL1L family member 3
protein kinase C and casein kinase substrate in neurons 2
solute carrier family 12 member 3
niban apoptosis regulator 1
haptoglobin
mast cell expressed membrane protein 1

synaptopodin
hexokinase 3
coagulation factor V
signal transducer and activator of transcription 5B
NOP2/Sun RNA methyltransferase family member 7
spermatogenesis and centriole associated 1
GDNF family receptor alpha 2
adaptor related protein complex 1 subunit sigma 3
neutrophil cytosolic factor 4
glutaminyl-tRNA amidotransferase subunit QRSL1
single stranded DNA binding protein 4
syndecan 4
semaphorin 4A
target of myb1 membrane trafficking protein
methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate
pleckstrin homology domain containing M3
zinc finger DHHC-type palmitoyltransferase 19
major histocompatibility complex, class II, DO beta
regulator of hemoglobinization and erythroid cell expansion
TNF receptor superfamily member 13C
mitogen-activated protein kinase kinase kinase kinase 4
CD1c molecule
ATPase secretory pathway Ca²⁺ transporting 2
FGR proto-oncogene, Src family tyrosine kinase
DnaJ heat shock protein family (Hsp40) member C3
WD repeat domain 26
oxysterol binding protein like 8
G protein-coupled receptor 84
family with sequence similarity 126 member B
kelch like family member 2
metal regulatory transcription factor 1
interleukin 2 receptor subunit beta
cordon-bleu WH2 repeat protein like 1
C-type lectin like 1
maltase-glucoamylase 2 (putative)
SOS Ras/Rho guanine nucleotide exchange factor 2
ral guanine nucleotide dissociation stimulator like 4
family with sequence similarity 151 member B
S100 calcium binding protein A9
vanin 1
1,4-alpha-glucan branching enzyme 1
novel protein
membrane spanning 4-domains A1
N-acetylneuraminate pyruvate lyase
CD19 molecule
alanyl aminopeptidase, membrane

caspase recruitment domain family member 19
C-C motif chemokine receptor 5 (gene/pseudogene)
regulatory factor X2
tetraspanin 3
adaptor related protein complex 3 subunit beta 2
hippocalcin like 1
aminopeptidase puromycin sensitive
cysteine rich secretory protein 3
dehydrogenase/reductase 13
rhopilin associated tail protein 1 like
myristoylated alanine rich protein kinase C substrate
histone deacetylase 7
collagen type XVII alpha 1 chain
CD74 molecule
complement C1r subcomponent like
microsomal glutathione S-transferase 1
NFKB inhibitor alpha
DNA damage regulated autophagy modulator 1
dual specificity phosphatase 4
solute carrier family 2 member 3
sodium voltage-gated channel beta subunit 1
transmembrane protein 185B
gamma-aminobutyric acid type A receptor subunit rho2
tribbles pseudokinase 2
solute carrier family 12 member 9
dachshund family transcription factor 1
oxysterol binding protein like 10
ADAM metallopeptidase with thrombospondin type 1 motif 2
proteinase 3
5'-3' exoribonuclease 2
S100 calcium binding protein A8
sphingomyelin phosphodiesterase acid like 3A
ATP/GTP binding protein 1
spliceosome associated factor 3, U4/U6 recycling protein
leukocyte receptor tyrosine kinase
phospholipase B domain containing 1
interleukin 18 binding protein
MAF bZIP transcription factor
heme binding protein 2
protein phosphatase 4 regulatory subunit 2
elongator acetyltransferase complex subunit 3
interleukin 17 receptor A
butyrophilin subfamily 3 member A1
5-oxoprolinase, ATP-hydrolysing
integrin subunit alpha M
WEE1 G2 checkpoint kinase

MAX dimerization protein 3
base methyltransferase of 25S rRNA 2 homolog
myocyte enhancer factor 2C
transgelin
solute carrier family 9 member A1
niban apoptosis regulator 3
stromal interaction molecule 2
glycoprotein M6A
leukotriene A4 hydrolase
rabaptin, RAB GTPase binding effector protein 2
fucosyltransferase 11
RAD23 homolog B, nucleotide excision repair protein
metaxin 1
E2F transcription factor 5
nuclear factor of activated T cells 2 interacting protein
BLK proto-oncogene, Src family tyrosine kinase
CD82 molecule
interleukin 1 receptor type 1
carbonic anhydrase 4
ADAM metallopeptidase domain 9
HLF transcription factor, PAR bZIP family member
NLR family pyrin domain containing 12
SP140 nuclear body protein
interleukin 1 receptor associated kinase 3
secernin 1
cell division cycle associated 7
insulin like 3
solute carrier family 37 member 3
SH3 domain containing GRB2 like, endophilin B1
beta-ureidopropionase 1
peptidase inhibitor 3
ubiquitin specific peptidase 46
SH2 domain containing 2A
methyltransferase like 22
microtubule associated monooxygenase, calponin and LIM domain containing 2
cytoskeleton associated protein 4
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1A
taxilin alpha
neuropilin 1
zinc finger CCCH-type containing 12A
multiple C2 and transmembrane domain containing 1
mitogen-activated protein kinase kinase kinase 2
regulatory factor X5
adhesion G protein-coupled receptor E1
ADAM metallopeptidase domain 8
inositol polyphosphate-5-phosphatase A

proprotein convertase subtilisin/kexin type 7
collagen type V alpha 3 chain
apoptosis associated tyrosine kinase
butyrophilin subfamily 3 member A3
small glutamine rich tetratricopeptide repeat containing beta
proteoglycan 4
brain abundant membrane attached signal protein 1
GABA type A receptor associated protein like 2
myeloperoxidase
activator of transcription and developmental regulator AUTS2
glycerophosphodiester phosphodiesterase domain containing 5
DNA polymerase eta
transmembrane O-mannosyltransferase targeting cadherins 1
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
low density lipoprotein receptor class A domain containing 3
nardilysin convertase
Fc fragment of IgA receptor
heparanase
small integral membrane protein 35
glycophorin A (MNS blood group)
DENN domain containing 5B
spectrin alpha, erythrocytic 1
butyrophilin subfamily 2 member A2
basal body orientation factor 1
piezo type mechanosensitive ion channel component 1
ETS proto-oncogene 2, transcription factor
ST3 beta-galactoside alpha-2,3-sialyltransferase 4
integrin subunit alpha X
CCR4-NOT transcription complex subunit 6 like
EPH receptor A2
DNA polymerase beta
prolyl 4-hydroxylase subunit alpha 2
bisphosphoglycerate mutase
RAB31, member RAS oncogene family
fibrillin 2
slingshot protein phosphatase 1
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3
grancalcin
ubiquitin specific peptidase 32
Kruppel like factor 10
F-box and leucine rich repeat protein 5
CD58 molecule
HPS3 biogenesis of lysosomal organelles complex 2 subunit 1
perilipin 4
ATPase Na⁺/K⁺ transporting subunit beta 1
ADP-ribosylserine hydrolase

WD repeat and FYVE domain containing 3
mitogen-activated protein kinase 1
cut like homeobox 1
C-type lectin domain containing 5A
cell cycle progression 1
PDZ domain containing 8
glycerol-3-phosphate acyltransferase 3
NEDD4 binding protein 1
leucine rich single-pass membrane protein 1
Rho GTPase activating protein 17
membrane associated ring-CH-type finger 3
NEDD4 binding protein 2 like 1
SID1 transmembrane family member 1
NPC intracellular cholesterol transporter 1
spectrin beta, erythrocytic
complement C3b/C4b receptor 1 (Knops blood group)
zinc finger protein 516
desmocollin 2
dehydrogenase/reductase 7B
aldehyde dehydrogenase 2 family member
solute carrier family 49 member 4
dysferlin
cathepsin G
ribonuclease H2 subunit B
ATPase H⁺ transporting V1 subunit C1
glycophorin B (MNS blood group)
sestrin 3
SWT1 RNA endoribonuclease homolog
pipecolic acid and sarcosine oxidase
F-box protein 9
calcium voltage-gated channel auxiliary subunit beta 1
SET binding protein 1
methyltransferase like 8
adenosine deaminase
glutaminy-peptide cyclotransferase
minichromosome maintenance complex component 5
ankyrin repeat domain 34B
sodium voltage-gated channel alpha subunit 3
perilipin 5
ubiquitin associated protein 1
MAF bZIP transcription factor G
hexokinase 2
VAMP associated protein A
neutrophil cytosolic factor 2
supervillin
karyopherin subunit alpha 1

SID1 transmembrane family member 2
paired box 5
NFKB inhibitor zeta
kinesin family member 3C
maltase-glucoamylase
integrin subunit beta 7
zinc finger DHHC-type containing 24
caspase recruitment domain family member 11
RIO kinase 3
microtubule associated serine/threonine kinase family member 4
phospholipid phosphatase 5
acyl-CoA synthetase long chain family member 5
docking protein 3
ribose 5-phosphate isomerase A
EH domain binding protein 1 like 1
tubulin beta 2A class IIa
MAPK interacting serine/threonine kinase 1
DENN domain containing 5A
carbonic anhydrase 1
plasminogen activator, urokinase
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
C-type lectin domain containing 10A
apolipoprotein B mRNA editing enzyme catalytic subunit 3F
G protein-coupled receptor 68
tropomyosin 1
integrin subunit alpha 4
suppression of tumorigenicity 14
hemogen
small vasohibin binding protein
guanylate binding protein 5
ETS transcription factor ERG
leukocyte immunoglobulin like receptor A6
serpin family B member 1
solute carrier family 9 member A8
protein tyrosine phosphatase receptor type E
recombination signal binding protein for immunoglobulin kappa J region
lymphatic vessel endothelial hyaluronan receptor 1
choline phosphotransferase 1
ring finger and WD repeat domain 3
ubiquitin domain containing 1
SH3KBP1 binding protein 1
translocator protein
THO complex 5
apolipoprotein B mRNA editing enzyme catalytic subunit 3G
adipocyte plasma membrane associated protein
nuclear transcription factor, X-box binding 1

solute carrier family 25 member 44
ATPase phospholipid transporting 9A (putative)
insulin like growth factor binding protein 4
transmembrane protein 135
lamin B1
ras homolog family member Q
major histocompatibility complex, class II, DM beta
MAX interactor 1, dimerization protein
solute carrier family 25 member 22
ubiquitin conjugating enzyme E2 D1
oleoyl-ACP hydrolase
proteasome 26S subunit, non-ATPase 4
tRNA splicing endonuclease subunit 54
prepronociceptin
chromosome 16 open reading frame 70
RAB32, member RAS oncogene family
cyclin D1 binding protein 1
NUMB endocytic adaptor protein
DnaJ heat shock protein family (Hsp40) member C1
RAB27A, member RAS oncogene family
programmed cell death 4
RAR related orphan receptor A
coronin 2B
WD repeat domain 86
argonaute RISC catalytic component 2
NBPF member 26
butyrophilin subfamily 3 member A2
solute carrier family 17 member 9
STEAP4 metalloredutase
carbohydrate sulfotransferase 13
asialoglycoprotein receptor 2
Ras like without CAAX 1
sorting nexin 3
ferrochelataase
Cbl proto-oncogene B
latent transforming growth factor beta binding protein 2
cystatin F
nuclear factor I A
dystrotelin
diacylglycerol O-acyltransferase 2
ring finger protein 11
FA complementation group A
cleavage and polyadenylation specific factor 4
acid phosphatase 3
family with sequence similarity 83 member G
syndecan binding protein

granzyme B
RAP1A, member of RAS oncogene family
OTU deubiquitinase with linear linkage specificity like
valyl-tRNA synthetase 1
ribonucleotide reductase catalytic subunit M1
transcription factor EB
potassium channel modulatory factor 1
T cell leukemia/lymphoma 1A
3-ketodihydrosphingosine reductase
apolipoprotein B mRNA editing enzyme catalytic subunit 3H
vanin 2
transmembrane protein 19
heparin binding EGF like growth factor
spindlin interactor and repressor of chromatin binding
protein phosphatase 1 regulatory subunit 12A
galectin 3
aquaporin 9
macrophage erythroblast attacher, E3 ubiquitin ligase
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2
inhibin subunit beta A
RAS guanyl releasing protein 4
ornithine aminotransferase
dehydrogenase/reductase 9
hepsin
integrin subunit alpha 7
zinc finger protein 438
family with sequence similarity 214 member B
oligodendrocyte myelin glycoprotein
oxidative stress responsive kinase 1
solute carrier family 36 member 1
pecanex 1
LDL receptor related protein 6
telomere maintenance 2
zinc finger RANBP2-type containing 1
endoplasmic reticulum aminopeptidase 2
family with sequence similarity 78 member A
dynactin subunit 4
complement C3a receptor 1
serpin family G member 1
MANSC domain containing 1
bone marrow stromal cell antigen 1
ring finger protein 10
speedy/RINGO cell cycle regulator family member A
syndecan 3
phosphate cytidylyltransferase 1, choline, alpha
fibroblast growth factor receptor 1

Fc fragment of IgE receptor Ig
tripartite motif containing 26
treacle ribosome biogenesis factor 1
kallikrein 1
transmembrane protein 268
CEA cell adhesion molecule 3
deoxyribonuclease 1 like 3
NLR family apoptosis inhibitory protein
Rho guanine nucleotide exchange factor 17
carbohydrate sulfotransferase 12
fermitin family member 3
sideroflexin 5
NIMA related kinase 6
deoxynucleotidyltransferase terminal interacting protein 1
outer dense fiber of sperm tails 2
Kruppel like factor 11
YOD1 deubiquitinase
ATP binding cassette subfamily C member 3
RNA binding motif single stranded interacting protein 1
transmembrane protein 156
glutaredoxin 5
endoplasmic reticulum metalloproteinase 1
inhibin subunit beta B
clustered mitochondria homolog
retinoid X receptor alpha
zinc finger matrin-type 2
protein phosphatase 4 regulatory subunit 1
N-deacetylase and N-sulfotransferase 3
DnaJ heat shock protein family (Hsp40) member C5
cytoplasmic polyadenylation element binding protein 4
hydroxyacyl-CoA dehydrogenase
inositol polyphosphate multikinase
notch receptor 4
SRY-box transcription factor 13
uracil DNA glycosylase
ubiquitin conjugating enzyme E2 H
inosine monophosphate dehydrogenase 1
NLR family CARD domain containing 3
acyl-CoA synthetase long chain family member 1
beta-1,3-N-acetylgalactosaminyltransferase 2
CD180 molecule
PBX/knotted 1 homeobox 1
aldehyde dehydrogenase 18 family member A1
late endosomal/lysosomal adaptor, MAPK and MTOR activator 5
B9 domain containing 2
lysine acetyltransferase 2A

DAZ associated protein 1
cytochrome P450 family 2 subfamily U member 1
complement C1q A chain
retrotransposon Gag like 6
MICAL like 1
adrenomedullin
flagellum associated containing coiled-coil domains 1
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1K
Tctex1 domain containing 1
Fc fragment of IgG receptor IIa
Rho guanine nucleotide exchange factor 12
T-box transcription factor 21
nucleoporin 155
solute carrier family 6 member 6
basic leucine zipper ATF-like transcription factor 3
DnaJ heat shock protein family (Hsp40) member C6
cytochrome b5 type B
ariadne RBR E3 ubiquitin protein ligase 2
capping actin protein of muscle Z-line subunit alpha 2
laminin subunit alpha 5
cyclin F
TPD52 like 2
protein S
solute carrier family 52 member 2
cyclin J like
5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase
oxysterol binding protein like 7
protein phosphatase 1 regulatory subunit 3B
reticulon 3
KN motif and ankyrin repeat domains 2
upstream transcription factor family member 3
calcium binding protein 39
interferon induced protein with tetratricopeptide repeats 1B
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1N (putative)
transmembrane and coiled-coil domains 4
ribonuclease A family member 2
azurocidin 1
mitogen-activated protein kinase kinase 3
ankyrin 1
TGF-beta activated kinase 1 (MAP3K7) binding protein 2
PTTG1 interacting protein
chromosome 9 open reading frame 78
erythroblast membrane associated protein (Scianna blood group)
tripartite motif containing 58
phosphoglucomutase 2
regulator of G protein signaling 14

peptidoglycan recognition protein 1
prolylcarboxypeptidase
activin A receptor type 1B
solute carrier family 11 member 1
symplesin
ADP ribosylation factor like GTPase 11
zinc finger FYVE-type containing 28
Fc fragment of IgE receptor II
WW domain containing adaptor with coiled-coil
serpin family A member 1
CASP8 and FADD like apoptosis regulator
leucine zipper and EF-hand containing transmembrane protein 1
nuclear GTPase, germinal center associated
tumor protein p53 inducible protein 11
RAB3A interacting protein
sterol regulatory element binding transcription factor 1
RAS related 2
GIT ArfGAP 2
perforin 1
patatin like phospholipase domain containing 1
minichromosome maintenance complex component 3
teashirt zinc finger homeobox 3
LLGL scribble cell polarity complex component 2
apical junction component 1 homolog
protein tyrosine phosphatase receptor type S
multimerin 1
makorin ring finger protein 1
Ras and Rab interactor 3
neuregulin 1
hydroxycarboxylic acid receptor 3
actinin alpha 1
calpain 15
cyclin dependent kinase inhibitor 2D
chromosome 11 open reading frame 80
thyroid hormone receptor interactor 12
pyruvate dehydrogenase phosphatase regulatory subunit
docking protein 4
Ral GTPase activating protein catalytic subunit alpha 2
CTP synthase 1
zinc finger protein 697
AF4/FMR2 family member 3
protein tyrosine phosphatase non-receptor type 12
interleukin 10 receptor subunit alpha
DDB1 and CUL4 associated factor 12
prostaglandin I2 receptor
kinase non-catalytic C-lobe domain containing 1

solute carrier family 22 member 14
SFT2 domain containing 2
DDB1 and CUL4 associated factor 6
LLGL scribble cell polarity complex component 1
C-terminal binding protein 2
complement C1q B chain
neurofibromin 2
GLIS family zinc finger 2
zinc finger protein 254
solute carrier family 16 member 6
RAB5A, member RAS oncogene family
osteoclast associated Ig-like receptor
protein arginine methyltransferase 5
NEDD4 like E3 ubiquitin protein ligase
BRCA2 DNA repair associated
arginase 1
SRY-box transcription factor 5
Ras association domain family member 2
lipase maturation factor 2
SEC22 homolog B, vesicle trafficking protein (gene/pseudogene)
transmembrane protein 109
ezrin
solute carrier family 26 member 8
WNK lysine deficient protein kinase 1
microtubule affinity regulating kinase 3
ring finger protein 114
glycogenin 1
ubiquitin interaction motif containing 1
serpin family F member 1
chromosome 9 open reading frame 40
S100 calcium binding protein A6
pleckstrin 2
TNF receptor superfamily member 9
dual specificity phosphatase 5
lysine acetyltransferase 6A
homeodomain interacting protein kinase 1
lysyl oxidase like 1
lymphocyte activating 3
kelch like family member 5
ring finger protein 182
exostosin glycosyltransferase 2
aldehyde dehydrogenase 5 family member A1
family with sequence similarity 76 member A
kelch domain containing 8A
alpha hemoglobin stabilizing protein
tropomodulin 1

fucosyltransferase 8
PBX homeobox 1
G1 to S phase transition 1
SP140 nuclear body protein like
NOP56 ribonucleoprotein
kinesin family member 1B
NOP10 ribonucleoprotein
reticulon 4
decapping mRNA 2
transforming acidic coiled-coil containing protein 3
CD40 molecule
ubiquitin like modifier activating enzyme 7
chromosome 16 open reading frame 72
synuclein alpha
growth factor receptor bound protein 10
family with sequence similarity 111 member A
peroxisomal trans-2-enoyl-CoA reductase
hydrogen voltage gated channel 1
FA complementation group G
ribosomal RNA processing 1B
selenium binding protein 1
maestro heat like repeat family member 6
forkhead box O3
ubiquitin conjugating enzyme E2 J1
GEN1 Holliday junction 5' flap endonuclease
cullin 1
BCL2 interacting protein 3 like
pentraxin 3
zinc finger protein 317
growth arrest and DNA damage inducible alpha
nucleolar protein 3
zinc finger protein 131
amyloid beta precursor protein binding family B member 1 interacting protein
ubiquitin specific peptidase 36
metastasis associated 1
DEXH-box helicase 34
family with sequence similarity 210 member B
cleavage and polyadenylation specific factor 1
HtrA serine peptidase 3
LETM1 domain containing 1
zinc finger protein 296
SET binding factor 2
SEC62 homolog, preprotein translocation factor
apolipoprotein L1
Rh blood group CcEe antigens
zinc finger protein 281

serine incorporator 2
LIM domain kinase 2
autophagy related 7
exosome component 10
ATP synthase F1 subunit epsilon
KIAA0232
transmembrane and coiled-coil domain family 2
PX domain containing serine/threonine kinase like
opioid related nociceptin receptor 1
small integral membrane protein 3
WD repeat domain 77
ubiquitin conjugating enzyme E2 B
dishevelled segment polarity protein 2
solute carrier family 2 member 14
myotubularin related protein 3
lysine acetyltransferase 2B
deleted in primary ciliary dyskinesia homolog (mouse)
HMG-box containing 3
LDL receptor related protein associated protein 1
methyltransferase like 2B
PTEN induced kinase 1
trafficking kinesin protein 2
cell division cycle 25B
latent transforming growth factor beta binding protein 4
mitochondrial calcium uptake 1
notch receptor 2
peptidyl arginine deiminase 2
MAM domain containing glycosylphosphatidylinositol anchor 1
JAZF zinc finger 1
chondroadherin
presenilin 1
Kell metallo-endopeptidase (Kell blood group)
CXXC finger protein 5
regulator of G protein signaling 10
centrosomal protein 250
G protein subunit alpha i3
EBF transcription factor 1
zinc finger and BTB domain containing 7B
chromosome 2 open reading frame 42
autophagy related 9A
glucose-fructose oxidoreductase domain containing 2
membrane associated ring-CH-type finger 8
G protein nucleolar 1 (putative)
transmembrane protein 94
HIVEP zinc finger 1
Rh associated glycoprotein

methytransferase like 2A
homer scaffold protein 3
interleukin 7
triple QxxK/R motif containing
solute carrier family 25 member 42
SLP adaptor and CSK interacting membrane protein
defective in cullin neddylation 1 domain containing 1
ADP ribosylation factor like GTPase 4A
N-acylsphingosine amidohydrolase 1
STE20 related adaptor beta
family with sequence similarity 228 member B
HEAT repeat containing 1
Rap guanine nucleotide exchange factor like 1
zeta chain of T cell receptor associated protein kinase 70
collagen type IV alpha 3 chain
GPN-loop GTPase 2
transmembrane protein 201
ATPase phospholipid transporting 11B (putative)
damage specific DNA binding protein 2
ventricular zone expressed PH domain containing 1
homeodomain interacting protein kinase 3
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7
E2F transcription factor 3
methylocrotonoyl-CoA carboxylase 2
terminal nucleotidyltransferase 5C
KIAA1671
beaded filament structural protein 1
ADAM metallopeptidase domain 12
phosphofructokinase, platelet
catenin alpha like 1
lysosomal protein transmembrane 4 beta
golgi membrane protein 2
zinc finger DHHC-type palmitoyltransferase 2
tyrosyl-DNA phosphodiesterase 1
testis expressed metallothionein like protein
huntingtin interacting protein 1 related
solute carrier family 8 member A1
nicotinamide phosphoribosyltransferase
acyl-CoA dehydrogenase very long chain
androgen induced 1
dpy-19 like C-mannosyltransferase 3
mitogen-activated protein kinase 13
ubiquilin 4
WD repeat domain 76
phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetas
bridging integrator 1

IQ motif containing GTPase activating protein 1
chemerin chemokine-like receptor 1
KRAS proto-oncogene, GTPase
polypeptide N-acetylgalactosaminyltransferase 5
mannosidase alpha class 2A member 2
major facilitator superfamily domain containing 2B
calsyntenin 1
post-GPI attachment to proteins phospholipase 3
timeless circadian regulator
MCF.2 cell line derived transforming sequence-like 2
thrombospondin 3
G protein-coupled receptor kinase 6
synaptotagmin 11
FYN proto-oncogene, Src family tyrosine kinase
zinc finger protein 787
tensin 1
glia maturation factor gamma
IQ motif and Sec7 domain ArfGEF 1
zinc finger protein 467
major histocompatibility complex, class II, DR alpha
inner centromere protein
RAB2A, member RAS oncogene family
transmembrane protein 260
lysine demethylase 2B
proline-serine-threonine phosphatase interacting protein 1
zinc finger DHHC-type palmitoyltransferase 3
matrix metalloproteinase 25
ghrelin and obestatin prepropeptide
clathrin heavy chain like 1
phospholipase C like 2
male germ cell associated kinase
solute carrier family 4 member 1 (Diego blood group)
potassium voltage-gated channel subfamily Q member 1
solute carrier family 38 member 11
insulin like growth factor 2 mRNA binding protein 2
phosphatidylinositol specific phospholipase C X domain containing 2
negative elongation factor complex member A
novel protein
cadherin EGF LAG seven-pass G-type receptor 1
BCL2 like 1
integrator complex subunit 7
iron-sulfur cluster assembly enzyme
bromo adjacent homology domain containing 1
serine carboxypeptidase 1
mucolipin 2
follistatin like 3

golgin A7
meiosis regulator and mRNA stability factor 1
family with sequence similarity 104 member A
neurexophilin 4
G protein-coupled receptor 25
killer cell immunoglobulin like receptor, two Ig domains and long cytoplasmic tail 4
RNA polymerase I subunit B
NOP14 nucleolar protein
guanosine monophosphate reductase
cytochrome P450 family 4 subfamily F member 12
ankyrin repeat domain 9
FRAT regulator of WNT signaling pathway 2
ubiquitin specific peptidase 12
toll like receptor 1
hyaluronidase 2
ubiquitin recognition factor in ER associated degradation 1
splA/ryanodine receptor domain and SOCS box containing 1
endoplasmic reticulum aminopeptidase 1
PAXX non-homologous end joining factor
protein O-linked mannose N-acetylglucosaminyltransferase 1 (beta 1,2-)
peptidylprolyl isomerase like 2
WW domain binding protein 11
histone deacetylase 4
RALBP1 associated Eps domain containing 1
tumor susceptibility 101
potassium two pore domain channel subfamily K member 17
protein phosphatase 1 catalytic subunit beta
oligodendrocyte transcription factor 1
contactin associated protein 1
myosin light chain 6
elongin B
steroid receptor RNA activator 1
erythrocyte membrane protein band 4.2
oxysterol binding protein 2
cut like homeobox 2
TNF superfamily member 14
solute carrier family 12 member 6
activating transcription factor 7 interacting protein 2
WD repeat domain 34
oncostatin M
selenoprotein K
phosphoprotein membrane anchor with glycosphingolipid microdomains 1
FKBP prolyl isomerase 9
immediate early response 3
TAP binding protein like
ataxin 1

phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta
RAB6B, member RAS oncogene family
PHD finger protein 12
galactosidase beta 1 like 2
N-acetyltransferase domain containing 1
leucine rich repeat containing G protein-coupled receptor 6
zinc finger protein 106
GRAM domain containing 1B
methionine sulfoxide reductase A
late endosomal/lysosomal adaptor, MAPK and MTOR activator 1
nucleotide binding oligomerization domain containing 1
ankyrin repeat domain 52
family with sequence similarity 160 member A2
piwi like RNA-mediated gene silencing 4
kinesin family member 19
transcobalamin 1
epidermal growth factor
menin 1
transmembrane protein 63B
RNA binding motif protein 4B
tectonic family member 3
actin related protein 2/3 complex subunit 2
transcription factor Dp-1
acyl-CoA synthetase short chain family member 1
cathepsin E
kaptin, actin binding protein
coiled-coil domain containing 32
DNA damage induced apoptosis suppressor
iron-sulfur cluster assembly 1
sulfatase modifying factor 2
cysteine rich secretory protein 2
cyclase associated actin cytoskeleton regulatory protein 1
vav guanine nucleotide exchange factor 3
FERM domain containing 4A
testis associated actin remodelling kinase 1
coiled-coil domain containing 6
C-X-C motif chemokine receptor 5
acetylcholinesterase (Cartwright blood group)
apolipoprotein L6
fatty acid 2-hydroxylase
glutamic-oxaloacetic transaminase 2
signal transducer and activator of transcription 2
transducer of ERBB2, 2
novel protein
t-complex 11 like 2
integral membrane protein 2C

nudix hydrolase 4
UBA domain containing 1
Enah/Vasp-like
caseinolytic mitochondrial matrix peptidase chaperone subunit X
CDC like kinase 3
osteoclast stimulating factor 1
ADP ribosylation factor like GTPase 4C
DnaJ heat shock protein family (Hsp40) member A4
nuclear factor, erythroid 2
signal transducing adaptor family member 1
C-X-C motif chemokine receptor 6
insulin like growth factor 1 receptor
basic helix-loop-helix family member e41
NMDA receptor synaptonuclear signaling and neuronal migration factor
Rho associated coiled-coil containing protein kinase 1
peptidase, mitochondrial processing subunit alpha
S100 calcium binding protein P
DNA methyltransferase 1
pantothenate kinase 1
rubicon autophagy regulator
Rho guanine nucleotide exchange factor 37
ribonuclease A family member 3
toll interacting protein
decapping enzyme, scavenger
RUNX family transcription factor 3
keratin 23
COP9 signalosome subunit 7B
NLR family CARD domain containing 4
exostosin glycosyltransferase 1
torsin family 3 member A
thromboxane A2 receptor
ubiquitin conjugating enzyme E2 O
pygopus family PHD finger 2
bleomycin hydrolase
glutamate ionotropic receptor NMDA type subunit associated protein 1
DDB1 and CUL4 associated factor 7
junction adhesion molecule like
programmed cell death 1
CD5 molecule
ring finger protein 24
synaptotagmin like 2
C3 and PZP like alpha-2-macroglobulin domain containing 8
olfactory receptor family 2 subfamily W member 3
regulating synaptic membrane exocytosis 3
glucosidase II alpha subunit
ninjurin 2

N-terminal glutamine amidase 1
complement C1q C chain
interleukin 21 receptor
sphingosine-1-phosphate receptor 1
EF-hand calcium binding domain 12
eomesodermin
ATPase 13A1
hydroxyacylglutathione hydrolase
SHOC2 leucine rich repeat scaffold protein
WASP family member 2
family with sequence similarity 53 member C
hematopoietic SH2 domain containing
aquaporin 3 (Gill blood group)
protein-L-isoaspartate (D-aspartate) O-methyltransferase
discs large MAGUK scaffold protein 5
HEPACAM family member 2
optineurin
adhesion G protein-coupled receptor G3
G protein-coupled receptor 27
transmembrane protein 214
solute carrier family 1 member 3
calcium voltage-gated channel subunit alpha1 E
epithelial stromal interaction 1
RAN binding protein 10
erythrocyte membrane protein band 4.1
tetratricopeptide repeat and ankyrin repeat containing 1
phosphatidylinositol-4,5-bisphosphate 4-phosphatase 2
intermediate filament family orphan 2
major facilitator superfamily domain containing 1
copine 2
minichromosome maintenance complex component 4
carbonic anhydrase 6
vesicle transport through interaction with t-SNAREs 1B
ring finger protein 144B
synaptosome associated protein 23
dematin actin binding protein
mitochondrial calcium uniporter
interferon alpha and beta receptor subunit 1
lymphocyte antigen 6 family member E
UBX domain protein 2B
zinc finger CCCH-type containing 7B
caspase recruitment domain family member 6
NCK associated protein 5 like
spectrin alpha, non-erythrocytic 1
myosin VIIB
phosphatidylinositol-4-phosphate 5-kinase type 1 beta

serine hydroxymethyltransferase 2
TUB like protein 3
phosphatidylglycerophosphate synthase 1
ring finger protein 130
RAS like proto-oncogene B
growth arrest specific 6
polyamine oxidase
whirlin
B and T lymphocyte associated
solute carrier family 35 member F2
novel transcript
VANGL planar cell polarity protein 1
ADP ribosylation factor like GTPase 3
synaptonemal complex protein 2
heparin binding growth factor
Rho guanine nucleotide exchange factor 11
biliverdin reductase B
receptor interacting serine/threonine kinase 2
zinc finger E-box binding homeobox 1
ArfGAP with FG repeats 2
protein phosphatase 3 catalytic subunit gamma
PDZ and LIM domain 7
collagen type IV alpha 4 chain
basic leucine zipper ATF-like transcription factor 2
cytochrome p450 oxidoreductase
dysbindin domain containing 1
sphingomyelin phosphodiesterase 4
CD209 molecule
adiponectin receptor 1
syntaxin binding protein 2
ETS variant transcription factor 7
Ras suppressor protein 1
solute carrier family 27 member 6
CD55 molecule (Cromer blood group)
sorting nexin 25
TATA-box binding protein associated factor 15
nuclear factor I X
novel protein, WDFY1-AP1S3 readthrough
nuclear autoantigenic sperm protein
phosphoglucomutase 1
melanocyte inducing transcription factor
schlafen family member 5
transmembrane protein 11
jagged canonical Notch ligand 1
tetraspanin 5
BCL2 antagonist/killer 1

SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
methyl-CpG binding domain protein 2
chondroitin sulfate N-acetylgalactosaminyltransferase 2
dual specificity phosphatase 22
voltage dependent anion channel 1
siah E3 ubiquitin protein ligase 2
synapsin II
tripartite motif containing 10
nucleoporin 188
short transmembrane mitochondrial protein 1
nicotinamide nucleotide adenylyltransferase 3
complement C3b/C4b receptor 1 like
transforming growth factor beta receptor 3
ubiquitin specific peptidase like 1
solute carrier family 22 member 13
ring finger protein 4
ArfGAP with FG repeats 1
interleukin 1 beta
serine and arginine repetitive matrix 1
lysine demethylase 3B
neurocalcin delta
megakaryocyte-associated tyrosine kinase
HtrA serine peptidase 1
polypyrimidine tract binding protein 1
ER membrane protein complex subunit 3
transcription factor 19
DEAD-box helicase 56
striatin 4
R3H domain containing 4
guanylate binding protein 4
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 3
uridine phosphorylase 1
mannosidase alpha class 1B member 1
heat shock protein family A (Hsp70) member 1A
embigin
NADH:ubiquinone oxidoreductase subunit B3
ubiquitin like with PHD and ring finger domains 2
erythroferrone
Yip1 domain family member 1
apoptosis resistant E3 ubiquitin protein ligase 1
interleukin 32
eukaryotic translation initiation factor 2 alpha kinase 1
zinc finger protein 641
electron transfer flavoprotein dehydrogenase
protein O-glucosyltransferase 2
actin related protein 3

solute carrier family 8 member B1
RNA binding motif protein 38
cysteine rich hydrophobic domain 2
2-oxoglutarate and iron dependent oxygenase domain containing 1
aspartyl aminopeptidase
vav guanine nucleotide exchange factor 1
transient receptor potential cation channel subfamily M member 2
G protein-coupled receptor 146
signal recognition particle 68
CD2 molecule
isocitrate dehydrogenase (NAD(+)) 3 catalytic subunit alpha
actin related protein 8
perilipin 2
regulator of cell cycle
cytotoxic T-lymphocyte associated protein 4
structure specific recognition protein 1
fms related receptor tyrosine kinase 1
F-box protein 7
guanylate binding protein family member 6
cAMP responsive element binding protein 3 like 2
nucleolar and coiled-body phosphoprotein 1
novel protein
quiescin sulfhydryl oxidase 1
protein phosphatase 2 regulatory subunit B'alpha
non-SMC condensin II complex subunit D3
N-alpha-acetyltransferase 40, NatD catalytic subunit
dipeptidyl peptidase 9
CD8a molecule
cytochrome b5 reductase 1
envoplakin
dolichyl-phosphate N-acetylglucosaminophosphotransferase 1
chromosome 19 open reading frame 12
solute carrier family 6 member 9
nuclear receptor subfamily 6 group A member 1
latent transforming growth factor beta binding protein 1
serine protease 23
novel protein, MINDY4 and AQP1 readthrough
ubiquitin specific peptidase 7
ring finger protein 123
killer cell lectin like receptor B1
Y-box binding protein 3
interferon gamma receptor 1
L3MBTL histone methyl-lysine binding protein 2
cytochrome P450 family 46 subfamily A member 1
poly(ADP-ribose) polymerase family member 3
guanylate binding protein 1

progesterone and adiponectin receptor family member 9
TBC1 domain family member 16
cytochrome b561 family member A3
DDB1 and CUL4 associated factor 4
P2RX5-TAX1BP3 readthrough (NMD candidate)
Fc receptor like 2
scribble planar cell polarity protein
C9orf72-SMCR8 complex subunit
Spi-1 proto-oncogene
SAM domain, SH3 domain and nuclear localization signals 1
solute carrier family 16 member 5
cation channel sperm associated 1
G protein subunit alpha q
paxillin
ubiquitin conjugating enzyme E2 Q2
solute carrier family 51 subunit alpha
phosphofructokinase, liver type
SH3 binding domain protein 5 like
ArfGAP with coiled-coil, ankyrin repeat and PH domains 1
kinesin family member 13A
immunoglobulin like domain containing receptor 1
NLR family member X1
SRR1 domain containing
COP9 signalosome subunit 3
procollagen-lysine,2-oxoglutarate 5-dioxygenase 2
thioredoxin
Rab interacting lysosomal protein like 2
poly(ADP-ribose) polymerase family member 14
LRR binding FLII interacting protein 1
lymphocyte antigen 96
pleckstrin homology and FYVE domain containing 1
G protein-coupled receptor 19
interferon induced protein with tetratricopeptide repeats 3
FGFR1 oncogene partner 2
complement C3d receptor 2
actin related protein 10
lipin 1
glycerophosphodiester phosphodiesterase 1
pyruvate dehydrogenase phosphatase catalytic subunit 2
CD320 molecule
fission, mitochondrial 1
anaphase promoting complex subunit 15
phospholipase C delta 3
integrin subunit alpha 2b
mannosyl-oligosaccharide glucosidase
minichromosome maintenance complex binding protein

GDP-mannose pyrophosphorylase A
TBL1X receptor 1
SH3GL interacting endocytic adaptor 1
cellular repressor of E1A stimulated genes 1
furin, paired basic amino acid cleaving enzyme
glycine amidinotransferase
TNF receptor associated protein 1
transmembrane channel like 5
F-box protein 21
poly(ADP-ribose) polymerase family member 15
hemoglobin subunit theta 1
nucleoporin 210
G protein-coupled receptor class C group 5 member B
dimethylarginine dimethylaminohydrolase 2
follistatin like 1
minichromosome maintenance complex component 7
protein tyrosine phosphatase receptor type F
V-set and transmembrane domain containing 1
cell cycle and apoptosis regulator 2
lysine demethylase 7A
GCN1 activator of EIF2AK4
amphiphysin
sterile alpha motif domain containing 4A
keratin 1
dishevelled binding antagonist of beta catenin 1
dual specificity tyrosine phosphorylation regulated kinase 3
Rab geranylgeranyltransferase subunit alpha
NGFI-A binding protein 2
intelectin 1
abhydrolase domain containing 12, lysophospholipase
ArfGAP with coiled-coil, ankyrin repeat and PH domains 2
serine/threonine kinase 25
zinc finger protein 469
TSPY like 5
acyl-CoA oxidase 1
CD80 molecule
trimethylguanosine synthase 1
TBC1 domain family member 9
solute carrier family 2 member 8
UHRF1 binding protein 1 like
N-acetyltransferase 10
solute carrier family 4 member 3
peroxisome proliferator activated receptor gamma
G3BP stress granule assembly factor 1
novel protein
glutamine-fructose-6-phosphate transaminase 2

sulfotransferase family 1A member 1
diphthamide biosynthesis 2
MYB binding protein 1a
elastin microfibril interfacier 2
zinc finger protein 706
raftlin, lipid raft linker 1
cadherin 1
nuclear factor of activated T cells 2
zinc finger protein 532
extended synaptotagmin 1
coiled-coil domain containing 107
lysophosphatidic acid receptor 5
zinc finger family member 783
eukaryotic translation initiation factor 2 alpha kinase 3
zinc finger CCCH-type containing 12D
syntaxin binding protein 1
CD79b molecule
cilia and flagella associated protein 97
membrane associated ring-CH-type finger 5
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5
signal induced proliferation associated 1 like 3
tousled like kinase 1
RIC8 guanine nucleotide exchange factor B
carnosine dipeptidase 2
carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase
phosphogluconate dehydrogenase
ATPase phospholipid transporting 8B2
protein phosphatase 2 regulatory subunit Bbeta
collagen type IX alpha 3 chain
SIVA1 apoptosis inducing factor
cytohesin 4
patatin like phospholipase domain containing 2
BORCS8-MEF2B readthrough
small EDRK-rich factor 2
lysine demethylase 6B
membrane palmitoylated protein 7
chromosome 1 open reading frame 21
transmembrane protein 169
zinc finger DHHC-type palmitoyltransferase 21
MINDY lysine 48 deubiquitinase 1
valosin containing protein lysine methyltransferase
replication factor C subunit 1
olfactomedin like 2B
RELT TNF receptor
hypoxia up-regulated 1
SH3 domain containing ring finger 2

chromosome 1 open reading frame 174
carboxymethylenebutenolidase homolog
glycogen phosphorylase, muscle associated
lysosomal trafficking regulator
BAF chromatin remodeling complex subunit BCL7A
DnaJ heat shock protein family (Hsp40) member A2
cyclic nucleotide gated channel subunit alpha 4
mitogen-activated protein kinase kinase kinase 14
storkhead box 2
elaC ribonuclease Z 2
hexosaminidase D
CTD nuclear envelope phosphatase 1 regulatory subunit 1
synergisin gamma
claudin domain containing 2
perilipin 3
CD81 molecule
transmembrane 6 superfamily member 1
syntaxin binding protein 5
matrix metalloproteinase 9
centromere protein N
succinate dehydrogenase complex assembly factor 3
microtubule associated monooxygenase, calponin and LIM domain containing 1
growth hormone inducible transmembrane protein
MSL complex subunit 1
pitrilysin metalloproteinase 1
myosin phosphatase Rho interacting protein
RAS guanyl releasing protein 3
Ras association domain family member 1
potassium voltage-gated channel subfamily H member 2
coiled-coil and C2 domain containing 2B
non-SMC condensin II complex subunit H2
DEAH-box helicase 37
BCL3 transcription coactivator
NIPA magnesium transporter 1
pecanex 3
coenzyme Q2, polyprenyltransferase
nuclear factor, erythroid 2 like 2
integrin subunit beta 2
XIAP associated factor 1
cadherin 26
ubiquitin specific peptidase 42
BMP2 inducible kinase
syntaxin 10
ring finger protein 14
transmembrane protein 88
oxysterol binding protein like 3

fatty acyl-CoA reductase 1
yippee like 1
reticulophagy regulator family member 2
StAR related lipid transfer domain containing 7
Fc fragment of IgM receptor
capping actin protein of muscle Z-line subunit alpha 1
RAB2B, member RAS oncogene family
nuclear factor, interleukin 3 regulated
RAP1 GTPase activating protein
phosphatidylinositol glycan anchor biosynthesis class T
chromosome alignment maintaining phosphoprotein 1
nibrin
LARGE xylosyl- and glucuronyltransferase 1
proline rich 5 like
bromodomain containing 4
exocyst complex component 6
solute carrier family 24 member 3
leucine rich repeat containing 6
exportin 5
cactin, spliceosome C complex subunit
solute carrier family 23 member 2
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7
MIA SH3 domain ER export factor 2
isoleucyl-tRNA synthetase 1
cell division cycle 34, ubiquitin conjugating enzyme
Cbl proto-oncogene
lipoprotein lipase
DEAD-box helicase 27
progesterone receptor membrane component 2
novel protein, SIRPB1-SIRPD readthrough
MLLT6, PHD finger containing
HPS1 biogenesis of lysosomal organelles complex 3 subunit 1
chromosome 19 open reading frame 38
JunB proto-oncogene, AP-1 transcription factor subunit
cryptochrome circadian regulator 1
myocyte enhancer factor 2A
Rho/Rac guanine nucleotide exchange factor 2
ATP binding cassette subfamily G member 2 (Junior blood group)
neuromedin U receptor 1
neurobeachin like 2
Fas ligand
activating signal cointegrator 1 complex subunit 2
eukaryotic translation initiation factor 1B
adhesion G protein-coupled receptor G1
Rho related BTB domain containing 2
ZFP36 ring finger protein like 1

RUN domain containing 3A
INTS3 and NABP interacting protein
zinc finger DHHC-type palmitoyltransferase 14
beta-1,3-glucuronyltransferase 1
exocyst complex component 3 like 1
TIMP metalloproteinase inhibitor 2
glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase
dehydrogenase/reductase 7
centrosomal protein 78
transcriptional repressor GATA binding 1
chromodomain Y like
CDGSH iron sulfur domain 2
vimentin
tripartite motif containing 65
tudor and KH domain containing
ATPase phospholipid transporting 11A
purine nucleoside phosphorylase
BTB domain containing 11
mitochondrial ribosomal protein L10
ADP ribosylation factor like GTPase 6 interacting protein 5
UBX domain protein 6
calcium/calmodulin dependent protein kinase II gamma
aspartyl-tRNA synthetase 2, mitochondrial
splicing factor 3b subunit 3
solute carrier family 14 member 1 (Kidd blood group)
ATPase H⁺ transporting V1 subunit D
galactosidase beta 1 like 3
novel protein
fumarylacetoacetate hydrolase
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta
S-phase kinase associated protein 1
C-type lectin domain family 4 member D
taste 1 receptor member 3
adaptor related protein complex 3 subunit sigma 1
fumarylacetoacetate hydrolase domain containing 1
transforming growth factor beta regulator 4
LYN proto-oncogene, Src family tyrosine kinase
calcium/calmodulin dependent protein kinase II delta
tubulin polyglutamylase complex subunit 2
transportin 1
poly(A) binding protein cytoplasmic 4
ubiquitin specific peptidase 3
zinc finger CCCH-type containing 12C
adaptor related protein complex 2 subunit alpha 1
zinc finger SWIM-type containing 6
formiminotransferase cyclodeaminase N-terminal like

oxidative stress responsive serine rich 1
sterile alpha and TIR motif containing 1
mitofusin 2
Rab interacting lysosomal protein like 1
eukaryotic translation initiation factor 2B subunit alpha
family with sequence similarity 160 member B2
membrane associated ring-CH-type finger 6
1-acylglycerol-3-phosphate O-acyltransferase 5
CCAAT enhancer binding protein alpha
MALT1 paracaspase
solute carrier family 4 member 7
CD44 molecule (Indian blood group)
TBC1 domain family member 2
WD repeat domain 54
putative homeodomain transcription factor 1
bridging integrator 2
selectin P
tubulin gamma complex associated protein 6
nucleolar protein 6
POZ/BTB and AT hook containing zinc finger 1
poly(ADP-ribose) polymerase family member 12
jade family PHD finger 2
diacylglycerol kinase theta
VPS8 subunit of CORVET complex
polo like kinase 1
interleukin 10 receptor subunit beta
cap binding complex dependent translation initiation factor
ryanodine receptor 1
zinc finger protein 230
ERCC excision repair 3, TFIIH core complex helicase subunit
NOC2 like nucleolar associated transcriptional repressor
prostate transmembrane protein, androgen induced 1
solute carrier family 25 member 40
valyl-tRNA synthetase 2, mitochondrial
growth arrest specific 7
HECT and RLD domain containing E3 ubiquitin protein ligase 5
cell division cycle associated 4
ankyrin repeat and SOCS box containing 7
phosphodiesterase 4A
acyl-CoA thioesterase 13
hook microtubule tethering protein 2
nucleoporin 153
nucleoporin 205
protein tyrosine kinase 2 beta
outer mitochondrial membrane lipid metabolism regulator OPA3
aspartate beta-hydroxylase domain containing 2

GID complex subunit 4 homolog
TBC1 domain family member 3L
GATA binding protein 3
cell adhesion molecule 1
collagen type VI alpha 2 chain
proliferation-associated 2G4
ADAM metallopeptidase domain 10
SEC23 interacting protein
leucine rich repeat containing 2
nucleoporin 93
BRF1 RNA polymerase III transcription initiation factor subunit
coenzyme Q4
interferon induced protein 44 like
kinesin family member 22
DNA polymerase lambda
RNA polymerase II subunit D
glycophorin C (Gerbich blood group)
chromodomain helicase DNA binding protein 2
tumor protein p53 inducible protein 3
guanine monophosphate synthase
unc-51 like autophagy activating kinase 1
WW domain binding protein 4
ubiquitin conjugating enzyme E2 R2
ISG15 ubiquitin like modifier
PHD finger protein 20 like 1
Kruppel like factor 1
small integral membrane protein 1 (Vel blood group)
transmembrane protein 183A
family with sequence similarity 111 member B
aldo-keto reductase family 1 member C1
sorting nexin 16
transmembrane protein 259
solute carrier family 25 member 30
SPARC (osteonectin), cwcv and kazal like domains proteoglycan 2
T-box transcription factor 19
YEATS domain containing 2
BOP1 ribosomal biogenesis factor
B-Raf proto-oncogene, serine/threonine kinase
beta-1,4-galactosyltransferase 2
CBFA2/RUNX1 partner transcriptional co-repressor 2
BCL9 like
selenoprotein T
CRK proto-oncogene, adaptor protein
CD93 molecule
NPR3 like, GATOR1 complex subunit
acyloxyacyl hydrolase

protein tyrosine phosphatase receptor type J
threonyl-tRNA synthetase 2, mitochondrial
cytokine dependent hematopoietic cell linker
annexin A7
Mov10 RISC complex RNA helicase
chloride voltage-gated channel 7
BCL2 like 13
TATA-box binding protein associated factor 5
glycerophosphocholine phosphodiesterase 1
novel transcript
DnaJ heat shock protein family (Hsp40) member B2
SKI like proto-oncogene
ADP ribosylation factor like GTPase 8A
novel protein
ankyrin repeat and ubiquitin domain containing 1
mediator complex subunit 24
mitogen-activated protein kinase kinase kinase 10
syndecan 2
killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 2
C-type lectin domain family 1 member B
serglycin
BTB domain containing 10
UDP-N-acetylglucosamine pyrophosphorylase 1
tissue factor pathway inhibitor
TOG array regulator of axonemal microtubules 2
UDP-glucose pyrophosphorylase 2
cell division cycle 123
pyruvate kinase M1/2
EPH receptor B4
ubiquitin B
calpain 5
insulin like growth factor binding protein 2
stromal antigen 1
zinc finger protein 385D
hydroxymethylbilane synthase
thimet oligopeptidase 1
glomulin, FKBP associated protein
TAL bHLH transcription factor 1, erythroid differentiation factor
deltex E3 ubiquitin ligase 4
YY1 associated protein 1
solute carrier family 44 member 3
protein phosphatase 5 catalytic subunit
alkaline ceramidase 3
centrosomal protein 152
myosin XIX
isocitrate dehydrogenase (NADP(+)) 2

RAB3A interacting protein like 1
zinc finger protein 746
phosphatase and actin regulator 4
argonaute RISC component 4
novel protein
thymidine kinase 2
vinculin
praja ring finger ubiquitin ligase 2
solute carrier family 30 member 5
SET domain containing 1A, histone lysine methyltransferase
solute carrier family 41 member 2
antagonist of mitotic exit network 1 homolog
zinc finger DHHC-type palmitoyltransferase 23
solute carrier family 25 member 39
Rho GTPase activating protein 11A
UbiA prenyltransferase domain containing 1
caldesmon 1
prostaglandin D2 synthase
TNF receptor associated factor 3
myosin binding protein C3
solute carrier family 16 member 3
pro-platelet basic protein
novel protein
interferon related developmental regulator 1
RAB18, member RAS oncogene family
CASC3 exon junction complex subunit
fucosyltransferase 7
3-hydroxyacyl-CoA dehydratase 3
hydroxycarboxylic acid receptor 2
AKT interacting protein
anaphase promoting complex subunit 5
enhancer of zeste 2 polycomb repressive complex 2 subunit
peptidyl-tRNA hydrolase 1 homolog
transmembrane protein 229B
phosphodiesterase 4B
CKLF like MARVEL transmembrane domain containing 2
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily
atypical chemokine receptor 1 (Duffy blood group)
glutamate rich 1
carnosine synthase 1
dishevelled segment polarity protein 1
Sp1 transcription factor
TBC1 domain family member 14
cathepsin K
novel twinfilin, actin-binding protein, homolog 2 (Drosophila) (TWF2) and toll-like receptor
nuclear receptor coactivator 4

programmed cell death 11
glycerol-3-phosphate dehydrogenase 1 like
myosin light chain 12A
upstream binding protein 1
docking protein 7
replication factor C subunit 5
tetratricopeptide repeat domain 21A
small integral membrane protein 14
PITH domain containing 1
MX dynamin like GTPase 1
INO80 complex subunit E
sarcolemma associated protein
ribonuclease P and MRP subunit p25
2',3'-cyclic nucleotide 3' phosphodiesterase
TSR1 ribosome maturation factor
calpastatin
developmentally regulated GTP binding protein 2
legumain
phosphatidylinositol binding clathrin assembly protein
tripartite motif containing 8
tissue specific transplantation antigen P35B
signal induced proliferation associated 1 like 2
ubiquitin conjugating enzyme E2 D3
brain protein I3
BAG cochaperone 1
inosine triphosphatase
X-ray repair cross complementing 4
SAMM50 sorting and assembly machinery component
tet methylcytosine dioxygenase 2
coronin 1C
hexokinase 1
ring finger protein 141
basic transcription factor 3
Rho guanine nucleotide exchange factor 19
SEC14 like lipid binding 4
FtsJ RNA 2'-O-methyltransferase 3
WD repeat domain 46
mortality factor 4 like 1
LIM zinc finger domain containing 1
YTH N6-methyladenosine RNA binding protein 3
BICD cargo adaptor 2
acidic nuclear phosphoprotein 32 family member B
zinc finger AN1-type containing 5
inositol polyphosphate-5-phosphatase F
endonuclease domain containing 1
SH3 domain containing ring finger 3

schlafen family member 14
pyrin and HIN domain family member 1
VPS41 subunit of HOPS complex
sorbin and SH3 domain containing 3
killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 1
hedgehog acyltransferase
cap methyltransferase 1
Ran GTPase activating protein 1
complement C5a receptor 1
vasodilator stimulated phosphoprotein
interferon induced protein with tetratricopeptide repeats 1
zinc finger and BTB domain containing 18
N-terminal EF-hand calcium binding protein 2
mast cell immunoglobulin like receptor 1
solute carrier family 22 member 1
family with sequence similarity 71 member F2
oxysterol binding protein
transmembrane BAX inhibitor motif containing 1
solute carrier family 41 member 1
leukocyte immunoglobulin like receptor A2
tescalcin
hemoglobin subunit delta
thymocyte selection associated high mobility group box
sialic acid acetyltransferase
charged multivesicular body protein 4B
carboxylesterase 1
centrosomal protein 19
Rh blood group D antigen
SUMO1 activating enzyme subunit 1
pyridoxal kinase
zinc finger protein 496
NBPF member 14
fibronectin type III domain containing 3B
DEXH-box helicase 58
killer cell lectin like receptor D1
ADAM metalloproteinase with thrombospondin type 1 motif 3
THADA armadillo repeat containing
Rho GTPase activating protein 15
ring-box 1
fibrinogen like 2
zinc finger protein 3
tetratricopeptide repeat domain 39C
proline rich transmembrane protein 4
zinc finger AN1-type containing 3
sphingosine-1-phosphate receptor 3
SMG7 nonsense mediated mRNA decay factor

capping protein regulator and myosin 1 linker 3
Rho GTPase activating protein 18
secreted frizzled related protein 2
collagen type XXIII alpha 1 chain
SEC61 translocon subunit alpha 1
zinc finger protein 860
retinol saturase
solute carrier organic anion transporter family member 4C1
Wnt family member 10B
RNA polymerase III subunit D
natural cytotoxicity triggering receptor 3
lysine methyltransferase 5B
zinc finger protein 875
transmembrane protein 41A
dual specificity phosphatase 2
translocase of outer mitochondrial membrane 34
zinc finger DHHC-type palmitoyltransferase 18
GIT ArfGAP 1
NOP2/Sun RNA methyltransferase 3
glutathione peroxidase 3
cyclin dependent kinase 14
sphingomyelin synthase 2
WD and tetratricopeptide repeats 1
peroxiredoxin 5
nicotinamide nucleotide adenylyltransferase 1
chloride intracellular channel 3
zinc finger protein 618
deltex E3 ubiquitin ligase 3
EPH receptor A4
nuclear receptor binding factor 2
E74 like ETS transcription factor 2
ATPase phospholipid transporting 10D (putative)
AXL receptor tyrosine kinase
ring finger protein 145
F-box and WD repeat domain containing 2
sulfatase modifying factor 1
adenosine deaminase RNA specific B2 (inactive)
DSN1 component of MIS12 kinetochore complex
ATPase Na⁺/K⁺ transporting subunit beta 3
kynurenine 3-monooxygenase
TNFRSF1A associated via death domain
solute carrier family 16 member 4
importin 9
GTPase, IMAP family member 6
solute carrier family 26 member 6
DENN domain containing 2D

lamin B2
family with sequence similarity 117 member A
tetraspanin 9
TEA domain transcription factor 3
ankyrin repeat domain 33B
syntaxin binding protein 3
translocase of outer mitochondrial membrane 40
adhesion G protein-coupled receptor G5
leukocyte immunoglobulin like receptor B3
RAD23 homolog A, nucleotide excision repair protein
ADAM metallopeptidase domain 28
mal, T cell differentiation protein
cilia and flagella associated protein 77
guanylate kinase 1
capping actin protein, gelsolin like
serine incorporator 3
G protein subunit alpha 12
DIX domain containing 1
inositol 1,4,5-trisphosphate receptor type 3
ATPase family AAA domain containing 3A
cold shock domain containing E1
leukocyte immunoglobulin like receptor A5
serine/threonine kinase 3
dehydrodolichyl diphosphate synthase subunit
2'-5'-oligoadenylate synthetase 2
nuclear receptor binding SET domain protein 2
zinc finger protein 316
prostaglandin F receptor
methionyl aminopeptidase 1
cyclin dependent kinase 10
replication factor C subunit 3
MAP kinase activating death domain
cytidine deaminase
metastasis associated 1 family member 2
androgen dependent TFPI regulating protein
linker for activation of T cells family member 2
programmed cell death 10
MAX network transcriptional repressor
V-set pre-B cell surrogate light chain 3
Sp3 transcription factor
ST13 Hsp70 interacting protein
DNA ligase 3
arginase 2
DEAD-box helicase 54
cell division cycle 20
cytochrome c oxidase assembly factor heme A:farnesyltransferase COX10

serine/threonine kinase 4
importin 5
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
family with sequence similarity 43 member A
CD63 molecule
mesoderm development LRP chaperone
basal cell adhesion molecule (Lutheran blood group)
ABI family member 3
CTD small phosphatase like 2
oxysterol binding protein like 1A
ficolin 1
calcium homeostasis modulator family member 2
hemicentin 1
required for meiotic nuclear division 5 homolog A
solute carrier family 22 member 23
exportin 7
ring finger protein 175
Rho GTPase activating protein 9
ankyrin repeat domain 55
N-sulfoglucosamine sulfohydrolase
lysine demethylase 4B
ATPase Na⁺/K⁺ transporting subunit beta 2
RUN and FYVE domain containing 1
nischarin
aph-1 homolog B, gamma-secretase subunit
death effector domain containing 2
coiled-coil domain containing 69
pyrimidinergic receptor P2Y6
interferon alpha inducible protein 6
PDZK1 interacting protein 1
phosphatidylserine decarboxylase
Ras converting CAAX endopeptidase 1
pseudouridine synthase 1
glutathione S-transferase mu 3
dynactin subunit 5
lysosomal associated membrane protein family member 5
butyrophilin like 8
cornichon family AMPA receptor auxiliary protein 3
poly(A)-specific ribonuclease
BSD domain containing 1
zinc finger DHHC-type palmitoyltransferase 8
zinc finger protein 142
cell division cycle 42
F-box protein 28
coenzyme Q7, hydroxylase
fatty acid hydroxylase domain containing 2

ATPase family AAA domain containing 3B
thyroglobulin
spermatogenesis associated serine rich 2 like
solute carrier family 2 member 1
cytidine monophosphate N-acetylneuraminic acid synthetase
Wnt family member 16
platelet derived growth factor receptor beta
oxysterol binding protein like 9
chloride intracellular channel 1
ubiquitin like 5
proline and serine rich 1
angel homolog 1
DDB1 and CUL4 associated factor 16
N-myristoyltransferase 2
negative elongation factor complex member C/D
ADAM metalloproteinase domain 17
acid phosphatase 1
arrestin beta 2
kinesin family member 5C
acyl-CoA binding domain containing 6
adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 1
coiled-coil domain containing 88C
Ras protein specific guanine nucleotide releasing factor 1
sterile alpha motif domain containing 3
solute carrier family 28 member 3
mannose receptor C type 2
CD6 molecule
myelin protein zero like 1
N-acyl ethanolamine acid amidase
cytochrome P450 family 20 subfamily A member 1
nucleoporin 133
amyloid beta precursor protein binding family B member 3
apolipoprotein L4
solute carrier family 37 member 4
guanosine monophosphate reductase 2
bromodomain adjacent to zinc finger domain 1B
adhesion G protein-coupled receptor D1
growth differentiation factor 7
zinc finger protein 264
Ly1 antibody reactive
RecQ like helicase 4
shisa family member 7
ornithine decarboxylase antizyme 2
chromosome 1 open reading frame 116
fructosamine 3 kinase related protein
zinc finger DHHC-type palmitoyltransferase 7

ATP binding cassette subfamily F member 3
ring finger protein 8
DENN domain containing 4C
heparan sulfate-glucosamine 3-sulfotransferase 5
rabphilin 3A
Fas associated via death domain
myosin light chain 4
tyrosylprotein sulfotransferase 2
3-hydroxyacyl-CoA dehydratase 1
S100 calcium binding protein A11
chromosome 11 open reading frame 24
adenosylhomocysteinase
LIM homeobox 4
protein kinase cAMP-dependent type II regulatory subunit beta
PGAM family member 5, mitochondrial serine/threonine protein phosphatase
granulysin
apolipoprotein L2
collagen like tail subunit of asymmetric acetylcholinesterase
Rho guanine nucleotide exchange factor 3
uroporphyrinogen decarboxylase
nucleolar complex associated 4 homolog
small integral membrane protein 5
cytosolic iron-sulfur assembly component 1
RPA interacting protein
tryptophanyl-tRNA synthetase 1
phosphatidylinositol-5-phosphate 4-kinase type 2 alpha
NEDD4 E3 ubiquitin protein ligase
copine 5
DEAD/H-box helicase 11
transmembrane protein 86B
C-terminal binding protein 1
chromosome 1 open reading frame 216
NDC80 kinetochore complex component
EMI domain containing 1
peroxiredoxin 6
RNA binding motif protein 47
nuclear envelope integral membrane protein 1
MLLT1 super elongation complex subunit
influenza virus NS1A binding protein
p53-induced death domain protein 1
translocase of inner mitochondrial membrane 10
F-box protein 30
CXXC finger protein 1
neural cell adhesion molecule 1
DnaJ heat shock protein family (Hsp40) member C16
aminolevulinate dehydratase

DNA ligase 1
UV radiation resistance associated
solute carrier family 40 member 1
euchromatic histone lysine methyltransferase 2
solute carrier family 48 member 1
adducin 1
DEXD/H-box helicase 60
negative regulator of ubiquitin like proteins 1
glycogen synthase kinase 3 beta
hemoglobin subunit beta
mitogen-activated protein kinase 11
chromosome 9 open reading frame 153
calmin
BCL6 antisense 1
formyl peptide receptor 1
RAB6A, member RAS oncogene family
lipid droplet associated hydrolase
kelch repeat and BTB domain containing 8
purinergic receptor P2X 1
kinesin family member C1
shiftless antiviral inhibitor of ribosomal frameshifting
transmembrane protein 158 (gene/pseudogene)
protein phosphatase 3 catalytic subunit alpha
slingshot protein phosphatase 2
proprotein convertase subtilisin/kexin type 6
YTH N6-methyladenosine RNA binding protein 1
mitochondrial ribosomal protein L4
membrane spanning 4-domains A6A
mitogen-activated protein kinase 3
coactivator associated arginine methyltransferase 1
regulator of G protein signaling 6
cyclin Pas1/PHO80 domain containing 1
dCMP deaminase
Ras related GTP binding D
TBC1 domain family member 22B
dual specificity phosphatase 13
centlein
chromosome 4 open reading frame 50
ectodysplasin A receptor
pre-mRNA processing factor 31
chromosome 12 open reading frame 75
outer dense fiber of sperm tails 3B
small integral membrane protein 24
coiled-coil domain containing 167
phosphatidylcholine transfer protein
radical S-adenosyl methionine domain containing 2

DDB1 and CUL4 associated factor 10
nucleoporin 58
STT3 oligosaccharyltransferase complex catalytic subunit A
kinesin light chain 3
ERGIC and golgi 2
transport and golgi organization 2 homolog
amyloid beta precursor protein
SET domain containing 5
coronin 2A
translocator protein 2
superoxide dismutase 2
REST corepressor 1
MAF1 homolog, negative regulator of RNA polymerase III
DLC1 Rho GTPase activating protein
galactokinase 1
SDS3 homolog, SIN3A corepressor complex component
calcium voltage-gated channel auxiliary subunit alpha2delta 2
transporter 1, ATP binding cassette subfamily B member
TERF2 interacting protein
glycerophosphodiester phosphodiesterase domain containing 3
transmembrane channel like 8
ATPase H⁺ transporting V0 subunit e1
RNA binding protein with serine rich domain 1
guanylyl cyclase domain containing 1
collagen beta(1-O)galactosyltransferase 1
DEAD-box helicase 59
prolyl endopeptidase
RAB44, member RAS oncogene family
nucleoporin 43
protein phosphatase 1 regulatory subunit 3D
ferritin heavy chain 1
transmembrane protein 120B
signal transducer and activator of transcription 1
family with sequence similarity 117 member B
TBC1 domain family member 31
cathepsin O
ring finger protein 187
phosphatidylinositol-5-phosphate 4-kinase type 2 beta
DEXH-box helicase 30
UTP4 small subunit processome component
G protein subunit gamma transducin 2
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1M
N-terminal asparagine amidase
tropomyosin 3
potassium channel tetramerization domain containing 21
LRR binding FLII interacting protein 2

COP1 E3 ubiquitin ligase
T cell-interacting, activating receptor on myeloid cells 1
septin 1
p53 apoptosis effector related to PMP22
mitogen-activated protein kinase kinase 4
derlin 1
nucleoporin 160
RELT like 2
NADH:ubiquinone oxidoreductase subunit A2
interferon stimulated exonuclease gene 20
elongator acetyltransferase complex subunit 2
HPS4 biogenesis of lysosomal organelles complex 3 subunit 2
phospholipase A and acyltransferase 4
NmrA like redox sensor 1
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 1
H2A.Z variant histone 2
ATPase H⁺ transporting V0 subunit a2
ubiquitin conjugating enzyme E2 L6
ring finger protein 146
spermatogenesis associated 20
polycystin 1 like 3, transient receptor potential channel interacting
myotubularin related protein 10
glucosamine-phosphate N-acetyltransferase 1
phosphatase and actin regulator 1
scavenger receptor class B member 2
PHD and ring finger domains 1
pro-apoptotic WT1 regulator
MTSS I-BAR domain containing 1
MYB proto-oncogene like 2
H1.0 linker histone
transaldolase 1
RNA polymerase II associated protein 1
FYVE, RhoGEF and PH domain containing 2
uronyl 2-sulfotransferase
SPT20 homolog, SAGA complex component
triggering receptor expressed on myeloid cells like 2
TRIO and F-actin binding protein
carboxypeptidase Q
natural killer cell granule protein 7
von Willebrand factor C and EGF domains
intersectin 1
RAB29, member RAS oncogene family
family with sequence similarity 83 member A
fem-1 homolog C
BUD23 rRNA methyltransferase and ribosome maturation factor
novel protein

ADP ribosylation factor guanine nucleotide exchange factor 1
zinc finger protein 383
interferon induced protein with tetratricopeptide repeats 2
hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase
transmembrane 131 like
LARGE xylosyl- and glucuronyltransferase 2
leptin receptor overlapping transcript like 1
kelch repeat and BTB domain containing 7
RNA polymerase mitochondrial
autophagy related 2A
talin 1
musculin
ADP ribosylation factor like GTPase 10
WD repeat domain 55
G protein subunit alpha o1
myosin light chain 12B
KH-type splicing regulatory protein
transportin 3
interferon induced protein 44
ribosomal RNA adenine dimethylase domain containing 1
proteasome activator subunit 4
glycoprotein V platelet
selenophosphate synthetase 1
holocarboxylase synthetase
GATA zinc finger domain containing 2A
MTOR associated protein, eak-7 homolog
Src homology 2 domain containing transforming protein D
TBC1 domain family member 8
cytochrome b5 reductase 4
BAG cochaperone 6
egl-9 family hypoxia inducible factor 1
stathmin 1
DnaJ heat shock protein family (Hsp40) member B6
NME/NM23 nucleoside diphosphate kinase 4
PAX interacting protein 1
transmembrane protein 38A
CCAAT enhancer binding protein epsilon
RIPOR family member 3
ISY1-RAB43 readthrough
thioredoxin domain containing 15
methyl-CpG binding domain 4, DNA glycosylase
zyg-11 related cell cycle regulator
myosin light chain 9
THAP domain containing 4
LCK proto-oncogene, Src family tyrosine kinase
leucine carboxyl methyltransferase 1

DGCR8 microprocessor complex subunit
RecQ mediated genome instability 2
galectin 3 binding protein
solute carrier family 12 member 2
yippee like 3
integrator complex subunit 11
RNA polymerase I and III subunit D
methionine sulfoxide reductase B3
kelch domain containing 4
BCL2 interacting protein 2
clock circadian regulator
tigger transposable element derived 5
mitochondrial ribosomal protein S27
apoptosis inducing factor mitochondria associated 2
dystroglycan 1
tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2
solute carrier family 25 member 4
Kruppel like factor 3
transmembrane p24 trafficking protein family member 8
glutamate rich WD repeat containing 1
interleukin 1 receptor type 2
glutamic--pyruvic transaminase 2
mucolipin 1
lysophosphatidylcholine acyltransferase 3
CCR4-NOT transcription complex subunit 9
cortactin binding protein 2
importin 11
prostaglandin E synthase 2
DEAF1 transcription factor
F-box protein 38
signal transducing adaptor molecule
RHO family interacting cell polarization regulator 2
RUN and FYVE domain containing 3
CEBPZ opposite strand
protein O-glucosyltransferase 3
matrix metalloproteinase 19
actin binding transcription modulator
frizzled class receptor 5
sphingosine-1-phosphate receptor 5
RAB7A, member RAS oncogene family
SH3 domain binding kinase 1
death effector domain containing
prostaglandin D2 receptor
pyruvate carboxylase
salt inducible kinase 1B (putative)
dynein axonemal heavy chain 6

DDB1 and CUL4 associated factor 1
LDL receptor related protein 10
ubiquitin associated and SH3 domain containing B
peptidase inhibitor 16
BCL2 like 12
sialic acid binding Ig like lectin 1
drosha ribonuclease III
polypeptide N-acetylgalactosaminyltransferase 7
aftiphilin
potassium inwardly rectifying channel subfamily J member 2
CTD phosphatase subunit 1
quinoid dihydropteridine reductase
lipase H
baculoviral IAP repeat containing 2
multivesicular body subunit 12A
embryonic ectoderm development
terminal nucleotidyltransferase 4A
promyelocytic leukemia
neuronal cell adhesion molecule
abhydrolase domain containing 17A, depalmitoylase
leucine aminopeptidase 3
ATPase cation transporting 13A2
transmembrane protein 223
DENN domain containing 3
endoplasmic reticulum protein 29
homeobox A1
ubiquitin specific peptidase 37
serine/threonine/tyrosine kinase 1
kelch like family member 18
erythrocyte membrane protein band 4.1 like 4A
RCC1 like
cysteine rich transmembrane BMP regulator 1
phosphoribosylaminoimidazole carboxylase and phosphoribosylaminoimidazolesucc
2-phosphoxylose phosphatase 1
syntaxin 3
TLE family member 4, transcriptional corepressor
protein disulfide isomerase family A member 3
serine and arginine rich splicing factor 8
3-hydroxyacyl-CoA dehydratase 2
achaete-scute family bHLH transcription factor 2
hyaluronidase 1
very low density lipoprotein receptor
ankyrin repeat and BTB domain containing 1
coagulation factor XIII A chain
kelch domain containing 2
isovaleryl-CoA dehydrogenase

MIA SH3 domain ER export factor 3
C-type lectin domain containing 9A
vascular endothelial growth factor A
integrin subunit alpha 9
zinc finger protein 436
granzyme A
nuclear receptor coactivator 1
FKBP prolyl isomerase 8
EBP like
solute carrier family 15 member 4
RNA binding motif protein 43
crystallin gamma S
poly(A) polymerase alpha
protein kinase cAMP-activated catalytic subunit alpha
solute carrier family 66 member 2
spermatid perinuclear RNA binding protein
nucleoporin 42
armadillo repeat containing 3
purinergic receptor P2Y14
dynamin 3
zinc finger FYVE-type containing 16
pleckstrin
FA complementation group I
colony stimulating factor 1 receptor
transmembrane p24 trafficking protein 4
bromodomain and PHD finger containing 1
high mobility group nucleosomal binding domain 4
actin related protein 2/3 complex subunit 3
mitochondrial ribosomal protein S18B
Rho GDP dissociation inhibitor beta
peptidyl arginine deiminase 4
transforming growth factor alpha
long intergenic non-protein coding RNA 672
LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated
CKLF like MARVEL transmembrane domain containing 6
zinc finger protein 292
INO80 complex ATPase subunit
SH3 domain binding glutamate rich protein like 2
PPARG related coactivator 1
Y-box binding protein 1
protein tyrosine phosphatase non-receptor type 13
neurochondrin
amyloid beta precursor like protein 2
galectin 9
A-kinase anchoring protein 5
stomatin

chitinase
tripartite motif containing 14
endoplasmic reticulum oxidoreductase 1 alpha
nudE neurodevelopment protein 1 like 1
trypsin domain containing 1
protein disulfide isomerase family A member 4
kelch repeat and BTB domain containing 11
heat shock protein family A (Hsp70) member 1 like
UTP6 small subunit processome component
oncoprotein induced transcript 3
Rieske Fe-S domain containing
Abelson helper integration site 1
sorting nexin 18
DNA methyltransferase 3 alpha
huntingtin interacting protein 1
polo like kinase 4
transcription elongation factor A3
HRas proto-oncogene, GTPase
DDHD domain containing 1
interleukin 1 receptor associated kinase 2
lysophosphatidic acid receptor 1
chromosome 3 open reading frame 38
Z-DNA binding protein 1
ankyrin repeat and FYVE domain containing 1
glutamyl-tRNA synthetase 2, mitochondrial
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1G
coiled-coil domain containing 57
myeloid cell nuclear differentiation antigen
granzyme H
acylglycerol kinase
F-box protein 34
flavin adenine dinucleotide synthetase 1
proteasome 20S subunit alpha 5
ubiquitin protein ligase E3 component n-recognin 7
cathepsin B
2'-5'-oligoadenylate synthetase 3
large 60S subunit nuclear export GTPase 1
NSE1 homolog, SMC5-SMC6 complex component
H3.3 histone A
phosphatase and tensin homolog
retinol binding protein 7
phosphatidylinositol glycan anchor biosynthesis class C
Rab interacting lysosomal protein
microtubule associated protein RP/EB family member 2
speckle type BTB/POZ protein like
TBCC domain containing 1

senataxin
kinesin light chain 2
chloride intracellular channel 4
tubulin alpha 1a
NAD(P)HX dehydratase
RNA exonuclease 2
Suv3 like RNA helicase
signal peptide, CUB domain and EGF like domain containing 2
CD3e molecule
solute carrier family 2 member 6
RAB3D, member RAS oncogene family
ATP binding cassette subfamily C member 6
regulator of chromosome condensation 2
GID complex subunit 8 homolog
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 4
ATP binding cassette subfamily C member 2
nuclear cap binding protein subunit 1
hepatitis A virus cellular receptor 2
WD repeat domain, phosphoinositide interacting 1
katanin catalytic subunit A1 like 1
signal peptidase complex subunit 2
caspase 10
ornithine decarboxylase 1
zinc finger protein 791
dolichyl-phosphate mannosyltransferase subunit 2, regulatory
NBPF member 10
ribosomal protein S6 kinase A1
pleckstrin homology like domain family A member 1
small nuclear ribonucleoprotein U5 subunit 40
transmembrane protein 165
capicua transcriptional repressor
sssemaphorin 4F
protein kinase C beta
calcium voltage-gated channel subunit alpha1 D
phospholipase C eta 2
Raf-1 proto-oncogene, serine/threonine kinase
centromere protein O
papilin, proteoglycan like sulfated glycoprotein
G protein subunit gamma 11
lymphocyte antigen 9
tet methylcytosine dioxygenase 3
family with sequence similarity 177 member A1
TRAF2 and NCK interacting kinase
secretory carrier membrane protein 3
NFAT activating protein with ITAM motif 1
semenogelin 1

mitogen-activated protein kinase kinase kinase 9
staufen double-stranded RNA binding protein 1
alpha 1,3-galactosyltransferase 2
ArfGAP with GTPase domain, ankyrin repeat and PH domain 1
ring finger and CCCH-type domains 1
protein tyrosine phosphatase receptor type K
homocysteine inducible ER protein with ubiquitin like domain 1
cytosolic arginine sensor for mTORC1 subunit 2
proteasome inhibitor subunit 1
dispatched RND transporter family member 3
bone morphogenetic protein receptor type 1A
DBF4 zinc finger B
inositol polyphosphate-5-phosphatase B
testis expressed 10
kinesin family member 11
SET nuclear proto-oncogene
dishevelled associated activator of morphogenesis 1
diphthamide biosynthesis 7
espin
interferon regulatory factor 4
carnitine O-octanoyltransferase
SEC14 like lipid binding 3
killer cell lectin like receptor G1
eukaryotic translation initiation factor 2B subunit epsilon
cleavage stimulation factor subunit 2 tau variant
CDK2 associated cullin domain 1
CD3g molecule
TRAF family member associated NFkB activator
X-ray repair cross complementing 3
synoviolin 1
NADH:ubiquinone oxidoreductase core subunit V1
thyroid hormone receptor interactor 13
small integral membrane protein 27
novel protein, readthrough between OAZ1 and SPPL2B
tetratricopeptide repeat domain 22
guanylate binding protein 3
novel protein
ribosomal protein S12
C-C motif chemokine receptor 8
ribonucleotide reductase regulatory subunit M2
suppressor of cytokine signaling 7
chromobox 5
ATP citrate lyase
hemoglobin subunit mu
RFX family member 8, lacking RFX DNA binding domain
glucosylceramidase beta

TATA-box binding protein associated factor, RNA polymerase I subunit B
H2A clustered histone 20
myelin basic protein
ralA binding protein 1
GUF1 homolog, GTPase
CTD small phosphatase like
hydroxysteroid dehydrogenase like 2
paternally expressed 10
zinc finger and BTB domain containing 44
family with sequence similarity 120A opposite strand
ependymin related 1
UPF2 regulator of nonsense mediated mRNA decay
CCHC-type zinc finger nucleic acid binding protein
SEC31 homolog A, COPII coat complex component
zyxin
phosphatidylinositol-5-phosphate 4-kinase type 2 gamma
SR-related CTD associated factor 4
zinc finger protein 831
podocan
zinc finger protein 707
tripartite motif containing 46
DiGeorge syndrome critical region gene 2
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 3
DEXD-box helicase 39A
translocation associated membrane protein 2
DNA cross-link repair 1C
carbohydrate sulfotransferase 15
CD84 molecule
ATP synthase membrane subunit 6.8PL
potassium inwardly rectifying channel subfamily J member 15
partner and localizer of BRCA2
niban apoptosis regulator 2
proline rich nuclear receptor coactivator 1
armadillo repeat containing 8
galactose mutarotase
mitochondrial pyruvate carrier 2
S100 calcium binding protein A4
angiotensin I converting enzyme
aquaporin 1 (Colton blood group)
zinc finger protein 620
transglutaminase 2
platelet derived growth factor D
Rho GTPase activating protein 29
actin related protein 2/3 complex subunit 5
ATP binding cassette subfamily B member 4
stromal cell derived factor 2

pecanex 2
C-C motif chemokine ligand 2
sterile alpha motif domain containing 9 like
regulatory factor X7
alpha kinase 1
ANKH inorganic pyrophosphate transport regulator
Rac GTPase activating protein 1
FOS like 2, AP-1 transcription factor subunit
lipoic acid synthetase
NACC family member 2
activating transcription factor 3
solute carrier family 1 member 5
lysine acetyltransferase 14
autophagy related 16 like 1
G-patch domain containing 1
CD247 molecule
basigin (Ok blood group)
ADP ribosylation factor GTPase activating protein 1
cyclin and CBS domain divalent metal cation transport mediator 3
E4F transcription factor 1
schlafen family member 13
unc-5 netrin receptor A
platelet activating factor acetylhydrolase 2
cysteinyl-tRNA synthetase 1
ataxin 7 like 2
membrane associated ring-CH-type finger 2
prostaglandin E receptor 4
solute carrier family 25 member 35
uridine-cytidine kinase 1 like 1
arachidonate 15-lipoxygenase type B
fatty acid synthase
pre-mRNA processing factor 6
leucine rich repeat containing 20
galectin 9B
vitamin D receptor
centrosomal protein 164
midkine
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8
MYD88 innate immune signal transduction adaptor
SH3 domain binding protein 4
ankyrin repeat domain 23
mannosidase endo-alpha like
cytochrome c oxidase subunit 6B1
methyltransferase like 23
interleukin 1 receptor antagonist
phospholipase D1

cryptochrome circadian regulator 2
TSPY like 1
eEF1A lysine and N-terminal methyltransferase
F-box protein 10
mitochondrial ribosomal protein L19
FA complementation group M
cyclin A2
serpin family I member 2
EF-hand domain family member D2
solute carrier family 66 member 3
oxysterol binding protein like 5
zinc finger protein 592
GLI pathogenesis related 2
FGGY carbohydrate kinase domain containing
strawberry notch homolog 2
zinc finger protein 703
RFT1 homolog
torsin 1A interacting protein 2
tetratricopeptide repeat domain 38
heterogeneous nuclear ribonucleoprotein A3
golgi reassembly stacking protein 2
mediator complex subunit 15
DnaJ heat shock protein family (Hsp40) member C9
AT-rich interaction domain 3A
isoprenylcysteine carboxyl methyltransferase
cullin associated and neddylation dissociated 1
AT-rich interaction domain 4A
early growth response 3
cadherin related family member 2
ephrin A1
charged multivesicular body protein 3
Fc receptor like 6
deoxythymidylate kinase
exportin 6
UFM1 specific peptidase 2
coiled-coil domain containing 146
WASP homolog associated with actin, golgi membranes and microtubules
sideroflexin 3
zinc finger protein 319
leucine rich repeat containing 27
GAR1 ribonucleoprotein
microtubule associated protein 4
ZPR1 zinc finger
cyclin I
Fc fragment of IgG receptor IIb
heat shock protein family A (Hsp70) member 4

coagulation factor XII
protein phosphatase 1 regulatory inhibitor subunit 14B
CCM2 scaffold protein
leucine rich repeat neuronal 1
SEC24 homolog C, COPII coat complex component
deleted in azoospermia like
myosin IXA
semaphorin 3A
2'-5'-oligoadenylate synthetase like
leucine rich repeat neuronal 3
NIN1 (RPN12) binding protein 1 homolog
solute carrier family 25 member 25
sortilin related receptor 1
RNA binding motif protein 4
HSPB1 associated protein 1
glutamate ionotropic receptor NMDA type subunit 3A
ELAV like RNA binding protein 1
leptin receptor
glyceraldehyde-3-phosphate dehydrogenase
tetratricopeptide repeat domain 25
WD repeat domain 24
RAB11 family interacting protein 3
Wnt ligand secretion mediator
glutamic-oxaloacetic transaminase 1
angiopoietin 1
adenylate kinase 3
codanin 1
OTU deubiquitinase 3
nucleotide binding protein 2
ATPase H⁺ transporting V0 subunit d1
KIAA0513
BEN domain containing 7
slingshot protein phosphatase 3
RB binding protein 9, serine hydrolase
zinc finger AN1-type containing 2B
solute carrier family 30 member 4
EGF containing fibulin extracellular matrix protein 2
UDP-glucose 6-dehydrogenase
FKBP prolyl isomerase 1B
lecithin-cholesterol acyltransferase
cathepsin H
R3H domain containing 1
ring finger protein 115
cytochrome b5 reductase 3
ATPase family AAA domain containing 2
vesicle associated membrane protein 5

tRNA aspartic acid methyltransferase 1
proteasome activator subunit 2
sigma non-opioid intracellular receptor 1
ceramide transporter 1
basic leucine zipper and W2 domains 2
alpha kinase 3
bromodomain containing 7
LY6G6F-LY6G6D readthrough
G protein-coupled receptor 132
SAM and HD domain containing deoxynucleoside triphosphate triphosphohydrolase
enhancer of mRNA decapping 4
kynurenine aminotransferase 3
tetratricopeptide repeat domain 8
dihydrolipoamide S-acetyltransferase
Pim-1 proto-oncogene, serine/threonine kinase
N-acetylneuraminate synthase
tumor associated calcium signal transducer 2
zinc finger protein 710
mitogen-activated protein kinase kinase kinase 3
tectonic family member 1
zinc finger CCHC-type containing 2
N-terminal EF-hand calcium binding protein 3
transketolase
protein phosphatase 2 regulatory subunit B"gamma
sorting nexin 5
solute carrier family 6 member 12
serpin family H member 1
coenzyme Q10A
novel protein
F-box and leucine rich repeat protein 14
BCL2 related protein A1
neural EGFL like 2
solute carrier family 9 member B2
serine/threonine kinase 16
adaptor related protein complex 2 subunit mu 1
novel protein
interleukin 6 receptor
prolyl 4-hydroxylase, transmembrane
vav guanine nucleotide exchange factor 2
transmembrane protein 121B
AFG3 like matrix AAA peptidase subunit 2
tumor protein p63 regulated 1 like
spindle and kinetochore associated complex subunit 2
dedicator of cytokinesis 6
tenascin XB
pleckstrin homology domain containing O1

tetratricopeptide repeat domain 31
chromosome 9 open reading frame 85
ankyrin repeat domain 50
chromosome 12 open reading frame 49
potassium voltage-gated channel subfamily A member 2
HIV-1 Tat interactive protein 2
SLAM family member 7
5'-nucleotidase domain containing 3
gem nuclear organelle associated protein 5
protein O-mannosyltransferase 1
transforming growth factor beta regulator 1
zinc finger protein 211
coiled-coil domain containing 130
sterile alpha motif domain containing 8
regulator of G protein signaling 18
interleukin 17 receptor E
hyaluronidase 3
triggering receptor expressed on myeloid cells like 1
protein arginine methyltransferase 1
chromosome 3 open reading frame 62
tumor protein, translationally-controlled 1
ribosomal protein L7 like 1
cullin 3
dipeptidyl peptidase 7
tripartite motif containing 35
contactin associated protein family member 3B
PRKR interacting protein 1
5'-nucleotidase domain containing 4
peptidylprolyl isomerase H
mevalonate diphosphate decarboxylase
histone H3 associated protein kinase
ubiquitin A-52 residue ribosomal protein fusion product 1
DNA topoisomerase III alpha
solute carrier family 27 member 3
cystatin B
NDC1 transmembrane nucleoporin
mitochondrial rRNA methyltransferase 1
arrestin domain containing 2
colony stimulating factor 2 receptor subunit beta
solute carrier family 19 member 1
RAN binding protein 9
transmembrane protein 62
proprotein convertase subtilisin/kexin type 5
deltex E3 ubiquitin ligase 3L
tetratricopeptide repeat domain 7B
CYFIP related Rac1 interactor B

mex-3 RNA binding family member C
ubiquitin like modifier activating enzyme 3
inosine monophosphate dehydrogenase 2
leucine rich repeat and fibronectin type III domain containing 4
M-phase phosphoprotein 8
platelet derived growth factor subunit B
cache domain containing 1
tripartite motif containing 7
epithelial cell adhesion molecule
NODAL modulator 1
oligodendrocyte transcription factor 2
transferrin receptor 2
SH2B adaptor protein 1
RB1 inducible coiled-coil 1
GPRIN family member 3
CUB domain containing protein 1
transmembrane protein 97
novel protein
nuclear receptor subfamily 3 group C member 1
pyruvate dehydrogenase kinase 1
metabolism of cobalamin associated D
proteasome 26S subunit, non-ATPase 1
dolichyldiphosphatase 1
acyl-CoA synthetase family member 2
pellino E3 ubiquitin protein ligase family member 2
forkhead box M1
Scm like with four mbt domains 2
microtubule associated scaffold protein 1
UDP-glucose ceramide glucosyltransferase
signal transducer and activator of transcription 4
transcription activation suppressor family member 2
T cell activation RhoGTPase activating protein
DnaJ heat shock protein family (Hsp40) member C11
leukocyte specific transcript 1
forkhead box K2
sodium channel modifier 1
casein kinase 1 delta
single Ig and TIR domain containing
ninein
YTH N6-methyladenosine RNA binding protein 2
isochorismatase domain containing 2
small integral membrane protein 20
nuclear cap binding protein subunit 2
platelet endothelial aggregation receptor 1
small nuclear ribonucleoprotein U5 subunit 200
annexin A6

spexin hormone
HEXIM P-TEFb complex subunit 1
oligosaccharyltransferase complex subunit 4, non-catalytic
septin 4
rhotekin
erb-b2 receptor tyrosine kinase 2
actin related protein 2/3 complex subunit 5 like
RAB36, member RAS oncogene family
phenylalanyl-tRNA synthetase subunit beta
nuclear receptor coactivator 5
TNF receptor superfamily member 10c
cilia and flagella associated protein 45
interleukin 23 receptor
arachidonate 5-lipoxygenase activating protein
RB binding protein 4, chromatin remodeling factor
NOP2/Sun RNA methyltransferase 2
cytochrome c oxidase assembly factor COX18
karyopherin subunit alpha 2
activating transcription factor 6
procollagen-lysine,2-oxoglutarate 5-dioxygenase 3
transmembrane protein 59
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1
palmitoyl-protein thioesterase 1
adaptor related protein complex 3 subunit sigma 2
ATP binding cassette subfamily C member 4
thiamin pyrophosphokinase 1
PNKD metallo-beta-lactamase domain containing
Scm like with four mbt domains 1
lysine demethylase 1A
radial spoke head 14 homolog
tripartite motif containing 56
actin related protein 2
dynamin 2
testis expressed 2
CKLF like MARVEL transmembrane domain containing 4
kinase D interacting substrate 220
transmembrane and ubiquitin like domain containing 2
sphingosine-1-phosphate phosphatase 1
intercellular adhesion molecule 5
glycosyltransferase like domain containing 1
ABL proto-oncogene 1, non-receptor tyrosine kinase
PDZ domain containing 2
DIS3 like exosome 3'-5' exoribonuclease
TUB like protein 4
lymphocyte cytosolic protein 1
cell division cycle associated 8

family with sequence similarity 136 member A
phosphomevalonate kinase
transmembrane protein 120A
non-SMC condensin I complex subunit H
translocase of inner mitochondrial membrane 9
cadherin like and PC-esterase domain containing 1
solute carrier family 1 member 7
src kinase associated phosphoprotein 2
RNA polymerase II subunit C
ST3 beta-galactoside alpha-2,3-sialyltransferase 5
WBP2 N-terminal like
src kinase associated phosphoprotein 1
eukaryotic translation initiation factor 4E nuclear import factor 1
semaphorin 4B
Rho guanine nucleotide exchange factor 40
1-acylglycerol-3-phosphate O-acyltransferase 2
misato mitochondrial distribution and morphology regulator 1
growth factor receptor bound protein 2
N-alpha-acetyltransferase 35, NatC auxiliary subunit
family with sequence similarity 210 member A
kinesin family member 21A
chromosome 12 open reading frame 66
villin 1
3-hydroxyisobutyrate dehydrogenase
ORMDL sphingolipid biosynthesis regulator 3
WD repeat containing antisense to TP53
glutamyl-tRNA synthetase 1
SH3 domain and tetratricopeptide repeats 2
signaling threshold regulating transmembrane adaptor 1
ATM interactor
FAM20B glycosaminoglycan xylosylkinase
KH domain containing 1
ecotropic viral integration site 2B
fibrillin 1
TruB pseudouridine synthase family member 2
RAS guanyl releasing protein 1
poly(rC) binding protein 3
neuralized E3 ubiquitin protein ligase 4
OS9 endoplasmic reticulum lectin
septin 9
chromosome 17 open reading frame 99
vascular endothelial growth factor B
PKHD1 like 1
suppressor of cytokine signaling 3
putative homeodomain transcription factor 2
integrator complex subunit 4

FYVE and coiled-coil domain autophagy adaptor 1
TBC1 domain family member 9B
syntaxin 6
ciliogenesis associated kinase 1
killer cell lectin like receptor C1
staufen double-stranded RNA binding protein 2
ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6
DEAD-box helicase 24
anaphase promoting complex subunit 7
lysine methyltransferase 5A
DTW domain containing 1
gap junction protein beta 6
divergent protein kinase domain 1A
A-kinase anchoring protein 10
extended synaptotagmin 2
dihydropyrimidine dehydrogenase
N-acetylglucosamine-1-phosphate transferase subunit gamma
ribosomal oxygenase 1
WD repeat domain, phosphoinositide interacting 2
regulator of chromosome condensation 1
family with sequence similarity 174 member B
beta-1,4-galactosyltransferase 5
nucleoporin 85
DnaJ heat shock protein family (Hsp40) member A3
GNAS complex locus
regulator of G protein signaling 19
rabaptin, RAB GTPase binding effector protein 1
Ras association domain family member 3
zinc finger protein 266
H2A.Z variant histone 1
ankyrin repeat domain 40
ribosomal protein S6 kinase A2
G protein-coupled receptor 160
protein tyrosine phosphatase receptor type N
small nuclear ribonucleoprotein polypeptide A
OXA1L mitochondrial inner membrane protein
STEAP3 metalloreductase
marginal zone B and B1 cell specific protein
chromosome 15 open reading frame 41
DDB1 and CUL4 associated factor 17
oxysterol binding protein like 2
calcium voltage-gated channel auxiliary subunit beta 4
killer cell lectin like receptor C2
chromosome 9 open reading frame 24
endoplasmic reticulum protein 27
ADP ribosylation factor 4

intercellular adhesion molecule 1
cytidine/uridine monophosphate kinase 2
transmembrane protein 64
cyclin L2
novel protein
tripartite motif containing 47
proline, glutamate and leucine rich protein 1
solute carrier family 2 member 5
arylsulfatase G
retinoic acid receptor alpha
aldehyde dehydrogenase 16 family member A1
mitochondrial tRNA translation optimization 1
sialic acid binding Ig like lectin 5
zinc finger protein 586
beclin 1
G protein subunit alpha 15
NFKB inhibitor delta
fibulin 5
septin 11
chromosome 4 open reading frame 3
MYST/Esa1 associated factor 6
ubiquitin conjugating enzyme E2 G2
lysine demethylase 5B
shortage in chiasmata 1
tetratricopeptide repeat domain 16
myeloid associated differentiation marker
formin homology 2 domain containing 1
HIRA interacting protein 3
LYL1 basic helix-loop-helix family member
protein phosphatase 2 regulatory subunit B'beta
SET binding factor 1
DEXD-box helicase 52
SPARC (osteonectin), cwcw and kazal like domains proteoglycan 1
phosphatidylinositol 4-kinase type 2 beta
ATP binding cassette subfamily A member 3
RNA guanine-7 methyltransferase
phosphofurin acidic cluster sorting protein 2
nucleic acid binding protein 1
CD47 molecule
mitogen-activated protein kinase kinase kinase 4
C-C motif chemokine receptor 10
leucine rich melanocyte differentiation associated
BAG cochaperone 5
transforming growth factor beta receptor 1
ATP binding cassette subfamily B member 1
late endosomal/lysosomal adaptor, MAPK and MTOR activator 3

phospholipase C delta 1
cyclin dependent kinase inhibitor 2A
heparan sulfate-glucosamine 3-sulfotransferase 1
carbonic anhydrase 2
replication termination factor 2
adhesion G protein-coupled receptor E3
SET and MYND domain containing 4
kinesin family member 2C
four and a half LIM domains 2
MEFV innate immunity regulator, pyrin
sphingosine-1-phosphate receptor 4
adenylate cyclase 9
syntrophin gamma 2
major facilitator superfamily domain containing 6
GTP binding protein 4
proline rich 12
high mobility group box 2
clusterin
PWWP domain containing 3A, DNA repair factor
enolase 1
family with sequence similarity 172 member A
mitochondrial poly(A) polymerase
phosphoglucomutase 5
prostaglandin-endoperoxide synthase 1
histone deacetylase 9
tripartite motif containing 22
proline rich basic protein 1
acyl-CoA synthetase bubblegum family member 1
translational activator of cytochrome c oxidase I
granulin precursor
LDL receptor related protein 8
phosphoribosylformylglycinamide synthase
CCR4-NOT transcription complex subunit 11
interferon induced protein 35
striatin interacting protein 1
ectonucleoside triphosphate diphosphohydrolase 5 (inactive)
secreted protein acidic and cysteine rich
G protein subunit beta 2
myelin protein zero
GDP-mannose pyrophosphorylase B
growth arrest specific 2 like 1
CD151 molecule (Raph blood group)
WD repeat domain 5
TNF receptor superfamily member 8
CDP-diacylglycerol synthase 2
coiled-coil domain containing 194

ankyrin repeat domain 13D
tyrosyl-tRNA synthetase 1
E2F transcription factor 8
zinc finger FYVE-type containing 19
solute carrier family 22 member 15
PR/SET domain 1
metallothionein 1E
coiled-coil domain containing 159
TPX2 microtubule nucleation factor
E2F transcription factor 2
zinc finger protein 883
ring finger protein 170
tripartite motif containing 38
integrin subunit alpha 3
component of oligomeric golgi complex 7
PDS5 cohesin associated factor A
tudor domain containing 3
TNF alpha induced protein 6
calpain 1
DAP3 binding cell death enhancer 1
ZXD family zinc finger C
DENN domain containing 10
early growth response 2
FA complementation group F
PDZ domain containing 3
aquaporin 10
heterogeneous nuclear ribonucleoprotein R
CAP-Gly domain containing linker protein family member 4
novel protein, ZNRF2-LINC01176 readthrough
LLP homolog, long-term synaptic facilitation factor
leucine rich repeat containing 36
tubulin beta class I
methylthioribose-1-phosphate isomerase 1
protein inhibitor of activated STAT 1
mitochondrial elongation factor 1
cathepsin Z
coiled-coil domain containing 117
gonadotropin releasing hormone 1
phosphatidylinositol glycan anchor biosynthesis class H
MYB proto-oncogene, transcription factor
F-box protein 15
TRAF3 interacting protein 2
tripartite motif containing 68
mannosidase beta like
solute carrier family 20 member 2
Rap guanine nucleotide exchange factor 4

suppressor of cytokine signaling 1
cytochrome P450 family 4 subfamily F member 3
fumarylacetoacetate hydrolase domain containing 2A
chromatin licensing and DNA replication factor 1
adenylate kinase 5
serine/threonine kinase 38 like
serine peptidase inhibitor Kazal type 8 (putative)
epidermal growth factor receptor pathway substrate 15 like 1
zinc finger protein 121
ZFP64 zinc finger protein
ubiquitin conjugating enzyme E2 E3
MPL proto-oncogene, thrombopoietin receptor
TELO2 interacting protein 1
RNA polymerase III subunit A
dihydrolipoamide branched chain transacylase E2
RAB8B, member RAS oncogene family
microtubule associated protein 1 light chain 3 beta
Cdk5 and Abl enzyme substrate 2
DNA polymerase delta 2, accessory subunit
enhancer of polycomb homolog 2
protein phosphatase 2 regulatory subunit B'gamma
poly(A) binding protein interacting protein 2
transmembrane protein 134
nudix hydrolase 17
FA core complex associated protein 100
retinol dehydrogenase 10
family with sequence similarity 98 member A
RAD18 E3 ubiquitin protein ligase
UBA like domain containing 2
general transcription factor IIIC subunit 5
tripartite motif containing 9
cell cycle associated protein 1
SH3 domain containing GRB2 like 1, endophilin A2
mitochondrial fission regulator 2
APC regulator of WNT signaling pathway
intraflagellar transport 46
selenoprotein S
novel protein, TPD52-MRPS28 readthrough
kinesin family member 15
tubulin epsilon and delta complex 1
HEAT repeat containing 9
zinc finger with KRAB and SCAN domains 7
low density lipoprotein receptor class A domain containing 2
ribosomal protein L21
zinc finger with KRAB and SCAN domains 8
4-aminobutyrate aminotransferase

ECSIT signaling integrator
cold inducible RNA binding protein
adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4
STN1 subunit of CST complex
transmembrane protein 216
CDK5 regulatory subunit associated protein 2
D-2-hydroxyglutarate dehydrogenase
glycine C-acetyltransferase
BICD cargo adaptor 1
BICD family like cargo adaptor 1
insulin degrading enzyme
LSM11, U7 small nuclear RNA associated
unc-51 like autophagy activating kinase 2
desumoylating isopeptidase 2
WD repeat domain 4
myosin VI
methyltransferase like 1
nicotinamide nucleotide transhydrogenase
synthesis of cytochrome C oxidase 1
actin related protein 1B
mediator of DNA damage checkpoint 1
transmembrane protein 33
unc-51 like kinase 3
WD repeat domain 25
poly(rC) binding protein 2
protein tyrosine phosphatase receptor type C
CUGBP Elav-like family member 1
PX domain containing 1
ribosomal RNA processing 8
ligand dependent nuclear receptor corepressor like
ectonucleotide pyrophosphatase/phosphodiesterase 2
leukocyte immunoglobulin like receptor B2
jumonji domain containing 6, arginine demethylase and lysine hydroxylase
exosome component 6
RAB11A, member RAS oncogene family
tumor protein D52
formin like 2
proteasome 26S subunit, non-ATPase 11
TAO kinase 3
eukaryotic translation initiation factor 3 subunit A
ALG12 alpha-1,6-mannosyltransferase
dedicator of cytokinesis 2
hemoglobin subunit alpha 1
F-box protein 33
formin binding protein 4

gelsolin
CD200 molecule
TSC22 domain family member 4
ras homolog family member T2
seizure related 6 homolog like
protein kinase cAMP-activated catalytic subunit beta
GIPC PDZ domain containing family member 1
tetraspanin 2
heart development protein with EGF like domains 1
zinc finger FYVE-type containing 27
ribosomal RNA processing 1
rogdi atypical leucine zipper
dihydroorotate dehydrogenase (quinone)
par-3 family cell polarity regulator
mitochondrial fission factor
sialic acid binding Ig like lectin 12 (gene/pseudogene)
solute carrier family 5 member 6
apolipoprotein B receptor
methionine sulfoxide reductase B1
M-phase phosphoprotein 9
tigger transposable element derived 3
solute carrier family 7 member 11
discoidin, CUB and LCCL domain containing 1
WASH complex subunit 2A
minichromosome maintenance complex component 2
exo/endonuclease G
transmembrane protein 176A
chromosome 12 open reading frame 45
ankyrin repeat and MYND domain containing 2
TAR (HIV-1) RNA binding protein 1
F-box protein 11
Rho GTPase activating protein 30
mitogen-activated protein kinase binding protein 1
RNA exonuclease 1 homolog
KH RNA binding domain containing, signal transduction associated 2
ILK associated serine/threonine phosphatase
glycerophosphodiester phosphodiesterase domain containing 1
phosphatidylethanolamine binding protein 1
oxoeicosanoid receptor 1
HECT and RLD domain containing E3 ubiquitin protein ligase family member 6
semaphorin 3C
MYB proto-oncogene like 1
KH RNA binding domain containing, signal transduction associated 1
autophagy related 4D cysteine peptidase
chondroitin polymerizing factor
nucleolar protein 9

insulin like growth factor binding protein 3
elongation factor 1 homolog
major facilitator superfamily domain containing 4B
BLM RecQ like helicase
carnosine N-methyltransferase 1
transmembrane protein 71
carbohydrate sulfotransferase 8
Jupiter microtubule associated homolog 1
ubiquitin specific peptidase 45
tripartite motif containing 44
debranching RNA lariats 1
trans-L-3-hydroxyproline dehydratase
Kruppel like factor 12
prolyl 3-hydroxylase 1
serine/threonine kinase 39
Rac family small GTPase 1
formyl peptide receptor 2
zinc finger CCCH-type containing 18
tripartite motif containing 32
transportin 2
integrator complex subunit 6
novel transcript
actin related protein 2/3 complex subunit 1B
modulator of VRAC current 1
chromosome segregation 1 like
nuclear receptor subfamily 1 group D member 1
dehydrogenase/reductase 3
2'-5'-oligoadenylate synthetase 1
potassium voltage-gated channel subfamily A member 3
caspase 4
mitochondrial ribosomal protein S30
SPG21 abhydrolase domain containing, maspardin
WT1 associated protein
serine/threonine kinase 11
leupaxin
BEN domain containing 4
myelin regulatory factor
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
major histocompatibility complex, class I, F
zinc finger protein 57
zinc finger protein 76
small nuclear RNA activating complex polypeptide 3
chromosome transmission fidelity factor 18
checkpoint kinase 1
general transcription factor IIIC subunit 4
F-box protein 41

3-oxoacid CoA-transferase 1
cyclin dependent kinase 12
growth hormone regulated TBC protein 1
receptor transporter protein 4
tumor protein p53 inducible nuclear protein 2
3-hydroxy-3-methylglutaryl-CoA reductase
cyclin B1 interacting protein 1
chromosome 6 open reading frame 136
serrate, RNA effector molecule
coiled-coil alpha-helical rod protein 1
myotubularin related protein 12
ring finger protein 135
glycophorin E (MNS blood group)
BCL2 like 11
glutamate-ammonia ligase
synaptosome associated protein 47
contactin associated protein family member 3
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1H
testis expressed 9
SRP receptor subunit beta
CD302 molecule
sterile alpha motif domain containing 14
membrane associated ring-CH-type finger 7
megakaryocyte and platelet inhibitory receptor G6b
actin binding LIM protein family member 3
dual specificity tyrosine phosphorylation regulated kinase 2
zinc finger protein 737
coiled-coil domain containing 126
cytoskeleton associated protein 5
TraB domain containing
dystrobrevin alpha
abhydrolase domain containing 6, acylglycerol lipase
regulation of nuclear pre-mRNA domain containing 2
death associated protein kinase 2
yippee like 5
non-SMC condensin I complex subunit G
ADP ribosylation factor interacting protein 2
thymocyte selection associated
GATA zinc finger domain containing 1
kelch like family member 29
ALG8 alpha-1,3-glucosyltransferase
cyclin B1
ligand dependent nuclear receptor corepressor
bestrophin 1
ubiquilin 1
transmembrane protein 123

syntaxin 17
Rho GTPase activating protein 24
histocompatibility minor 13
PTPRF interacting protein alpha 1
tandem C2 domains, nuclear
NFKB inhibitor epsilon
C-type lectin domain containing 17A
NK3 homeobox 1
branched chain amino acid transaminase 1
proteasome 20S subunit beta 2
proteasome assembly chaperone 2
sphingomyelin synthase 1
cytoglobin
Tax1 binding protein 1
radial spoke head component 9
AT-hook DNA binding motif containing 1
QKI, KH domain containing RNA binding
EF-hand calcium binding domain 14
cystatin A
PIF1 5'-to-3' DNA helicase
Wnt family member 10A
phosphoenolpyruvate carboxykinase 2, mitochondrial
inositol hexakisphosphate kinase 2
WNK lysine deficient protein kinase 2
HPS5 biogenesis of lysosomal organelles complex 2 subunit 2
ubiquinol-cytochrome c reductase complex assembly factor 2
TATA-box binding protein associated factor, RNA polymerase I subunit C
Rho GTPase activating protein 26
DISC1 scaffold protein
leucine rich repeat containing 47
PR/SET domain 2
VAMP associated protein B and C
protein kinase C eta
RNA polymerase II associated protein 2
mitochondrial ribosomal protein L52
HAUS augmin like complex subunit 2
transient receptor potential cation channel subfamily V member 2
GSK3B interacting protein
DBF4 zinc finger
chromosome 19 open reading frame 54
zinc finger protein 689
RAB, member of RAS oncogene family like 2B
G protein-coupled receptor 171
NBR1 autophagy cargo receptor
golgi SNAP receptor complex member 1
inositol polyphosphate-5-phosphatase E

FCH and mu domain containing endocytic adaptor 2
NADH:ubiquinone oxidoreductase complex assembly factor 6
tubulin beta 4B class IVb
FLYWCH-type zinc finger 1
catalase
intraflagellar transport 52
N-alpha-acetyltransferase 15, NatA auxiliary subunit
inositol 1,4,5-trisphosphate receptor type 2
EH domain containing 1
twinfilin actin binding protein 2
polyribonucleotide nucleotidyltransferase 1
GEM interacting protein
phosphoinositide-3-kinase regulatory subunit 3
POU class 5 homeobox 1
myosin regulatory light chain interacting protein
thioesterase superfamily member 4
SH2 domain containing 3C
aarF domain containing kinase 2
AT-hook containing transcription factor 1
phosphodiesterase 5A
zinc finger protein 148
CNKSR family member 3
aldo-keto reductase family 1 member B
ACD shelterin complex subunit and telomerase recruitment factor
arginine and serine rich protein 1
isthmin 1
chromosome 8 open reading frame 33
solute carrier family 13 member 3
mitogen-activated protein kinase kinase 7
nucleolar protein with MIF4G domain 1
GTPase, IMAP family member 2
EPS8 like 2
RAB40B, member RAS oncogene family
peroxisomal biogenesis factor 26
interleukin 16
ovochymase 1
structural maintenance of chromosomes 2
KIAA2026
leucine rich repeat containing 7
CD96 molecule
kelch like family member 17
RAB19, member RAS oncogene family
diphosphoinositol pentakisphosphate kinase 1
periphilin 1
ER degradation enhancing alpha-mannosidase like protein 1
family with sequence similarity 153 member A

DEAH-box helicase 40
VENT homeobox
ATP6V1F neighbor
chromosome 3 open reading frame 20
PC-esterase domain containing 1A
NOP2/Sun RNA methyltransferase 4
leucine rich repeat containing 14
SHQ1, H/ACA ribonucleoprotein assembly factor
phospholipase A2 group XIIA
ATR serine/threonine kinase
semaphorin 3G
AUP1 lipid droplet regulating VLDL assembly factor
mitogen-activated protein kinase 7
interferon induced protein with tetratricopeptide repeats 5
lactate dehydrogenase A
IMP U3 small nucleolar ribonucleoprotein 4
derlin 3
NADH:ubiquinone oxidoreductase complex assembly factor 7
cell division cycle associated 5
F-box and leucine rich repeat protein 20
tropomyosin 4
diacylglycerol kinase epsilon
Ral GEF with PH domain and SH3 binding motif 2
CBFA2/RUNX1 partner transcriptional co-repressor 3
mediator complex subunit 13L
origin recognition complex subunit 1
nitric oxide synthase 1 adaptor protein
kalirin RhoGEF kinase
hydroxysteroid 11-beta dehydrogenase 1
stromal cell derived factor 4
high mobility group 20A
cullin 4A
complement factor H
zinc finger and SCAN domain containing 16
STAM binding protein like 1
2-aminoethanethiol dioxygenase
zinc finger protein 827
WD repeat domain 18
intersectin 2
integrator complex subunit 1
zinc finger CCHC-type containing 3
WD repeat domain 63
TAO kinase 2
DnaJ heat shock protein family (Hsp40) member C17
KAT8 regulatory NSL complex subunit 1 like
leukotriene B4 receptor

cytochrome b5 type A
serpin family B member 2
Jun proto-oncogene, AP-1 transcription factor subunit
lipoxygenase homology domains 1
cathepsin A
ELOVL fatty acid elongase 7
zinc finger DHHC-type palmitoyltransferase 16
serpin family B member 8
glutamine--fructose-6-phosphate transaminase 1
xylosyltransferase 2
calpain 12
annexin A11
phosphatase and actin regulator 2
Fc receptor like 3
GRB10 interacting GYF protein 1
presenilin 2
F-box protein 32
TATA-box binding protein like 1
zw10 kinetochore protein
islet cell autoantigen 1 like
myotubularin related protein 11
BBX high mobility group box domain containing
zinc finger protein 440
novel protein
Jrk helix-turn-helix protein
caseinolytic mitochondrial matrix peptidase chaperone subunit B
SLC2A4 regulator
zinc finger protein 740
N-acyl phosphatidylethanolamine phospholipase D
leucine rich repeat containing 56
alpha-L-iduronidase
junctional sarcoplasmic reticulum protein 1
RNA polymerase II subunit J
proline rich coiled-coil 1
ankyrin and armadillo repeat containing
quiescin sulfhydryl oxidase 2
ferritin light chain
tetratricopeptide repeat domain 39B
lamin B receptor
actin filament associated protein 1
pre-mRNA processing factor 19
glutamate ionotropic receptor delta type subunit 1
HECT domain E3 ubiquitin protein ligase 4
G-patch domain containing 11
arachidonate 12-lipoxygenase, 12S type
transmembrane immune signaling adaptor TYROBP

ER membrane protein complex subunit 1
caspase 7
H2B clustered histone 11
unc-13 homolog D
G protein subunit gamma 7
phosphotriesterase related
striated muscle enriched protein kinase
solute carrier family 22 member 16
SMAD family member 2
TEF transcription factor, PAR bZIP family member
zinc finger protein 429
tight junction protein 1
dual specificity phosphatase 7
transmembrane protein 219
triggering receptor expressed on myeloid cells 1
DNA damage inducible transcript 3
novel protein
sarcoglycan delta
spectrin repeat containing nuclear envelope family member 3
cytochrome P450 family 1 subfamily B member 1
shisa family member 8
leucine rich repeat containing 25
abhydrolase domain containing 18
capping protein regulator and myosin 1 linker 2
translocase of outer mitochondrial membrane 70
coiled-coil domain containing 102A
lysophosphatidylglycerol acyltransferase 1
SMC5-SMC6 complex localization factor 1
thioesterase superfamily member 5
VPS35 endosomal protein sorting factor like
adenosine A2b receptor
protein arginine methyltransferase 2
bromodomain adjacent to zinc finger domain 1A
SHANK associated RH domain interactor
potassium two pore domain channel subfamily K member 10
solute carrier family 39 member 9
janus kinase and microtubule interacting protein 2
small G protein signaling modulator 1
SH2 domain containing 1B
H2B clustered histone 8
FIC domain protein adenylyltransferase
clathrin heavy chain
guanylate cyclase 1 soluble subunit beta 1
dual specificity phosphatase 8
adrenoceptor beta 2
family with sequence similarity 107 member B

solute carrier family 4 member 10
transforming growth factor beta receptor associated protein 1
thioredoxin domain containing 11
assembly factor for spindle microtubules
zinc finger protein, FOG family member 1
maturin, neural progenitor differentiation regulator homolog
midnolin
glutaredoxin 3
RRN3 homolog, RNA polymerase I transcription factor
G protein-coupled receptor 55
cyclin Y
ATPase phospholipid transporting 8B4 (putative)
HIC ZBTB transcriptional repressor 2
thiosulfate sulfurtransferase like domain containing 3
mutL homolog 1
cytochrome b reductase 1
ring finger protein 121
ORAI calcium release-activated calcium modulator 2
proline and serine rich 3
solute carrier family 27 member 4
F-box protein 39
glycoprotein VI platelet
zinc finger and SCAN domain containing 9
nuclear receptor binding SET domain protein 3
EF-hand calcium binding domain 5
KIAA0100
serine hydroxymethyltransferase 1
thioredoxin interacting protein
mab-21 like 3
aldehyde dehydrogenase 1 family member B1
peptidylprolyl isomerase F
thymidylate synthetase
carbohydrate sulfotransferase 2
TATA-box binding protein
asialoglycoprotein receptor 1
forkhead box K1
ring finger protein 19B
aryl hydrocarbon receptor nuclear translocator
plectin
PRR5-ARHGAP8 readthrough
RAB11 family interacting protein 5
phosphodiesterase 6D
NADH:ubiquinone oxidoreductase complex assembly factor 1
cell division cycle 14B
zinc finger protein 318
cytosolic iron-sulfur assembly component 3

CD7 molecule
BCL2 family apoptosis regulator BOK
NLR family pyrin domain containing 6
glutaminase
KAT8 regulatory NSL complex subunit 3
adenosine deaminase 2
RuvB like AAA ATPase 1
CKLF like MARVEL transmembrane domain containing 5
potassium voltage-gated channel subfamily H member 7
A-kinase anchoring protein 1
nth like DNA glycosylase 1
queuine tRNA-ribosyltransferase accessory subunit 2
CFAP97 domain containing 2
BAI1 associated protein 3
erythrocyte membrane protein band 4.1 like 3
RAB1A, member RAS oncogene family
lysosomal associated membrane protein 3
BAG cochaperone 4
SEH1 like nucleoporin
transmembrane protein 179B
myosin IIIB
CD14 molecule
endonuclease G
lunapark, ER junction formation factor
PDZ and LIM domain 5
RAB30, member RAS oncogene family
MOB kinase activator 1B
LIM domain and actin binding 1
interferon induced transmembrane protein 2
drebrin like
zinc finger protein 217
mediator complex subunit 11
LPS responsive beige-like anchor protein
PMS1 homolog 2, mismatch repair system component
adaptor related protein complex 2 subunit beta 1
zinc finger protein 227
enoyl-CoA hydratase domain containing 2
RNA polymerase III subunit H
PR/SET domain 4
XPA binding protein 2
BUB3 mitotic checkpoint protein
ATP binding cassette subfamily D member 4
XK related 6
dephospho-CoA kinase domain containing
cyclin B2
agrin

general transcription factor IIIC subunit 2
zinc finger and BTB domain containing 5
dynein axonemal assembly factor 5
transmembrane serine protease 3
3'-phosphoadenosine 5'-phosphosulfate synthase 1
basic helix-loop-helix family member a15
F-box and leucine rich repeat protein 8
uridine-cytidine kinase 2
polycystin 2, transient receptor potential cation channel
NIMA related kinase 10
MIF4G domain containing
interleukin 31 receptor A
inositol monophosphatase 2
ETS transcription factor ELK3
ATPase H⁺ transporting V1 subunit B2
sorting nexin 13
IQ motif containing B1
carbohydrate sulfotransferase 14
phosphoribosyl transferase domain containing 1
ankyrin repeat domain 34A
aarF domain containing kinase 1
CD226 molecule
cilia and flagella associated protein 70
ubiquitin like modifier activating enzyme 2
tumor protein p53
kinesin family member 18A
coiled-coil domain containing 86
junctional adhesion molecule 3
junction mediating and regulatory protein, p53 cofactor
dispatched RND transporter family member 1
exosome component 9
WW domain binding protein 2
novel protein
vasoactive intestinal peptide receptor 2
muscle RAS oncogene homolog
transmembrane O-mannosyltransferase targeting cadherins 4
AE binding protein 1
SH2 domain containing 4A
syntaxin 7
DEAH-box helicase 36
G protein-coupled receptor 135
nuclear receptor subfamily 1 group D member 2
malic enzyme 1
HAUS augmin like complex subunit 6
aladin WD repeat nucleoporin
ankyrin repeat domain 54

adenosine deaminase RNA specific B1
apolipoprotein B mRNA editing enzyme catalytic subunit 3A
spermidine synthase
TNF receptor superfamily member 12A
radical S-adenosyl methionine domain containing 1
kelch domain containing 7B
dynein axonemal heavy chain 10
RB transcriptional corepressor like 1
CD27 molecule
sequestosome 1
FLII actin remodeling protein
polypyrimidine tract binding protein 3
transmembrane protein 209
spermine oxidase
transcriptional adaptor 2B
lipase family member N
GINS complex subunit 4
DNA methyltransferase 1 associated protein 1
phosphohistidine phosphatase 1
receptor accessory protein 3
TNF receptor superfamily member 11a
TNF alpha induced protein 3
activating signal cointegrator 1 complex subunit 3
zinc finger protein 407
serine/threonine kinase 10
sarcoglycan beta
zinc finger DHHC-type palmitoyltransferase 17
C-terminal Src kinase
post-glycosylphosphatidylinositol attachment to proteins 6
H3.3 histone B
queuine tRNA-ribosyltransferase catalytic subunit 1
junctophilin 4
DENN domain containing 2C
membrane spanning 4-domains A3
chromobox 6
catenin beta like 1
hyperpolarization activated cyclic nucleotide gated potassium and sodium channel 2
anaphase promoting complex subunit 2
karyopherin subunit alpha 3
G protein-coupled receptor 18
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1F
family with sequence similarity 217 member B
NDRG family member 3
SRY-box transcription factor 6
choline kinase alpha
trafficking protein particle complex 3 like

small ubiquitin like modifier 1
mitogen-activated protein kinase kinase 6
ankyrin repeat and IBR domain containing 1
importin 7
interferon regulatory factor 7
dynein cytoplasmic 1 heavy chain 1
stromal antigen 3
armadillo repeat containing 6
cadherin related family member 1
SPRY domain containing 4
prefoldin subunit 5
BCL2 binding component 3
phosphoglucomutase 2 like 1
transmembrane protein 92
RAD9 checkpoint clamp component A
poly(ADP-ribose) polymerase 2
protein kinase C theta
TNF superfamily member 4
karyopherin subunit alpha 4
enoyl-CoA hydratase, short chain 1
CDC42 binding protein kinase alpha
serine incorporator 1
tubulin alpha 1c
phosphoglycerate mutase 1
THO complex 7
selenoprotein F
microcephalin 1
TAM41 mitochondrial translocator assembly and maintenance homolog
PEAK family member 3
divergent protein kinase domain 1B
leucyl-tRNA synthetase 1
HSPA (Hsp70) binding protein 1
abhydrolase domain containing 13
klotho
transmembrane protein 43
protein activator of interferon induced protein kinase EIF2AK2
SLAM family member 8
mitochondrial ribosomal protein L2
RAD51 recombinase
colony stimulating factor 3 receptor
coiled-coil domain containing 84
damage specific DNA binding protein 1
MAX dimerization protein 1
cytoplasmic linker associated protein 1
anaphase promoting complex subunit 1
ubiquitin protein ligase E3 component n-recognin 1

alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase
cytoplasmic FMR1 interacting protein 2
RNA polymerase I subunit A
phosphodiesterase 12
ras homolog family member G
dihydrouridine synthase 3 like
cannabinoid receptor 2
high density lipoprotein binding protein
oxytocin receptor
eukaryotic translation initiation factor 5
VRK serine/threonine kinase 2
vacuolar protein sorting 13 homolog C
protein tyrosine phosphatase non-receptor type 9
C-X-C motif chemokine ligand 1
gliomedin
kinetochore scaffold 1
nuclear factor of activated T cells 1
complement C1s
reactive intermediate imine deaminase A homolog
basonuclin 2
mutY DNA glycosylase
nuclear casein kinase and cyclin dependent kinase substrate 1
ubiquitin related modifier 1
REC8 meiotic recombination protein
leucine zipper protein 1
telomerase associated protein 1
PTPRF interacting protein alpha 4
tumor protein p53 binding protein 2
tripartite motif containing 11
membrane associated ring-CH-type finger 9
ceramide synthase 4
ring finger protein 111
vitamin K epoxide reductase complex subunit 1 like 1
cytohesin 3
fumarate hydratase
modulator of smoothened
cutC copper transporter
LDL receptor related protein 5
DNA replication fork stabilization factor DONSON
transmembrane protein 167B
ZFP57 zinc finger protein
phosphatase domain containing paladin 1
calcium and integrin binding 1
protein arginine methyltransferase 7
mechanistic target of rapamycin kinase
poly(ADP-ribose) polymerase family member 11

family with sequence similarity 160 member B1
tripartite motif containing 62
cilia and flagella associated protein 161
alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase B
cyclin dependent kinase 4
centrosomal protein 55
parathymosin
URI1 prefoldin like chaperone
growth factor, augments liver regeneration
APC down-regulated 1
chromosome 2 open reading frame 88
glutamate-cysteine ligase catalytic subunit
WD repeat domain 45B
PHD finger protein 11
growth factor independent 1 transcriptional repressor
aarF domain containing kinase 5
SLIT-ROBO Rho GTPase activating protein 2C
calmodulin regulated spectrin associated protein 1
cyclin dependent kinase inhibitor 2B
fibroblast growth factor binding protein 2
ribosomal protein S6 kinase A4
coiled-coil domain containing 93
kelch like family member 36
tripartite motif containing 24
hemoglobin subunit alpha 2
zinc finger protein 143
Rap1 GTPase-GDP dissociation stimulator 1
SH2B adaptor protein 2
lipase maturation factor 1
prickle planar cell polarity protein 1
zinc finger protein 644
lysine methyltransferase 5C
bone morphogenetic protein 6
transmembrane O-mannosyltransferase targeting cadherins 2
HAUS augmin like complex subunit 5
novel protein
SET domain bifurcated histone lysine methyltransferase 2
recoverin
death domain containing 1
kinesin family member 5B
4-hydroxyphenylpyruvate dioxygenase
nescient helix-loop-helix 1
G protein signaling modulator 1
methionine adenosyltransferase 2A
RNA polymerase I subunit E
claudin 9

zinc finger protein 335
cell death inducing DFFA like effector b
nuclear assembly factor 1 ribonucleoprotein
FERM domain containing 4B
twist family bHLH transcription factor 2
reelin
zinc finger MYND-type containing 11
caveolae associated protein 2
coiled-coil domain containing 134
myosin IF
CDC42 effector protein 1
nuclear VCP like
tubulin beta 6 class V
ret finger protein like 2
cyclin dependent kinase inhibitor 2C
BORA aurora kinase A activator
zinc finger protein 701
kelch like family member 14
microtubule associated monooxygenase, calponin and LIM domain containing 3
chondroitin sulfate synthase 1
Ras association domain family member 7
dynein light chain LC8-type 2
ubiquitin specific peptidase 21
polycystin 1, transient receptor potential channel interacting
DNA polymerase gamma, catalytic subunit
HOP homeobox
signal peptide peptidase like 2A
integrin alpha FG-GAP repeat containing 2
ZW10 interacting kinetochore protein
exportin 1
protein kinase cAMP-dependent type I regulatory subunit beta
S-phase kinase associated protein 2
endosome associated trafficking regulator 1
SRY-box transcription factor 12
kelch like family member 26
testis associated actin remodelling kinase 2
GA binding protein transcription factor subunit beta 2
novel protein, SYNCRIP-SNX14 readthrough
H2A.X variant histone
regulator of G protein signaling 9
ADP-ribosylhydrolase like 1
membrane associated guanylate kinase, WW and PDZ domain containing 2
pleckstrin homology and RhoGEF domain containing G1
NCK associated protein 1
cap methyltransferase 2
DEAD-box helicase 51

TGFB induced factor homeobox 1
troponin I2, fast skeletal type
spleen associated tyrosine kinase
phosphatidylserine synthase 2
junctional cadherin complex regulator
solute carrier family 38 member 1
glucuronidase beta
destrin, actin depolymerizing factor
cell division cycle 23
ATPase H⁺ transporting V0 subunit b
UBX domain protein 7
WASP family member 3
glutaminy-peptide cyclotransferase like
ring finger protein 165
transmembrane protein 175
aldo-keto reductase family 1 member E2
utrophin
chromosome 2 open reading frame 76
formin binding protein 1
PWP1 homolog, endonuclease
tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase
integrin subunit beta 5
TatD DNase domain containing 3
galectin 12
novel zinc finger protein
SOS Ras/Rac guanine nucleotide exchange factor 1
dipeptidyl peptidase 4
interleukin 18
tubulin gamma complex associated protein 5
novel protein
ASXL transcriptional regulator 2
forkhead box J2
leucine zipper tumor suppressor 2
ras homolog family member F, filopodia associated
protein O-glucosyltransferase 1
TATA-box binding protein associated factor 12
TNF receptor superfamily member 14
nitric oxide associated 1
SUMO specific peptidase 5
KH and NYN domain containing
thromboxane A synthase 1
CUGBP Elav-like family member 5
notch receptor 1
ZFP36 ring finger protein
nipsnap homolog 3B
cytochrome b-245 chaperone 1

spondin 2
potassium channel tetramerization domain containing 10
dynein cytoplasmic 1 intermediate chain 1
ASPSCR1 tether for SLC2A4, UBX domain containing
thyrotropin releasing hormone degrading enzyme
zinc finger DHHC-type palmitoyltransferase 20
solute carrier family 25 member 17
glutamate-cysteine ligase modifier subunit
NAD(P)HX epimerase
nuclear FMR1 interacting protein 1
family with sequence similarity 155 member A
POM121 transmembrane nucleoporin
glyoxylate reductase 1 homolog
glycolipid transfer protein
tripartite motif containing 25
KIAA0895 like
RUN and SH3 domain containing 2
FTO alpha-ketoglutarate dependent dioxygenase
kelch like family member 25
glycoprotein Ib platelet subunit alpha
transmembrane protein 161A
transcriptional adaptor 2A
ubiquitin specific peptidase 13
unk zinc finger
enoyl-CoA delta isomerase 1
zinc finger with KRAB and SCAN domains 5
ectonucleoside triphosphate diphosphohydrolase 6
PR/SET domain 10
chromosome 7 open reading frame 31
tubulin folding cofactor D
sorting nexin family member 30
vacuolar protein sorting 45 homolog
novel protein, identical to neuroblastoma breakpoint family, member 19 NBPF19
adaptor related protein complex 3 subunit mu 1
zinc finger protein 398
programmed cell death 2
poly(A) binding protein cytoplasmic 1 like
transcription factor AP-4
DNA fragmentation factor subunit alpha
solute carrier family 8 member A3
inositol 1,4,5-trisphosphate receptor interacting protein
F-box protein 44
lymphotoxin beta
ST3 beta-galactoside alpha-2,3-sialyltransferase 6
zinc finger protein 212
helicase, lymphoid specific

granule associated Rac and RHOG effector 1
pleckstrin homology and coiled-coil domain containing D1
diacylglycerol kinase delta
WD repeat domain 74
zinc finger protein 195
eukaryotic translation initiation factor 2B subunit gamma
lipocalin 12
zinc finger protein 500
ETS proto-oncogene 1, transcription factor
teashirt zinc finger homeobox 1
novel protein, PPM1B-SLC3A1 readthrough
melanotransferrin
spire type actin nucleation factor 2
mannose-6-phosphate receptor, cation dependent
sperm equatorial segment protein 1
SUMO specific peptidase 6
baculoviral IAP repeat containing 5
isopentenyl-diphosphate delta isomerase 1
granzyme M
thioredoxin like 1
carbonic anhydrase 3
tectorin alpha
period circadian regulator 3
eukaryotic translation initiation factor 4 gamma 2
bromodomain adjacent to zinc finger domain 2B
TLE family member 1, transcriptional corepressor
phosphodiesterase 3A
BRICK1 subunit of SCAR/WAVE actin nucleating complex
SVOP like
phospholipase C gamma 2
bone morphogenetic protein 1
caveolin 1
TOG array regulator of axonemal microtubules 1
cytochrome P450 family 26 subfamily B member 1
interleukin 1 receptor associated kinase 1 binding protein 1
glutamyl-tRNA amidotransferase subunit C
phosphatidylinositol glycan anchor biosynthesis class O
FES proto-oncogene, tyrosine kinase
family with sequence similarity 219 member A
regulator of G protein signaling 2
mitochondrial ribosome recycling factor
NIMA related kinase 3
prolyl 3-hydroxylase 2
ASXL transcriptional regulator 1
centrosomal protein 131
serine/threonine kinase 32B

5'-3' exoribonuclease 1
tubulin beta 1 class VI
intercellular adhesion molecule 4 (Landsteiner-Wiener blood group)
ELOVL fatty acid elongase 4
transport and golgi organization 6 homolog
GRB2 associated binding protein 2
general transcription factor IIIC subunit 1
butyrophilin like 9
mitogen-activated protein kinase kinase kinase 6
myelin protein zero like 3
methyl-CpG binding domain protein 6
RAB, member RAS oncogene family like 6
LTO1 maturation factor of ABCE1
SPG7 matrix AAA peptidase subunit, paraplegin
hdc homolog, cell cycle regulator
transmembrane protein 104
H2A.J histone
solute carrier family 15 member 3
ERCC excision repair 1, endonuclease non-catalytic subunit
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta
Kruppel like factor 13
fibrosin like 1
component of oligomeric golgi complex 5
neurexin 2
LSM14A mRNA processing body assembly factor
solute carrier family 5 member 10
MHC class I polypeptide-related sequence B
stomatin like 2
tripartite motif containing 28
dihydrolipoamide dehydrogenase
transducin beta like 3
ADP ribosylation factor like GTPase 6 interacting protein 6
VOPP1 WW domain binding protein
acyl-CoA oxidase 3, pristanoyl
glyoxalase I
F-box protein 5
eukaryotic translation initiation factor 3 subunit C
transmembrane protein 40
protein phosphatase 2 regulatory subunit Bgamma
exosome component 2
G protein-coupled receptor 162
TRAF interacting protein
GPALPP motifs containing 1
F-box protein 31
prolyl 3-hydroxylase family member 4 (inactive)
BAF chromatin remodeling complex subunit BCL7C

phospholipid phosphatase related 2
zinc finger protein 124
heterogeneous nuclear ribonucleoprotein F
zinc finger protein 805
SPT16 homolog, facilitates chromatin remodeling subunit
transient receptor potential cation channel subfamily M member 7
MyoD family inhibitor domain containing
cytokine induced apoptosis inhibitor 1
tubulin tyrosine ligase like 3
ADP ribosylation factor 1
thyroid hormone receptor associated protein 3
DDB1 and CUL4 associated factor 4 like 1
dynein axonemal heavy chain 17
ubiquitin like domain containing CTD phosphatase 1
uridine-cytidine kinase 1
1-acylglycerol-3-phosphate O-acyltransferase 4
tight junction associated protein 1
zinc finger protein 267
clathrin light chain B
sorbitol dehydrogenase
Myb/SANT DNA binding domain containing 2
collagen type XXVI alpha 1 chain
zinc finger protein 426
ankyrin repeat and LEM domain containing 1
arylformamidase
hydroxysteroid 17-beta dehydrogenase 11
lectin, mannose binding 1
protein O-fucosyltransferase 2
membrane integral NOTCH2 associated receptor 1
abhydrolase domain containing 14B
sorting nexin family member 21
elongator acetyltransferase complex subunit 5
microsomal glutathione S-transferase 2
tonsoku like, DNA repair protein
ADP-ribosylarginine hydrolase
La ribonucleoprotein 4
RAD50 interactor 1
lipopolysaccharide induced TNF factor
zinc finger MYM-type containing 1
MIER1 transcriptional regulator
Scm polycomb group protein like 4
phosphatidylserine synthase 1
LSM4 homolog, U6 small nuclear RNA and mRNA degradation associated
voltage dependent anion channel 2
D-glutamate cyclase
NADP dependent oxidoreductase domain containing 1

suppressor of glucose, autophagy associated 1
progesterone and adiponectin receptor family member 6
EMAP like 6
inositol polyphosphate phosphatase like 1
epsin 1
desmoplakin
ADAM metalloproteinase with thrombospondin type 1 motif 1
ubiquitin conjugating enzyme E2 T
novel transcript
zinc finger protein 789
transmembrane protein 176B
biorientation of chromosomes in cell division 1 like 1
isocitrate dehydrogenase (NADP(+)) 1
PH domain and leucine rich repeat protein phosphatase 2
elongin BC and polycomb repressive complex 2 associated protein
mastermind like transcriptional coactivator 1
prothymosin alpha
cell division cycle 25C
novel protein, TAP2-HLA-DOB readthrough
hematopoietic cell-specific Lyn substrate 1
nucleoporin 210 like
A-kinase anchoring protein 11
centrosomal protein 126
signal transducer and activator of transcription 6
bromodomain PHD finger transcription factor
proteasome 20S subunit beta 9
CD28 molecule
chromodomain helicase DNA binding protein 7
novel protein
DEAD-box helicase 10
lysine rich coiled-coil 1
CD1d molecule
ATPase 13A3
nucleoporin 98 and 96 precursor
X-C motif chemokine ligand 2
splicing factor 3b subunit 6
CECR2 histone acetyl-lysine reader
protein phosphatase 6 regulatory subunit 1
bone marrow stromal cell antigen 2
myosin heavy chain 9
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 2
small integral membrane protein 10 like 1
zinc finger protein 839
MYC binding protein 2
WD repeat domain 81
dolichyl-diphosphooligosaccharide--protein glycosyltransferase non-catalytic subunit

zinc finger and SCAN domain containing 22
coiled-coil serine rich protein 1
serine protease 41
BTB domain containing 19
chromosome 16 open reading frame 87
proteasome 26S subunit, ATPase 1
GINS complex subunit 1
yippee like 4
KN motif and ankyrin repeat domains 3
BTB domain and CNC homolog 1
cytoskeleton associated protein 2
coiled-coil domain containing 28A
tripartite motif containing 5
collagen type VII alpha 1 chain
ciliary rootlet coiled-coil, rootletin
cyclin dependent kinase 2 interacting protein
contactin associated protein family member 3C
integrator complex subunit 9
protein phosphatase 2 regulatory subunit B'delta
dual specificity tyrosine phosphorylation regulated kinase 1A
pyruvate dehydrogenase phosphatase catalytic subunit 1
leucine rich repeat containing 4
proteasome 20S subunit beta 8
TATA-box binding protein associated factor 5 like
ER membrane protein complex subunit 9
signal sequence receptor subunit 3
zinc finger MYND-type containing 19
PML-RARA regulated adaptor molecule 1
novel transcript
CD3e molecule associated protein
zinc finger protein 562
KLRC4-KLRK1 readthrough
microfibril associated protein 3 like
FGF1 intracellular binding protein
nucleoside-triphosphatase, cancer-related
copine 3
prostate androgen-regulated mucin-like protein 1
zinc finger protein 528
chromosome 19 open reading frame 71
fibrosin
nucleolin
zinc finger HIT-type containing 6
cochlin
MLX interacting protein
phospholipase C gamma 1
cadherin 5

N-alpha-acetyltransferase 30, NatC catalytic subunit
abhydrolase domain containing 12B
FAD dependent oxidoreductase domain containing 2
mannosidase alpha class 1A member 1
aurora kinase B
zinc finger protein 696
kinesin family member 3A
solute carrier family 37 member 1
erbb2 interacting protein
transcription factor CP2
phosphate cytidylyltransferase 2, ethanolamine
BTB domain containing 8
methyltransferase like 16
zinc finger protein 34
zinc finger CCCH-type containing, antiviral 1 like
pleckstrin homology domain containing A5
synaptotagmin 12
minichromosome maintenance complex component 3 associated protein
chromosome 1 open reading frame 198
novel transcript
platelet activating factor acetylhydrolase 1b catalytic subunit 2
fat storage inducing transmembrane protein 2
glycogen synthase kinase 3 alpha
X-ray repair cross complementing 6
immunoglobulin lambda like polypeptide 5
p53 and DNA damage regulated 1
pentatricopeptide repeat domain 3
nuclear receptor binding protein 1
transcriptional adaptor 3
zinc finger protein 284
NOP2/Sun RNA methyltransferase 6
neurofilament light
protein phosphatase 2 scaffold subunit Abeta
potassium channel tetramerization domain containing 20
X-box binding protein 1
cysteine rich with EGF like domains 2
neurexin 3
retinal outer segment membrane protein 1
antizyme inhibitor 1
killer cell lectin like receptor F1
dual serine/threonine and tyrosine protein kinase
PMS1 homolog 1, mismatch repair system component
phosphatidylinositol glycan anchor biosynthesis class U
novel protein
hes family bHLH transcription factor 4
catenin alpha 1

alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase
actin related protein 5
X-ray repair cross complementing 5
transmembrane protein 50A
macrophage immunometabolism regulator
spermatogenesis associated serine rich 2
zinc finger protein 671
adhesion G protein-coupled receptor B2
popeye domain containing 2
cullin 7
inner membrane mitochondrial protein
transmembrane channel like 6
ribonuclease H1
ATP/GTP binding protein like 5
mitochondrial ribosomal protein L16
leucine rich repeat and Ig domain containing 3
Holliday junction recognition protein
ring finger protein, transmembrane 2
N-terminal Xaa-Pro-Lys N-methyltransferase 1
glucosylceramidase beta 2
lysozyme
striatin
ring finger protein 213
uridine phosphorylase 2
G elongation factor mitochondrial 1
FAST kinase domains 2
ubiquitin conjugating enzyme E2 D4 (putative)
LanC like 1
solute carrier family 35 member C1
mitochondrial rRNA methyltransferase 3
migration and invasion inhibitory protein
dynein axonemal assembly factor 2
ERI1 exoribonuclease family member 3
proline rich coiled-coil 2B
major facilitator superfamily domain containing 12
endomucin
ZFP82 zinc finger protein
chromosome 1 open reading frame 226
purine rich element binding protein A
polyhomeotic homolog 1
tweety family member 2
sodium voltage-gated channel alpha subunit 5
tropomodulin 3
mannosidase alpha class 2A member 1
ATP binding cassette subfamily C member 5
protein disulfide isomerase family A member 6

novel transcript
XK related 3
microtubule affinity regulating kinase 2
polycomb group ring finger 3
RANBP2-type and C3HC4-type zinc finger containing 1
ADAM metallopeptidase with thrombospondin type 1 motif 17
Parkinsonism associated deglycase
carboxypeptidase M
BRD4 interacting chromatin remodeling complex associated protein like
oviductal glycoprotein 1
enoyl-CoA hydratase 1
transmembrane protein 150A
transmembrane protein 167A
zinc finger protein 600
zinc finger and BTB domain containing 39
ATPase H⁺ transporting V1 subunit E1
BCL9 transcription coactivator
actin related protein 1A
bone morphogenetic protein 8b
interleukin 10
fasciculation and elongation protein zeta 1
integrin linked kinase
tumor protein p53 binding protein 1
nuclear receptor subfamily 4 group A member 2
receptor associated protein of the synapse
pre-mRNA processing factor 40 homolog B
5'-aminolevulinate synthase 1
cytoplasmic linker associated protein 2
transmembrane 7 superfamily member 2

NSF attachment protein gamma
anoctamin 9
NUMB like endocytic adaptor protein
cyclin dependent kinase 5 regulatory subunit 1
dipeptidyl peptidase 3
TNF receptor associated factor 1
small nuclear ribonucleoprotein polypeptide A'
mannosidase endo-alpha
capping protein inhibiting regulator of actin dynamics
SLU7 homolog, splicing factor
G protein-coupled receptor 183
URB2 ribosome biogenesis homolog
alanyl-tRNA synthetase 2, mitochondrial
core-binding factor subunit beta
ring finger protein 1
diphthamide biosynthesis 1

ataxin 7 like 3
WD repeat domain 62
chromosome 11 open reading frame 49
growth factor independent 1B transcriptional repressor
lysophospholipase 1
GTPase activating protein and VPS9 domains 1
mex-3 RNA binding family member D
cell death inducing p53 target 1
testis specific serine kinase 6
carboxypeptidase X, M14 family member 2
solute carrier family 16 member 10
tRNA phosphotransferase 1
ankyrin repeat domain 17
TARBP2 subunit of RISC loading complex
cytochrome c oxidase subunit 7A2 like
proton activated chloride channel 1
solute carrier family 27 member 2
G-patch domain containing 2
exportin 4
gasdermin B
polypeptide N-acetylgalactosaminyltransferase 1
erythrocyte membrane protein band 4.1 like 5
solute carrier family 43 member 1
pre-mRNA processing factor 4
zwilch kinetochore protein
TIAM Rac1 associated GEF 2
ubiquitin specific peptidase 10
serine palmitoyltransferase long chain base subunit 1
ubiquitin specific peptidase 18
F-box and leucine rich repeat protein 4
hematopoietically expressed homeobox
integrin subunit beta 1 binding protein 1
growth differentiation factor 11
leucine rich repeat containing 45
erythropoietin receptor
secretion associated Ras related GTPase 1A
muscleblind like splicing regulator 2
vestigial like family member 4
elongator complex protein 1
zinc finger protein 282
chromosome 15 open reading frame 40
sideroflexin 1
potassium voltage-gated channel subfamily E regulatory subunit 3
ectonucleoside triphosphate diphosphohydrolase 1
CLN8 transmembrane ER and ERGIC protein
vestigial like family member 3

docking protein 6
solute carrier family 30 member 6
ubiquitin protein ligase E3C
spectrin repeat containing nuclear envelope protein 1
target of EGR1, exonuclease
VPS52 subunit of GARP complex
GABA type A receptor associated protein like 1
aspartate rich 1
angio associated migratory cell protein
NOP53 ribosome biogenesis factor
A-kinase anchoring protein 8
brain enriched myelin associated protein 1
chromosome 1 open reading frame 159
malectin
solute carrier family 1 member 4
arginine vasopressin induced 1
tRNA methyltransferase 9B (putative)
WASP family member 1
proteasome 20S subunit beta 10
RTF1 homolog, Paf1/RNA polymerase II complex component
collagen type XVIII alpha 1 chain
G protein-coupled bile acid receptor 1
CCAAT enhancer binding protein beta
mitochondrial ribosomal protein L9
thiosulfate sulfurtransferase like domain containing 2
novel protein
leucine zipper and EF-hand containing transmembrane protein 2
tRNA splicing endonuclease subunit 15
protein kinase D2
solute carrier family 25 member 26
leucine rich repeat and fibronectin type III domain containing 1
neurofibromin 1
programmed cell death 7
solute carrier family 39 member 10
heterogeneous nuclear ribonucleoprotein A/B
zinc finger protein 28
signal peptide peptidase like 2B
Smad nuclear interacting protein 1
tRNA methyltransferase 10B
tetratricopeptide repeat domain 1
Rap guanine nucleotide exchange factor 1
telomeric repeat binding factor 1
NPL4 homolog, ubiquitin recognition factor
zinc finger protein, FOG family member 2
USP6 N-terminal like
lon peptidase 1, mitochondrial

dynein regulatory complex subunit 1
laminin subunit beta 3
sorting nexin 8
DNA cross-link repair 1A
intercellular adhesion molecule 2
galectin 1
dopamine receptor D4
cholinergic receptor nicotinic beta 4 subunit
septin 8
cytoskeleton associated protein 2 like
methyltransferase like 25
phosphatidylinositol glycan anchor biosynthesis class L
Fc fragment of IgG receptor IIIa
LDL receptor related protein 3
5'-nucleotidase domain containing 1
aldo-keto reductase family 1 member C3
otoferlin
KAT8 regulatory NSL complex subunit 2
opioid binding protein/cell adhesion molecule like
DIMIT1 rRNA methyltransferase and ribosome maturation factor
dolichol kinase
proteasome 26S subunit, non-ATPase 6
caveolin 2
transmembrane protein 65
family with sequence similarity 83 member D
intraflagellar transport 20
leucine rich pentatricopeptide repeat containing
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
zinc finger FYVE-type containing 26
family with sequence similarity 149 member B1
complement component 5a receptor 2
zinc finger MYND-type containing 15
minichromosome maintenance 10 replication initiation factor
SYF2 pre-mRNA splicing factor
nuclear factor, erythroid 2 like 3
intraflagellar transport 27
inhibitor of nuclear factor kappa B kinase subunit epsilon
solute carrier family 41 member 3
G protein signaling modulator 3
REST corepressor 3
MMS19 homolog, cytosolic iron-sulfur assembly component
MORN repeat containing 1
protein arginine methyltransferase 3
heterogeneous nuclear ribonucleoprotein A0
potassium voltage-gated channel subfamily Q member 4
pre-mRNA processing factor 18

carboxypeptidase D
mutS homolog 6
zinc finger protein 766
alkB homolog 3, alpha-ketoglutarate dependent dioxygenase
TTK protein kinase
scavenger receptor class B member 1
coiled-coil domain containing 15
tumor suppressor 2, mitochondrial calcium regulator
microtubule crosslinking factor 1
tribbles pseudokinase 1
NudC domain containing 3
heparan sulfate 2-O-sulfotransferase 1
methyltransferase like 4
cholinergic receptor nicotinic alpha 10 subunit
phosphatidylinositol transfer protein membrane associated 2
MDM2 binding protein
DnaJ heat shock protein family (Hsp40) member C4
neuronal vesicle trafficking associated 2
parathyroid hormone 2 receptor
CST telomere replication complex component 1
leucine zipper like transcription regulator 1
opsin 3
refilin B
novel protein
estrogen related receptor alpha
asparaginyl-tRNA synthetase 2, mitochondrial
bridging integrator 3
regulator of G protein signaling 3
cytochrome P450 family 27 subfamily A member 1
dachshund cadherin-related 1
phospholipase C like 1 (inactive)
splanchnin/ryanodine receptor domain and SOCS box containing 3
POU class 6 homeobox 2
fatty acid desaturase 1
protein kinase N3
mitogen-activated protein kinase 8 interacting protein 1
cation channel sperm associated auxiliary subunit beta
PBX homeobox 2
integrator complex subunit 14
T cell immunoreceptor with Ig and ITIM domains
tetrapeptide repeat domain 19
Rho GTPase activating protein 35
solute carrier family 25 member 19
zinc finger protein 329
rhomboid domain containing 3
eva-1 homolog C

aryl hydrocarbon receptor nuclear translocator like
SFI1 centrin binding protein
protein tyrosine phosphatase non-receptor type 7
mitochondrial inner membrane protein MPV17
tRNA methyltransferase 2 homolog A
cyclin dependent kinase 1
autophagy related 4C cysteine peptidase
5',3'-nucleotidase, mitochondrial
terminal nucleotidyltransferase 5A
FH2 domain containing 1
cysteine and tyrosine rich 1
mitochondrial ribosomal protein L49
mastermind like transcriptional coactivator 3
integrin subunit beta 3 binding protein
component of oligomeric golgi complex 2
schlafen family member 11
solute carrier family 44 member 2
phosphoethanolamine/phosphocholine phosphatase 1
FYVE, RhoGEF and PH domain containing 4
oxysterol binding protein like 11
SEC14 like lipid binding 5
metabolism of cobalamin associated C
component of oligomeric golgi complex 1
ISL LIM homeobox 2
inflammation and lipid regulator with UBA-like and NBR1-like domains
protein phosphatase 1 regulatory subunit 10
Bardet-Biedl syndrome 4
heat shock protein family A (Hsp70) member 9
SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subfami
Rho guanine nucleotide exchange factor 39
transmembrane protein 181
solute carrier family 36 member 4
hydroxylysine kinase
G protein subunit alpha i1
Fc fragment of IgE receptor Ia
RWD domain containing 2B
FA complementation group L
oocyte secreted protein family member 3
programmed cell death 5
EPH receptor A1
homeobox B7
cerebellin 3 precursor
interferon induced with helicase C domain 1
fibroblast growth factor binding protein 3
splicing factor 3a subunit 2
HEAT repeat containing 5B

hexosaminidase subunit beta
B9 domain containing 1
interleukin 7 receptor
complement C5
OTU deubiquitinase 1
phenylalanyl-tRNA synthetase subunit alpha
endothelial PAS domain protein 1
zinc finger protein 684
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2
rotatin
BCL2 like 15
OTU deubiquitinase 4
Wnt family member 7A
DnaJ heat shock protein family (Hsp40) member C30
uridine monophosphate synthetase
allograft inflammatory factor 1
death associated protein
zinc finger protein 786
TLE family member 2, transcriptional corepressor
phospholipase A2 group VII
zinc finger DHHC-type containing 11B
NADH:ubiquinone oxidoreductase subunit B1
lysophosphatidic acid receptor 2
zinc and ring finger 3
solute carrier family 17 member 5
small VCP interacting protein
chromosome 16 open reading frame 74
procollagen C-endopeptidase enhancer
neurensin 2
VPS54 subunit of GARP complex
transmembrane and coiled-coil domain family 3
Sp4 transcription factor
rhomboid domain containing 1
cell division cycle associated 7 like
armadillo repeat containing 5
calcineurin like EF-hand protein 1
indoleamine 2,3-dioxygenase 2
solute carrier family 39 member 8
TATA-box binding protein associated factor 3
zinc binding alcohol dehydrogenase domain containing 2
leucine rich repeat containing 69
minichromosome maintenance complex component 6
solute carrier family 12 member 4
large tumor suppressor kinase 2
Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4
WD repeat domain 33

microtubule associated protein RP/EB family member 3
pleckstrin homology domain containing A8
acyl-CoA binding domain containing 5
translocase of inner mitochondrial membrane 44
uncoupling protein 3
phosphatidylinositol-4,5-bisphosphate 4-phosphatase 1
cyclin T1
neurogranin
phosphoinositide-3-kinase regulatory subunit 4
pannexin 2
FKBP prolyl isomerase 15
toll like receptor 2
unc-13 homolog C
H2B clustered histone 21
leucine rich repeat containing 41
calponin 2
GRB2 related adaptor protein
junction plakoglobin
protocadherin 1
SLIT-ROBO Rho GTPase activating protein 3
CBY1 interacting BAR domain containing 1
serum response factor binding protein 1
EF-hand domain family member D1
cell growth regulator with ring finger domain 1
phospholipase A2 group VI
tetratricopeptide repeat domain 17
Meis homeobox 2
pseudouridine synthase 7
semaphorin 4C
cytochrome c oxidase copper chaperone COX11
ubiquitin conjugating enzyme E2 Z
translocase of outer mitochondrial membrane 40 like
siaH E3 ubiquitin protein ligase 1
proliferating cell nuclear antigen
oxidative stress induced growth inhibitor family member 2
ubiquitin specific peptidase 24
synaptotagmin binding cytoplasmic RNA interacting protein
zinc finger protein 561
protein arginine methyltransferase 6
breast carcinoma amplified sequence 4
fragile histidine triad diadenosine triphosphatase
cystinosin, lysosomal cystine transporter
polycomb group ring finger 5
2-oxoglutarate and iron dependent oxygenase domain containing 3
transforming growth factor beta 1 induced transcript 1
synaptic Ras GTPase activating protein 1

ubiquitin specific peptidase 4
CEA cell adhesion molecule 21
ciliary rootlet coiled-coil, rootletin family member 2
PBX homeobox interacting protein 1
frizzled class receptor 1
NIMA related kinase 2
calcium release activated channel regulator 2B
poly(rC) binding protein 4
enolase superfamily member 1
Rho related BTB domain containing 1
zinc finger and BTB domain containing 40
diphthamide biosynthesis 3
mannose phosphate isomerase
RPGR interacting protein 1
thymidine kinase 1
transmembrane protein 39B
mahogunin ring finger 1
ubiquitin family domain containing 1
MRE11 homolog, double strand break repair nuclease
sec1 family domain containing 1
kinesin family member 24
cyclic nucleotide binding domain containing 1
selenoprotein I
amine oxidase copper containing 1
ankyrin repeat and EF-hand domain containing 1
alpha tubulin acetyltransferase 1
lysine demethylase 3A
N-acetylglucosamine-1-phosphate transferase subunits alpha and beta
lymphotoxin beta receptor
oxidative stress induced growth inhibitor 1
G protein-coupled receptor 137B
RAB21, member RAS oncogene family
3'(2'), 5'-bisphosphate nucleotidase 1
CD36 molecule
importin 13
peroxisomal membrane protein 4
cornichon family AMPA receptor auxiliary protein 4
monooxygenase DBH like 1
cysteine rich with EGF like domains 1
AKT serine/threonine kinase 3
required for meiotic nuclear division 1 homolog
leucine rich repeats and immunoglobulin like domains 2
URB1 ribosome biogenesis homolog
mitochondrial translational release factor 1 like
actin binding LIM protein 1
DEXD/H-box helicase 58

KIAA0930

component of oligomeric golgi complex 8

COPI coat complex subunit beta 2

akirin 1

nucleic acid binding protein 2

F-box protein 6

ribosomal modification protein rimK like family member B

UTP25 small subunit processor component

U2 small nuclear RNA auxiliary factor 2

PHD finger protein 10

protein phosphatase methylesterase 1

kinesin family member 18B

interleukin 12A

G protein-coupled receptor kinase 4

zinc finger protein 557

SCY1 like pseudokinase 2

CAP-Gly domain containing linker protein 3

lymphocyte antigen 6 family member G6C

collagen beta(1-O)galactosyltransferase 2

HECT domain E3 ubiquitin protein ligase 2

membrane bound O-acyltransferase domain containing 1

TIR domain containing adaptor protein

ER membrane associated RNA degradation

glial cells missing transcription factor 1

striatin 3

gametogenetin binding protein 2

lysosomal protein transmembrane 4 alpha

toll like receptor 3

RAN binding protein 1

glypican 5

transmembrane protein 53

HGH1 homolog

ARHGAP19-SLIT1 readthrough (NMD candidate)

ring finger protein 214

KRI1 homolog

coiled-coil serine rich protein 2

nanos C2HC-type zinc finger 3

novel transcript

SDA1 domain containing 1

anoctamin 2

family with sequence similarity 89 member A

elongator acetyltransferase complex subunit 6

LIM and SH3 protein 1

EPH receptor B3

DEAH-box helicase 38

lipase A, lysosomal acid type

small cell adhesion glycoprotein
platelet factor 4 variant 1
kinesin family member 20A
DEAD-box helicase 20
ankyrin repeat domain 7
USO1 vesicle transport factor
nuclear receptor subfamily 2 group C member 1
exosome component 4
2-hydroxyacyl-CoA lyase 1
nuclear receptor coactivator 6
MORC family CW-type zinc finger 2
solute carrier family 24 member 1
Ras related GTP binding A
hydroxysteroid 17-beta dehydrogenase 7
PAT1 homolog 2
erb-b2 receptor tyrosine kinase 4
REX4 homolog, 3'-5' exonuclease
dynein cytoplasmic 1 light intermediate chain 2
cellular communication network factor 3
tumor protein p63 regulated 1
TATA-box binding protein associated factor 7
threonyl-tRNA synthetase 3
serine protease 33
TBC1 domain family member 10B
heat shock protein family H (Hsp110) member 1
transmembrane protein 41B
nidogen 2
histidyl-tRNA synthetase 1
ZFP3 zinc finger protein
eukaryotic translation initiation factor 5A2
nucleolar protein 4 like
tetratricopeptide repeat domain 27
NADH:ubiquinone oxidoreductase subunit S6
tetratricopeptide repeat domain 3
SR-related CTD associated factor 1
coiled-coil-helix-coiled-coil-helix domain containing 4
peroxisomal biogenesis factor 11 gamma
C-X-C motif chemokine receptor 1
protein phosphatase 1 regulatory subunit 18
ubiquitin conjugating enzyme E2 M
Dexi homolog
RAS p21 protein activator 2
zinc finger protein 250
heat shock factor binding protein 1
ubiquinol-cytochrome c reductase binding protein
gamma-aminobutyric acid type A receptor subunit gamma3

interleukin enhancer binding factor 3
marker of proliferation Ki-67
zinc finger protein 614
testis expressed 264, ER-phagy receptor
sortilin related VPS10 domain containing receptor 3
FAM3 metabolism regulating signaling molecule C
myotubularin related protein 2
ribophorin II
RAD1 checkpoint DNA exonuclease
centromere protein J
potassium channel tetramerization domain containing 1
zinc finger protein 776
endosome-lysosome associated apoptosis and autophagy regulator 1
early growth response 1
leucine rich repeat containing 8 VRAC subunit A
chromodomain Y like 2
transmembrane protein 143
WD repeat domain 49
protocadherin related 15
pre-mRNA processing factor 8
proline rich 3
ATP synthase F1 subunit beta
coiled-coil domain containing 78
oxidoreductase like domain containing 1
transmembrane protein 254
sprouty related EVH1 domain containing 1
mediator complex subunit 16
methionyl-tRNA synthetase 1
prune homolog 2 with BCH domain
transmembrane p24 trafficking protein 10
CCZ1 homolog B, vacuolar protein trafficking and biogenesis associated
free fatty acid receptor 2
epoxide hydrolase 2
family with sequence similarity 209 member B
coiled-coil domain containing 47
kelch like family member 42
coiled-coil domain containing 137
LEM domain nuclear envelope protein 2
MMS22 like, DNA repair protein
glutamine amidotransferase like class 1 domain containing 3A
FRAT regulator of WNT signaling pathway 1
pappalysin 2
unc-5 family C-terminal like
golgin A3
glypican 6
ST3 beta-galactoside alpha-2,3-sialyltransferase 1

scleraxis bHLH transcription factor
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
tripartite motif containing 69
acyl-CoA binding domain containing 3
CDC42 small effector 1
RNA binding motif protein 28
ceramide synthase 3
C-C motif chemokine receptor 3
sphingosine-1-phosphate phosphatase 2
NAD kinase
MRT4 homolog, ribosome maturation factor
patched 1
heat shock protein family A (Hsp70) member 8
CEA cell adhesion molecule 4
PEAK1 related, kinase-activating pseudokinase 1
denticleless E3 ubiquitin protein ligase homolog
ubiquinol-cytochrome c reductase hinge protein like
E1A binding protein p300
pyrroline-5-carboxylate reductase 3
zinc finger protein 837
kinesin family binding protein
MOB kinase activator 3B
solute carrier family 12 member 7
Ras association (RalGDS/AF-6) and pleckstrin homology domains 1
tripartite motif containing 71
CAS1 domain containing 1
casein kinase 1 epsilon
intraflagellar transport 22
adaptor related protein complex 5 subunit zeta 1
cytokine receptor like factor 1
ALG3 alpha-1,3- mannosyltransferase
heterogeneous nuclear ribonucleoprotein D
PBX homeobox 4
ubinuclein 1
mitochondrial ribosomal protein S11
TNF receptor superfamily member 1A
non-SMC condensin I complex subunit D2
shieldin complex subunit 2
phosphatidylinositol glycan anchor biosynthesis class W
p21 (RAC1) activated kinase 2
ZFP90 zinc finger protein
ATPase H⁺ transporting V1 subunit A
nuclear RNA export factor 1
phosphodiesterase 4D
eukaryotic translation initiation factor 3 subunit F
serum amyloid A like 1

ETS transcription factor ELK4
histone deacetylase 5
vezatin, adherens junctions transmembrane protein
kinesin family member C3
leucine rich repeat containing 75B
transmembrane protein 119
solute carrier family 39 member 6
double PHD fingers 2
gasdermin D
H2A clustered histone 8
WD repeat domain 7
LBH regulator of WNT signaling pathway
enoyl-CoA delta isomerase 2
golgi reassembly stacking protein 1
transmembrane and immunoglobulin domain containing 3
novel transcript
protein tyrosine phosphatase receptor type M
zinc finger protein 688
fascin actin-bundling protein 1
acidic residue methyltransferase 1
acyl-CoA synthetase long chain family member 3
acid phosphatase 6, lysophosphatidic
solute carrier family 25 member 45
kelch like family member 23
LSM1 homolog, mRNA degradation associated
ring finger protein 149
ASH2 like, histone lysine methyltransferase complex subunit
tyrosine kinase 2
serine/threonine kinase 40
thioredoxin domain containing 17
glycoprotein IX platelet
small nuclear RNA activating complex polypeptide 5
phosphodiesterase 2A
oxidation resistance 1
coiled-coil domain containing 115
BMP/retinoic acid inducible neural specific 3
pleckstrin homology like domain family B member 2
dopamine receptor D3
family with sequence similarity 214 member A
origin recognition complex subunit 5
SH3 domain binding protein 2
INO80 complex subunit D
proteasome 20S subunit alpha 7
solute carrier family 4 member 1 adaptor protein
mitochondrial trans-2-enoyl-CoA reductase
YdjC chitooligosaccharide deacetylase homolog

purinergic receptor P2X 6
p21 (RAC1) activated kinase 4
phosphodiesterase 10A
karyopherin subunit alpha 5
GrpE like 2, mitochondrial
chloride intracellular channel 5
solute carrier family 25 member 28
translation machinery associated 7 homolog
HMG-box transcription factor 1
myotubularin related protein 6
TIFA inhibitor
PHD finger protein 1
neuronal PAS domain protein 2
zinc finger and BTB domain containing 4
ring finger protein 34
translocase of inner mitochondrial membrane 50
thyroid hormone receptor interactor 6
DIRAS family GTPase 1
SAP30 like
DNA polymerase gamma 2, accessory subunit
sorting nexin 10
roundabout guidance receptor 2
alpha-L-fucosidase 1
monoglyceride lipase
selenoprotein P
stabilin 1
kelch like family member 22
cyclin E2
myosin VC
heme binding protein 1
tripartite motif containing 13
gigaxonin
delta 4-desaturase, sphingolipid 2
zinc finger protein 235
ubiquinol-cytochrome c reductase complex assembly factor 1
family with sequence similarity 167 member A
NHL repeat containing 3
solute carrier family 24 member 4
fukutin related protein
cleavage and polyadenylation specific factor 3
mitochondrial ribosomal protein S12
trafficking protein particle complex 4
DEAD-box helicase 31
dorsal inhibitory axon guidance protein
granzyme K
H2A clustered histone 6

RNA pseudouridine synthase domain containing 2
endothelial cell adhesion molecule
protein phosphatase 1 regulatory subunit 13B
differentially expressed in FDCP 8 homolog
kelch repeat and BTB domain containing 2
zinc finger protein 33B
RUNX family transcription factor 2
purinergic receptor P2Y13
Rap guanine nucleotide exchange factor 5
GTPase, IMAP family member 4
UL16 binding protein 3
mitochondrial ribosomal protein L39
COPI coat complex subunit zeta 2
COMM domain containing 4
sodium/potassium transporting ATPase interacting 2
family with sequence similarity 81 member A
WAPL cohesin release factor
tRNA-yW synthesizing protein 5
aurora kinase A
double C2 domain beta
dedicator of cytokinesis 7
angel homolog 2
RAB GTPase activating protein 1 like
molybdenum cofactor synthesis 1
novel protein
EPS8 like 1
forkhead box N2
kelch like family member 11
NIMA related kinase 8
SEC11 homolog C, signal peptidase complex subunit
RELA proto-oncogene, NF-kB subunit
creatine kinase B
proteasome activator subunit 1
NHL repeat containing 2
mitochondrial ribosomal protein S25
BCL2 interacting killer
glycosyltransferase 8 domain containing 1
transmembrane protein 269
fibronectin type III domain containing 11
proteasome 26S subunit, ATPase 5
chromosome 2 open reading frame 92
centrosomal protein 89
trafficking protein particle complex 6A
zinc finger protein 74
glucose-6-phosphatase catalytic subunit 3
solute carrier family 38 member 9

glutamine rich 1
potassium calcium-activated channel subfamily M alpha 1
angiopoietin like 6
cyclin G associated kinase
solute carrier family 20 member 1
transient receptor potential cation channel subfamily C member 3
glutamate ionotropic receptor delta type subunit 2
NSE4 homolog A, SMC5-SMC6 complex component
mediator complex subunit 22
C1D nuclear receptor corepressor
novel protein
MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
acyl-CoA oxidase like
glutamyl-prolyl-tRNA synthetase 1
A-kinase anchoring protein 9
BLCAP apoptosis inducing factor
leucyl-tRNA synthetase 2, mitochondrial
ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 2
HEAT repeat containing 6
chromobox 3
interleukin 1 receptor associated kinase 4
insulin receptor substrate 1
VPS11 core subunit of CORVET and HOPS complexes
interferon regulatory factor 2 binding protein 1
WD repeat domain 90
BCL2 interacting protein 1
docking protein 2
transmembrane protein 50B
chaperonin containing TCP1 subunit 7
mitogen-activated protein kinase 10
transcription factor 12
copine 4
TLE family member 3, transcriptional corepressor
ankyrin repeat and SOCS box containing 8
DOP1 leucine zipper like protein A
CCR4-NOT transcription complex subunit 10
forkhead box P4
TRIM39-RPP21 readthrough
forty-two-three domain containing 1
mitochondrial calcium uniporter dominant negative subunit beta
lysine acetyltransferase 7
DEAD-box helicase 23
proline rich 5
novel protein
zinc finger protein 446
protein phosphatase 1 regulatory subunit 21

farnesyl-diphosphate farnesyltransferase 1
5-methyltetrahydrofolate-homocysteine methyltransferase
helicase like transcription factor
exocyst complex component 2
phosphodiesterase 4D interacting protein
usherin
nudix hydrolase 9
thyroid hormone receptor interactor 10
UPF3A regulator of nonsense mediated mRNA decay
solute carrier family 35 member F3
EGF like domain multiple 7
glutathione peroxidase 7
myosin IG
N-alpha-acetyltransferase 25, NatB auxiliary subunit
SUMO interacting motifs containing 1
MAU2 sister chromatid cohesion factor
RAB24, member RAS oncogene family
zinc finger protein 234
versican
nucleoporin 54
limb development membrane protein 1 like
integrin subunit beta 1
mediator complex subunit 6
ankyrin repeat domain 16
translocase of inner mitochondrial membrane 29
Rap guanine nucleotide exchange factor 2
endo-beta-N-acetylglucosaminidase
carbonyl reductase 1
kelch like family member 12
nucleoporin 214
general transcription factor IIA subunit 2
CD9 molecule
AT-rich interaction domain 3B
limb and CNS expressed 1 like
trans-2,3-enoyl-CoA reductase
poly(rC) binding protein 1
glutamine amidotransferase like class 1 domain containing 3B
ATP/GTP binding protein like 1
cytokine receptor like factor 3
galactokinase 2
YES proto-oncogene 1, Src family tyrosine kinase
dCTP pyrophosphatase 1
F-box and leucine rich repeat protein 3
hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit beta
GTP binding protein 3, mitochondrial
ZFP1 zinc finger protein

autophagy and beclin 1 regulator 1
N-myc downstream regulated 1
NOP9 nucleolar protein
sialic acid binding Ig like lectin 8
teneurin transmembrane protein 4
homeobox B3
thrombospondin type 1 domain containing 4
polypyrimidine tract binding protein 2
TATA-box binding protein associated factor 2
adenosylhomocysteinase like 1
ZFP30 zinc finger protein
syntaxin binding protein 5 like
protein kinase cGMP-dependent 1
adaptor related protein complex 4 subunit mu 1
ALG2 alpha-1,3/1,6-mannosyltransferase
adenosine deaminase tRNA specific 1
ectonucleotide pyrophosphatase/phosphodiesterase family member 5
interferon related developmental regulator 2
SDE2 telomere maintenance homolog
zinc finger ZZ-type containing 3
zinc finger and BTB domain containing 34
thioredoxin related transmembrane protein 4
MRN complex interacting protein
ring finger protein 44
lysine methyltransferase 2A
spindle and kinetochore associated complex subunit 1
GC-rich sequence DNA-binding factor 2
cysteine and serine rich nuclear protein 2
5-hydroxymethylcytosine binding, ES cell specific
protein tyrosine phosphatase receptor type A
Ral GTPase activating protein catalytic subunit alpha 1
solute carrier family 7 member 5
leucine rich repeat and Ig domain containing 1
ALG1 chitobiosyldiphosphodolichol beta-mannosyltransferase
nicastrin
elongation factor for RNA polymerase II 2
ADP dependent glucokinase
fibronectin type III and SPRY domain containing 1
round spermatid basic protein 1
ubiquitin specific peptidase 5
CREB binding protein
plakophilin 2
protein kinase AMP-activated non-catalytic subunit beta 1
ferredoxin 1
single stranded DNA binding protein 3
NODAL modulator 3

zinc finger and BTB domain containing 47
pleckstrin homology domain containing J1
TMEM9 domain family member B
WRN RecQ like helicase
zinc finger protein 552
MINDY lysine 48 deubiquitinase 2
calcium voltage-gated channel auxiliary subunit beta 3
A-kinase anchoring protein 6
RAD54 like
prune exopolyphosphatase 1
novel protein
tubulin alpha 4a
USH1 protein network component harmonin binding protein 1
mitochondrial ribosomal protein L44
xylulokinase
zinc finger protein 70
RCC1 and BTB domain containing protein 2
inositol polyphosphate-5-phosphatase K
methyl-CpG binding domain protein 1
protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1
glutamate dehydrogenase 1
Fc receptor like B
WD repeat and coiled coil containing
coagulation factor II thrombin receptor
solute carrier family 6 member 4
pentatricopeptide repeat domain 2
isocitrate dehydrogenase (NAD(+)) 3 non-catalytic subunit beta
2,4-dienoyl-CoA reductase 1
ninein like
immunoglobulin superfamily member 8
RAB40C, member RAS oncogene family
fizzy and cell division cycle 20 related 1
DENN domain containing 1C
F2R like thrombin or trypsin receptor 3
SCY1 like pseudokinase 3
inhibitor of Bruton tyrosine kinase
family with sequence similarity 89 member B
platelet factor 4
solute carrier family 5 member 8
alpha tocopherol transfer protein like
insulin like growth factor binding protein 7
coiled-coil domain containing 106
zinc finger SWIM-type containing 9
zinc finger protein 26
DEP domain containing 7
SH3 domain binding protein 5

nudix hydrolase 21
interleukin 18 receptor accessory protein
transmembrane protein 263
PR/SET domain 5
zinc finger protein 623
serine palmitoyltransferase small subunit B
sialic acid binding Ig like lectin 15
apoptosis inhibitor 5
acyl-CoA binding domain containing 4
BUB1 mitotic checkpoint serine/threonine kinase
transmembrane serine protease 9
sulfide quinone oxidoreductase
ubiquitin associated protein 2 like
DNA replication and sister chromatid cohesion 1
Rho GTPase activating protein 27
zinc finger protein 184
EF-hand domain containing 1
RNA 3'-terminal phosphate cyclase
cell division cycle 7
stromal interaction molecule 1
C-X-C motif chemokine ligand 5
signal regulatory protein beta 2
homeobox A9
ADAMTS like 1
adaptor related protein complex 2 subunit sigma 1
BRISC and BRCA1 A complex member 2
zinc finger and BTB domain containing 14
tetratricopeptide repeat domain 9
contactin 4
sterile alpha motif domain containing 10
elongin A
ras homolog family member H
carbohydrate sulfotransferase 10
peptidase M20 domain containing 1
RUN and FYVE domain containing 4
kinesin family member 3B
LSM2 homolog, U6 small nuclear RNA and mRNA degradation associated
ethanolamine kinase 1
centrosomal protein 170
gastric inhibitory polypeptide receptor
selectin L
chloride voltage-gated channel 3
sacsin molecular chaperone
stathmin 3
alkB homolog 4, lysine demethylase
structural maintenance of chromosomes 5

Tu translation elongation factor, mitochondrial
citramalyl-CoA lyase
ZFP69 zinc finger protein
protogenin
diacylglycerol lipase beta
ubiquitin like 7
cell division cycle associated 3
TLC domain containing 2
cilia and flagella associated protein 410
ankyrin repeat domain 13C
collagen type X alpha 1 chain
ribonuclease A family member k6
TEA domain transcription factor 2
Putative MORF4 family-associated protein 1-like protein UPP
zinc finger protein interacting with K protein 1
chromosome 12 open reading frame 4
dynactin subunit 2
helicase with zinc finger 2
actin like 6A
catenin alpha 3
protein interacting with cyclin A1
carnitine O-acetyltransferase
ring finger protein 208
guanylate binding protein 2
DNA polymerase epsilon, catalytic subunit
peroxisomal testis enriched protein 1
microtubule associated protein 1A
homer scaffold protein 2
remodeling and spacing factor 1
lectin, mannose binding 2 like
crystallin beta-gamma domain containing 1
gamma-glutamylamine cyclotransferase
FA complementation group E
RAD50 double strand break repair protein
meiosis 1 associated protein
MYC target 1
CUGBP Elav-like family member 2
family with sequence similarity 102 member A
establishment of sister chromatid cohesion N-acetyltransferase 2
stress induced phosphoprotein 1
AVL9 cell migration associated
golgi associated kinase 1B
ring finger protein 126
polyhomeotic homolog 3
DS cell adhesion molecule
novel lipoprotein amino terminal region containing protein

primase and DNA directed polymerase
exonuclease 1
mitotic arrest deficient 2 like 1
semaphorin 6C
peroxiredoxin 1
Mab-21 domain containing 2
family with sequence similarity 114 member A1
sortilin related VPS10 domain containing receptor 1
sirtuin 3
major histocompatibility complex, class I-related
myotrophin
proprotein convertase subtilisin/kexin type 4
ectonucleoside triphosphate diphosphohydrolase 7
chromosome 7 open reading frame 25
glutaredoxin
ribosomal RNA processing 7 homolog A
C-type lectin domain family 12 member B
aminoacyl tRNA synthetase complex interacting multifunctional protein 2
procollagen-lysine,2-oxoglutarate 5-dioxygenase 1
MKS transition zone complex subunit 1
membrane metalloendopeptidase
proline rich 7, synaptic
atrophin 1
ubiquitin specific peptidase 40
metaxin 3
Yip1 domain family member 3
CDK5 regulatory subunit associated protein 1
G protein subunit alpha z
acyl-CoA thioesterase 2
NACHT and WD repeat domain containing 1
PLAG1 zinc finger
progesterone and adiponectin receptor family member 3
nascent polypeptide associated complex subunit alpha
chromosome 14 open reading frame 132
beta-1,3-galactosyltransferase 2
NUAK family kinase 2
endoplasmic reticulum oxidoreductase 1 beta
COBW domain containing 6
heat shock protein family B (small) member 1
heat shock protein family B (small) member 11
zinc finger protein 146
protein kinase cAMP-dependent type II regulatory subunit alpha
zinc finger AN1-type containing 6
family with sequence similarity 135 member A
solute carrier family 7 member 6 opposite strand
tRNA splicing endonuclease subunit 34

lymphocyte expansion molecule
ZFP36 ring finger protein like 2
autophagy related 4B cysteine peptidase
THAP domain containing 6
CDKN1A interacting zinc finger protein 1
IK cytokine
potassium voltage-gated channel subfamily E regulatory subunit 1B
protein phosphatase 1 regulatory subunit 16A
centriolin
mitogen-activated protein kinase kinase kinase 12
calcium binding and coiled-coil domain 2
gamma-glutamyl hydrolase
zinc finger protein 517
talin 2
caspase activity and apoptosis inhibitor 1
cadherin 12
SH3 and PX domains 2A
multiple EGF like domains 9
DNA primase subunit 1
ATP synthase membrane subunit c locus 2
NADH:ubiquinone oxidoreductase subunit B2
Ral GEF with PH domain and SH3 binding motif 1
MAX dimerization protein MGA
HYLS1 centriolar and ciliogenesis associated
GRB2 associated regulator of MAPK1 subtype 2
secretory carrier membrane protein 4
transmembrane phosphoinositide 3-phosphatase and tensin homolog 2
NAD kinase 2, mitochondrial
PBX homeobox 3
annexin A2
RuvB like AAA ATPase 2
beta-1,4-galactosyltransferase 3
B-box and SPRY domain containing
WW domain binding protein 1 like
syntrophin alpha 1
ALMS1 centrosome and basal body associated protein
centromere protein B
calpain 2
SMG9 nonsense mediated mRNA decay factor
lymphocyte specific protein 1
two pore segment channel 2
ATP synthase F1 subunit alpha
anoctamin 6
septin 2
mediator of cell motility 1
zinc finger MIZ-type containing 2

zinc and ring finger 1
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon
adenosine deaminase tRNA specific 2
immunoglobulin superfamily member 6
protein tyrosine phosphatase receptor type O
acylphosphatase 1
potassium voltage-gated channel interacting protein 4
liver enriched antimicrobial peptide 2
R3H domain and coiled-coil containing 1
neuraminidase 3
ADAM metallopeptidase domain 19
fascin actin-bundling protein 2, retinal
pseudopodium enriched atypical kinase 1
LDL receptor related protein 1B
LysM domain containing 2
RNA binding motif single stranded interacting protein 3
kinesin family member C2
synaptojanin 2
Kruppel like factor 6
delta 4-desaturase, sphingolipid 1
chromosome 1 open reading frame 61
high mobility group nucleosomal binding domain 2
ral guanine nucleotide dissociation stimulator like 2
H4 clustered histone 8
fukutin
SH2 domain containing 4B
methyltransferase like 6
progesterone immunomodulatory binding factor 1
ArfGAP with coiled-coil, ankyrin repeat and PH domains 3
heterogeneous nuclear ribonucleoprotein L
ribosomal protein L30
zinc finger protein 598, E3 ubiquitin ligase
MAPK interacting serine/threonine kinase 2
RNA pseudouridine synthase D3
non-SMC condensin II complex subunit G2
pescadillo ribosomal biogenesis factor 1
galactosamine (N-acetyl)-6-sulfatase
zinc finger and SCAN domain containing 25
cell division cycle 25A
stress associated endoplasmic reticulum protein family member 2
adducin 2
zinc finger protein 432
thioesterase superfamily member 6
BRCA1 associated ATM activator 1
RAD52 homolog, DNA repair protein
C2 calcium dependent domain containing 5

ankyrin repeat domain 6
ciliogenesis and planar polarity effector 1
protein phosphatase 1 regulatory subunit 12B
Bet1 golgi vesicular membrane trafficking protein like
nucleoporin 107
nucleolar pre-rRNA processing protein NIP7
CCR4-NOT transcription complex subunit 6
FAM20C golgi associated secretory pathway kinase
c-Maf inducing protein
nudix hydrolase 18
arginine-glutamic acid dipeptide repeats
neuroplastin
LSM family member 14B
DNA polymerase mu
UEV and lactate/malate dehydrogenase domains
zinc finger protein 717
zinc finger protein 2
transcription factor B2, mitochondrial
GTPase activating Rap/RanGAP domain like 3
adhesion G protein-coupled receptor L2
gamma-aminobutyric acid type A receptor subunit beta2
tetratricopeptide repeat domain 5
RNA binding motif protein 33
calreticulin
Fas activated serine/threonine kinase
abraxas 2, BRISC complex subunit
cathepsin W
interleukin 34
cadherin 24
piggyBac transposable element derived 1
testis development related protein
RAB interacting factor
H2B clustered histone 9
DDHD domain containing 2
chromosome 7 open reading frame 61
gem nuclear organelle associated protein 4
lysine demethylase 4C
parkin coregulated
RNA binding motif protein 15B
RUNX family transcription factor 1
macroH2A.1 histone
malate dehydrogenase 2
coronin 1B
coiled-coil domain containing 24
Cbl proto-oncogene like 1
solute carrier family 25 member 24

ras homolog family member T1
rhomboid 5 homolog 2
transmembrane protein 163
ribosomal protein L35a
centromere protein M
male-enhanced antigen 1
growth factor receptor bound protein 14
KIAA1191
SEC24 homolog D, COPII coat complex component
zinc finger protein 384
eukaryotic translation initiation factor 1
neurexophilin and PC-esterase domain family member 3
tectonin beta-propeller repeat containing 1
acyl-CoA synthetase short chain family member 2
synaptotagmin like 3
G protein-coupled receptor 180
mitoguardin 2
contactin associated protein family member 5
neogenin 1
low density lipoprotein receptor
zinc finger protein 80
flavin containing dimethylaniline monooxygenase 4
forkhead box P2
fucosyltransferase 10
calcium regulated heat stable protein 1
PIH1 domain containing 1
L3MBTL histone methyl-lysine binding protein 4
TP53 regulating kinase
kinesin family member 20B
zinc finger protein 337
polypeptide N-acetylgalactosaminyltransferase 2
regulator of calcineurin 2
protein phosphatase 2 regulatory subunit B'epsilon
RAD51 paralog C
CD2 associated protein
noggin
SET domain containing 6, protein lysine methyltransferase
zinc finger protein 175
golgin A8 family member A
mitochondrial methionyl-tRNA formyltransferase
UBA like domain containing 1
interactor of little elongation complex ELL subunit 2
inhibitor of growth family member 2
CDC like kinase 2
zinc finger protein 543
axonemal dynein light chain domain containing 1

nuclear factor of activated T cells 5
wolframin ER transmembrane glycoprotein
fatty acid binding protein 5
TEA domain transcription factor 1
midasin AAA ATPase 1
sprouty related EVH1 domain containing 2
solute carrier family 25 member 21
succinate-CoA ligase GDP-forming subunit beta
CDC28 protein kinase regulatory subunit 1B
adenosine kinase
dedicator of cytokinesis 10
zinc finger protein 486
acyl-CoA dehydrogenase family member 9
guanylate cyclase activator 1B
TBC1 domain family member 32
LSM10, U7 small nuclear RNA associated
ATP binding cassette subfamily B member 8
phospholipase C eta 1
PAS domain containing serine/threonine kinase
F-box and leucine rich repeat protein 6
microtubule associated serine/threonine kinase 3
regenerating family member 4
HERPUD family member 2
beta-secretase 1
TSPY like 4
activin A receptor type 1C
N-alpha-acetyltransferase 38, NatC auxiliary subunit
DENN domain containing 4A
discs large MAGUK scaffold protein 1
autocrine motility factor receptor
POP7 homolog, ribonuclease P/MRP subunit
solute carrier family 35 member G2
thrombospondin 1
BUD31 homolog
transmembrane protein 170B
solute carrier family 22 member 17
glutamate ionotropic receptor NMDA type subunit 2A
mitochondrial ribosomal protein S18A
NADH:ubiquinone oxidoreductase core subunit S8
cholinergic receptor nicotinic beta 1 subunit
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase like 1
heat shock transcription factor 4
SMAD family member 7
endosulfine alpha
DMRT like family C2
adaptor related protein complex 5 subunit sigma 1

RAB12, member RAS oncogene family
high mobility group nucleosome binding domain 1
FA complementation group D2
neurobeachin
acireductone dioxygenase 1
ATPase plasma membrane Ca²⁺ transporting 4
acid phosphatase 2, lysosomal
myelin protein zero like 2
synaptopodin 2
cutA divalent cation tolerance homolog
formin like 1
zinc finger protein 512B
SP110 nuclear body protein
serine/threonine kinase 35
DExD-box helicase 50
DEAD-box helicase 42
NSFL1 cofactor
family with sequence similarity 189 member A1
immunoglobulin heavy variable 4-38-2-like
high mobility group AT-hook 1
signal recognition particle 14
KIT proto-oncogene, receptor tyrosine kinase
ADP ribosylation factor like GTPase 1
transmembrane serine protease 6
bromodomain and PHD finger containing 3
LY6/PLAUR domain containing 2
IL2 inducible T cell kinase
proteasome 20S subunit beta 3
mediator complex subunit 4
inositol 1,4,5-triphosphate receptor associated 2
mediator complex subunit 25
apoptosis and caspase activation inhibitor
thiosulfate sulfurtransferase
phosphodiesterase 9A
katanin regulatory subunit B1 like 1
mitogen-activated protein kinase 9
CD70 molecule
translocase of outer mitochondrial membrane 20
RB binding protein 8, endonuclease
zinc finger protein 83
DNA fragmentation factor subunit beta
serine/threonine kinase 38
novel transcript
zinc finger protein 134
cortactin
copper chaperone for superoxide dismutase

ADP ribosylation factor like GTPase 14 effector protein
transmembrane protein 154
platelet derived growth factor C
leukocyte receptor cluster member 9
DAZ interacting zinc finger protein 3
protein phosphatase 2 regulatory subunit Bdelta
amyloid beta precursor protein binding family B member 2
dynein axonemal intermediate chain 2
Rho GTPase activating protein 31
mitochondrial transcription rescue factor 1
MIS18 binding protein 1
torsin family 4 member A
Rac family small GTPase 2
tubulin polymerization promoting protein
serine racemase
novel protein
small nuclear ribonucleoprotein U11/U12 subunit 25
sushi, nidogen and EGF like domains 1
aminopeptidase like 1
NADH:ubiquinone oxidoreductase complex assembly factor 3
TSC complex subunit 2
interferon regulatory factor 1
thrombomodulin
DENN domain containing 1B
DNA polymerase epsilon 3, accessory subunit
Ras and Rab interactor 1
formimidoyltransferase cyclodeaminase
NOC3 like DNA replication regulator
integrin subunit alpha E
aprataxin and PNKP like factor
tripartite motif containing 4
ER membrane protein complex subunit 10
zinc finger protein 396
lysozyme g1
general transcription factor IIH subunit 1
CD160 molecule
TAO kinase 1
NCK adaptor protein 2
ELOVL fatty acid elongase 6
solute carrier family 44 member 1
mediator complex subunit 27
FANCD2 and FANCI associated nuclease 1
post-GPI attachment to proteins inositol deacylase 1
ERCC excision repair 6, chromatin remodeling factor
succinate-CoA ligase GDP/ADP-forming subunit alpha
component of oligomeric golgi complex 4

magnesium transporter MRS2
spectrin repeat containing nuclear envelope family member 4
proline rich 11
TATA-box binding protein associated factor 8
frizzled class receptor 3
deoxyhypusine hydroxylase
glycerol-3-phosphate acyltransferase 4
structural maintenance of chromosomes 6
GINS complex subunit 2
calponin 3
enhancer of zeste 1 polycomb repressive complex 2 subunit
cubilin
sphingolipid transporter 3 (putative)
transmembrane protein 200B
myocardin related transcription factor B
fibroblast growth factor 14
solute carrier family 30 member 7
nuclear envelope integral membrane protein 2
proteasome 26S subunit, non-ATPase 2
interactor of little elongation complex ELL subunit 1
casein kinase 2 alpha 2
AAR2 splicing factor
cytoplasmic polyadenylation element binding protein 3
LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
8-oxoguanine DNA glycosylase
transmembrane protein 186
solute carrier family 30 member 10
death domain associated protein
GREB1 like retinoic acid receptor coactivator
zinc finger protein 416
transmembrane protein 14A
ATP binding cassette subfamily E member 1
polynucleotide kinase 3'-phosphatase
ADP ribosylation factor GTPase activating protein 2
regulation of nuclear pre-mRNA domain containing 1A
kelch like family member 8
eukaryotic elongation factor 2 lysine methyltransferase
TOX high mobility group box family member 4
poly(ADP-ribose) polymerase family member 9
X-C motif chemokine receptor 1
RHEB like 1
Src like adaptor 2
component of oligomeric golgi complex 3
zinc finger CCCH-type containing 14
pumilio RNA binding family member 2
teneurin transmembrane protein 3

nuclear receptor 2C2 associated protein
ORC ubiquitin ligase 1
MAK16 homolog
major facilitator superfamily domain containing 3
RAS protein activator like 2
caspase recruitment domain family member 8
glia maturation factor beta
zinc finger and SCAN domain containing 18
RAB33B, member RAS oncogene family
BUB1 mitotic checkpoint serine/threonine kinase B
WD repeat domain 73
ribosomal protein L41
methyltransferase like 14
cilia and flagella associated protein 20
nuclear receptor corepressor 1
cytochrome b-245 alpha chain
capping actin protein of muscle Z-line subunit beta
zinc finger protein 574
tripartite motif containing 36
transmembrane protein 144
transcription termination factor 2
mercaptopyruvate sulfurtransferase
ATPase phospholipid transporting 10A (putative)
fem-1 homolog A
glutathione S-transferase omega 1
zinc finger and BTB domain containing 22
Bardet-Biedl syndrome 2
zinc finger protein 79
switching B cell complex subunit SWAP70
G protein-coupled receptor 89A
methyltransferase like 26
CD53 molecule
glycoprotein nmb
glutathione S-transferase C-terminal domain containing
molybdenum cofactor synthesis 3
chromosome 1 open reading frame 43
tetratricopeptide repeat domain 21B
methyltransferase like 3
transmembrane protein 132D
hes family bHLH transcription factor 6
ankyrin repeat and sterile alpha motif domain containing 6
mitochondrial carrier 2
SAFB like transcription modulator
sorcina
tetratricopeptide repeat domain 34
syntaxin 12

heat shock protein nuclear import factor hikiishi
solute carrier family 46 member 3
Morf4 family associated protein 1
lin-54 DREAM MuvB core complex component
intraflagellar transport 122
15-hydroxyprostaglandin dehydrogenase
ring finger and CHY zinc finger domain containing 1
ubiquitin conjugating enzyme E2 G1
GATA zinc finger domain containing 2B
CLN3 lysosomal/endosomal transmembrane protein, battenin
3'(2'), 5'-bisphosphate nucleotidase 2
vesicle trafficking 1
MPN domain containing
dipeptidyl peptidase like 10
ras homolog family member A
RAB5B, member RAS oncogene family
TCDD inducible poly(ADP-ribose) polymerase
ATPase Na⁺/K⁺ transporting subunit alpha 1
tubulin tyrosine ligase like 4
EDAR associated death domain
spermatogenesis associated 1
small integral membrane protein 13
TPTEP2-CSNK1E readthrough
Fli-1 proto-oncogene, ETS transcription factor
zinc finger C3HC-type containing 1
metadherin
H1.2 linker histone, cluster member
ring finger and CCCH-type domains 2
centromere protein C
Jupiter microtubule associated homolog 2
GLI family zinc finger 4
zinc finger protein 567
ring finger protein 40
methyltransferase like 15
nitrilase family member 2
potassium inwardly rectifying channel subfamily J member 14
BAR/IMD domain containing adaptor protein 2
orthodenticle homeobox 1
thrombospondin type laminin G domain and EAR repeats
ADP ribosylation factor 6
fibronectin 1
cleavage stimulation factor subunit 3
leucine carboxyl methyltransferase 2
adenine phosphoribosyltransferase
histamine N-methyltransferase
microtubule associated protein RP/EB family member 1

twinkle mtDNA helicase
sterile alpha motif domain containing 9
acyl-CoA dehydrogenase family member 10
zinc and ring finger 2
SLIT-ROBO Rho GTPase activating protein 2
serine/threonine kinase 31
coronin 1A
nurim
Fraser extracellular matrix complex subunit 1
ALG5 dolichyl-phosphate beta-glucosyltransferase
isochorismatase domain containing 1
platelet and endothelial cell adhesion molecule 1
SET domain containing 4
ArfGAP with GTPase domain, ankyrin repeat and PH domain 3
MISP family member 3
oocyte expressed protein
plexin A4
eukaryotic translation initiation factor 3 subunit L
BAG cochaperone 3
inositol-trisphosphate 3-kinase B
nuclear distribution C, dynein complex regulator
single stranded DNA binding protein 2
heterogeneous nuclear ribonucleoprotein A2/B1
SMAD family member 3
structural maintenance of chromosomes flexible hinge domain containing 1
trafficking protein particle complex 12
phosphoseryl-tRNA kinase
beta-1,3-glucuronyltransferase 3
septin 7
MAPK regulated corepressor interacting protein 1
thioredoxin reductase 3
chromosome 11 open reading frame 21
PHD finger protein 7
zinc finger protein 324B
tripartite motif containing 27
alpha-2-macroglobulin
maestro heat like repeat family member 8
neural EGFL like 1
vacuolar protein sorting 4 homolog B
unc-93 homolog B1, TLR signaling regulator
acyl-CoA dehydrogenase short chain
inka box actin regulator 2
ecotropic viral integration site 5 like
family with sequence similarity 160 member A1
glutathione peroxidase 4
NGG1 interacting factor 3 like 1

leucine rich repeat and Ig domain containing 2
suppressor of variegation 3-9 homolog 2
mitoguardin 1
guanylate cyclase 2C
mitogen-activated protein kinase kinase 2
O-sialoglycoprotein endopeptidase
ribonuclease H2 subunit C
desmocollin 1
coiled-coil domain containing 88B
sarcoglycan zeta
methylenetetrahydrofolate reductase
connector enhancer of kinase suppressor of Ras 1
dynein axonemal heavy chain 14
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein eta
RNA binding motif protein 44
TLE family member 5, transcriptional modulator
fucose mutarotase
Janus kinase 2
beta 3-glucosyltransferase
centrosomal protein 104
CD52 molecule
poly(A) specific ribonuclease subunit PAN2
solute carrier family 46 member 1
inner mitochondrial membrane peptidase subunit 1
nuclear mitotic apparatus protein 1
DLG associated protein 3
caspase recruitment domain family member 14
riboflavin kinase
cadherin related family member 3
G2 and S-phase expressed 1
hydroxysteroid 17-beta dehydrogenase 8
integrator complex subunit 10
alanyl-tRNA synthetase 1
DEP domain containing 1B
argonaute RISC catalytic component 3
phosphoinositide-3-kinase regulatory subunit 5
aprataxin
ubiquitin specific peptidase 14
zinc finger E-box binding homeobox 2
RNA pseudouridine synthase D4
pogo transposable element derived with KRAB domain
transmembrane protein 132C
translin
mitogen-activated protein kinase kinase 5
FAST kinase domains 1
centrosomal protein 128

prolyl 4-hydroxylase subunit alpha 1
mannosidase alpha class 1A member 2
elongation factor like GTPase 1
VPS28 subunit of ESCRT-I
WD repeat domain 53
HECT and RLD domain containing E3 ubiquitin protein ligase 4
GIPC PDZ domain containing family member 3
novel protein
SMYD family member 5
ribosomal RNA processing 9, U3 small nucleolar RNA binding protein
trinucleotide repeat containing adaptor 6C
glutamine amidotransferase like class 1 domain containing 1
polypeptide N-acetylgalactosaminyltransferase 13
protein tyrosine phosphatase receptor type T
BAR/IMD domain containing adaptor protein 2 like 1
calmodulin binding transcription activator 2
ubiquinol-cytochrome c reductase, complex III subunit X
cathepsin L
nucleolar protein 11
ring finger protein 181
leukocyte receptor cluster member 8
poly(ADP-ribose) polymerase family member 10
chromosome 4 open reading frame 45
CD48 molecule
BRCA1 associated RING domain 1
solute carrier family 7 member 6
ubiquitin conjugating enzyme E2 S
beta-1,3-galactosyltransferase 6
WD repeat domain 1
macrophage expressed 1
microtubule associated serine/threonine kinase 2
schlafen family member 12 like
zinc finger protein 202
multiple EGF like domains 6
myosin IE
CD200 receptor 1
X-prolyl aminopeptidase 3
exostosin like glycosyltransferase 2
cleavage and polyadenylation specific factor 7
VPS51 subunit of GARP complex
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1E
HESX homeobox 1
contactin 5
stomatin like 1
MINDY lysine 48 deubiquitinase 3
apoptosis enhancing nuclease

CUB and Sushi multiple domains 1
peroxisomal biogenesis factor 3
unc-119 lipid binding chaperone B
G protein-coupled receptor 155
cytochrome c oxidase subunit 5A
peroxisomal biogenesis factor 16
dynein axonemal heavy chain 8
ectonucleotide pyrophosphatase/phosphodiesterase 4
DnaJ heat shock protein family (Hsp40) member B12
acyl-CoA thioesterase 7
CCR4-NOT transcription complex subunit 7
WW domain containing oxidoreductase
proteasome 26S subunit, ATPase 4
leucine rich repeat containing 58
cytochrome b5 domain containing 2
solute carrier family 35 member D1
UTP20 small subunit processome component
chromosome 19 open reading frame 44
lysosomal associated membrane protein 1
metallothionein 2A
tubulin beta 4A class IVa
coiled-coil domain containing 88A
notchless homolog 1
zinc finger protein 347
calcium binding protein 5
hook microtubule tethering protein 3
casein kinase 1 alpha 1
small nuclear ribonucleoprotein U1 subunit 70
rubicon like autophagy enhancer
phosphatidylinositol glycan anchor biosynthesis class V
nuclear factor I C
CD24 molecule
galectin 2
parkin RBR E3 ubiquitin protein ligase
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha
ubiquitin protein ligase E3A
STE20 related adaptor alpha
zyg-11 family member B, cell cycle regulator
fasciculation and elongation protein zeta 2
adrenomedullin 5 (putative)
plexin A2
transcription elongation regulator 1
discs large MAGUK scaffold protein 2
transmembrane protein 240
steroid 5 alpha-reductase 1
exonuclease 3'-5' domain containing 3

1-aminocyclopropane-1-carboxylate synthase homolog (inactive)
tripeptidyl peptidase 2
FERM domain containing 3
coactosin like F-actin binding protein 1
S1 RNA binding domain 1
single-strand-selective monofunctional uracil-DNA glycosylase 1
NBAS subunit of NRZ tethering complex
cadherin 13
myotubularin related protein 14
forkhead box O1
folylpolyglutamate synthase
G-patch domain containing 3
interleukin 4 induced 1
calcium voltage-gated channel auxiliary subunit gamma 8
paraoxonase 2
ALK receptor tyrosine kinase
novel protein
KIAA1217
solute carrier family 35 member B4
cullin 5
Rho GTPase activating protein 5
muskelin 1
NFS1 cysteine desulfurase
neural retina leucine zipper
lysine demethylase 2A
malic enzyme 2
reversion inducing cysteine rich protein with kazal motifs
V-set immunoregulatory receptor
coiled-coil domain containing 154
nudix hydrolase 1
mitochondrial ribosomal protein S2
E2F transcription factor 7
phospholysine phosphohistidine inorganic pyrophosphate phosphatase
RAS related
pumilio RNA binding family member 3
phosphatidylinositol 4-kinase alpha
ataxin 2
shisa family member 9
chromobox 1
stimulator of chondrogenesis 1
cation channel sperm associated auxiliary subunit gamma
origin recognition complex subunit 3
general transcription factor IIF subunit 1
zinc finger protein 678
basic leucine zipper ATF-like transcription factor
calneuron 1

growth differentiation factor 15
mitogen-activated protein kinase kinase kinase 5
MOB kinase activator 2
solute carrier family 45 member 4
fumarylacetoacetate hydrolase domain containing 2B
RAP1 GTPase activating protein 2
succinate dehydrogenase complex iron sulfur subunit B
zinc finger protein 793
TBC1 domain family member 23
par-3 family cell polarity regulator beta
ribonuclease P/MRP subunit p30
lysine methyltransferase 2C
mitogen-activated protein kinase 1 interacting protein 1 like
coiled-coil domain containing 124
PKHD1 ciliary IPT domain containing fibrocystin/polyductin
zinc finger protein 668
platelet activating factor acetylhydrolase 1b regulatory subunit 1
calcium voltage-gated channel auxiliary subunit alpha2delta 1
mirror-image polydactyly 1
CREB regulated transcription coactivator 1
AP2 associated kinase 1
zinc finger protein 274
ELKS/RAB6-interacting/CAST family member 2
chromosome 17 open reading frame 67
purinergic receptor P2Y12
SIN3-HDAC complex associated factor
pyridoxal dependent decarboxylase domain containing 1
nucleosome assembly protein 1 like 4
ring finger protein 169
RAB11B, member RAS oncogene family
alkB homolog 1, histone H2A dioxygenase
clathrin heavy chain linker domain containing 1
glucosamine (N-acetyl)-6-sulfatase
potassium inwardly rectifying channel subfamily J member 6
regulatory factor X associated ankyrin containing protein
ataxin 7 like 3B
WD repeat and SOCS box containing 1
PWP2 small subunit processome component
GATA binding protein 2
ephrin A3
coiled-coil domain containing 136
O-acyl-ADP-ribose deacylase 1
coiled-coil-helix-coiled-coil-helix domain containing 10
zinc finger MYND-type containing 8
SPRY domain containing 7
semaphorin 6B

CLPTM1 like
novel protein
biogenesis of lysosomal organelles complex 1 subunit 2
solute carrier family 4 member 2
E1A binding protein p400
SPT7 like, STAGA complex subunit gamma
zinc finger protein 804B
zinc finger MYM-type containing 2
autophagy related 101
vesicle amine transport 1
cAMP responsive element binding protein 3 like 4
ubiquitin associated protein 1 like
cell division cycle 37, HSP90 cochaperone
E2F transcription factor 4
phosphoribosyl pyrophosphate amidotransferase
scavenger receptor family member expressed on T cells 1
CDP-diacylglycerol--inositol 3-phosphatidyltransferase
SFT2 domain containing 1
ATP binding cassette subfamily C member 10
G protein pathway suppressor 1
VPS53 subunit of GARP complex
major facilitator superfamily domain containing 14B
chromodomain helicase DNA binding protein 4
TATA-box binding protein associated factor, RNA polymerase I subunit A
Bardet-Biedl syndrome 12
cholinergic receptor muscarinic 3
ring finger protein 32
thyroid peroxidase

ring finger protein 185
NDUFA4 mitochondrial complex associated
OTU deubiquitinase 7B
dystonin
microtubule associated protein 9
FYVE, RhoGEF and PH domain containing 3
PHD finger protein 23
sarcoglycan epsilon
short chain dehydrogenase/reductase family 39U member 1
novel protein
DnaJ heat shock protein family (Hsp40) member B9
myosin light chain kinase
RAB3A, member RAS oncogene family
cell migration inducing hyaluronidase 2
novel protein
ubiquitin specific peptidase 39
zinc finger protein 141

TBK1 binding protein 1
DnaJ heat shock protein family (Hsp40) member C14
geminin DNA replication inhibitor
tripartite motif containing 73
palladin, cytoskeletal associated protein
MET transcriptional regulator MACC1
proteasome maturation protein
regulatory factor X associated protein
VPS35 retromer complex component
coenzyme Q6, monooxygenase
histone H4 transcription factor
ring finger protein 227
lysophosphatidylcholine acyltransferase 2
strawberry notch homolog 1
transmembrane protein 267
carbohydrate sulfotransferase 11
zinc finger protein 513
chromosome 11 open reading frame 71
bromodomain containing 9
SNF2 histone linker PHD RING helicase
zinc finger matrix-type 5
ADAM metalloproteinase with thrombospondin type 1 motif 5
GRAM domain containing 1C
ATPase H⁺ transporting V0 subunit e2
acyl-CoA thioesterase 11
ELAV like RNA binding protein 2
family with sequence similarity 241 member B
Myb/SANT DNA binding domain containing 4 with coiled-coils
nucleolar protein 10
galectin 4
ORMDL sphingolipid biosynthesis regulator 2
family with sequence similarity 209 member A
component of oligomeric golgi complex 6
novel C2H2 type zinc finger protein
NHP2 ribonucleoprotein
transcription factor 7 like 2
armadillo repeat containing 1
microtubule associated protein 1B
ectonucleotide pyrophosphatase/phosphodiesterase 3
phospholipase A2 group IVA
PRELI domain containing 1
CCR4-NOT transcription complex subunit 8
scavenger receptor class F member 2
dipeptidyl peptidase like 6
zinc finger protein 566
kinase suppressor of ras 2

dynein axonemal light chain 1
transmembrane serine protease 13
ADNP homeobox 2
WD repeat domain 70
von Hippel-Lindau tumor suppressor
nuclear receptor binding protein 2
PR/SET domain 15
eukaryotic translation initiation factor 2 alpha kinase 4
thioredoxin reductase 2
G protein subunit beta 1
golgi integral membrane protein 4
DnaJ heat shock protein family (Hsp40) member C18
zinc finger protein 133
actin beta
NUAK family kinase 1
ATP synthase mitochondrial F1 complex assembly factor 1
MYC associated factor X
synaptophysin like 1
TBC1 domain family member 19
zinc finger protein 408
diphthamine biosynthesis 6
sodium voltage-gated channel alpha subunit 9
TNF superfamily member 15
DExH-box helicase 29
superoxide dismutase 1
pre T cell antigen receptor alpha
myogenesis regulating glycosidase (putative)
WD repeat domain 6
poly(U) binding splicing factor 60
WD repeat domain 36
PWWP domain containing 2B
leucine rich repeat containing 59
FCH and mu domain containing endocytic adaptor 1
zinc finger CCHC-type containing 4
LEO1 homolog, Paf1/RNA polymerase II complex component
serine hydrolase like 2
RNA binding fox-1 homolog 1
olfactory receptor family 52 subfamily K member 1
armadillo repeat containing 7
fibronectin type III and SPRY domain containing 1 like
ring finger protein 25
GSG1 like
StAR related lipid transfer domain containing 9
CCZ1 homolog, vacuolar protein trafficking and biogenesis associated
G protein subunit alpha i2
AKT serine/threonine kinase 1

RAN guanine nucleotide release factor
THUMP domain containing 1
dynein regulatory complex subunit 7
glucosamine-6-phosphate deaminase 2
RNA polymerase II associated protein 3
cytochrome c oxidase subunit 7A2
RecQ like helicase 5
potassium voltage-gated channel subfamily H member 8
zinc finger protein 367
transmembrane protein 178B
tripartite motif containing 23
solute carrier family 23 member 1
novel protein
complement C1r
suppressor of cytokine signaling 2
A-kinase anchoring protein 12
polypeptide N-acetylgalactosaminyltransferase 11
adenosine monophosphate deaminase 2
synaptotagmin 17
phosphatidylinositol-4-phosphate 5-kinase like 1
cofilin 2
DNA helicase B
cell division cycle 16
serpin family B member 9
prolyl endopeptidase like
phosphatase and actin regulator 3
glyoxylate and hydroxypyruvate reductase
cytoplasmic FMR1 interacting protein 1
prostaglandin E receptor 3
peroxiredoxin 3
protein kinase N1
inositol-trisphosphate 3-kinase C
novel transcript
sirtuin 7
tubulin folding cofactor B
proteasomal ATPase associated factor 1
eukaryotic translation initiation factor 3 subunit B
tectonic family member 2
transmembrane protein 236
gon-4 like
thrombospondin 4
zinc finger protein 200
dermatan sulfate epimerase
claudin domain containing 1
adrenoceptor alpha 2A
DNA topoisomerase II alpha

HECT domain and ankyrin repeat containing E3 ubiquitin protein ligase 1
chromosome 8 open reading frame 76
ganglioside induced differentiation associated protein 1
iron responsive element binding protein 2
major facilitator superfamily domain containing 9
upregulator of cell proliferation
Aly/REF export factor
stimulator of interferon response cGAMP interactor 1
SPOC domain containing 1
F-box protein 45
ribitol xylosyltransferase 1
cyclic nucleotide gated channel subunit beta 3
talin rod domain containing 1
XK related 7
D-aspartate oxidase
syntabulin
C-C motif chemokine ligand 4
calpain 8
calnexin
signal sequence receptor subunit 1
ubiquitin specific peptidase 25
SLIT-ROBO Rho GTPase activating protein 1
transcriptional adaptor 1
3-hydroxy-3-methylglutaryl-CoA lyase
membrane bound transcription factor peptidase, site 1
ribosomal oxygenase 2
BTB domain containing 2
SLX4 structure-specific endonuclease subunit
mutS homolog 3
translocated promoter region, nuclear basket protein
CD38 molecule
eukaryotic translation initiation factor 3 subunit G
RNA polymerase II subunit M
transglutaminase 1
zinc finger CCCH-type containing 6
Novel protein
activator of basal transcription 1
tripartite motif containing 16
ATPase phospholipid transporting 8A2
transmembrane 9 superfamily member 4
SEC31 homolog B, COPII coat complex component
growth arrest specific 8
ras homolog family member U
tumor protein p63
yippee like 2
phosphatidylethanolamine binding protein 4

zinc finger protein 575
DNA polymerase delta 1, catalytic subunit
casein kinase 1 gamma 3
SWIM-type zinc finger 7 associated protein 1
LHFPL tetraspan subfamily member 5
splicing factor 3b subunit 2
elongation factor Tu GTP binding domain containing 2
secretory carrier membrane protein 1
X-C motif chemokine ligand 1
cholinergic receptor nicotinic alpha 5 subunit
pleckstrin homology and RUN domain containing M1
DEAH-box helicase 16
tyrosyl-tRNA synthetase 2
nidogen 1
BCAR3 adaptor protein, NSP family member
Ras association domain family member 6
checkpoint kinase 2
RUN and SH3 domain containing 1
parkin coregulated like
SMAD family member 5
ubiquitin domain containing 2
novel protein
propionyl-CoA carboxylase subunit alpha
diazepam binding inhibitor, acyl-CoA binding protein
BTG anti-proliferation factor 2
tetratricopeptide repeat domain 6
pleckstrin homology domain containing N1
interleukin 17 receptor B
gasdermin E
H2B clustered histone 6
endogenous retrovirus group K3 member 1
actin like 10
asparagine synthetase domain containing 1
apolipoprotein L3
transmembrane protein 18
meiotic double-stranded break formation protein 1
cytochrome c oxidase assembly factor 4 homolog
transcription factor AP-2 epsilon
C-type lectin domain family 18 member B
G protein-coupled receptor 15
ribosomal protein L36a like
ring finger protein 144A
zinc finger MYM-type containing 4
mindbomb E3 ubiquitin protein ligase 2
syntaxin 5
CXXC repeat containing interactor of PDZ3 domain

protein tyrosine phosphatase non-receptor type 6
dedicator of cytokinesis 3
ARVCF delta catenin family member
tRNA methyltransferase 61A
ring finger protein 13
zinc finger and BTB domain containing 38
RALY RNA binding protein like
solute carrier family 25 member 1
LUC7 like
tubulin gamma complex associated protein 3
endonuclease/exonuclease/phosphatase family domain containing 1
pleckstrin homology and RUN domain containing M2
novel protein
zinc finger protein 14
coronin 6
nuclear factor of activated T cells 3
GRAM domain containing 2B
neuraminidase 1
homeodomain interacting protein kinase 2
SLIT-ROBO Rho GTPase activating protein 2B
adaptor related protein complex 1 associated regulatory protein
zinc finger protein 428
zinc finger protein 169
KH RNA binding domain containing, signal transduction associated 3
cyclin dependent kinase 2 associated protein 1
zinc finger protein 530
leukocyte immunoglobulin like receptor B5
lysine acetyltransferase 6B
zinc finger protein 853
RNA binding motif protein 11
potassium voltage-gated channel subfamily E regulatory subunit 1
THAP domain containing 7
potassium channel tetramerization domain containing 17
family with sequence similarity 120B
solute carrier family 7 member 1
kelch domain containing 8B
EF-hand calcium binding domain 7
SAGA complex associated factor 29
dynein axonemal heavy chain 7
novel transcript
zinc finger and SCAN domain containing 29
vacuole membrane protein 1
solute carrier family 38 member 2
cytochrome c oxidase assembly factor 7 (putative)
novel protein, readthrough VMAC-CAPS
leukocyte associated immunoglobulin like receptor 2

zinc finger protein 92
cyclin dependent kinase 2 associated protein 2
NADH:ubiquinone oxidoreductase subunit B6
novel protein
CUB and Sushi multiple domains 3
coiled-coil domain containing 17
VPS37B subunit of ESCRT-I
adenosine deaminase like
C-X9-C motif containing 1
gonadotropin releasing hormone 2
zona pellucida like domain containing 1
coiled-coil domain containing 68
adducin 3
ribosome biogenesis regulator 1 homolog
calcium activated nucleotidase 1
modulator of apoptosis 1
RP9 pre-mRNA splicing factor
YY1 transcription factor
phytanoyl-CoA 2-hydroxylase
sorting nexin 22
protein O-mannosyltransferase 2
LSM6 homolog, U6 small nuclear RNA and mRNA degradation associated
kinesin family member 13B
DOT1 like histone lysine methyltransferase
D-box binding PAR bZIP transcription factor
RB binding protein 6, ubiquitin ligase
insulin like growth factor 1
calcium/calmodulin dependent protein kinase II inhibitor 1
DnaJ heat shock protein family (Hsp40) member C24
ubiquitin specific peptidase 19
Sin3A associated protein 18
phosphatidylinositol transfer protein membrane associated 1
WD repeat and HMG-box DNA binding protein 1
netrin G2
coiled-coil domain containing 138
serpin family E member 1
ubiquitin protein ligase E3 component n-recognin 4
protein tyrosine phosphatase non-receptor type 1
zinc finger protein 611
novel transcript
nucleobindin 2
hyperpolarization activated cyclic nucleotide gated potassium channel 3
exonuclease 5
UTP18 small subunit processome component
signal-induced proliferation-associated 1
armadillo like helical domain containing 3

peptidylglycine alpha-amidating monooxygenase
serpin family E member 2
transmembrane channel like 4
nuclear factor I B
peptidylprolyl isomerase E
intracisternal A particle-promoted polypeptide
ubiquitination factor E4B
pleckstrin homology and RhoGEF domain containing G2
aldehyde dehydrogenase 3 family member B1
nucleolar protein 7
phosphatidylinositol transfer protein beta
ring finger protein 122
histone deacetylase 1
proteasome 26S subunit, ATPase 6
myocardin related transcription factor A
small lysine rich protein 1
Rab9 effector protein with kelch motifs
TATA-box binding protein associated factor 6 like
protection of telomeres 1
delta/notch like EGF repeat containing
H2B clustered histone 12
eukaryotic translation initiation factor 4E binding protein 2
myosin VA
BMS1 ribosome biogenesis factor
tumor protein p73
tetratricopeptide repeat domain 9C
chromosome 5 open reading frame 15
proteasome assembly chaperone 1
plasmolipin
apoptotic peptidase activating factor 1
catenin alpha 2
surfeit 4
gamma-aminobutyric acid type A receptor subunit gamma1
uroplakin 3A
arylsulfatase B
sphingolipid transporter 2
cysteine rich secretory protein LCCL domain containing 2
SPARC related modular calcium binding 1
ubiquitin protein ligase E3B
abraxas 1, BRCA1 A complex subunit
gamma-glutamyl carboxylase
intercellular adhesion molecule 3
zinc finger and BTB domain containing 21
novel protein
solute carrier family 4 member 8
zinc finger protein 568

chaperonin containing TCP1 subunit 4
zinc finger protein 621
TIMM23B-AGAP6 readthrough (NMD candidate)
peroxisomal biogenesis factor 11 alpha
eukaryotic translation initiation factor 1A domain containing
zinc finger and BTB domain containing 25
B double prime 1, subunit of RNA polymerase III transcription initiation factor IIIB
maternal embryonic leucine zipper kinase
cell division cycle 5 like
RBM14-RBM4 readthrough
dihydrodiol dehydrogenase
collagen type VI alpha 1 chain
protein tyrosine kinase 7 (inactive)
negative elongation factor complex member B
myosin XVIIIa
ring finger protein 220
formin like 3
ADP ribosylation factor guanine nucleotide exchange factor 2
zinc finger protein 135
homogentisate 1,2-dioxygenase
zinc finger protein 487
C-C motif chemokine ligand 5
polyhomeotic homolog 2
Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA synthase
RNA polymerase II subunit H
platelet activating factor receptor
WASH complex subunit 5
TNF receptor superfamily member 10a
CDC like kinase 4
ribosomal protein S15a
pleckstrin homology domain interacting protein
golgin A7 family member B
olfactomedin 1
mitochondrial translational initiation factor 2
adaptor related protein complex 3 subunit delta 1
family with sequence similarity 118 member A
adenylate cyclase 2
zinc finger protein 579
myoferlin
solute carrier family 26 member 11
Jun dimerization protein 2
nectin cell adhesion molecule 3
RFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
membrane spanning 4-domains A2
F-box and WD repeat domain containing 7
MPV17 mitochondrial inner membrane protein like 2

chromosome 11 open reading frame 95
F-box protein 4
translocase of inner mitochondrial membrane 8 homolog B
solute carrier family 25 member 36
thrombospondin type 1 domain containing 1
G-patch domain and ankyrin repeats 1
zinc finger protein 589
cyclin G2
major histocompatibility complex, class I, A
elongation factor for RNA polymerase II
phosphotyrosine interaction domain containing 1
KIAA0040
MAF bZIP transcription factor B
lysophospholipase like 1
TRAF-type zinc finger domain containing 1
zinc finger and BTB domain containing 24
neuroligin 1
GTP binding protein 8 (putative)
mediator complex subunit 29
free fatty acid receptor 4
zinc finger protein 461
single-pass membrane protein with coiled-coil domains 4
zinc finger protein 554
suppressor of IKBKE 1
anoctamin 5
zinc finger protein 765
RAB15, member RAS oncogene family
FAU ubiquitin like and ribosomal protein S30 fusion
microtubule associated serine/threonine kinase like
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
PVR cell adhesion molecule
interferon regulatory factor 3
zinc finger protein 808
insulin receptor
kelch like ECH associated protein 1
adaptor related protein complex 4 subunit beta 1
NIPBL cohesin loading factor
transmembrane protein 273
potassium channel tetramerization domain containing 6
EI24 autophagy associated transmembrane protein
potassium voltage-gated channel modifier subfamily G member 2
lysophosphatidic acid receptor 3
scaffold attachment factor B
SS18L1 subunit of BAF chromatin remodeling complex
pterin-4 alpha-carbinolamine dehydratase 2
paraspeckle component 1

solute carrier family 38 member 7
N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase
family with sequence similarity 169 member A
TOR signaling pathway regulator
protein kinase C substrate 80K-H
SHC binding and spindle associated 1
RAD51 associated protein 1
histone deacetylase 10
phosphatidylinositol-3,4,5-trisphosphate dependent Rac exchange factor 1
protein tyrosine phosphatase receptor type D
sorbin and SH3 domain containing 1
NIMA related kinase 11
interaction protein for cytohesin exchange factors 1
UTP15 small subunit processome component
NADH:ubiquinone oxidoreductase subunit A12
insulin induced gene 2
small nuclear ribonucleoprotein 13
multiple EGF like domains 11
SAP30 binding protein
CDK5 regulatory subunit associated protein 1 like 1
transgelin 2
SEC14 and spectrin domain containing 1
microtubule associated protein 1 light chain 3 beta 2
protein phosphatase 1 catalytic subunit gamma
calsyntenin 2
CYFIP related Rac1 interactor A
CCCTC-binding factor
EMAP like 2
NOP16 nucleolar protein
SMG5 nonsense mediated mRNA decay factor
integrin subunit alpha 5
JRK like
COPI coat complex subunit alpha
chromosome 14 open reading frame 28
PTPRF interacting protein alpha 2
protein kinase D3
family with sequence similarity 234 member B
MCF.2 cell line derived transforming sequence like
exosome component 8
glucocorticoid modulatory element binding protein 1
asteroid homolog 1
reticulocalbin 1
ribonuclease P/MRP subunit p40
MYCL proto-oncogene, bHLH transcription factor
growth arrest and DNA damage inducible beta
zinc finger CCCH-type containing 8

family with sequence similarity 32 member A
KIAA1143
zinc finger protein 224
MAPK activated protein kinase 5
histone deacetylase 2
triokinase and FMN cyclase
PHD finger protein 19
mitochondrial ribosomal protein L41
neuregulin 3
extra spindle pole bodies like 1, separase
cyclin Y like 1
DnaJ heat shock protein family (Hsp40) member C15
coiled-coil domain containing 170
leucine rich repeat containing 34
zinc finger protein 804A
translocase of inner mitochondrial membrane 17A
pre-mRNA processing factor 38B
FKBP prolyl isomerase 1C
proteasome 20S subunit beta 5
pterin-4 alpha-carbinolamine dehydratase 1
THO complex 3
ribosomal protein L39 like
WD repeat domain 82
Ras association domain family member 4
transmembrane 9 superfamily member 3
zinc finger protein 256
KH domain containing 4, pre-mRNA splicing factor
Rho GTPase activating protein 21
WD repeat domain 37
potassium calcium-activated channel subfamily N member 4
chromosome 1 open reading frame 127
glucosamine-6-phosphate deaminase 1
histidine decarboxylase
H2B clustered histone 5
annexin A1
MAP7 domain containing 1
SEC11 homolog A, signal peptidase complex subunit
golgi brefeldin A resistant guanine nucleotide exchange factor 1
calpain 14
protein inhibitor of activated STAT 4
advanced glycosylation end-product specific receptor
zinc finger protein 555
cystatin C
reticulophagy regulator 1
mutS homolog 2
ATR interacting protein

family with sequence similarity 126 member A
solute carrier family 26 member 2
transmembrane protein 266
TNF receptor superfamily member 10d
RAB37, member RAS oncogene family
activating transcription factor 4
leucine rich repeats and calponin homology domain containing 3
SREBF chaperone
cyclin dependent kinase 9
pleckstrin homology and RhoGEF domain containing G5
eyes shut homolog
G protein-coupled receptor 107
5', 3'-nucleotidase, cytosolic
cancer susceptibility 1
SRY-box transcription factor 4
2'-deoxynucleoside 5'-phosphate N-hydrolase 1
TRIM59 and iFT80 readthrough
ceramide kinase like
transducin beta like 2
solute carrier family 35 member A4
diacylglycerol kinase iota
transmembrane protein 138
centrosomal protein 57
BCS1 homolog, ubiquinol-cytochrome c reductase complex chaperone
RNA binding motif protein 45
ubiquitin specific peptidase 44
jade family PHD finger 1
SAYSVFN motif domain containing 1
InaF motif containing 2
CD4 molecule
TATA-box binding protein associated factor 6
calcium and integrin binding family member 2
peptidylprolyl isomerase A
general transcription factor Iii
3-hydroxyanthranilate 3,4-dioxygenase
TatD DNase domain containing 2
prostaglandin F2 receptor inhibitor
protocadherin 12
fatty acid desaturase 2
programmed cell death 1 ligand 2
pericentrin
N-acetylated alpha-linked acidic dipeptidase like 2
coiled-coil domain containing 51
RUN domain containing 3B
charged multivesicular body protein 2A
replication timing regulatory factor 1

SH3 domain and tetratricopeptide repeats 1
A-kinase interacting protein 1
plasminogen activator, urokinase receptor
zinc finger FYVE-type containing 9
PCI domain containing 2
5-azacytidine induced 2
exostosin like glycosyltransferase 3
upstream transcription factor 2, c-fos interacting
chondroitin sulfate synthase 3
chitinase 3 like 2
glutamate metabotropic receptor 7
ring finger protein 139
calpain 10
myeloid leukemia factor 2
succinate dehydrogenase complex subunit C
mitochondrial ribosomal protein L42
BCL2 interacting protein like
CHURC1-FNTB readthrough
suppressor of cytokine signaling 4
MON1 homolog A, secretory trafficking associated
SPRY domain containing 3
RNA binding motif single stranded interacting protein 2
G protein-coupled receptor 108
methyl-CpG binding domain protein 5
small nuclear ribonucleoprotein polypeptides B and B1
ETS variant transcription factor 5
zinc ribbon domain containing 2
grainyhead like transcription factor 1
zinc finger protein 345
myomesin 2
ATPase phospholipid transporting 8A1
secretogranin V
mannosidase alpha class 2B member 2
ATPase Na⁺/K⁺ transporting subunit alpha 4
essential meiotic structure-specific endonuclease 1
growth arrest and DNA damage inducible gamma
WD repeat domain 12
trio Rho guanine nucleotide exchange factor
TRAF3 interacting protein 1
FUS RNA binding protein
protein tyrosine phosphatase non-receptor type 23
ARV1 homolog, fatty acid homeostasis modulator
potassium calcium-activated channel subfamily M regulatory beta subunit 4
glycerol kinase 5
neuronal vesicle trafficking associated 1
major facilitator superfamily domain containing 2A

progesterone and adipoQ receptor family member 4
MORN repeat containing 3
BAF chromatin remodeling complex subunit BCL11B
olfactory receptor family 52 subfamily N member 4 (gene/pseudogene)
sphingomyelin phosphodiesterase 3
zinc finger protein 304
bromodomain containing 8
5-hydroxytryptamine receptor 6
estrogen related receptor gamma
G-patch domain containing 8
aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase
serine/threonine kinase 11 interacting protein
mediator complex subunit 10
tetraspanin 14
ribosomal RNA processing 36
Src like adaptor
zinc finger protein 225
sorting nexin 1
calcium/calmodulin dependent protein kinase kinase 1
adaptor related protein complex 5 subunit beta 1
phosphatidylinositol glycan anchor biosynthesis class G
heparan sulfate 6-O-sulfotransferase 3
DEAD-box helicase 1
MER proto-oncogene, tyrosine kinase
solute carrier family 25 member 23
mitochondrial ribosomal protein L24
solute carrier family 2 member 9
transmembrane protein 147
nuclear receptor coactivator 7
amion associated transmembrane protein
THAP domain containing 3
HORMA domain containing 1
protein kinase C epsilon
NADH:ubiquinone oxidoreductase core subunit S1
ribosomal protein L28
interleukin 6 signal transducer
zinc finger protein 501
ADP ribosylation factor like GTPase 4D
LRP2 binding protein
YLP motif containing 1
membrane associated guanylate kinase, WW and PDZ domain containing 1
tubulin folding cofactor E
carbonic anhydrase 10
BMI1 proto-oncogene, polycomb ring finger
peroxisomal biogenesis factor 1
SCY1 like pseudokinase 1

interleukin 20 receptor subunit beta
zinc finger protein 253
CDC28 protein kinase regulatory subunit 2
heat shock protein family D (Hsp60) member 1
integrin subunit alpha 6
ankyrin 3
serine peptidase inhibitor, Kunitz type 2
coiled-coil domain containing 127
stearoyl-CoA desaturase
leucine rich repeats and immunoglobulin like domains 1
kinetochore associated 1
mitochondrial ribosomal protein L33
ess-2 splicing factor homolog
golgi glycoprotein 1
ilvB acetolactate synthase like
transient receptor potential cation channel subfamily V member 1
doublecortin domain containing 1
transmembrane protein 14C
autophagy related 3
serine protease 3
ribosomal protein L31
leucine rich repeat protein 1
RNA 2',3'-cyclic phosphate and 5'-OH ligase
interferon regulatory factor 2 binding protein like
zinc finger protein 160
cysteine rich protein 2
aldo-keto reductase family 7 member A2
mannosidase alpha class 2C member 1
proline rich 29
cathepsin C
ATP/GTP binding protein like 4
solute carrier organic anion transporter family member 4A1
phosphatidylethanolamine N-methyltransferase
CD163 molecule
methylcrotonoyl-CoA carboxylase 1
RAB38, member RAS oncogene family
CD1e molecule
MYG1 exonuclease
zinc finger protein 251
cadherin EGF LAG seven-pass G-type receptor 3
Yip1 domain family member 2
cytochrome c oxidase subunit 7C
zinc finger protein 708
ribosomal protein L32
abhydrolase domain containing 10, depalmitoylase
HECT domain E3 ubiquitin protein ligase 3

RING1 and YY1 binding protein
signal peptidase complex subunit 1
RIO kinase 1
mitochondrial pyruvate carrier 1
zinc finger and SCAN domain containing 21
Yip1 interacting factor homolog A, membrane trafficking protein
MICAL like 2
syntrophin gamma 1
abl interactor 2
multiple coagulation factor deficiency 2, ER cargo receptor complex subunit
solute carrier family 25 member 38
phospholipase A and acyltransferase 5
CDV3 homolog
ATP binding cassette subfamily B member 10
inhibitor of growth family member 5
zinc finger protein 563
protein kinase AMP-activated catalytic subunit alpha 1
histone acetyltransferase 1
TBC1 domain family member 13
nicotinamide riboside kinase 1
SPTY2D1 opposite strand
VPS37C subunit of ESCRT-I
tigger transposable element derived 2
cell migration inducing hyaluronidase 1
zinc finger CCHC-type containing 7
adenylate kinase 9
zinc finger and BTB domain containing 41
von Willebrand factor
peroxisome proliferator activated receptor delta
selectin P ligand
galactose-3-O-sulfotransferase 4
NADH:ubiquinone oxidoreductase core subunit S2
ATP synthase membrane subunit e
glutaredoxin 2
dihydrouridine synthase 4 like
FA complementation group C
taspase 1
sirtuin 2
ankyrin repeat domain 46
zinc finger protein 529
leiomodrin 1
GRB2 related adaptor protein like
NUS1 dehydrolipoyl diphosphate synthase subunit
collagen type XIX alpha 1 chain
leucine rich repeat neuronal 2
chromatin assembly factor 1 subunit A

mitogen-activated protein kinase kinase kinase 5
Cdk5 and Abl enzyme substrate 1
phosphodiesterase 6B
ribosomal protein S14
lipase C, hepatic type
galectin 9C
WD repeat domain 92
HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2
focadhesin
IKAROS family zinc finger 4
centromere protein F
CREB regulated transcription coactivator 2
ribosomal protein S11
hydroxysteroid 17-beta dehydrogenase 13
zinc finger protein 48
homeobox containing 1
parvalbumin
insulin receptor substrate 2
dihydrofolate reductase 2
mitochondrial transcription termination factor 4
limbic system associated membrane protein
abhydrolase domain containing 17B, depalmitoylase
microtubule associated protein 7
TNF receptor superfamily member 10b
CXXC motif containing zinc binding protein
leucine rich repeat transmembrane neuronal 4
arachidonate 15-lipoxygenase
multiple EGF like domains 8
RUS family member 1
PDGFA associated protein 1
methyltransferase like 17
Grid2 interacting protein
eukaryotic translation elongation factor 1 delta
XRCC1 N-terminal domain containing 1-like
cannabinoid receptor interacting protein 1
lectin, mannose binding 2
opioid growth factor receptor like 1
transmembrane protein 253
integrator complex subunit 13
major histocompatibility complex, class I, B
DENN domain containing 11
integrin subunit alpha 1
zinc finger protein 785
ABO, alpha 1-3-N-acetylgalactosaminyltransferase and alpha 1-3-galactosyltransferase
zinc finger protein 358
BTB domain containing 6

vitrin
chromosome 14 open reading frame 119
phospholipase D family member 3
zinc finger protein 771
zinc finger CCHC-type containing 8
proline rich transmembrane protein 1
polo like kinase 3
solute carrier family 6 member 16
SPC25 component of NDC80 kinetochore complex
general transcription factor IIIC subunit 3
THAP domain containing 1
EvC ciliary complex subunit 1
LIM zinc finger domain containing 2
novel protein
eukaryotic translation initiation factor 2B subunit beta
secretagogin, EF-hand calcium binding protein
amyloid beta precursor protein binding protein 2
McKusick-Kaufman syndrome
solute carrier family 30 member 9
zinc finger and SCAN domain containing 12
heterogeneous nuclear ribonucleoprotein K
C-X-C motif chemokine receptor 2
cyclin dependent kinase 7
mitogen-activated protein kinase kinase kinase 11
replication factor C subunit 4
C-type lectin domain family 2 member L
cystathionine gamma-lyase
protein phosphatase 2C like domain containing 1
zinc finger CCCH-type containing 7A
transmembrane protein 234
mucin 16, cell surface associated
prolyl-tRNA synthetase 2, mitochondrial
protein disulfide isomerase family A member 5
IQ motif containing N
lin-7 homolog B, crumbs cell polarity complex component
protein prenyltransferase alpha subunit repeat containing 1
Myb related transcription factor, partner of profilin
transcription elongation factor A2
ferredoxin reductase
RLF zinc finger
chromosome 12 open reading frame 42
BICD family like cargo adaptor 2
distal membrane arm assembly complex 2 like
regulator of G protein signaling 1
nuclear receptor subfamily 1 group H member 3
VPS16 core subunit of CORVET and HOPS complexes

thioredoxin domain containing 16
interleukin 15
vesicle transport through interaction with t-SNAREs 1A
centromere protein H
phosphatidylinositol glycan anchor biosynthesis class X
zinc finger protein 571
RNA binding motif protein 26
integrator complex subunit 2
centromere protein P
argonaute RISC component 1
enolase-phosphatase 1
zinc finger protein 546
immunoglobulin mu DNA binding protein 2
ring finger protein 167
zinc finger protein 549
calcium sensing receptor
IMP U3 small nucleolar ribonucleoprotein 3
ArfGAP with GTPase domain, ankyrin repeat and PH domain 2
peroxisomal biogenesis factor 14
vacuolar protein sorting 36 homolog
membrane palmitoylated protein 2
glutathione S-transferase kappa 1
regulating synaptic membrane exocytosis 1
methylphosphate capping enzyme
teneurin transmembrane protein 2
crystallin beta-gamma domain containing 2
zinc finger protein 85
NADH:ubiquinone oxidoreductase subunit AB1
fibrillarin
testis, prostate and placenta expressed
solute carrier family 49 member 3
membrane bound O-acyltransferase domain containing 7
ATP synthase membrane subunit c locus 1
mitogen-activated protein kinase kinase kinase kinase 3
NME/NM23 nucleoside diphosphate kinase 6
solute carrier family 25 member 16
macrophage stimulating 1
tRNA nucleotidyl transferase 1
tRNA-histidine guanylyltransferase 1 like
pleckstrin homology domain containing A1
leucine zipper tumor suppressor family member 3
beta-1,3-galactosyltransferase 4
serine protease 27
ADP ribosylation factor like GTPase 8B
ankyrin repeat and fibronectin type III domain containing 1
ALG9 alpha-1,2-mannosyltransferase

ubiquitin conjugating enzyme E2 N
dihydrofolate reductase
zinc finger protein 736
polypeptide N-acetylgalactosaminyltransferase 17
cytochrome P450 family 4 subfamily V member 2
centromere protein T
sidekick cell adhesion molecule 1
ADAM metallopeptidase domain 23
deleted in lymphocytic leukemia 7
ankyrin repeat domain 12
activin A receptor type 2B
small nuclear ribonucleoprotein polypeptide G
proline rich 14
FRY like transcription coactivator
nucleolar protein 8
potassium channel tetramerization domain containing 13
leucine rich repeat containing 4C
sperm associated antigen 17
FosB proto-oncogene, AP-1 transcription factor subunit
SMAD specific E3 ubiquitin protein ligase 1
HPS6 biogenesis of lysosomal organelles complex 2 subunit 3
BRCA2 and CDKN1A interacting protein
AT-rich interaction domain 5B
mannosidase alpha class 1C member 1
NIPA magnesium transporter 2
stearoyl-CoA desaturase 5
G0/G1 switch 2
aminoacyl tRNA synthetase complex interacting multifunctional protein 1
nuclear pore complex interacting protein family member B5
coiled-coil domain containing 114
H2A clustered histone 11
KIAA0556
MYCBP associated protein
CD300a molecule
mediator complex subunit 1
ZHX1-C8orf76 readthrough
eukaryotic translation initiation factor 3 subunit I
leucine rich repeat containing 39
membrane palmitoylated protein 6
carboxypeptidase A6
FRY microtubule binding protein
plasmalemma vesicle associated protein
ArfGAP with GTPase domain, ankyrin repeat and PH domain 4
Rho GTPase activating protein 23
C-type lectin domain family 12 member A
phospholipid phosphatase 1

ribosomal protein SA
G protein subunit alpha 13
THO complex 1
pyruvate dehydrogenase complex component X
ring finger and FYVE like domain containing E3 ubiquitin protein ligase
GLI pathogenesis related 1
arylsulfatase family member K
HIC ZBTB transcriptional repressor 1
ras homolog family member C
transmembrane protein 30A
slit guidance ligand 3
androglobin
tripartite motif containing 16 like
actin alpha 2, smooth muscle
ribosomal protein S13
inositol 1,4,5-trisphosphate receptor type 1
testis specific serine kinase 4
calcitonin related polypeptide beta
acyl-CoA synthetase family member 3
protein phosphatase 1 regulatory subunit 15A
microspherule protein 1
decapping exoribonuclease
crystallin zeta
chromosome 7 open reading frame 50
EMAP like 4
DENN domain containing 4B
coiled-coil and C2 domain containing 2A
sodium/potassium transporting ATPase interacting 3
transformer 2 beta homolog
protein phosphatase 6 catalytic subunit
phosphodiesterase 1A
matrix metalloproteinase 28
UDP glycosyltransferase 8
RAS guanyl releasing protein 2
zinc finger and BTB domain containing 3
solute carrier family 39 member 14
glutamate ionotropic receptor kainate type subunit 5
cell division cycle associated 2
PPARG coactivator 1 beta
serine/threonine kinase 17a
transient receptor potential cation channel subfamily M member 3
decaprenyl diphosphate synthase subunit 2
gamma-aminobutyric acid type A receptor subunit beta1
solute carrier family 3 member 2
phosphatidylinositol glycan anchor biosynthesis class N
adenosylhomocysteinase like 2

interphotoreceptor matrix proteoglycan 2
shisa like 2A
nucleoporin 37
transmembrane protein 243
myosin light chain 5
interferon alpha inducible protein 27 like 1
eukaryotic translation initiation factor 5B
prohibitin 2
RUN and FYVE domain containing 2
far upstream element binding protein 3
pre-mRNA processing factor 38A
GLIS family zinc finger 3
Gse1 coiled-coil protein
RAB5 interacting factor
BLOC1S5-TXNDC5 readthrough (NMD candidate)
butyrophilin like 3
DEAH-box helicase 33
HBS1 like translational GTPase
tigger transposable element derived 6
family with sequence similarity 207 member A
roundabout guidance receptor 1
phospholipid phosphatase 6
pyruvate dehydrogenase kinase 2
GRB2 binding adaptor protein, transmembrane
novel protein
intraflagellar transport associated protein
chromosome 6 open reading frame 52
ASH1 like histone lysine methyltransferase
kinesin family member 23
C-C motif chemokine ligand 4 like 2
solute carrier family 37 member 2
DnaJ heat shock protein family (Hsp40) member C27
sperm associated antigen 9
Ski2 like RNA helicase
G protein-coupled receptor 89B
glutamate metabotropic receptor 8
zinc finger protein 541
major facilitator superfamily domain containing 8
tRNA splicing endonuclease subunit 2
caspase 8 associated protein 2
tRNA-yW synthesizing protein 1 homolog
nuclear receptor coactivator 2
ribonuclease P/MRP subunit p14
POM121 transmembrane nucleoporin C
SET and MYND domain containing 3
fatty acid desaturase 3

novel protein
apoptotic chromatin condensation inducer 1
cofilin 1
poly(A) binding protein interacting protein 2B
torsin family 1 member B
PYD and CARD domain containing
heparan sulfate-glucosamine 3-sulfotransferase 3B1
lysine demethylase 8
EF-hand calcium binding domain 8
zinc finger protein 91
complement C3
B cell linker
POU class 2 homeobox associating factor 1
Fc receptor like A
pleckstrin homology and RhoGEF domain containing G7
RELB proto-oncogene, NF-kB subunit
TNF receptor superfamily member 13B
SEL1L family member 3
C-X-C motif chemokine ligand 9
nuclear factor kappa B subunit 1
ring finger protein 207
Fc receptor like 5
sarcospan
CD79a molecule
major histocompatibility complex, class II, DO alpha
nuclear factor kappa B subunit 2
BLK proto-oncogene, Src family tyrosine kinase
B cell scaffold protein with ankyrin repeats 1
CD72 molecule
DENN domain containing 5B
CD22 molecule
TNF receptor superfamily member 13C
solute carrier family 17 member 9
transcription factor 4
zinc finger and BTB domain containing 32
follistatin like 4
prepronociceptin
oxysterol binding protein like 10
RAR related orphan receptor C
Spi-B transcription factor
RAB10, member RAS oncogene family
sialic acid binding Ig like lectin 6
immunoglobulin heavy variable 4-38-2-like
reticulon 2
STEAP family member 1B
regulator of hemoglobinization and erythroid cell expansion

NFKB inhibitor zeta
adhesion G protein-coupled receptor E1
Janus kinase 3
cordon-bleu WH2 repeat protein like 1
mannose receptor C-type 1
paired box 5
T cell leukemia/lymphoma 1A
syndecan 1
kelch like family member 14
kinase non-catalytic C-lobe domain containing 1
tetraspanin 3
phospholipid phosphatase 5
collagen type IV alpha 4 chain
heparanase
zinc finger CCCH-type containing 12A
marginal zone B and B1 cell specific protein
synaptopodin

N-ribosyldihydronicotinamide:quinone reductase 2
fatty acid 2-hydroxylase
leukotriene A4 hydrolase
kringle containing transmembrane protein 1
integral membrane protein 2C
ArfGAP with SH3 domain, ankyrin repeat and PH domain 1
niban apoptosis regulator 3
major histocompatibility complex, class II, DO beta
polypeptide N-acetylgalactosaminyltransferase 14
kazrin, periplakin interacting protein
nibrin
neurotensin receptor 1
matrix metalloproteinase 8
EBF transcription factor 1
toll like receptor 5
G protein-coupled receptor 84
BH3 interacting domain death agonist
leukocyte receptor tyrosine kinase
Pim-3 proto-oncogene, serine/threonine kinase
F-box and leucine rich repeat protein 5
U6 snRNA biogenesis phosphodiesterase 1
GDNF family receptor alpha 2
tectonin beta-propeller repeat containing 2
interferon lambda receptor 1
collagen type IV alpha 3 chain
basic helix-loop-helix family member e41
multiple C2 and transmembrane domain containing 1
HCK proto-oncogene, Src family tyrosine kinase

LARGE xylosyl- and glucuronyltransferase 1
sodium voltage-gated channel alpha subunit 3
chondroadherin
annexin A3
coagulation factor V
interleukin 4 receptor
lysyl oxidase like 1
sialic acid binding Ig like lectin 9
major histocompatibility complex, class II, DQ beta 2
multiple C2 and transmembrane domain containing 2
5'-3' exoribonuclease 2
CD44 molecule (Indian blood group)
BCL6 transcription repressor
FAM20A golgi associated secretory pathway pseudokinase
CD1c molecule
mitogen-activated protein kinase kinase kinase 20
transmembrane protein 45B
AF4/FMR2 family member 3
FGR proto-oncogene, Src family tyrosine kinase
adhesion G protein-coupled receptor E2
PHD finger protein 21A
S100 calcium binding protein A12
metal regulatory transcription factor 1
CXXC finger protein 5
myristoylated alanine rich protein kinase C substrate
laminin subunit alpha 5
transmembrane protein 156
INSC spindle orientation adaptor protein
HIVEP zinc finger 1
muscle RAS oncogene homolog
tetraspanin 13
nuclear GTPase, germinal center associated
derlin 3
solute carrier family 2 member 3
major histocompatibility complex, class II, DQ alpha 1
basic helix-loop-helix family member a15
glutamyl-tRNA amidotransferase subunit QRSL1
copine 5
CD19 molecule
protein kinase C delta
C-type lectin like 1
Fc fragment of IgE receptor II
membrane spanning 4-domains A1
olfactomedin 4
interferon regulatory factor 4
alkaline phosphatase, biomineralization associated

coronin 2B
MAX dimerization protein 3
LIM domain kinase 2
B and T lymphocyte associated
small glutamine rich tetratricopeptide repeat containing beta
SRSF protein kinase 1
mitogen-activated protein kinase 14
E2F transcription factor 5
C9orf72-SMCR8 complex subunit
asialoglycoprotein receptor 2
S100 calcium binding protein A8
GRAM domain containing 1A
interleukin 1 beta
P2RX5-TAX1BP3 readthrough (NMD candidate)
immunoglobulin lambda like polypeptide 5
immunoglobulin like domain containing receptor 1
adenosine monophosphate deaminase 3
endothelin converting enzyme 1
ST3 beta-galactoside alpha-2,3-sialyltransferase 2
peptidase inhibitor 3
haptoglobin
calcium voltage-gated channel subunit alpha1 E
signal transducing adaptor family member 1
cytokine dependent hematopoietic cell linker
leukocyte immunoglobulin like receptor A4
CEA cell adhesion molecule 3
pleckstrin
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3
prostate androgen-regulated mucin-like protein 1
lactotransferrin
hydroxycarboxylic acid receptor 3
DENN domain containing 5A
N-terminal EF-hand calcium binding protein 1
solute carrier family 38 member 11
coiled-coil domain containing 50
lamin B1
membrane bound O-acyltransferase domain containing 2
myosin X
protein tyrosine phosphatase receptor type E
tudor domain containing 9
mast cell expressed membrane protein 1
hexokinase 3
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1N (putative)
sphingomyelin phosphodiesterase acid like 3A
WEE1 G2 checkpoint kinase
Fc fragment of IgA receptor

NLR family CARD domain containing 4
bone marrow stromal cell antigen 1
synoviolin 1
major histocompatibility complex, class II, DQ beta 1
superoxide dismutase 2
ST3 beta-galactoside alpha-2,3-sialyltransferase 4
IKAROS family zinc finger 3
CAP-Gly domain containing linker protein 1
mitogen-activated protein kinase kinase kinase kinase 1
signal transducer and activator of transcription 5B
TLE family member 1, transcriptional corepressor
thioredoxin domain containing 11
adrenomedullin
zinc finger DHHC-type palmitoyltransferase 19
BAF chromatin remodeling complex subunit BCL11A
prokineticin 2
fms related receptor tyrosine kinase 3
minichromosome maintenance complex binding protein
major histocompatibility complex, class II, DP beta 1
S100 calcium binding protein A9
collagen type V alpha 3 chain
calpain 13
DNA damage induced apoptosis suppressor
cysteine rich transmembrane module containing 1
TNF receptor associated factor 3
family with sequence similarity 200 member B
vanin 2
SLAM family member 6
nuclear prelamin A recognition factor
zinc finger protein 438
joining chain of multimeric IgA and IgM
cochlin
CD177 molecule
influenza virus NS1A binding protein
transmembrane protein 185B
NEDD4 binding protein 1
coenzyme Q2, polyprenyltransferase
solute carrier family 37 member 3
dysferlin
glycogen phosphorylase L
ADAM metallopeptidase domain 28
transcription factor 7 like 2
secretory carrier membrane protein 5
collagen type IX alpha 2 chain
translocation associated membrane protein 2
CD36 molecule

intercellular adhesion molecule 1
minichromosome maintenance complex component 5
ADP ribosylation factor GTPase activating protein 3
folate receptor gamma
interferon gamma receptor 2
hydrogen voltage gated channel 1
rhopilin associated tail protein 1 like
lipocalin 2
plexin C1
protein phosphatase 4 regulatory subunit 2
neuregulin 1
LIM domains containing 1
valyl-tRNA synthetase 1
Fc fragment of IgE receptor Ig
growth differentiation factor 7
angiopoietin 1
flotillin 1
phospholipase D family member 4
lin-7 homolog A, crumbs cell polarity complex component
RAS guanyl releasing protein 3
adipocyte plasma membrane associated protein
solute carrier family 22 member 4
solute carrier family 2 member 6
adaptor related protein complex 3 subunit beta 2
junction adhesion molecule like
resistin
alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase
lymphocyte transmembrane adaptor 1
maltase-glucoamylase 2 (putative)
BCL3 transcription coactivator
glycogenin 1
DNA damage regulated autophagy modulator 1
MET transcriptional regulator MACC1
transmembrane protein 176B
TNF alpha induced protein 6
chondroitin polymerizing factor
leukocyte immunoglobulin like receptor A6
docking protein 7
flotillin 2
Fc fragment of IgG receptor IIa
CDC42 effector protein 3
VAMP associated protein A
prolylcarboxypeptidase
ADAM metallopeptidase domain 9
transmembrane O-mannosyltransferase targeting cadherins 1
tyrosyl-DNA phosphodiesterase 2

sulfotransferase family 1B member 1
cathelicidin antimicrobial peptide
family with sequence similarity 151 member B
solute carrier family 25 member 42
solute carrier family 26 member 8
kinesin family member 1B
CD58 molecule
interferon regulatory factor 8
cystatin F
ATP binding cassette subfamily C member 3
ubiquitin conjugating enzyme E2 D1
sorting nexin 22
cyclin and CBS domain divalent metal cation transport mediator 4
neutrophil cytosolic factor 4
karyopherin subunit alpha 1
complement C3b/C4b receptor 1 (Knops blood group)
ubiquitin specific peptidase 28
myelin protein zero like 1
insulin like 3
mitochondrial calcium uptake 1
docking protein 4
transient receptor potential cation channel subfamily M member 6
plasminogen activator, urokinase
phospholipase B1
poly(ADP-ribose) polymerase 1
reticulon 4
major histocompatibility complex, class II, DQ alpha 2
cornichon family AMPA receptor auxiliary protein 4
hydroxycarboxylic acid receptor 2
STEAP4 metalloreductase
myocyte enhancer factor 2C
activator of transcription and developmental regulator AUTS2
serpin family B member 10
membrane associated ring-CH-type finger 3
prostaglandin I2 receptor
fatty acyl-CoA reductase 1
Ral GEF with PH domain and SH3 binding motif 2
solute carrier family 25 member 44
TNF receptor superfamily member 17
SET binding protein 1
peptidyl arginine deiminase 2
ornithine aminotransferase
phosphate cytidylyltransferase 1, choline, alpha
caveolin 1
solute carrier organic anion transporter family member 3A1
SEC22 homolog B, vesicle trafficking protein (gene/pseudogene)

ZFP36 ring finger protein like 1
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
Mix paired-like homeobox
semaphorin 4A
FERM, ARH/RhoGEF and pleckstrin domain protein 2
lysophosphatidylcholine acyltransferase 3
G protein-coupled receptor class C group 5 member D
SET binding factor 2
C-type lectin domain family 4 member F
thioredoxin interacting protein
glutaminy-peptide cyclotransferase
solute carrier family 2 member 14
RAD23 homolog B, nucleotide excision repair protein
methyltransferase like 9
DnaJ heat shock protein family (Hsp40) member C3
TNF receptor associated factor 4
SOS Ras/Rho guanine nucleotide exchange factor 2
beta-1,4-galactosyltransferase 2
CEA cell adhesion molecule 8
chromosome 11 open reading frame 80
WD repeat and FYVE domain containing 3
glycerol-3-phosphate acyltransferase 3
solute carrier family 9 member A8
translocator protein
cAMP responsive element binding protein 5
hypoxia up-regulated 1
glycine decarboxylase
butyrophilin like 9
potassium inwardly rectifying channel subfamily J member 15
spermatogenesis and centriole associated 1
transmembrane and coiled-coil domains 3
zinc finger protein 296
prolyl 4-hydroxylase subunit alpha 2
ankyrin repeat domain 34B
integrin subunit alpha M
glycosyltransferase 1 domain containing 1
Fc receptor like 2
decapping enzyme, scavenger
tetratricopeptide repeat domain 9
phosphatidylinositol binding clathrin assembly protein
glycoprotein M6A
SH3KBP1 binding protein 1
oxysterol binding protein like 8
WD repeat domain 34
neural proliferation, differentiation and control 1
serpin family B member 1

nicotinamide phosphoribosyltransferase
POC1 centriolar protein B
methyl-CpG binding domain protein 2
tumor protein p53 inducible protein 11
abhydrolase domain containing 15
ITPRIP like 1
KIT proto-oncogene, receptor tyrosine kinase
5-oxoprolinase, ATP-hydrolysing
capping actin protein of muscle Z-line subunit alpha 2
adaptor related protein complex 1 subunit sigma 3
caspase recruitment domain family member 19
lysophosphatidic acid receptor 1
EH domain binding protein 1 like 1
ATP/GTP binding protein 1
transmembrane protein 260
ankyrin repeat and ubiquitin domain containing 1
cadherin EGF LAG seven-pass G-type receptor 1
RAB31, member RAS oncogene family
solute carrier family 9 member A1
myosin ID
integrin subunit beta 4
dehydrogenase/reductase 13
spermatogenesis associated serine rich 2
sodium voltage-gated channel beta subunit 1
ral guanine nucleotide dissociation stimulator like 4
thioredoxin reductase 1
enamelin
defensin alpha 3
niban apoptosis regulator 1
grancalcin
ribosomal RNA processing 12 homolog
ATPase H⁺ transporting V1 subunit C1
angiotensin II receptor associated protein
bone morphogenetic protein 8b
protein kinase C and casein kinase substrate in neurons 1
TNFAIP3 interacting protein 1
ficolin 1
TBC1 domain family member 8
oxidized low density lipoprotein receptor 1
piwi like RNA-mediated gene silencing 4
transmembrane protein 176A
protein disulfide isomerase family A member 4
solute carrier family 49 member 4
alanyl aminopeptidase, membrane
RELT TNF receptor
G protein subunit gamma 7

N-sulfoglucosamine sulfohydrolase
adhesion G protein-coupled receptor G3
X-C motif chemokine receptor 1
eukaryotic translation initiation factor 2 alpha kinase 3
dynein axonemal heavy chain 6
WD repeat domain 26
myotubularin related protein 11
sorting nexin 16
thyroid hormone receptor beta
golgi associated, gamma adaptin ear containing, ARF binding protein 2
procollagen C-endopeptidase enhancer 2
lysophosphatidic acid receptor 5
transcriptional repressor GATA binding 1
acyloxyacyl hydrolase
interferon alpha and beta receptor subunit 1
macrophage erythroblast attacher, E3 ubiquitin ligase
ras homolog family member Q
EMAP like 6
arachidonate 5-lipoxygenase
LY6/PLAUR domain containing 2
ATPase phospholipid transporting 9A (putative)
calpastatin
stromal antigen 3
late endosomal/lysosomal adaptor, MAPK and MTOR activator 5
phospholipase A2 group VII
syndecan 4
TBL1X receptor 1
BEN domain containing 4
RAB27A, member RAS oncogene family
capping actin protein of muscle Z-line subunit alpha 1
homeobox C4
DnaJ heat shock protein family (Hsp40) member C5
C-X-C motif chemokine receptor 5
KIAA0825
zinc finger protein 254
NBPF member 26
target of myb1 membrane trafficking protein
tyrosylprotein sulfotransferase 1
USP6 N-terminal like
complement C1r subcomponent like
solute carrier family 39 member 8
RELT like 1
CD79b molecule
kelch like family member 5
androgen dependent TFPI regulating protein
ATPase phospholipid transporting 11B (putative)

NLR family apoptosis inhibitory protein
toll like receptor 1
SKI like proto-oncogene
calmin
maltase-glucoamylase
nuclear transcription factor, X-box binding 1
pro-apoptotic WT1 regulator
UDP-N-acetylglucosamine pyrophosphorylase 1
regulating synaptic membrane exocytosis 3
elastin microfibril interfacier 2
PDZ and LIM domain 5
Jun proto-oncogene, AP-1 transcription factor subunit
aquaporin 9
katanin catalytic subunit A1 like 1
neurexophilin 4
aldehyde dehydrogenase 1 family member A2
vanin 1
novel protein
ryanodine receptor 1
ribonuclease A family member k6
rabaptin, RAB GTPase binding effector protein 2
leukocyte immunoglobulin like receptor A5
chromodomain Y like 2
chromosome 11 open reading frame 24
major facilitator superfamily domain containing 14B
docking protein 3
zinc finger and BTB domain containing 7B
ATPase 13A3
protein inhibitor of activated STAT 2
delta 4-desaturase, sphingolipid 1
bactericidal permeability increasing protein
acetyl-CoA acyltransferase 1
programmed cell death 1
melanocyte inducing transcription factor
chromosome 16 open reading frame 72
phospholipase B domain containing 1
brain abundant membrane attached signal protein 1
family with sequence similarity 126 member B
fem-1 homolog C
CD200 molecule
V-set pre-B cell surrogate light chain 3
CD180 molecule
interleukin 17 receptor A
signal peptide peptidase like 2A
acidic nuclear phosphoprotein 32 family member A
ADAM metallopeptidase domain 8

DSN1 component of MIS12 kinetochore complex
Rho related BTB domain containing 2
MYB proto-oncogene like 2
GLI pathogenesis related 2
coiled-coil domain containing 6
interleukin 10 receptor subunit beta
acid phosphatase 3
cannabinoid receptor 2
ATP binding cassette subfamily G member 1
5'-nucleotidase domain containing 2
versican
protein phosphatase 1 regulatory subunit 16B
slingshot protein phosphatase 1
actin related protein 3
inositol polyphosphate multikinase
N-acetylneuraminate pyruvate lyase
CD82 molecule
cytoskeleton associated protein 4
F-box protein 10
calcium/calmodulin dependent protein kinase kinase 2
beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase
C-type lectin domain containing 17A
beta-ureidopropionase 1
G0/G1 switch 2
scavenger receptor class F member 1
protein kinase C epsilon
RAB32, member RAS oncogene family
solute carrier family 35 member F2
chromosome 8 open reading frame 88
G protein subunit alpha i3
ATPase secretory pathway Ca²⁺ transporting 2
ST6 beta-galactoside alpha-2,6-sialyltransferase 1
zinc finger protein 860
solute carrier family 46 member 2
heme binding protein 2
proprotein convertase subtilisin/kexin type 7
1,4-alpha-glucan branching enzyme 1
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
ankyrin repeat domain 34A
cathepsin K
clustered mitochondria homolog
NFKB inhibitor epsilon
BTB domain and CNC homolog 1
autophagy related 3
homocysteine inducible ER protein with ubiquitin like domain 1
transmembrane protein 19

complement C3a receptor 1
microsomal glutathione S-transferase 1
anoctamin 10
guanosine monophosphate reductase 2
paternally expressed 10
ATP binding cassette subfamily A member 13
PTTG1 interacting protein
centlein
protein phosphatase 1 regulatory subunit 3B
gap junction protein beta 6
neuralized E3 ubiquitin protein ligase 1
ring finger protein 24
nuclear factor, erythroid 2 like 3
OTU deubiquitinase with linear linkage specificity like
fermitin family member 3
rabphilin 3A
WD repeat domain 86
yippee like 1
protein phosphatase 1 regulatory subunit 12A
divergent protein kinase domain 1A
malic enzyme 2
LARGE xylosyl- and glucuronyltransferase 2
Yip1 domain family member 1
steroid receptor RNA activator 1
SH3 domain containing GRB2 like, endophilin B1
prostaglandin F receptor
potassium voltage-gated channel subfamily H member 3
ring finger protein 4
follistatin like 3
C-type lectin domain containing 5A
secretory leukocyte peptidase inhibitor
zinc finger protein 106
notch receptor 2
FOS like 2, AP-1 transcription factor subunit
cyclin D3
lysophospholipase 1
monooxygenase DBH like 1
synaptotagmin 17
cytochrome P450 family 1 subfamily B member 1
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1K
RUNX family transcription factor 2
phosphoinositide-3-kinase adaptor protein 1
signal peptide, CUB domain and EGF like domain containing 2
BICD cargo adaptor 1
peptidoglycan recognition protein 1
laminin subunit gamma 1

syndecan binding protein
embigin
GDP-mannose pyrophosphorylase B
dysbindin domain containing 1
dishevelled associated activator of morphogenesis 2
sorting nexin 18
recombination signal binding protein for immunoglobulin kappa J region
X-box binding protein 1
sorting nexin 25
solute carrier family 12 member 9
tumor protein p73
lysine acetyltransferase 2A
caspase 4
methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate
solute carrier family 5 member 9
C-type lectin domain family 4 member D
ubiquitin associated protein 1
major histocompatibility complex, class II, DP alpha 1
ATP binding cassette subfamily B member 4
free fatty acid receptor 2
signal induced proliferation associated 1 like 3
TNF receptor associated factor 5
NADH:ubiquinone oxidoreductase complex assembly factor 6
NFKB inhibitor delta
osteoclast associated Ig-like receptor
microtubule associated monooxygenase, calponin and LIM domain containing 3
lysophosphatidylcholine acyltransferase 2
glutamic--pyruvic transaminase 2
chromosome 19 open reading frame 38
mast cell immunoglobulin like receptor 1
pipecolic acid and sarcosine oxidase
carbohydrate sulfotransferase 2
calcium voltage-gated channel auxiliary subunit beta 4
treacle ribosome biogenesis factor 1
transducer of ERBB2, 2
colony stimulating factor 2 receptor subunit beta
novel protein
brain protein I3
G protein-coupled receptor class C group 5 member B
centrosomal protein 250
SPT20 homolog, SAGA complex component
phospholipase C delta 1
phosphatidylglycerophosphate synthase 1
diacylglycerol kinase theta
N-acylsphingosine amidohydrolase 1
aldehyde dehydrogenase 2 family member

CD48 molecule
JunB proto-oncogene, AP-1 transcription factor subunit
family with sequence similarity 83 member G
F-box protein 38
taste 1 receptor member 3
pleckstrin homology domain containing M3
dystrotelin
membrane associated ring-CH-type finger 5
spermatid perinuclear RNA binding protein
acyl-CoA synthetase long chain family member 1
CYLD lysine 63 deubiquitinase
solute carrier family 52 member 2
pyruvate dehydrogenase kinase 1
methyltransferase like 22
NOP10 ribonucleoprotein
ADP-ribosylserine hydrolase
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2
oncostatin M
novel protein
solute carrier family 16 member 6
base methyltransferase of 25S rRNA 2 homolog
apical junction component 1 homolog
solute carrier family 8 member B1
argininosuccinate lyase
collagen like tail subunit of asymmetric acetylcholinesterase
neutrophil cytosolic factor 2
uridine phosphorylase 1
heparan sulfate-glucosamine 3-sulfotransferase 1
carbonic anhydrase 6
CDP-diacylglycerol synthase 2
steroid 5 alpha-reductase 1
kallikrein 1
maestro heat like repeat family member 6
dehydrogenase/reductase 7B
CD55 molecule (Cromer blood group)
mitogen-activated protein kinase kinase kinase 4
jade family PHD finger 2
carbohydrate sulfotransferase 12
guanylate cyclase 2D, retinal
BCL2 related protein A1
major histocompatibility complex, class II, DR beta 5
N-deacetylase and N-sulfotransferase 3
NEDD4 E3 ubiquitin protein ligase
protein phosphatase 2 regulatory subunit B'alpha
X-ray repair cross complementing 3
lysozyme

CD74 molecule
serine/threonine kinase 3
membrane spanning 4-domains A6A
vav guanine nucleotide exchange factor 1
ghrelin and obestatin prepropeptide
dual specificity phosphatase 3
fascin actin-bundling protein 2, retinal
serine hydroxymethyltransferase 1
killer cell lectin like receptor D1
tumor protein D52
coiled-coil domain containing 32
low density lipoprotein receptor class A domain containing 2
ADP ribosylation factor like GTPase 6 interacting protein 5
PHD finger protein 12
glycine amidinotransferase
RAB5A, member RAS oncogene family
period circadian regulator 1
novel protein
caspase recruitment domain family member 6
FIC domain protein adenylyltransferase
zinc finger protein 316
kinesin family member 3C
cytohesin 4
solute carrier family 12 member 3
neurobeachin like 2
syntaxin binding protein 1
zinc finger DHHC-type palmitoyltransferase 7
BMP2 inducible kinase
exonuclease 5
SWT1 RNA endoribonuclease homolog
BAI1 associated protein 3
novel protein
calcineurin binding protein 1
perilipin 3
photoreceptor disc component
ERCC excision repair 1, endonuclease non-catalytic subunit
B9 domain containing 2
C3 and PZP like alpha-2-macroglobulin domain containing 8
actinin alpha 1
lactamase beta
Wnt family member 16
complement C1q A chain
erythroblast membrane associated protein (Scianna blood group)
histone deacetylase 7
GIT ArfGAP 2
THO complex 5

serine hydroxymethyltransferase 2
G protein-coupled receptor 65
ADP ribosylation factor like GTPase 11
TBC1 domain family member 3L
nuclear factor, erythroid 2 like 2
regulatory factor X2
S100 calcium binding protein A6
pygopus family PHD finger 2
zinc finger and BTB domain containing 16
leucine rich single-pass membrane protein 1
interleukin 1 receptor antagonist
thyroid hormone receptor interactor 13
chromosome 2 open reading frame 42
phospholipid scramblase 1
transcription factor 19
cell division cycle 20
fibroblast growth factor receptor 1
niban apoptosis regulator 2
activating signal cointegrator 1 complex subunit 1
synaptosome associated protein 23
major histocompatibility complex, class II, DR beta 1
RNA binding motif single stranded interacting protein 1
solute carrier family 25 member 40
protein tyrosine phosphatase receptor type C
sideroflexin 5
C-X-C motif chemokine receptor 6
F-box protein 32
lysosomal associated membrane protein family member 5
G protein subunit alpha 15
amyloid beta precursor protein binding family B member 1 interacting protein
chondroitin sulfate synthase 1
family with sequence similarity 160 member B1
Spi-1 proto-oncogene
zinc finger protein 641
H3.3 histone A
aminopeptidase puromycin sensitive
RAS guanyl releasing protein 4
cysteine rich secretory protein 3
Krüppel like factor 9
GABA type A receptor associated protein like 2
N-alpha-acetyltransferase 40, NatD catalytic subunit
Krüppel like factor 7
F-box and leucine rich repeat protein 13
lysosomal trafficking regulator
histamine N-methyltransferase
VPS9 domain containing 1

strawberry notch homolog 2
androgen induced 1
YTH N6-methyladenosine RNA binding protein 3
orosomucoid 1
Scm like with four mbt domains 1
zinc finger protein 706
phosphoglucomutase 1
immediate early response 3
lymphotoxin beta
phosphogluconate dehydrogenase
thymocyte selection associated high mobility group box
macrophage scavenger receptor 1
Ras association domain family member 1
perforin 1
kinesin family member C3
selenoprotein T
insulin like growth factor 1
collagen type XVII alpha 1 chain
ubiquitin conjugating enzyme E2 D3
chloride intracellular channel 1
mitogen-activated protein kinase kinase kinase 2
upstream transcription factor family member 3
endoplasmic reticulum to nucleus signaling 1
cytoplasmic polyadenylation element binding protein 4
serpin family A member 1
FYN binding protein 1
transmembrane protein 214
fragile histidine triad diadenosine triphosphatase
TEA domain transcription factor 2
C-C motif chemokine receptor 5 (gene/pseudogene)
solute carrier family 28 member 3
chloride intracellular channel 3
leukocyte immunoglobulin like receptor B2
testis expressed 9
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
integrin subunit beta 2
Wnt family member 5B
Fc fragment of IgG receptor Ib
DDB1 and CUL4 associated factor 4
SLIT-ROBO Rho GTPase activating protein 2C
transmembrane protein 170B
signal regulatory protein alpha
STT3 oligosaccharyltransferase complex catalytic subunit A
M-phase phosphoprotein 8
G protein-coupled receptor 20
G protein-coupled receptor 25

programmed cell death 10
dachshund family transcription factor 1
PHD finger protein 20 like 1
arachidonate 15-lipoxygenase type B
CGRP receptor component
protein phosphatase 4 regulatory subunit 1
decapping mRNA 2
semaphorin 3A
hedgehog acyltransferase
ring finger and WD repeat domain 3
serglycin
zinc finger protein 281
beta-1,3-N-acetylgalactosaminyltransferase 2
small integral membrane protein 35
solute carrier family 1 member 4
EH domain containing 1
fucosyltransferase 11
FA complementation group G
KRAS proto-oncogene, GTPase
histone deacetylase 4
Rho guanine nucleotide exchange factor 11
carbonic anhydrase 4
vav guanine nucleotide exchange factor 2
lemur tyrosine kinase 2
integrin subunit alpha 7
cut like homeobox 1
neuritin 1
WASP family member 1
cellular communication network factor 3
fucosyltransferase 8
alkaline ceramidase 3
Ras like without CAAX 1
metaxin 1
thioredoxin
small ArfGAP2
glucosylceramidase beta
TAFA chemokine like family member 2
golgin A7
zinc finger protein 532
methyltransferase like 2B
matrix metalloproteinase 9
MYD88 innate immune signal transduction adaptor
defensin alpha 4
T-box transcription factor 21
cytohesin 3
transmembrane 9 superfamily member 4

fibronectin type III domain containing 3B
solute carrier family 18 member A1
HLF transcription factor, PAR bZIP family member
UBX domain protein 2B
caspase recruitment domain family member 11
cold inducible RNA binding protein
diacylglycerol O-acyltransferase 2
pyruvate dehydrogenase phosphatase catalytic subunit 2
shisa family member 8
CCHC-type zinc finger nucleic acid binding protein
PAXX non-homologous end joining factor
TNF receptor superfamily member 21
zinc finger SWIM-type containing 6
F-box protein 34
cAMP responsive element binding protein 3 like 2
spermidine synthase
p53 apoptosis effector related to PMP22
protein kinase C zeta
cell division cycle associated 7 like
zinc finger protein 710
NUMB endocytic adaptor protein
transcobalamin 1
praja ring finger ubiquitin ligase 2
oxysterol binding protein
transportin 1
glutamate rich 1
translocase of outer mitochondrial membrane 34
teashirt zinc finger homeobox 3
suppressor of cytokine signaling 3
harakiri, BCL2 interacting protein
complement C1q B chain
CASP8 and FADD like apoptosis regulator
integrin subunit alpha X
elastase, neutrophil expressed
limb and CNS expressed 1 like
mitogen-activated protein kinase 1
transmembrane protein 165
calcium binding protein 39
glutaminy-peptide cyclotransferase like
Wnt ligand secretion mediator
acyl-CoA binding domain containing 3
ankyrin repeat domain 50
interleukin 1 receptor associated kinase 2
kynurenine aminotransferase 3
Rap guanine nucleotide exchange factor 5
protein kinase C and casein kinase substrate in neurons 2

serpin family B member 8
triple QxxK/R motif containing
phosphatase domain containing paladin 1
novel protein, TPD52-MRPS28 readthrough
novel protein
signaling lymphocytic activation molecule family member 1
SLIT-ROBO Rho GTPase activating protein 2B
TNF receptor superfamily member 8
RAS related 2
GDP-mannose pyrophosphorylase A
Fc fragment of IgG receptor IIb
actin binding transcription modulator
chromosome 19 open reading frame 54
aquaporin 3 (Gill blood group)
zinc finger protein 516
putative homeodomain transcription factor 1
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
uracil DNA glycosylase
kelch like family member 2
transient receptor potential cation channel subfamily M member 2
cytochrome b561 family member A3
interleukin 7
neuropilin and tolloid like 1
ERGIC and golgi 2
histamine receptor H2
phospholipase A2 group IVA
thyroid hormone receptor interactor 12
CD274 molecule
Dmx like 2
CKLF like MARVEL transmembrane domain containing 7
zinc finger DHHC-type palmitoyltransferase 3
galactosylceramidase
CEBPZ opposite strand
pleckstrin homology domain containing A7
zinc finger protein 787
BCL2 interacting protein 2
cysteinyl-tRNA synthetase 1
FERM domain containing 8
small integral membrane protein 20
RAB8B, member RAS oncogene family
pleckstrin homology and RhoGEF domain containing G1
small integral membrane protein 14
CEA cell adhesion molecule 6
dynein axonemal heavy chain 8
tousled like kinase 1
zinc finger protein 467

Wnt family member 10B
pecanex 1
SUMO1 activating enzyme subunit 1
mannosyl-oligosaccharide glucosidase
necient helix-loop-helix 1
keratin 23
tRNA phosphotransferase 1
DNA polymerase eta
ubiquitin like modifier activating enzyme 3
cysteine rich with EGF like domains 2
TGF-beta activated kinase 1 (MAP3K7) binding protein 2
Ras association domain family member 6
N-acetyltransferase domain containing 1
myeloperoxidase
G protein-coupled receptor kinase 5
tropomyosin 3
ring finger protein 19B
eva-1 homolog C
NLR family pyrin domain containing 12
proteinase 3
IQ motif containing GTPase activating protein 1
DNA replication fork stabilization factor DONSON
RNA polymerase II subunit C
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
zinc finger protein 90
CD14 molecule
LRR binding FLII interacting protein 2
supervillin
tuftelin 1
ETS transcription factor ERG
SHOC2 leucine rich repeat scaffold protein
THADA armadillo repeat containing
ribonuclease A family member 2
golgi associated kinase 1B
protein-L-isoaspartate (D-aspartate) O-methyltransferase
PBX homeobox interacting protein 1
desmocollin 2
transmembrane protein 273
ArfGAP with GTPase domain, ankyrin repeat and PH domain 3
myosin binding protein C3
synaptotagmin like 3
apolipoprotein B mRNA editing enzyme catalytic subunit 3H
glucosidase II alpha subunit
inhibitor of nuclear factor kappa B kinase subunit epsilon
mannosidase alpha class 1C member 1
sorting nexin 3

family with sequence similarity 78 member A
basic leucine zipper ATF-like transcription factor 3
double PHD fingers 3
MDM2 proto-oncogene
SID1 transmembrane family member 1
ectodysplasin A receptor
pre-mRNA processing factor 6
cyclase associated actin cytoskeleton regulatory protein 1
translocase of outer mitochondrial membrane 40 like
signal peptidase complex subunit 2
mitogen-activated protein kinase kinase kinase 14
FRAT regulator of WNT signaling pathway 2
leukocyte immunoglobulin like receptor B3
actin related protein 2/3 complex subunit 2
reticulon 3
lysosomal protein transmembrane 4 beta
carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase
hexokinase 2
family with sequence similarity 160 member A2
EPH receptor B4
Fc fragment of IgG receptor Ia
GRAM domain containing 1C
cell division cycle 42
NOP2/Sun RNA methyltransferase family member 7
TPD52 like 2
interleukin 2 receptor subunit beta
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta
CD300e molecule
syntaxin binding protein 2
thrombospondin 3
nicotinamide riboside kinase 1
dihydropyrimidine dehydrogenase
novel protein
apoptosis associated tyrosine kinase
dynactin subunit 4
class II major histocompatibility complex transactivator
proprotein convertase subtilisin/kexin type 5
polyamine oxidase
heat shock protein 90 beta family member 1
HSPB1 associated protein 1
RAS like proto-oncogene B
ADAM metallopeptidase domain 12
hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase
TNF alpha induced protein 3
TBC1 domain family member 16
jagged canonical Notch ligand 1

syntaxin 11
sodium channel modifier 1
phosphatidylinositol-4,5-bisphosphate 4-phosphatase 2
INO80 complex subunit E
TNF receptor superfamily member 10b
RCSD domain containing 1
methionine sulfoxide reductase A
long intergenic non-protein coding RNA 2218
TNF receptor superfamily member 9
UPF1 RNA helicase and ATPase
zinc finger protein 267
LETM1 domain containing 1
calpain 12
presenilin 1
cathepsin G
serine/threonine/tyrosine kinase 1
fasciculation and elongation protein zeta 2
chromosome 16 open reading frame 70
desmoplakin
complement C3d receptor 2
Rho GTPase activating protein 15
cell cycle progression 1
serine palmitoyltransferase small subunit B
small integral membrane protein 27
solute carrier family 24 member 4
threonyl-tRNA synthetase 2, mitochondrial
ubiquitin specific peptidase 32
transmembrane protein 144
protein phosphatase 3 catalytic subunit gamma
eomesodermin
COP1 E3 ubiquitin ligase
G protein-coupled receptor kinase 6
cyclin L2
adhesion G protein-coupled receptor D1
zinc finger DHHC-type palmitoyltransferase 18
pyrroline-5-carboxylate reductase 1
cysteine rich secretory protein 2
KIAA0319
lymphocyte cytosolic protein 1
deoxynucleotidyltransferase terminal interacting protein 1
vasodilator stimulated phosphoprotein
lymphocyte antigen 96
zinc finger protein 329
SEC61 translocon subunit alpha 1
zinc finger protein 3
NmrA like redox sensor 1

chromosome 3 open reading frame 20
non-SMC condensin II complex subunit H2
oligodendrocyte myelin glycoprotein
Ras protein specific guanine nucleotide releasing factor 1
clathrin heavy chain
ADP ribosylation factor guanine nucleotide exchange factor 1
butyrophilin subfamily 2 member A2
hematopoietically expressed homeobox
SRF-box transcription factor 5
vav guanine nucleotide exchange factor 3
BRCA2 DNA repair associated
oxysterol binding protein like 9
RAB30, member RAS oncogene family
TRAF interacting protein with forkhead associated domain
NGFI-A binding protein 2
mitochondrial calcium uniporter
contactin associated protein 1
ATPase phospholipid transporting 11A
ACD shelterin complex subunit and telomerase recruitment factor
tigger transposable element derived 3
coagulation factor XIII A chain
legumain
succinate-CoA ligase GDP/ADP-forming subunit alpha
growth arrest and DNA damage inducible beta
ADAM metalloproteinase domain 10
cytochrome b-245 chaperone 1
formin 1
galectin 2
CCAAT enhancer binding protein alpha
serine/threonine kinase 38
dpy-19 like C-mannosyltransferase 3
DnaJ heat shock protein family (Hsp40) member B5
connector enhancer of kinase suppressor of Ras 1
EF-hand domain family member D2
sestrin 1
glutathione S-transferase omega 1
WT1 associated protein
complement C1q C chain
integrator complex subunit 6
minichromosome maintenance complex component 2
scavenger receptor class B member 1
zinc finger and SCAN domain containing 9
NBPF member 10
LYN proto-oncogene, Src family tyrosine kinase
NADH:ubiquinone oxidoreductase subunit B3
TNFRSF1A associated via death domain

protein interacting with PRKCA 1
post-GPI attachment to proteins phospholipase 3
HtrA serine peptidase 3
transforming growth factor beta receptor 1
ceramide transporter 1
inner centromere protein
TATA-box binding protein associated factor 8
actin related protein 2
CFAP97 domain containing 2
membrane spanning 4-domains A14
CDK5 regulatory subunit associated protein 2
cytochrome p450 oxidoreductase
LLGL scribble cell polarity complex component 2
galectin 8
NBPF member 14
novel transcript
tribbles pseudokinase 2
ZFP36 ring finger protein like 2
exophilin 5
exostosin glycosyltransferase 1
adhesion G protein-coupled receptor G1
ring finger protein 141
microtubule associated monooxygenase, calponin and LIM domain containing 1
pyruvate kinase M1/2
TNF receptor superfamily member 10d
solute carrier family 4 member 3
TNF receptor associated protein 1
phosphoglucomutase 2
hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit beta
PX domain containing serine/threonine kinase like
NIMA related kinase 6
pentraxin 3
zinc finger protein 839
glutaredoxin
LIM zinc finger domain containing 1
ISY1-RAB43 readthrough
major facilitator superfamily domain containing 2A
exoribonuclease 1
adenylate kinase 5
zinc finger FYVE-type containing 16
alpha kinase 1
perilipin 4
Sin3A associated protein 30
ATPase H⁺ transporting V1 subunit D
C-terminal binding protein 2
purine nucleoside phosphorylase

nardilysin convertase
zinc finger E-box binding homeobox 1
LDL receptor related protein associated protein 1
myeloid cell nuclear differentiation antigen
UHRF1 binding protein 1 like
capicua transcriptional repressor
zinc finger protein 250
PDZ domain containing 8
nuclear receptor subfamily 6 group A member 1
mal, T cell differentiation protein
BCL2 like 12
MAX network transcriptional repressor
cleavage and polyadenylation specific factor 1
cytidine deaminase
NCK associated protein 5 like
taxilin alpha
RCC1 and BTB domain containing protein 2
CTP synthase 1
acyl-CoA synthetase short chain family member 3
F-box protein 9
zinc finger CCCH-type containing 18
protein tyrosine phosphatase receptor type K
cytoplasmic FMR1 interacting protein 1
sphingosine-1-phosphate receptor 3
transmembrane protein 223
matrix metalloproteinase 19
myosin phosphatase Rho interacting protein
solute carrier family 51 subunit alpha
RUN and SH3 domain containing 2
transmembrane protein 163
transmembrane O-mannosyltransferase targeting cadherins 2
CD80 molecule
EBP like
G protein-coupled receptor 27
solute carrier family 30 member 5
protein tyrosine phosphatase receptor type J
ETS proto-oncogene 2, transcription factor
nuclear factor, erythroid 2
beta-1,4-galactosyltransferase 5
solute carrier family 35 member E3
amyloid beta precursor protein binding family B member 3
neural EGFL like 2
valosin containing protein lysine methyltransferase
zinc finger protein 814
late endosomal/lysosomal adaptor, MAPK and MTOR activator 1
methyltransferase like 8

methy-CpG binding domain 4, DNA glycosylase
microtubule crosslinking factor 1
growth arrest specific 7
SHC binding and spindle associated 1
aldehyde dehydrogenase 18 family member A1
sulfatase modifying factor 2
ring finger protein 122
DBF4 zinc finger B
family with sequence similarity 214 member B
plasminogen activator, urokinase receptor
protein disulfide isomerase family A member 6
ring-box 1
serpin family F member 1
SLIT-ROBO Rho GTPase activating protein 1
complement factor H
protein tyrosine kinase 2 beta
serpin family B member 2
S100 calcium binding protein P
zinc finger AN1-type containing 5
TSPY like 1
cyclin dependent kinase inhibitor 1C
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7
phosphoglucomutase 2 like 1
pellino E3 ubiquitin protein ligase family member 2
2,4-dienoyl-CoA reductase 1
ADP ribosylation factor like GTPase 8B
sialic acid acetylesterase
SCY1 like pseudokinase 2
NDRG family member 3
transmembrane protein 64
ADP ribosylation factor like GTPase 8A
ETS variant transcription factor 5
SPRY domain containing 3
stromal cell derived factor 2
NLR family member X1
solute carrier family 26 member 6
myosin light chain 6
Rap1 GTPase-GDP dissociation stimulator 1
BORCS8-MEF2B readthrough
phospholipase C like 2
microtubule associated serine/threonine kinase family member 4
RAB3A interacting protein
C-C motif chemokine ligand 3 like 3
copine 3
cathepsin H
formyl peptide receptor 1

transmembrane protein 259
cyclin F
SH3 binding domain protein 5 like
ubiquitin conjugating enzyme E2 R2
tripartite motif containing 25
paxillin
interferon related developmental regulator 1
DNA damage inducible transcript 4
family with sequence similarity 167 member A
isovaleryl-CoA dehydrogenase
sorting nexin 10
TGFB induced factor homeobox 1
protein S
mannosidase alpha class 1B member 1
growth hormone inducible transmembrane protein
scribble planar cell polarity protein
sorting nexin 20
glucose-fructose oxidoreductase domain containing 2
TBC1 domain family member 2B
phosphatidylethanolamine binding protein 1
olfactomedin 1
cyclin D1 binding protein 1
cyclin dependent kinase 14
NOP2/Sun RNA methyltransferase 3
sorting nexin 13
DLC1 Rho GTPase activating protein
huntingtin interacting protein 1 related
IQ motif and Sec7 domain ArfGEF 1
acyl-CoA synthetase short chain family member 1
Rho guanine nucleotide exchange factor 4
kinesin family member 27
dispatched RND transporter family member 2
solute carrier family 11 member 1
poly(A) binding protein cytoplasmic 4
NFAT activating protein with ITAM motif 1
zinc finger protein 770
complement C5a receptor 1
cytoplasmic FMR1 interacting protein 2
switching B cell complex subunit SWAP70
SMAD family member 2
fucosyltransferase 7
nucleoporin 214
eukaryotic translation initiation factor 4E nuclear import factor 1
ADAM metallopeptidase with thrombospondin type 1 motif 17
Ras association domain family member 4
cortactin binding protein 2

small cell adhesion glycoprotein
solute carrier family 40 member 1
microtubule interacting and trafficking domain containing 1
ubiquitin specific peptidase 7
interleukin 12 receptor subunit beta 2
MTOR associated protein, eak-7 homolog
HPS3 biogenesis of lysosomal organelles complex 2 subunit 1
opioid related nociceptin receptor 1
glucose-fructose oxidoreductase domain containing 1
apoptosis resistant E3 ubiquitin protein ligase 1
UDP-glucose ceramide glucosyltransferase
zinc finger protein 737
secernin 1
peptidylprolyl isomerase like 2
prostaglandin D2 synthase
myosin light chain 12B
ArfGAP with coiled-coil, ankyrin repeat and PH domains 2
MLLT1 super elongation complex subunit
CD320 molecule
BOP1 ribosomal biogenesis factor
myocyte enhancer factor 2A
transmembrane protein 33
TAP binding protein
G protein-coupled receptor 55
transcription termination factor 1
glycerol-3-phosphate dehydrogenase 1 like
killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 2
Rab interacting lysosomal protein like 1
REST corepressor 1
myelin protein zero like 3
leucine rich repeat kinase 2
ubiquitin interaction motif containing 1
Fc receptor like B
vimentin
deoxyribonuclease 1 like 3
RB1 inducible coiled-coil 1
integrin subunit beta 7
stomatin
phosphomevalonate kinase
serine carboxypeptidase 1
zinc finger DHHC-type containing 24
RAN binding protein 9
DEAH-box helicase 40
coiled-coil domain containing 130
CXXC finger protein 1
RALBP1 associated Eps domain containing 1

tyrosylprotein sulfotransferase 2
chondroitin sulfate N-acetylgalactosaminyltransferase 1
kelch repeat and BTB domain containing 8
tetratricopeptide repeat domain 38
methyltransferase like 7A
poly(A)-specific ribonuclease
EF-hand domain containing 1
FERM domain containing 4B
nuclear factor of activated T cells 2 interacting protein
bromodomain adjacent to zinc finger domain 2B
ubiquitin recognition factor in ER associated degradation 1
tubulin alpha 1a
WD repeat domain 54
V-set and transmembrane domain containing 1
neurocalcin delta
IQ motif containing K
very low density lipoprotein receptor
fibrillin 2
HORMA domain containing 1
intercellular adhesion molecule 5
transmembrane and immunoglobulin domain containing 3
clathrin heavy chain like 1
solute carrier organic anion transporter family member 4C1
kinesin family member 13A
autophagy related 7
phosphoprotein membrane anchor with glycosphingolipid microdomains 1
transmembrane channel like 8
NCK associated protein 1
beaded filament structural protein 1
WW domain containing adaptor with coiled-coil
torsin family 3 member A
RAB20, member RAS oncogene family
double PHD fingers 2
anaphase promoting complex subunit 7
sulfatase modifying factor 1
solute carrier family 6 member 6
UDP-glucose 6-dehydrogenase
PIF1 5'-to-3' DNA helicase
solute carrier family 2 member 8
LIM domain kinase 1
adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 1
SRY-box transcription factor 13
solute carrier family 25 member 37
major histocompatibility complex, class II, DM beta
pro-platelet basic protein
RIO kinase 3

glutathione S-transferase mu 3
MARVEL domain containing 1
megakaryocyte-associated tyrosine kinase
leucine zipper and EF-hand containing transmembrane protein 1
ring finger protein 32
prostaglandin E receptor 4
Ras converting CAAX endopeptidase 1
Cbl proto-oncogene B
RAB24, member RAS oncogene family
heat shock protein family A (Hsp70) member 4
protein tyrosine phosphatase non-receptor type 13
oxysterol binding protein like 3
protein phosphatase 1 regulatory subunit 3D
KH RNA binding domain containing, signal transduction associated 2
methionine sulfoxide reductase B1
poly(A) polymerase alpha
methyltransferase like 2A
rhotekin
WD repeat and SOCS box containing 1
osteoclast stimulating factor 1
kinase D interacting substrate 220
chromosome 4 open reading frame 3
chitinase 1
signal transducing adaptor molecule
serine hydrolase like 2
ankyrin repeat and SOCS box containing 7
DEAD-box helicase 27
nuclear receptor subfamily 4 group A member 1
leucine zipper tumor suppressor family member 3
MLLT3 super elongation complex subunit
Fc fragment of IgM receptor
poly(ADP-ribose) polymerase family member 15
metabolism of cobalamin associated D
thrombospondin type laminin G domain and EAR repeats
zinc finger protein 212
tripartite motif containing 65
solute carrier family 36 member 1
discs large MAGUK scaffold protein 4
SREBF chaperone
tigger transposable element derived 5
Rho guanine nucleotide exchange factor 17
ATP binding cassette subfamily B member 9
bromodomain adjacent to zinc finger domain 1A
mesencephalic astrocyte derived neurotrophic factor
spliceosome associated factor 3, U4/U6 recycling protein
coiled-coil domain containing 57

novel protein, SIRPB1-SIRPD readthrough
leptin receptor overlapping transcript like 1
GRB10 interacting GYF protein 1
actin related protein 10
glyceraldehyde-3-phosphate dehydrogenase
GCN1 activator of EIF2AK4
purinergic receptor P2Y13
tet methylcytosine dioxygenase 2
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7
radial spoke head component 9
membrane associated ring-CH-type finger 7
minichromosome maintenance complex component 7
CCCTC-binding factor
hepsin
selectin L
aminoacyl tRNA synthetase complex interacting multifunctional protein 2
transmembrane protein 167A
glutathione peroxidase 3
family with sequence similarity 13 member A
nicastrin
proline rich basic protein 1
cytochrome b5 reductase 4
solute carrier family 16 member 4
zinc finger protein 230
homer scaffold protein 3
synaptonemal complex protein 2
cAMP-dependent protein kinase inhibitor gamma
ubiquitin like with PHD and ring finger domains 2
zinc finger protein 131
timeless circadian regulator
apolipoprotein B mRNA editing enzyme catalytic subunit 3A
adenylate kinase 4
hyaluronan and proteoglycan link protein 3
late endosomal/lysosomal adaptor, MAPK and MTOR activator 3
TEA domain transcription factor 3
zinc finger CCCH-type containing 4
lipase maturation factor 2
stromal interaction molecule 2
histone deacetylase 9
NOP14 nucleolar protein
ezrin
adaptor related protein complex 5 subunit beta 1
ArfGAP with coiled-coil, ankyrin repeat and PH domains 1
sulfide quinone oxidoreductase
retinoid X receptor alpha
heat shock protein family A (Hsp70) member 1A

solute carrier family 19 member 1
tRNA splicing endonuclease subunit 54
zinc finger CCHC-type containing 3
transcription elongation factor A3
myelin protein zero
uronyl 2-sulfotransferase
abhydrolase domain containing 13
zinc finger protein 397
potassium calcium-activated channel subfamily N member 3
DEP domain containing 7
oxidative stress responsive kinase 1
HMG-box transcription factor 1
WD repeat domain 5
musculin
NADH:ubiquinone oxidoreductase complex assembly factor 7
NIMA related kinase 8
spindlin interactor and repressor of chromatin binding
interferon stimulated exonuclease gene 20
tubulin polymerization promoting protein
transmembrane protein 92
ankyrin repeat domain 23
FGFR1 oncogene partner 2
BTB domain containing 10
RNA polymerase II associated protein 1
leukocyte specific transcript 1
inositol polyphosphate phosphatase like 1
zinc finger protein 292
RAB2A, member RAS oncogene family
TNF superfamily member 13b
inositol polyphosphate-5-phosphatase B
cystatin A
aspartyl-tRNA synthetase 2, mitochondrial
ubiquitin domain containing 1
quiescin sulfhydryl oxidase 2
ADAM metalloproteinase with thrombospondin type 1 motif 1
RAB2B, member RAS oncogene family
glycolipid transfer protein
nudix hydrolase 16
family with sequence similarity 43 member A
enoyl-CoA hydratase domain containing 3
plexin B2
programmed cell death 4
AKT serine/threonine kinase 1
fibrillin 1
lysosomal protein transmembrane 4 alpha
CD3e molecule associated protein

ribonucleotide reductase catalytic subunit M1
hyaluronidase 2
proteasome maturation protein
testis expressed metallothionein like protein
apoptosis enhancing nuclease
protein phosphatase 2 regulatory subunit Bbeta
death effector domain containing
cysteinyl-tRNA synthetase 2, mitochondrial
FKBP prolyl isomerase 15
PNKD metallo-beta-lactamase domain containing
matrix metalloproteinase 25
zinc finger and BTB domain containing 18
armadillo repeat containing 8
N-acetylglucosamine-1-phosphate transferase subunit gamma
mortality factor 4 like 1
lectin, mannose binding 1
Rap guanine nucleotide exchange factor like 1
dihydrolipoamide dehydrogenase
cellular repressor of E1A stimulated genes 1
coiled-coil domain containing 93
C-type lectin domain containing 10A
collagen beta(1-O)galactosyltransferase 1
eukaryotic translation initiation factor 4 gamma 2
pecanex 3
microtubule associated scaffold protein 1
fibronectin type III and SPRY domain containing 1
Sp1 transcription factor
myosin VIIA
PX domain containing 1
Tctex1 domain containing 1
solute carrier family 22 member 17
phosphorylase kinase catalytic subunit gamma 1
nucleoporin 160
leucine rich repeat containing 14
sushi domain containing 4
mesoderm development LRP chaperone
coiled-coil domain containing 78
round spermatid basic protein 1
LSM6 homolog, U6 small nuclear RNA and mRNA degradation associated
NCK associated protein 1 like
syntaxin 10
ubiquitin specific peptidase 46
zinc finger protein 319
fatty acid desaturase 1
UDP glycosyltransferase 8
valyl-tRNA synthetase 2, mitochondrial

NOP56 ribonucleoprotein
glucosamine (N-acetyl)-6-sulfatase
G protein-coupled receptor 19
solute carrier family 25 member 4
autophagy related 9A
glutamyl-tRNA synthetase 2, mitochondrial
cap binding complex dependent translation initiation factor
elongator acetyltransferase complex subunit 3
peptidase, mitochondrial processing subunit alpha
HID1 domain containing
myosin light chain 12A
CD81 molecule
ring finger protein 217
MIA SH3 domain ER export factor 2
zinc finger protein 33A
chromosome 1 open reading frame 61
NODAL modulator 1
twist family bHLH transcription factor 2
nucleoporin 58
killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 1
RFT1 homolog
spondin 2
transmembrane protein 11
F-box and WD repeat domain containing 2
hydroxysteroid 17-beta dehydrogenase 7
interleukin 18 binding protein
neuronal PAS domain protein 2
formin homology 2 domain containing 1
RasGEF domain family member 1A
mannosidase endo-alpha
apolipoprotein B mRNA editing enzyme catalytic subunit 3F
PRKR interacting protein 1
phospholipid scramblase 2
NADH:ubiquinone oxidoreductase core subunit V1
TNF superfamily member 14
ATPase family AAA domain containing 3A
dishevelled binding antagonist of beta catenin 1
zinc finger DHHC-type palmitoyltransferase 23
cathepsin Z
leucine rich melanocyte differentiation associated
family with sequence similarity 110 member A
potassium channel modulatory factor 1
syndecan 3
casein kinase 1 epsilon
PLAG1 like zinc finger 2
basic leucine zipper ATF-like transcription factor

NPC intracellular cholesterol transporter 1
endoplasmic reticulum protein 27
actin related protein 2/3 complex subunit 5
sorcin
sialic acid binding Ig like lectin 5
perilipin 5
lactate dehydrogenase A
TLE family member 4, transcriptional corepressor
G-patch domain containing 1
RPGR interacting protein 1
cyclin J like
cytokine induced apoptosis inhibitor 1
regulator of G protein signaling 12
BTB domain containing 11
platelet derived growth factor subunit B
5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase
selectin P
ArfGAP with FG repeats 2
MSL complex subunit 1
TATA-box binding protein associated factor 15
proteasomal ATPase associated factor 1
solute carrier family 16 member 3
isochorismatase domain containing 2
proline rich 5
migration and invasion inhibitory protein
MAPK interacting serine/threonine kinase 1
zona pellucida like domain containing 1
iron-sulfur cluster assembly 1
oocyte secreted protein family member 3
tumor protein p63
epoxide hydrolase 2
progesterone receptor membrane component 2
HRas proto-oncogene, GTPase
peptidyl arginine deiminase 4
family with sequence similarity 8 member A1
carboxypeptidase M
CD1a molecule
phosphatase and actin regulator 4
RAS protein activator like 2
WD repeat domain 53
major vault protein
GTP cyclohydrolase 1
structure specific recognition protein 1
programmed cell death 11
inosine monophosphate dehydrogenase 2
mitochondrial ribosomal protein L33

PMS1 homolog 2, mismatch repair system component
family with sequence similarity 107 member B
interleukin 1 receptor associated kinase 3
interleukin 1 receptor associated kinase 4
valosin containing protein interacting protein 1
Ras association domain family member 2
SEC24 homolog C, COPII coat complex component
protein kinase cAMP-dependent type I regulatory subunit beta
ankyrin and armadillo repeat containing
serine/threonine kinase 38 like
gelsolin
RAB18, member RAS oncogene family
tenascin XB
ETS variant transcription factor 6
MOB kinase activator 1B
WAPL cohesin release factor
CDK2 associated cullin domain 1
RNA binding motif single stranded interacting protein 2
myotubularin related protein 12
PBX/knotted 1 homeobox 1
glycerophosphocholine phosphodiesterase 1
SID1 transmembrane family member 2
AKT interacting protein
purinergic receptor P2X 1
SH2B adaptor protein 2
WD repeat domain 46
poly(ADP-ribose) polymerase 2
guanylate binding protein 2
HIRA interacting protein 3
MAF bZIP transcription factor G
calcium sensing receptor
Ral GTPase activating protein catalytic subunit alpha 2
damage specific DNA binding protein 2
beta-1,4-galactosyltransferase 1
C-C motif chemokine receptor 10
signal recognition particle 68
formyl peptide receptor 2
ATPase copper transporting beta
RNA binding motif protein 4B
netrin G2
killer cell lectin like receptor B1
actin like 10
peroxisomal testis enriched protein 1
arrestin beta 2
golgin A3
caspase recruitment domain family member 16

purinergic receptor P2Y12
succinate dehydrogenase complex assembly factor 3
anaphase promoting complex subunit 15
transmembrane protein 186
potassium inwardly rectifying channel subfamily J member 2
DEAD-box helicase 59
latent transforming growth factor beta binding protein 4
ataxin 1
hippocalcin like 1
PDZ and LIM domain 7
phosphatidylinositol 3-kinase catalytic subunit type 3
amyloid beta precursor like protein 2
tetratricopeptide repeat domain 21A
NFKB inhibitor alpha
transmembrane protein 175
ATP synthase membrane subunit 6.8PL
stimulator of chondrogenesis 1
regulator of cell cycle
tectonic family member 1
ribophorin II
pseudouridine synthase 1
G protein-coupled receptor kinase 3
tripartite motif containing 36
cytidine monophosphate N-acetylneuraminic acid synthetase
SAP30 like
TEF transcription factor, PAR bZIP family member
2-oxoglutarate and iron dependent oxygenase domain containing 1
torsin 1A interacting protein 2
FYVE, RhoGEF and PH domain containing 2
EF-hand calcium binding domain 12
nidogen 1
G protein-coupled receptor 68
neuromedin U receptor 1
WW domain binding protein 11
granzyme B
DExH-box helicase 34
protein phosphatase 2 regulatory subunit B'delta
POZ/BTB and AT hook containing zinc finger 1
solute carrier family 25 member 25
PDZ domain containing 3
vitamin D receptor
vestigial like family member 4
centrosomal protein 128
low density lipoprotein receptor
TOG array regulator of axonemal microtubules 2
PTPRF interacting protein alpha 4

macrophage immunometabolism regulator
TatD DNase domain containing 3
nudE neurodevelopment protein 1 like 1
synergin gamma
KIAA0319 like
homeodomain interacting protein kinase 1
solute carrier family 27 member 6
dedicator of cytokinesis 4
epidermal growth factor
phosphoribosylaminoimidazole carboxylase and phosphoribosylaminoimidazolesucc
cyclin dependent kinase inhibitor 2D
ankyrin repeat domain 33B
NADH:ubiquinone oxidoreductase subunit B1
coiled-coil serine rich protein 1
cell death inducing p53 target 1
histone H3 associated protein kinase
glutamate rich WD repeat containing 1
sorting nexin 8
FA core complex associated protein 24
mitogen-activated protein kinase kinase 1
NADH:ubiquinone oxidoreductase subunit B6
Scm polycomb group protein like 4
zinc finger protein 107
mitochondrial translational release factor 1 like
out at first homolog
pyridoxal kinase
syntaxin binding protein 3
solute carrier family 44 member 3
coiled-coil domain containing 102A
protein phosphatase 1 regulatory inhibitor subunit 14B
nucleic acid binding protein 1
glia maturation factor gamma
Janus kinase 2
golgi membrane protein 2
synapsin III
adaptor related protein complex 3 subunit sigma 1
bromo adjacent homology domain containing 1
discs large MAGUK scaffold protein 5
natural cytotoxicity triggering receptor 3
amyloid beta precursor protein
cell adhesion molecule 1
fatty acid desaturase 3
suppressor of cytokine signaling 1
NAD(P)HX epimerase
X-ray repair cross complementing 4
killer cell immunoglobulin like receptor, two Ig domains and long cytoplasmic tail 4

coiled-coil domain containing 28A
MANSC domain containing 1
SLIT-ROBO Rho GTPase activating protein 2
asparaginase and isoaspartyl peptidase 1
integrin subunit alpha 3
noggin
nucleoporin 153
lysine demethylase 6B
kynureninase
KIAA0513
zinc finger protein 274
SH3 domain containing ring finger 3
inosine monophosphate dehydrogenase 1
epoxide hydrolase 1
C-terminal binding protein 1
DDB1 and CUL4 associated factor 7
IMP U3 small nucleolar ribonucleoprotein 4
mitogen-activated protein kinase kinase 4
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5
novel transcript
Cbl proto-oncogene
MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1M
fibronectin 1
polypeptide N-acetylgalactosaminyltransferase 3
karyopherin subunit alpha 4
RNA polymerase II subunit D
tumor protein p53 inducible protein 3
CKLF like MARVEL transmembrane domain containing 6
BUB1 mitotic checkpoint serine/threonine kinase
major facilitator superfamily domain containing 1
zinc finger E-box binding homeobox 2
CD163 molecule like 1
delta 4-desaturase, sphingolipid 2
glutamate ionotropic receptor NMDA type subunit associated protein 1
scaffold protein involved in DNA repair
chromosome 1 open reading frame 216
proline-serine-threonine phosphatase interacting protein 2
acyl-CoA oxidase 1
wolframin ER transmembrane glycoprotein
uridine-cytidine kinase 2
mucolipin 2
PR/SET domain 1
ER degradation enhancing alpha-mannosidase like protein 1
CLPTM1 like
oxidative stress responsive serine rich 1

lysine demethylase 7A
glutamate-cysteine ligase modifier subunit
Rho GTPase activating protein 30
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1A
euchromatic histone lysine methyltransferase 2
transmembrane protein 167B
enolase 1
APC down-regulated 1
LLGL scribble cell polarity complex component 1
syntabulin
novel protein
zinc finger DHHC-type palmitoyltransferase 21
catalase
tropomodulin 3
SIVA1 apoptosis inducing factor
tumor susceptibility 101
Fas ligand
dispatched RND transporter family member 3
semaphorin 3C
CD40 molecule
brain enriched myelin associated protein 1
mitochondrial ribosomal protein S18B
KIAA0232
jumonji domain containing 6, arginine demethylase and lysine hydroxylase
patatin like phospholipase domain containing 8
BCL6 antisense 1
HIV-1 Tat interactive protein 2
sialic acid binding Ig like lectin 15
nuclear receptor binding factor 2
prostate transmembrane protein, androgen induced 1
C-type lectin domain family 2 member B
fructosamine 3 kinase related protein
CKLF like MARVEL transmembrane domain containing 4
tet methylcytosine dioxygenase 3
kinesin family member 11
solute carrier family 4 member 1 adaptor protein
ALG12 alpha-1,6-mannosyltransferase
LDL receptor related protein 6
minichromosome maintenance complex component 3
CTD phosphatase subunit 1
ring finger protein, transmembrane 2
exocyst complex component 6
lymphocyte antigen 6 family member G5C
mitogen-activated protein kinase kinase kinase 9
coiled-coil domain containing 107
cation channel sperm associated 1

integrin subunit alpha 2b
syntaxin 3
RUNX family transcription factor 3
acyl-CoA synthetase family member 2
pantothenate kinase 1
DDB1 and CUL4 associated factor 10
acyl-CoA thioesterase 13
transforming acidic coiled-coil containing protein 3
signal transducer and activator of transcription 5A
DDB1 and CUL4 associated factor 6
nicotinamide nucleotide adenylyltransferase 3
protein phosphatase 1 regulatory inhibitor subunit 14A
TATA-box binding protein associated factor 5
nucleoporin 188
novel protein, DEPDC5-YWHAH readthrough
multimerin 1
transmembrane and ubiquitin like domain containing 2
glutamine--fructose-6-phosphate transaminase 1
regulator of G protein signaling 3
glutamine-fructose-6-phosphate transaminase 2
SPG21 abhydrolase domain containing, maspardin
BCL2 family apoptosis regulator BOK
kinesin family member C1
chromosome 16 open reading frame 74
MORN repeat containing 1
ATP synthase F1 subunit epsilon
phosphatidylinositol-5-phosphate 4-kinase type 2 beta
sialic acid binding Ig like lectin 12 (gene/pseudogene)
DnaJ heat shock protein family (Hsp40) member A2
signal peptidase complex subunit 1
zinc finger DHHC-type palmitoyltransferase 2
activating transcription factor 6
retinoic acid receptor alpha
DNA topoisomerase III alpha
solute carrier family 23 member 1
FLVCR heme transporter 2
leucine rich repeat containing 7
proteasome 20S subunit alpha 1
RuvB like AAA ATPase 1
NKD inhibitor of WNT signaling pathway 1
nucleolar complex associated 4 homolog
cyclin dependent kinase 12
cathepsin A
integrin linked kinase
vesicle associated membrane protein 3
WD repeat domain 81

thymidine phosphorylase
dehydrogenase/reductase 7
zinc finger protein 469
cytochrome b5 type B
zinc finger protein 215
syntaxin 12
uveal autoantigen with coiled-coil domains and ankyrin repeats
zinc finger protein 671
C-type lectin domain family 4 member C
chromosome 13 open reading frame 46
dual specificity phosphatase 13
ATPase H⁺ transporting V0 subunit d1
phospholipase A and acyltransferase 2
UDP-glucose pyrophosphorylase 2
ubiquitin like 5
centrosomal protein 19
single stranded DNA binding protein 4
nucleotide binding protein 2
ribosomal RNA adenine dimethylase domain containing 1
BAF chromatin remodeling complex subunit BCL7A
thyroid stimulating hormone receptor
iron-sulfur cluster assembly enzyme
acyl-CoA synthetase short chain family member 2
SH3 domain binding protein 4
gamma-aminobutyric acid type A receptor subunit rho2
STE20 like kinase
pleckstrin homology and FYVE domain containing 1
inosine triphosphatase
actin related protein 2/3 complex subunit 5 like
glycoprotein V platelet
BAG cochaperone 4
coiled-coil domain containing 167
isocitrate dehydrogenase (NADP(+)) 2
kinesin family member 5C
membrane metalloendopeptidase
TruB pseudouridine synthase family member 2
tumor protein, translationally-controlled 1
PRELI domain containing 1
adenosine deaminase tRNA specific 1
leucine rich repeat containing 45
phospholipase D2
copine 7
ATPase 13A1
G protein-coupled estrogen receptor 1
phosphatidylinositol glycan anchor biosynthesis class V
small integral membrane protein 3

SUMO specific peptidase 6
pre-mRNA processing factor 4
leucine rich repeat containing 6
quiescin sulfhydryl oxidase 1
solute carrier family 38 member 2
aurora kinase A
lymphocyte activating 3
phosphatidylinositol glycan anchor biosynthesis class T
zinc finger protein 66
nuclear factor, interleukin 3 regulated
solute carrier family 15 member 3
actin related protein 1A
transmembrane immune signaling adaptor TYROBP
MYCL proto-oncogene, bHLH transcription factor
RNA exonuclease 2
zinc finger protein 318
cyclin and CBS domain divalent metal cation transport mediator 3
claudin domain containing 2
XK related 7
molybdenum cofactor synthesis 3
nucleolar protein 3
synapsin II
FA complementation group D2
thromboxane A2 receptor
nuclear receptor coactivator 4
RAB6A, member RAS oncogene family
YEATS domain containing 2
coiled-coil and C2 domain containing 2B
small VCP interacting protein
spire type actin nucleation factor 1
formyl peptide receptor 3
regulator of G protein signaling 1
MINDY lysine 48 deubiquitinase 1
protein kinase, DNA-activated, catalytic subunit
zinc finger protein 407
stromal cell derived factor 4
pyruvate dehydrogenase phosphatase regulatory subunit
oxidative stress induced growth inhibitor family member 2
spectrin alpha, non-erythrocytic 1
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta
protein kinase C alpha
potassium channel tetramerization domain containing 21
Wnt family member 10A
solute carrier family 22 member 13
protein arginine methyltransferase 1
ectonucleoside triphosphate diphosphohydrolase 7

HIVEP zinc finger 2
zinc finger protein 721
ferritin heavy chain 1
transmembrane protein 120B
chromosome 10 open reading frame 105
bridging integrator 1
FAM3 metabolism regulating signaling molecule C
solute carrier family 46 member 3
ankyrin repeat domain 13A
membrane associated ring-CH-type finger 9
RecQ like helicase 4
multiple coagulation factor deficiency 2, ER cargo receptor complex subunit
cyclin dependent kinase 6
solute carrier family 26 member 11
tripartite motif containing 28
yippee like 5
zinc finger protein 317
small ubiquitin like modifier 1
olfactomedin like 2B
Rho/Rac guanine nucleotide exchange factor 2
C-C motif chemokine receptor 4
nuclear factor of activated T cells 3
peptidase inhibitor 16
thymidine kinase 1
RNA polymerase I subunit B
prostaglandin D2 receptor
C-type lectin domain containing 6A
tumor protein p53 inducible nuclear protein 2
guanylate cyclase activator 1B
ependymin related 1
WBP2 N-terminal like
zinc finger DHHC-type palmitoyltransferase 14
protein phosphatase 5 catalytic subunit
family with sequence similarity 83 member D
DnaJ heat shock protein family (Hsp40) member B6
interleukin 12 receptor subunit beta 1
translocase of inner mitochondrial membrane 29
calcium voltage-gated channel auxiliary subunit beta 1
intraflagellar transport 20
ring finger protein 11
malectin
MAF bZIP transcription factor
solute carrier organic anion transporter family member 4A1
AXL receptor tyrosine kinase
RAS p21 protein activator 2
hydroxyacyl-CoA dehydrogenase

KH domain containing 1
piezo type mechanosensitive ion channel component 1
aspartate beta-hydroxylase
protein tyrosine phosphatase non-receptor type 12
zinc finger protein, FOG family member 1
WD repeat containing antisense to TP53
adrenoceptor beta 2
erythrocyte membrane protein band 4.1 like 4A
protein arginine methyltransferase 2
lysine demethylase 3B
component of oligomeric golgi complex 8
huntingtin interacting protein 1
KAT8 regulatory NSL complex subunit 1 like
MAX dimerization protein 1
cytochrome P450 family 20 subfamily A member 1
MN1 proto-oncogene, transcriptional regulator
suppressor of cytokine signaling 6
phospholipase D1
dual adaptor of phosphotyrosine and 3-phosphoinositides 1
adaptor related protein complex 3 subunit sigma 2
testis specific serine kinase 6
polynucleotide kinase 3'-phosphatase
protein kinase cAMP-dependent type II regulatory subunit beta
ADAM metallopeptidase with thrombospondin type 1 motif 2
annexin A7
integrin subunit alpha 1
Fas cell surface death receptor
FKBP prolyl isomerase 5
castor zinc finger 1
polypeptide N-acetylgalactosaminyltransferase 5
lymphotoxin beta receptor
G protein subunit gamma 11
oxysterol binding protein like 2
CD163 molecule
lamin B receptor
ubiquitin specific peptidase 12
B-Raf proto-oncogene, serine/threonine kinase
hypoxia inducible factor 1 subunit alpha
zinc finger protein 850
MYC associated factor X
death effector domain containing 2
glycogen synthase kinase 3 beta
VPS29 retromer complex component
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
ribonuclease A family member 3
CD63 molecule

cadherin like and PC-esterase domain containing 1
endoplasmic reticulum protein 29
caseinolytic mitochondrial matrix peptidase chaperone subunit X
nth like DNA glycosylase 1
DEAD/H-box helicase 11
aryl hydrocarbon receptor nuclear translocator like 2
cytochrome P450 family 27 subfamily A member 1
long intergenic non-protein coding RNA 672
zinc finger protein 683
transforming growth factor beta regulator 1
TRAF3 interacting protein 3
carbohydrate sulfotransferase 15
casein kinase 1 alpha 1
RAB33B, member RAS oncogene family
neural cell adhesion molecule 1
galectin 12
tripartite motif containing 8
complement C1s
regulator of G protein signaling 19
signal sequence receptor subunit 3
Ras and Rab interactor 1
NOC2 like nucleolar associated transcriptional repressor
tropomyosin 1
zinc finger CCCH-type containing 12D
COPI coat complex subunit alpha
p53 and DNA damage regulated 1
outer dense fiber of sperm tails 2
zinc finger protein 79
RAB11A, member RAS oncogene family
zinc finger protein 837
DEAD-box helicase 56
family with sequence similarity 53 member C
inhibin subunit beta A
regulator of G protein signaling 2
protein phosphatase 1 regulatory subunit 10
NADH:ubiquinone oxidoreductase subunit A2
dimethylarginine dimethylaminohydrolase 2
CEA cell adhesion molecule 1
actin filament associated protein 1
S100 calcium binding protein A11
mindbomb E3 ubiquitin protein ligase 2
membrane associated ring-CH-type finger 6
TNF superfamily member 15
PBX homeobox 4
adenylate kinase 9
flavin adenine dinucleotide synthetase 1

transmembrane protein 245
armadillo repeat containing 12
zinc finger DHHC-type palmitoyltransferase 20
natural killer cell granule protein 7
SEC11 homolog C, signal peptidase complex subunit
cytochrome P450 family 4 subfamily F member 3
triggering receptor expressed on myeloid cells like 2
suppressor of cytokine signaling 2
dolichyldiphosphatase 1
ring finger and CHY zinc finger domain containing 1
CD27 molecule
transmembrane and coiled-coil domain family 1
zinc finger and BTB domain containing 38
anoctamin 6
UTP6 small subunit processome component
FA core complex associated protein 100
purinergic receptor P2X 7
PAT1 homolog 2
zinc finger protein 264
baculoviral IAP repeat containing 2
inositol-tetrakisphosphate 1-kinase
Rho guanine nucleotide exchange factor 39
Kruppel like factor 3
hemicentin 1
aldehyde dehydrogenase 1 family member L2
dystroglycan 1
leucine zipper and EF-hand containing transmembrane protein 2
GIT ArfGAP 1
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
family with sequence similarity 117 member B
3-hydroxyacyl-CoA dehydratase 1
granulin precursor
glycogen phosphorylase, muscle associated
heat shock factor binding protein 1
ATPase phospholipid transporting 8B1
maestro heat like repeat family member 8
deltex E3 ubiquitin ligase 4
aladin WD repeat nucleoporin
SRP receptor subunit beta
ankyrin repeat domain 9
zinc finger protein 606
zinc finger matrin-type 2
Dexi homolog
alpha-2-macroglobulin
misato mitochondrial distribution and morphology regulator 1
KH-type splicing regulatory protein

dedicator of cytokinesis 2
adaptor related protein complex 4 subunit mu 1
protein tyrosine phosphatase receptor type S
BAG cochaperone 5
EPH receptor A2
Rap guanine nucleotide exchange factor 1
Wnt family member 7A
hematopoietic SH2 domain containing
zinc finger and SCAN domain containing 18
complement C5
zinc finger protein 701
pleckstrin homology domain containing J1
ribosomal protein L7 like 1
tripartite motif containing 24
RNA polymerase III subunit H
glutamic-oxaloacetic transaminase 2
ubiquilin 4
Tax1 binding protein 1
tripartite motif containing 26
transmembrane p24 trafficking protein 10
tissue factor pathway inhibitor
caspase 1
TBC1 domain family member 2
serine incorporator 1
polycomb group ring finger 3
limb development membrane protein 1 like
zinc finger protein 93
aftiphilin
granulysin
speckle type BTB/POZ protein like
sorbin and SH3 domain containing 3
chemerin chemokine-like receptor 1
chromosome 1 open reading frame 56
Ras suppressor protein 1
CST telomere replication complex component 1
phosphatidylinositol-5-phosphate 4-kinase type 2 gamma
solute carrier family 22 member 1
CCZ1 homolog B, vacuolar protein trafficking and biogenesis associated
interleukin 32
proteasome 26S subunit, non-ATPase 6
cutC copper transporter
MYB binding protein 1a
CKLF like MARVEL transmembrane domain containing 2
DnaJ heat shock protein family (Hsp40) member A4
ALG1 chitobiosyldiphosphodolichol beta-mannosyltransferase
GINS complex subunit 4

zinc finger protein 273
UbiA prenyltransferase domain containing 1
NACC family member 2
Ras association domain family member 3
novel protein, identical to neuroblastoma breakpoint family, member 19 NBPF19
calcineurin like EF-hand protein 1
TSR1 ribosome maturation factor
mitochondrial ribosomal protein S27
phosphodiesterase 9A
Rab9 effector protein with kelch motifs
immunoglobulin superfamily member 6
spermatogenesis associated 20
solute carrier family 12 member 2
splicing factor 3a subunit 2
rabaptin, RAB GTPase binding effector protein 1
transmembrane protein 161A
myosin IE
lipopolysaccharide induced TNF factor
C-terminal Src kinase
stromal cell derived factor 2 like 1
thiosulfate sulfurtransferase like domain containing 3
chloride intracellular channel 4
IQ motif containing D
X-prolyl aminopeptidase 3
lymphoid enhancer binding factor 1
myotubularin related protein 10
notch receptor 4
family with sequence similarity 89 member A
TSPY like 5
C-C motif chemokine receptor 1
selenoprotein F
serine peptidase inhibitor, Kunitz type 1
c-Maf inducing protein
egl-9 family hypoxia inducible factor 1
ASXL transcriptional regulator 2
Fc fragment of IgG receptor IIIb
Rho guanine nucleotide exchange factor 37
myotubularin related protein 3
lysophosphatidylglycerol acyltransferase 1
calreticulin
Sp3 transcription factor
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 2
cAMP responsive element binding protein like 2
GRAM domain containing 2B
interleukin 17 receptor E
proline rich 29

translocase of inner mitochondrial membrane 9
DLG associated protein 3
phospholipase C delta 3
tectonic family member 3
myosin XIX
serpin family H member 1
MOB kinase activator 1A
N-myc and STAT interactor
transient receptor potential cation channel subfamily V member 4
transforming growth factor alpha
kelch like family member 18
exostosin glycosyltransferase 2
DOP1 leucine zipper like protein B
karyopherin subunit alpha 2
annexin A2
cyclin A2
RAB GTPase activating protein 1 like
GTP binding protein 1
transmembrane protein 30A
leucine rich repeat containing 56
aldo-keto reductase family 1 member E2
ribonuclease H2 subunit B
aldehyde dehydrogenase 5 family member A1
C-type lectin domain family 1 member A
transmembrane protein 71
kelch like family member 29
chromosome 14 open reading frame 132
MCF.2 cell line derived transforming sequence like
peptidylprolyl isomerase B
amine oxidase copper containing 1
lysine acetyltransferase 14
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1
HEAT repeat containing 1
electron transfer flavoprotein dehydrogenase
BSD domain containing 1
sperm associated antigen 1
DnaJ heat shock protein family (Hsp40) member A3
phosphatase and actin regulator 1
endonuclease G
BRI3 binding protein
mitogen-activated protein kinase kinase kinase 10
ventricular zone expressed PH domain containing 1
guanylate cyclase 1 soluble subunit beta 1
GEM interacting protein
muscleblind like splicing regulator 2
solute carrier family 30 member 1

bisphosphoglycerate mutase
Rho GTPase activating protein 9
fibronectin type III domain containing 11
SH3 domain binding protein 2
mitochondrial ribosomal protein L52
isoleucyl-tRNA synthetase 1
NAD kinase
myotrophin
procollagen-lysine,2-oxoglutarate 5-dioxygenase 2
myeloid derived growth factor
spermatogenesis associated 6
glucuronidase beta
NECAP endocytosis associated 2
whirlin
dolichyl-diphosphooligosaccharide--protein glycosyltransferase non-catalytic subunit
MEFV innate immunity regulator, pyrin
Fc receptor like 1
membrane palmitoylated protein 3
oncoprotein induced transcript 3
adenylate cyclase 3
RTF1 homolog, Paf1/RNA polymerase II complex component
ubiquitin specific peptidase like 1
phosphoribosylformylglycinamide synthase
TNF receptor superfamily member 10c
crystallin beta-gamma domain containing 1
lines homolog 1
SP140 nuclear body protein
ERCC excision repair 3, TFIIH core complex helicase subunit
transmembrane protein 268
chromobox 3
transmembrane protein 109
receptor transporter protein 5 (putative)
ephrin A1
baculoviral IAP repeat containing 5
RNA binding protein with serine rich domain 1
ubiquitin like modifier activating enzyme 7
nebulette
endosome-lysosome associated apoptosis and autophagy regulator 1
VOPP1 WW domain binding protein
IQ motif containing N
NLR family CARD domain containing 3
PR/SET domain 5
zinc finger protein 791
zinc finger CCCH-type containing 7B
vascular endothelial growth factor B
enoyl-CoA delta isomerase 1

dehydrogenase/reductase 9
dehydrogenase/reductase 3
striatin 4
THO complex 7
centrosomal protein 164
copine 2
peroxisomal trans-2-enoyl-CoA reductase
anaphase promoting complex subunit 5
absent in melanoma 2
amidohydrolase domain containing 2
TRAF3 interacting protein 2
cullin 3
beta-1,3-glucuronyltransferase 1
Bet1 golgi vesicular membrane trafficking protein like
lipoic acid synthetase
thymocyte selection associated family member 2
nucleoporin 155
capping actin protein, gelsolin like
cyclin B1 interacting protein 1
charged multivesicular body protein 4B
sarcolemma associated protein
polypyrimidine tract binding protein 1
ribonuclease P/MRP subunit p38
ras homolog family member T1
cyclin B1
CDC42 small effector 2
protein tyrosine phosphatase 4A2
SET domain containing 5
kinesin family member 5B
dehydrodolichyl diphosphate synthase subunit
argonaute RISC catalytic component 3
carbohydrate sulfotransferase 14
adenosine deaminase
selenophosphate synthetase 2
DnaJ heat shock protein family (Hsp40) member C30
replication factor C subunit 5
sterile alpha motif domain containing 3
proteasome 20S subunit beta 3
large tumor suppressor kinase 2
BCL2 like 11
aryl hydrocarbon receptor nuclear translocator
potassium two pore domain channel subfamily K member 13
chitobiase
MOB kinase activator 3B
nuclear distribution C, dynein complex regulator
ribosomal RNA processing 8

CD70 molecule
Kruppel like factor 4
potassium two pore domain channel subfamily K member 17
aryl hydrocarbon receptor nuclear translocator like
coiled-coil domain containing 106
nudix hydrolase 5
CD2 molecule
general transcription factor IIIC subunit 2
presenilin 2
solute carrier family 22 member 14
breast carcinoma amplified sequence 4
G protein subunit alpha o1
cell division cycle 73
G protein subunit alpha q
collagen type VI alpha 2 chain
zinc finger protein 611
zinc finger protein 684
coenzyme Q7, hydroxylase
WD repeat domain 76
killer cell lectin like receptor G1
cyclin D1
ZW10 interacting kinetochore protein
SATB homeobox 2
OPA1 mitochondrial dynamin like GTPase
LDL receptor related protein 10
SPG7 matrix AAA peptidase subunit, paraplegin
abl interactor 1
ring finger protein 8
novel protein
acidic residue methyltransferase 1
leptin receptor
cereblon
AT-rich interaction domain 3A
SLP adaptor and CSK interacting membrane protein
zinc finger protein 440
SPT5 homolog, DSIF elongation factor subunit
hook microtubule tethering protein 2
transducin beta like 3
cilia and flagella associated protein 161
codanin 1
dishevelled associated activator of morphogenesis 1
potassium voltage-gated channel subfamily A member 2
ubiquitin specific peptidase 3
transmembrane protein 94
origin recognition complex subunit 1
lipoxygenase homology domains 1

TNF receptor superfamily member 11a
stabilin 1
StAR related lipid transfer domain containing 5
interferon alpha inducible protein 27 like 1
uridine-cytidine kinase 1 like 1
Rho associated coiled-coil containing protein kinase 1
TSC complex subunit 2
plasminogen receptor with a C-terminal lysine
NIMA related kinase 4
histone deacetylase 10
zinc finger protein 697
xylosyltransferase 1
solute carrier family 26 member 5
DNA methyltransferase 3 alpha
CD8a molecule
dihydrolipoamide branched chain transacylase E2
DNA polymerase delta 2, accessory subunit
butyrophilin subfamily 3 member A2
family with sequence similarity 177 member B
phosphofructokinase, liver type
coiled-coil domain containing 126
intermediate filament family orphan 2
cell division cycle associated 8
queuine tRNA-ribosyltransferase catalytic subunit 1
hydroxysteroid 17-beta dehydrogenase 11
solute carrier family 41 member 2
ADP ribosylation factor like GTPase 3
FES proto-oncogene, tyrosine kinase
glyoxalase I
TMEM9 domain family member B
sterile alpha motif domain containing 8
DiGeorge syndrome critical region gene 2
aldehyde dehydrogenase 1 family member B1
zinc finger protein 217
pre-mRNA processing factor 31
granule associated Rac and RHOG effector 1
WNK lysine deficient protein kinase 1
beta-1,3-galactosyltransferase 2
transmembrane protein 59
microtubule affinity regulating kinase 3
NEDD4 binding protein 3
transmembrane protein 134
translocase of outer mitochondrial membrane 40
UDP-glucuronate decarboxylase 1
succinate dehydrogenase complex subunit C
inositol polyphosphate-5-phosphatase D

cleavage and polyadenylation specific factor 4
DnaJ heat shock protein family (Hsp40) member A1
obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF
MYB proto-oncogene, transcription factor
UBA domain containing 1
EF-hand domain family member B
t-complex 11 like 2
G protein subunit gamma 2
tRNA aspartic acid methyltransferase 1
TUB like protein 3
SP140 nuclear body protein like
non-SMC condensin I complex subunit H
transketolase
RAP1A, member of RAS oncogene family
latent transforming growth factor beta binding protein 1
leucine rich repeat containing 4
TRAF family member associated NFkB activator
striated muscle enriched protein kinase
SH3 and cysteine rich domain
serine protease 41
zinc finger protein 276
centrosomal protein 78
collagen type XIX alpha 1 chain
cytochrome b5 type A
family with sequence similarity 184 member A
TBCC domain containing 1
oxysterol binding protein like 7
forkhead box M1
ZNF559-ZNF177 readthrough
sestrin 3
cold shock domain containing E1
solute carrier family 36 member 4
tubulin beta class I
HEAT repeat containing 5A
annexin A1
SEC62 homolog, preprotein translocation factor
glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase
NIPA magnesium transporter 1
vesicle transport through interaction with t-SNAREs 1B
cyclin E2
novel protein, ZNRF2-LINC01176 readthrough
leucine rich repeat neuronal 1
chromodomain helicase DNA binding protein 4
hemoglobin subunit delta
RAB, member RAS oncogene family like 6
sprouty RTK signaling antagonist 2

splicing factor 3b subunit 3
BUD23 rRNA methyltransferase and ribosome maturation factor
NME/NM23 nucleoside diphosphate kinase 6
phosphate cytidyltransferase 2, ethanolamine
zinc finger DHHC-type palmitoyltransferase 17
semenogelin 1
CCR4-NOT transcription complex subunit 8
mechanistic target of rapamycin kinase
nei like DNA glycosylase 1
serine incorporator 3
zinc finger protein 688
B9 domain containing 1
aldo-keto reductase family 1 member B
CD1e molecule
family with sequence similarity 114 member A1
inducible T cell costimulator
transmembrane protein 88
spexin hormone
fibronectin type III and SPRY domain containing 1 like
SET binding factor 1
MICAL like 1
ral guanine nucleotide dissociation stimulator like 3
Abelson helper integration site 1
transmembrane protein 183A
retrotransposon Gag like 6
transcription factor CP2
SUMO specific peptidase 5
chromobox 8
calsyntenin 1
mesenchyme homeobox 1
GA binding protein transcription factor subunit beta 2
GEN1 Holliday junction 5' flap endonuclease
RAB1A, member RAS oncogene family
salt inducible kinase 1B (putative)
dolichyl-phosphate N-acetylglucosaminophosphotransferase 1
transmembrane and coiled-coil domains 4
ataxin 7 like 3
NSE1 homolog, SMC5-SMC6 complex component
leucine rich repeat containing G protein-coupled receptor 6
family with sequence similarity 153 member A
nucleolar and coiled-body phosphoprotein 1
LSM4 homolog, U6 small nuclear RNA and mRNA degradation associated
sialic acid binding Ig like lectin 8
ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1
charged multivesicular body protein 2B
tetratricopeptide repeat domain 22

serine palmitoyltransferase long chain base subunit 1
adenosine kinase
interferon regulatory factor 2
Rho GTPase activating protein 31
ninein
glycerophosphodiester phosphodiesterase 1
secretory carrier membrane protein 3
extended synaptotagmin 1
interleukin 6 receptor
adenosylhomocysteinase
oligodendrocyte transcription factor 2
serine protease 33
protein O-linked mannose N-acetylglucosaminyltransferase 1 (beta 1,2-)
Rap guanine nucleotide exchange factor 4
hexokinase 1
endoplasmic reticulum oxidoreductase 1 alpha
ring finger protein 145
TRIM39-RPP21 readthrough
integrator complex subunit 11
SH3 domain and tetratricopeptide repeats 2
ATPase phospholipid transporting 8B2
phospholipase B domain containing 2
midnolin
Rho GTPase activating protein 17
erb-b2 receptor tyrosine kinase 2
TERF2 interacting protein
cullin 4A
protein kinase cAMP-dependent type I regulatory subunit alpha
ring finger protein 144B
lipocalin 12
adipogenesis associated Mth938 domain containing
platelet factor 4 variant 1
lipid droplet associated hydrolase
basic leucine zipper and W2 domains 2
8-oxoguanine DNA glycosylase
RAB37, member RAS oncogene family
SH2 domain containing 3C
zyxin
cytochrome P450 family 46 subfamily A member 1
lysine acetyltransferase 6A
unk zinc finger
ring finger protein 149
FCH and double SH3 domains 2
potassium calcium-activated channel subfamily M regulatory beta subunit 4
regulator of G protein signaling 9
translocase of inner mitochondrial membrane 44

Ran GTPase activating protein 1
cullin 7
RAP1 GTPase activating protein
tenascin R
novel transcript
nudix hydrolase 17
PRR5-ARHGAP8 readthrough
H2A.Z variant histone 1
DEAD-box helicase 42
hyperpolarization activated cyclic nucleotide gated potassium and sodium channel 2
allograft inflammatory factor 1
SH3 domain binding glutamate rich protein like 2
RUN and FYVE domain containing 1
cell division cycle associated 5
lymphocyte cytosolic protein 2
ring finger protein 130
caspase 10
ATP binding cassette subfamily F member 3
tropomyosin 4
hyaluronan synthase 3
novel protein
NOP2/Sun RNA methyltransferase 4
procollagen-lysine,2-oxoglutarate 5-dioxygenase 3
Rho guanine nucleotide exchange factor 19
apolipoprotein B mRNA editing enzyme catalytic subunit 3G
myosin IB
adhesion G protein-coupled receptor G5
DEAD-box helicase 54
thioredoxin domain containing 17
leucine rich repeat and fibronectin type III domain containing 4
cyclin dependent kinase 4
ALG2 alpha-1,3/1,6-mannosyltransferase
cryptochrome circadian regulator 2
heat shock protein family A (Hsp70) member 12A
RAS related
inositol 1,4,5-trisphosphate receptor type 1
twintin actin binding protein 2
regulator of G protein signaling 14
transmembrane protein 62
CDGSH iron sulfur domain 2
tripartite motif containing 68
CD151 molecule (Raph blood group)
cyclin dependent kinase 11B
splicing factor 3b subunit 6
ArfGAP with FG repeats 1
cyclic nucleotide gated channel subunit alpha 4

Rho GTPase activating protein 21
DExH-box helicase 9
F-box protein 15
proline, glutamate and leucine rich protein 1
solute carrier family 12 member 6
polypeptide N-acetylgalactosaminyltransferase 1
ring finger protein 2
patatin like phospholipase domain containing 1
partner of NOB1 homolog
potassium voltage-gated channel subfamily C member 4
SLC2A4 regulator
guanylate cyclase 1 soluble subunit alpha 1
furin, paired basic amino acid cleaving enzyme
argonaute RISC component 4
mitochondrial rRNA methyltransferase 1
serine and arginine rich splicing factor 8
drebrin like
tripartite motif containing 62
peroxiredoxin 3
PHD finger protein 1
metastasis associated 1
PHD finger protein 24
erythroferrone
ubiquitin protein ligase E3 component n-recognin 7
putative homeodomain transcription factor 2
platelet derived growth factor D
acyl-CoA synthetase medium chain family member 3
C-X3-C motif chemokine receptor 1
peptidylprolyl isomerase F
spectrin alpha, erythrocytic 1
ELOVL fatty acid elongase 5
ring finger protein 146
solute carrier family 22 member 23
ras homolog family member G
annexin A6
NDC80 kinetochore complex component
ADP ribosylation factor like GTPase 4C
uroporphyrinogen decarboxylase
ubiquitin like with PHD and ring finger domains 1
phosphatidylinositol glycan anchor biosynthesis class H
cytochrome P450 family 4 subfamily F member 22
phosphoinositide-3-kinase interacting protein 1
proliferation-associated 2G4
torsin family 4 member A
family with sequence similarity 117 member A
non-SMC condensin I complex subunit G

COP9 signalosome subunit 7B
S-phase kinase associated protein 1
transmembrane 6 superfamily member 1
tumor necrosis factor
HEAT repeat containing 5B
fibrosin like 1
adhesion G protein-coupled receptor B2
novel protein
WD repeat domain 45B
FtsJ RNA 2'-O-methyltransferase 3
3-hydroxy-3-methylglutaryl-CoA reductase
zinc finger FYVE-type containing 27
bridging integrator 3
trafficking kinesin protein 2
ATPase Na⁺/K⁺ transporting subunit beta 1
mitogen-activated protein kinase kinase 3
glia maturation factor beta
RAB5 interacting factor
triokinase and FMN cyclase
triggering receptor expressed on myeloid cells like 1
solute carrier family 39 member 14
acetylcholinesterase (Cartwright blood group)
calpain 15
RNA exonuclease 1 homolog
purinergic receptor P2Y11
histocompatibility minor 13
chromosome 12 open reading frame 73
diphthamide biosynthesis 7
serine peptidase inhibitor Kazal type 8 (putative)
E4F transcription factor 1
Ras related GTP binding D
inositol hexakisphosphate kinase 2
minichromosome maintenance complex component 4
proteasome 26S subunit, non-ATPase 4
dual specificity phosphatase 2
tRNA methyltransferase 10B
ubiquitin conjugating enzyme E2 O
PR/SET domain 4
GATA zinc finger domain containing 2A
enhancer of mRNA decapping 3
nucleoporin 210
CBFA2/RUNX1 partner transcriptional co-repressor 2
dual specificity phosphatase 4
calmodulin binding transcription activator 2
G2 and S-phase expressed 1
zinc finger protein like 1

BTB domain containing 3
zinc finger protein 821
ribonucleotide reductase regulatory subunit M2
platelet derived growth factor receptor beta
sphingomyelin synthase 1
protein kinase cAMP-activated catalytic subunit alpha
cysteine rich protein 3
adhesion G protein-coupled receptor A3
serine/threonine kinase 4
WD repeat domain 37
serine/threonine kinase 25
leucine rich repeat containing 20
N-acetyltransferase 10
SP100 nuclear antigen
thioredoxin reductase 3
CDC42 effector protein 1
lunapark, ER junction formation factor
methionine adenosyltransferase 2A
glycophorin B (MNS blood group)
ArfGAP with GTPase domain, ankyrin repeat and PH domain 1
acyl-CoA dehydrogenase family member 10
FAM20C golgi associated secretory pathway kinase
PDZ domain containing 2
janus kinase and microtubule interacting protein 2
kelch repeat and BTB domain containing 2
zinc finger protein 707
zinc finger protein 875
poly(rC) binding protein 3
GATA zinc finger domain containing 1
zinc finger CCCH-type containing 12C
laminin subunit beta 3
adenosine A2b receptor
CCR4-NOT transcription complex subunit 11
zinc finger family member 783
ret finger protein like 2
ORAI calcium release-activated calcium modulator 2
apolipoprotein L3
chondrolectin
chromosome 1 open reading frame 198
family with sequence similarity 32 member A
Ras protein specific guanine nucleotide releasing factor 2
ADAMTS like 5
bleomycin hydrolase
coenzyme Q10A
Ras and Rab interactor 3
zinc finger protein 211

L3MBTL histone methyl-lysine binding protein 2
DIRAS family GTPase 1
transmembrane 131 like
lipin 2
H3.3 histone B
testis associated actin remodelling kinase 2
regenerating family member 4
beta-secretase 1
tripartite motif containing 21
serine protease 23
trimethylguanosine synthase 1
glycerophosphodiester phosphodiesterase domain containing 5
chromosome 6 open reading frame 136
nectin cell adhesion molecule 2
nuclear receptor coactivator 1
dual specificity tyrosine phosphorylation regulated kinase 4
component of oligomeric golgi complex 4
eukaryotic translation initiation factor 5
isopentenyl-diphosphate delta isomerase 1
multiple EGF like domains 8
sine oculis binding protein homolog
desumoylating isopeptidase 1
heat shock protein family A (Hsp70) member 1 like
zinc finger protein 436
polo like kinase 1
mitogen-activated protein kinase kinase kinase 1
zinc finger CCHC-type containing 7
thioredoxin domain containing 15
E2F transcription factor 8
novel twinfilin, actin-binding protein, homolog 2 (Drosophila) (TWF2) and toll-like rec
coiled-coil domain containing 88A
caldesmon 1
TSC22 domain family member 4
zinc finger FYVE-type containing 19
centrosomal protein 85
leucine rich repeat containing 47
VANGL planar cell polarity protein 1
thymidylate synthetase
meiosis regulator and mRNA stability factor 1
carboxypeptidase Q
T cell activation RhoGTPase activating protein
RFX family member 8, lacking RFX DNA binding domain
coiled-coil domain containing 68
oxysterol binding protein like 11
dedicator of cytokinesis 1
protein O-glucosyltransferase 2

pellino E3 ubiquitin protein ligase family member 3
solute carrier family 35 member A5
BTB domain containing 2
alpha hemoglobin stabilizing protein
recoverin
COPI coat complex subunit beta 2
cyclin Y
junction plakoglobin
abhydrolase domain containing 12, lysophospholipase
galectin 9C
adenosine deaminase RNA specific
coiled-coil domain containing 137
RUS family member 1
tripartite motif containing 27
Rab interacting lysosomal protein like 2
LSM1 homolog, mRNA degradation associated
KN motif and ankyrin repeat domains 1
exosome component 10
DNA polymerase mu
mitochondrial ribosomal protein L4
carboxymethylenebutenolidase homolog
mitofusin 2
tonsoku like, DNA repair protein
GPN-loop GTPase 2
zinc finger protein 366
C1D nuclear receptor corepressor
WD repeat domain 18
methyltransferase like 1
TNF superfamily member 10
novel protein
protocadherin related 15
abhydrolase domain containing 2, acylglycerol lipase
menin 1
PC-esterase domain containing 1A
BAR/IMD domain containing adaptor protein 2 like 1
fucosyltransferase 10
DnaJ heat shock protein family (Hsp40) member C13
COPI coat complex subunit beta 1
coiled-coil-helix-coiled-coil-helix domain containing 4
MTSS I-BAR domain containing 1
solute carrier family 4 member 10
rogdi atypical leucine zipper
lysine acetyltransferase 8
Ly1 antibody reactive
chromatin licensing and DNA replication factor 1
MINDY lysine 48 deubiquitinase 3

glucuronic acid epimerase
proteasome activator subunit 4
prolyl 3-hydroxylase family member 4 (inactive)
cell division cycle 40
immunoglobulin superfamily member 22
nuclear receptor subfamily 1 group D member 1
hydroxysteroid dehydrogenase like 2
high mobility group nucleosomal binding domain 4
ubiquitin specific peptidase 19
G protein subunit alpha 13
tetratricopeptide repeat domain 7A
ADAM metallopeptidase domain 23
myosin VIIB
NGFI-A binding protein 1
exportin 1
pre-mRNA processing factor 8
GDP dissociation inhibitor 2
dynactin subunit 2
kalirin RhoGEF kinase
X-ray repair cross complementing 5
asialoglycoprotein receptor 1
coiled-coil domain containing 69
syndecan 2
catenin beta 1
TRIO and F-actin binding protein
WD repeat domain 4
solute carrier family 39 member 13
zinc metallopeptidase STE24
butyrophilin subfamily 3 member A1
DAB2 interacting protein
tumor protein p53 binding protein 2
SDS3 homolog, SIN3A corepressor complex component
kielin cysteine rich BMP regulator
ZFP36 ring finger protein
AT-rich interaction domain 4A
BRCA1 associated ATM activator 1
enoyl-CoA hydratase, short chain 1
zinc finger protein 696
interferon gamma receptor 1
early growth response 1
ankyrin repeat domain 52
HMG-box containing 3
dishevelled segment polarity protein 1
coenzyme Q4
centromere protein N
Rho GTPase activating protein 11A

zinc finger MYND-type containing 10
SPARC (osteonectin), cwcw and kazal like domains proteoglycan 2
HBS1 like translational GTPase
outer mitochondrial membrane lipid metabolism regulator OPA3
kinesin family member 3B
ring finger protein 14
E74 like ETS transcription factor 2
FKBP prolyl isomerase 14
DNA cross-link repair 1C
myotubularin related protein 14
PEAK1 related, kinase-activating pseudokinase 1
ubiquitin conjugating enzyme E2 B
D-glutamate cyclase
ubiquitin specific peptidase 35
caveolae associated protein 2
EGF containing fibulin extracellular matrix protein 2
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8
cyclin B2
tripartite motif containing 71
H2A.Z variant histone 2
FAM3 metabolism regulating signaling molecule B
vesicle trafficking 1
pitrilysin metallopeptidase 1
GINS complex subunit 1
adhesion G protein-coupled receptor E3
ABL proto-oncogene 1, non-receptor tyrosine kinase
thioredoxin like 1
chromosome 7 open reading frame 31
epithelial cell adhesion molecule
fumarate hydratase
1-acylglycerol-3-phosphate O-acyltransferase 3
family with sequence similarity 120A opposite strand
Ras association domain family member 7
NIMA related kinase 2
nuclear receptor subfamily 3 group C member 1
frizzled class receptor 5
clusterin associated protein 1
proline-serine-threonine phosphatase interacting protein 1
galectin 3
nucleoporin 50
phosphatidylinositol specific phospholipase C X domain containing 2
Rho guanine nucleotide exchange factor 12
glycophorin A (MNS blood group)
HPS4 biogenesis of lysosomal organelles complex 3 subunit 2
CKLF like MARVEL transmembrane domain containing 3
coiled-coil domain containing 88C

TPX2 microtubule nucleation factor
defective in cullin neddylation 1 domain containing 1
glutamic-oxaloacetic transaminase 1
replication factor C subunit 3
clusterin
ubiquilin 1
coiled-coil domain containing 86
fumarylacetoacetate hydrolase domain containing 2B
activating transcription factor 7 interacting protein 2
TraB domain containing 2A
collagen type XXIV alpha 1 chain
transmembrane protein 50A
VPS54 subunit of GARP complex
mutS homolog 3
dihydroorotate dehydrogenase (quinone)
cytohesin 1
septin 2
acid phosphatase 1
interferon gamma inducible protein 16
inositol 1,4,5-trisphosphate receptor interacting protein
nucleotide binding oligomerization domain containing 2
killer cell lectin like receptor F1
chromosome 14 open reading frame 28
F-box protein 28
carboxypeptidase X, M14 family member 2
mitochondrial fission factor
NFKB activating protein like
lymphocyte antigen 6 family member E
BLM RecQ like helicase
CD38 molecule
phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase
TNF receptor superfamily member 18
ceramide synthase 3
TATA-box binding protein like 1
interleukin 20 receptor subunit beta
cytochrome c oxidase subunit 7A2
PHD finger protein 23
TTK protein kinase
troponin I2, fast skeletal type
protein kinase C substrate 80K-H
TNF receptor superfamily member 1A
WW domain binding protein 4
ferredoxin reductase
family with sequence similarity 160 member B2
MAU2 sister chromatid cohesion factor
sarcoglycan epsilon

ribosomal RNA processing 36
nucleoporin 43
oxoeicosanoid receptor 1
cilia and flagella associated protein 54
activin A receptor type 2A
lipase H
5', 3'-nucleotidase, cytosolic
ankyrin repeat and MYND domain containing 2
siaH E3 ubiquitin protein ligase 2
DNA ligase 3
NIN1 (RPN12) binding protein 1 homolog
cyclin G associated kinase
replication factor C subunit 2
phosphoribosyl transferase domain containing 1
ubiquitin specific peptidase 45
FYN proto-oncogene, Src family tyrosine kinase
endoplasmic reticulum lectin 1
creatine kinase B
JNK1/MAPK8 associated membrane protein
intraflagellar transport associated protein
methylcrotonoyl-CoA carboxylase 2
cell migration inducing hyaluronidase 2
Cas scaffold protein family member 4
CD244 molecule
CTD small phosphatase like
HGH1 homolog
NDUFA4 mitochondrial complex associated
potassium calcium-activated channel subfamily N member 4
SFT2 domain containing 1
tetraspanin 9
zinc finger C3HC-type containing 1
low density lipoprotein receptor class A domain containing 3
cadherin related family member 2
phosphatidylinositol glycan anchor biosynthesis class W
carbonic anhydrase 1
RWD domain containing 2B
Suv3 like RNA helicase
serpin family F member 2
nuclear receptor binding protein 1
tetratricopeptide repeat domain 8
FUS RNA binding protein
phospholipase D family member 3
TIMP metalloproteinase inhibitor 2
lamin B2
novel protein
phospholipase C eta 2

cell division cycle 123
tudor and KH domain containing
endogenous retrovirus group K3 member 1
novel protein
ring finger protein 13
LRP2 binding protein
regulator of chromosome condensation 1
zinc finger protein 692
galactosamine (N-acetyl)-6-sulfatase
ecotropic viral integration site 2B
chromosome 14 open reading frame 93
nucleolar protein with MIF4G domain 1
eukaryotic translation initiation factor 1B
RecQ mediated genome instability 2
mitogen-activated protein kinase 7
SLU7 homolog, splicing factor
CD302 molecule
integrin subunit alpha 6
sirtuin 3
methionyl aminopeptidase 1
eukaryotic translation termination factor 1
LLLL and CFNLAS motif containing 1
glutaredoxin 5
PHD finger protein 7
zinc finger protein 35
nuclear factor of activated T cells 2
phosphoglucomutase 5
H2B clustered histone 21
ganglioside induced differentiation associated protein 2
ubiquitin specific peptidase 21
interleukin 1 receptor type 1
NLR family pyrin domain containing 1
mitochondrial ribosomal protein S16
ATPase H⁺ transporting V0 subunit a2
zinc finger AN1-type containing 3
family with sequence similarity 217 member B
coiled-coil-helix-coiled-coil-helix domain containing 10
terminal nucleotidyltransferase 2
integrator complex subunit 4
NIPA like domain containing 4
neurochondrin
ADAM metallopeptidase with thrombospondin type 1 motif 3
neuroepithelial cell transforming 1
proteasome 26S subunit, ATPase 6
translational activator of cytochrome c oxidase I
solute carrier family 38 member 10

tubulin gamma complex associated protein 6
SH2 domain containing 2A
BICD cargo adaptor 2
potassium voltage-gated channel subfamily Q member 1
nucleosome assembly protein 1 like 4
regulator of G protein signaling 10
cadherin 26
phosphodiesterase 3B
kelch like family member 26
PPARG related coactivator 1
small nuclear ribonucleoprotein U1 subunit 70
sphingosine-1-phosphate phosphatase 2
collagen type XXIII alpha 1 chain
small integral membrane protein 5
KN motif and ankyrin repeat domains 2
zinc finger DHHC-type containing 11B
RAD9 checkpoint clamp component A
SWI/SNF related, matrix associated, actin dependent regulator of chromatin subfamily
major facilitator superfamily domain containing 13A
leucine rich repeat containing 34
olfactomedin like 2A
myosin light chain 9
PZP alpha-2-macroglobulin like
ubiquitin specific peptidase 38
inositol 1,4,5-trisphosphate receptor type 2
sorting nexin 1
ATPase phospholipid transporting 8B4 (putative)
tetratricopeptide repeat domain 32
coronin 1C
fascin actin-bundling protein 3
nanos C2HC-type zinc finger 3
phosphoglycerate mutase 1
cornichon family AMPA receptor auxiliary protein 1
lysine methyltransferase 5C
refilin B
WD repeat domain 74
family with sequence similarity 241 member B
homeodomain interacting protein kinase 3
zinc finger and BTB domain containing 47
insulin receptor substrate 2
zinc finger protein 134
negative elongation factor complex member C/D
alkB homolog 4, lysine demethylase
fuzzy planar cell polarity protein
zinc finger and BTB domain containing 34
solute carrier family 38 member 1

SIGLEC family like 1
pescadillo ribosomal biogenesis factor 1
abhydrolase domain containing 11
CD160 molecule
ATPase H⁺ transporting V1 subunit B2
cytochrome P450 family 4 subfamily F member 12
F-box protein 11
zinc finger and BTB domain containing 44
TATA-box binding protein associated factor, RNA polymerase I subunit C
solute carrier family 25 member 24
YME1 like 1 ATPase
ring finger protein 115
interleukin 1 receptor associated kinase 1 binding protein 1
cadherin related 23
novel protein
ATPase H⁺ transporting V0 subunit e1
retinol binding protein 7
eukaryotic translation initiation factor 2B subunit alpha
KRI1 homolog
DIX domain containing 1
chromosome alignment maintaining phosphoprotein 1
tubulin gamma 1
transmembrane inner ear
sigma non-opioid intracellular receptor 1
solute carrier family 25 member 35
galactose-3-O-sulfotransferase 4
proliferation and apoptosis adaptor protein 15
cysteine rich transmembrane BMP regulator 1
zinc finger RANBP2-type containing 1
membrane bound O-acyltransferase domain containing 1
transmembrane p24 trafficking protein 4
C-X-C motif chemokine ligand 1
RuvB like AAA ATPase 2
torsin family 1 member A
family with sequence similarity 114 member A2
KIAA0930
activin A receptor type 1
PGAM family member 5, mitochondrial serine/threonine protein phosphatase
serine and arginine repetitive matrix 1
novel transcript
LIM and SH3 protein 1
Rho guanine nucleotide exchange factor 10 like
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1G
CTD small phosphatase like 2
2',3'-cyclic nucleotide 3' phosphodiesterase

heparan sulfate-glucosamine 3-sulfotransferase 5
sphingomyelin phosphodiesterase 4
cut like homeobox 2
zinc finger protein 33B
lymphatic vessel endothelial hyaluronan receptor 1
E74 like ETS transcription factor 1
superoxide dismutase 1
nuclear receptor coactivator 6
F-box protein 30
BAR/IMD domain containing adaptor protein 2
leucine rich repeat containing 75B
5-hydroxymethylcytosine binding, ES cell specific
developmentally regulated GTP binding protein 2
ring finger protein 121
voltage dependent anion channel 1
ras homolog family member T2
coiled-coil domain containing 149
insulin like growth factor binding protein 2
transcription factor Dp-1
CNKSR family member 3
phosphodiesterase 5A
tRNA splicing endonuclease subunit 34
serine/threonine kinase 32B
ATPase family AAA domain containing 3B
talin 1
RAB19, member RAS oncogene family
ankyrin repeat and death domain containing 1A
cystatin B
MPN domain containing
zinc finger protein 574
plexin D1
electron transfer flavoprotein subunit alpha
solute carrier family 4 member 7
LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated
ring finger protein 111
atonal bHLH transcription factor 8
cactin, spliceosome C complex subunit
SPARC related modular calcium binding 1
BTB domain containing 8
ubiquitin conjugating enzyme E2 J1
cAMP responsive element binding protein 3 like 4
TRIM59 and iFT80 readthrough
zinc finger protein 592
Rieske Fe-S domain containing
golgin A8 family member M
protogenin

transaldolase 1
nudix hydrolase 4
adaptor related protein complex 5 subunit mu 1
chromosome 11 open reading frame 65
endonuclease domain containing 1
MIER1 transcriptional regulator
Ecm29 proteasome adaptor and scaffold
programmed cell death 1 ligand 2
annexin A5
ADP ribosylation factor like GTPase 6 interacting protein 6
coiled-coil domain containing 47
phospholipase A2 group VI
carboxylesterase 1
N-acetylneuraminate synthase
replication termination factor 2
RNA 3'-terminal phosphate cyclase
G-patch domain containing 8
ATPase Na⁺/K⁺ transporting subunit alpha 4
aquarius intron-binding spliceosomal factor
transmembrane protein 201
ring finger protein 227
dynamin 3
LSM11, U7 small nuclear RNA associated
TBC1 domain family member 9
microtubule associated protein RP/EB family member 1
zinc finger SWIM-type containing 9
growth arrest specific 2 like 1
Rho GTPase activating protein 44
ubiquinol-cytochrome c reductase binding protein
ADP-ribosylhydrolase like 1
tripartite motif containing 46
replication factor C subunit 1
diphthamide biosynthesis 2
protein tyrosine phosphatase receptor type G
septin 1
ectopic P-granules autophagy protein 5 homolog
RNA pseudouridine synthase domain containing 2
ubiquitin conjugating enzyme E2 E1
sialic acid binding Ig like lectin 1
small nuclear ribonucleoprotein U5 subunit 200
VPS8 subunit of CORVET complex
sulfotransferase family 1A member 1
DGCR8 microprocessor complex subunit
C-type lectin domain family 1 member B
GTPase activating protein and VPS9 domains 1
THAP domain containing 4

McKusick-Kaufman syndrome
solute carrier family 1 member 7
cell division cycle associated 7
aldo-keto reductase family 1 member C1
rubicon like autophagy enhancer
mitochondrial ribosomal protein L2
tripartite motif containing 47
major histocompatibility complex, class II, DR alpha
nicotinamide nucleotide adenyltransferase 1
otoferlin
adhesion G protein-coupled receptor B3
cell adhesion molecule L1 like
glutaminyl-tRNA synthetase 1
ubiquitin conjugating enzyme E2 H
phosphomannomutase 2
OS9 endoplasmic reticulum lectin
protein kinase cAMP-dependent type II regulatory subunit alpha
tubulin beta 1 class VI
NLR family pyrin domain containing 3
granzyme H
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
myosin VC
major facilitator superfamily domain containing 4B
dachsous cadherin-related 1
RAB3D, member RAS oncogene family
U2 small nuclear RNA auxiliary factor 2
mannose phosphate isomerase
mitochondrial fission regulator 1
UEV and lactate/malate dehydrogenase domains
choline phosphotransferase 1
small ArfGAP 1
Fc receptor like 6
interferon induced transmembrane protein 2
potassium voltage-gated channel subfamily E regulatory subunit 3
interleukin 10
prostaglandin F2 receptor inhibitor
sialic acid binding Ig like lectin 10
exosome component 9
ribosomal RNA processing 1B
arylformamidase
G-patch domain containing 11
RAB6B, member RAS oncogene family
septin 10
nuclear envelope integral membrane protein 1
mitogen-activated protein kinase kinase kinase 2
isocitrate dehydrogenase (NADP(+)) 1

basonuclein 2
interleukin 27
sphingolipid transporter 3 (putative)
cytochrome b561
zinc finger protein 85
alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase B
cysteine rich with EGF like domains 1
microtubule associated monooxygenase, calponin and LIM domain containing 2
F-box protein 21
ABI family member 3
phosphodiesterase 4A
abhydrolase domain containing 14B
coenzyme Q9
ribosomal protein S6 kinase A5
interleukin 1 receptor accessory protein
NLR family CARD domain containing 5
5'-aminolevulinate synthase 1
hydroxylysine kinase
ITPR interacting domain containing 2
SH2B adaptor protein 3
DAZ associated protein 1
DnaJ heat shock protein family (Hsp40) member B9
zinc finger protein 786
basal body orientation factor 1
nucleic acid binding protein 2
nucleobindin 2
FA complementation group A
transportin 3
WD repeat domain 24
trans-2,3-enoyl-CoA reductase
glucosidase alpha, acid
CD93 molecule
adenosine deaminase RNA specific B2 (inactive)
pre-mRNA processing factor 18
A-kinase anchoring protein 5
EPH receptor A4
actin related protein 2/3 complex subunit 3
TIAM Rac1 associated GEF 1
trio Rho guanine nucleotide exchange factor
phospholipase A and acyltransferase 5
peroxisomal biogenesis factor 16
zinc finger protein 831
formin binding protein 1
nuclear receptor binding SET domain protein 2
novel protein
regulatory factor X5

rhomboid domain containing 1
histone deacetylase 2
1-acylglycerol-3-phosphate O-acyltransferase 2
opioid receptor mu 1
5'-nucleotidase, cytosolic IIIA
prefoldin subunit 5
granzyme A
coiled-coil domain containing 24
CBFA2/RUNX1 partner transcriptional co-repressor 3
diphosphoinositol pentakisphosphate kinase 1
solute carrier family 35 member A1
actin related protein 8
G protein-coupled receptor 132
S100 calcium binding protein A4
insulin like growth factor 1 receptor
interferon regulatory factor 9
small vasohibin binding protein
tripartite motif containing 9
opioid growth factor receptor like 1
potassium voltage-gated channel subfamily H member 8
sphingosine-1-phosphate receptor 5
unc-119 lipid binding chaperone B
synaptotagmin 11
WD repeat domain 55
ELOVL fatty acid elongase 7
phosphatidylinositol-4,5-bisphosphate 4-phosphatase 1
zinc finger protein 462
chromosome 9 open reading frame 85
ribokinase
down-regulator of transcription 1
UTP4 small subunit processome component
potassium voltage-gated channel subfamily Q member 5
cytochrome P450 family 26 subfamily B member 1
5-phosphohydroxy-L-lysine phospho-lyase
H2A clustered histone 6
cell division cycle associated 4
transmembrane protein 97
telomere maintenance 2
peroxisomal biogenesis factor 2
ELOVL fatty acid elongase 6
platelet and endothelial cell adhesion molecule 1
N-terminal Xaa-Pro-Lys N-methyltransferase 1
HESX homeobox 1
adducin 3
CUB and Sushi multiple domains 3
glutathione S-transferase zeta 1

ras homolog family member U
poly(A) binding protein interacting protein 2
adenosine monophosphate deaminase 2
NOP2/Sun RNA methyltransferase 6
chromosome 19 open reading frame 44
poly(A) binding protein cytoplasmic 1 like
citramalyl-CoA lyase
protein arginine methyltransferase 7
family with sequence similarity 98 member A
MON1 homolog A, secretory trafficking associated
sterol O-acyltransferase 1
chromobox 7
ribosomal protein L31
RAB21, member RAS oncogene family
zinc finger and SCAN domain containing 21
proline rich coiled-coil 2B
sperm autoantigenic protein 17
hydroxyacylglutathione hydrolase like
TAO kinase 2
arginine and serine rich protein 1
anti-silencing function 1B histone chaperone
Rho GTPase activating protein 32
sequestosome 1
zinc finger protein 70
complement factor D
RAD17 checkpoint clamp loader component
RAR related orphan receptor A
beclin 1
UPF2 regulator of nonsense mediated mRNA decay
mitogen-activated protein kinase 3
store-operated calcium entry associated regulatory factor
histone deacetylase 3
novel protein
neurofibromin 2
C-type lectin domain family 12 member A
Ro60, Y RNA binding protein
single-pass membrane protein with coiled-coil domains 4
solute carrier family 16 member 10
N-acyl ethanolamine acid amidase
ALG3 alpha-1,3- mannosyltransferase
epiplakin 1
parkin coregulated
F-box and leucine rich repeat protein 4
leukocyte immunoglobulin like receptor A2
RELT like 2
WD repeat domain 11

coactosin like F-actin binding protein 1
semaphorin 3G
hemogen
transmembrane protein 219
zinc finger protein 862
golgi glycoprotein 1
interleukin 27 receptor subunit alpha
PTEN induced kinase 1
heterogeneous nuclear ribonucleoprotein A3
Parkinsonism associated deglycase
zinc finger protein 771
colony stimulating factor 3 receptor
signal induced proliferation associated 1 like 2
regulation of nuclear pre-mRNA domain containing 2
semaphorin 4D
spermatogenesis associated 24
spectrin beta, erythrocytic
complement C1r
phenylalanyl-tRNA synthetase subunit beta
SUFU negative regulator of hedgehog signaling
mitochondrial ribosomal protein L10
WD repeat domain 63
symplekin
nucleoporin 42
polypyrimidine tract binding protein 3
post-glycosylphosphatidylinositol attachment to proteins 6
vesicle associated membrane protein 4
zinc finger protein 563
RNA pseudouridine synthase D3
apoptosis antagonizing transcription factor
RAB11 family interacting protein 4
zinc finger protein 383
zinc finger AN1-type containing 2B
cell cycle regulator of NHEJ
derlin 2
thyroid hormone receptor interactor 6
collagen type XVIII alpha 1 chain
DNA fragmentation factor subunit alpha
stromal antigen 1
secreted protein acidic and cysteine rich
PR/SET domain 15
lysine methyltransferase 5B
F-box protein 5
Rac family small GTPase 2
autophagy related 4D cysteine peptidase
transgelin

zinc finger protein 496
membrane spanning 4-domains A4A
coenzyme Q8B
proline rich nuclear receptor coactivator 1
phosphodiesterase 10A
scleraxis bHLH transcription factor
von Willebrand factor A domain containing 5A
transmembrane protein 50B
C-C motif chemokine ligand 4 like 2
NHP2 ribonucleoprotein
ribosomal protein S6 kinase A1
STARD3 N-terminal like
phosphofurin acidic cluster sorting protein 1
ring finger protein 169
mitochondrial rRNA methyltransferase 3
nuclear VCP like
ABO, alpha 1-3-N-acetylgalactosaminyltransferase and alpha 1-3-galactosyltransferase
trafficking protein particle complex 12
phosphodiesterase 1B
hydroxysteroid 11-beta dehydrogenase 1
CCR4-NOT transcription complex subunit 6 like
hydroxysteroid 17-beta dehydrogenase 8
ring finger protein 10
polypeptide N-acetylgalactosaminyltransferase 7
podocalyxin like 2
zinc finger protein 385D
agrin
peptidyl-tRNA hydrolase 2
Rap guanine nucleotide exchange factor 6
cyclin dependent kinase 20
LDL receptor related protein 1B
zinc finger protein 609
F-box and leucine rich repeat protein 8
mannosidase endo-alpha like
amphiregulin
homeostatic iron regulator
zeta chain of T cell receptor associated protein kinase 70
family with sequence similarity 241 member A
CD109 molecule
mex-3 RNA binding family member C
CTD nuclear envelope phosphatase 1 regulatory subunit 1
tetraspanin 2
coiled-coil alpha-helical rod protein 1
LY6G6F-LY6G6D readthrough
nuclear receptor binding SET domain protein 3
pleckstrin homology domain interacting protein

ubiquitin specific peptidase 36
signal recognition particle 14
G protein subunit beta 2
tripartite motif containing 58
opsin 3
carnosine synthase 1
lipase family member N
5'-nucleotidase domain containing 1
histidyl-tRNA synthetase 1
NBR1 autophagy cargo receptor
nucleoporin 85
short transmembrane mitochondrial protein 1
transducer of ERBB2, 1
spindle and kinetochore associated complex subunit 1
importin 11
capping protein regulator and myosin 1 linker 3
heterogeneous nuclear ribonucleoprotein A/B
multiple EGF like domains 9
tetratricopeptide repeat domain 7B
ubinnuclein 1
ribose 5-phosphate isomerase A
CDC like kinase 3
zinc finger protein 235
C-X-C motif chemokine ligand 10
glucosamine-6-phosphate deaminase 1
notch receptor 1
ADP ribosylation factor interacting protein 2
SH2B adaptor protein 1
zinc finger protein 227
solute carrier family 35 member C1
retinoic acid receptor gamma
potassium voltage-gated channel interacting protein 4
RNA polymerase I subunit A
splicing factor 3b subunit 2
period circadian regulator 3
sterol regulatory element binding transcription factor 2
AUP1 lipid droplet regulating VLDL assembly factor
zinc finger CCCH-type containing 7A
transportin 2
zinc finger protein 148
transcobalamin 2
G protein-coupled receptor 135
phosphatidylinositol glycan anchor biosynthesis class C
N-alpha-acetyltransferase 38, NatC auxiliary subunit
ATP binding cassette subfamily C member 11
cytochrome b5 reductase 3

cadherin related family member 1
A-kinase anchoring protein 10
patatin like phospholipase domain containing 2
rhomboid like 1
endoplasmic reticulum-golgi intermediate compartment 1
ciliary rootlet coiled-coil, rootletin
F-box and leucine rich repeat protein 14
C2 calcium dependent domain containing 5
serum/glucocorticoid regulated kinase 1
carnosine N-methyltransferase 1
CCR4-NOT transcription complex subunit 6
EPH receptor B3
T cell-interacting, activating receptor on myeloid cells 1
ribosomal L24 domain containing 1
SAM domain, SH3 domain and nuclear localization signals 1
cyclin dependent kinase 2 associated protein 1
cytochrome b5 domain containing 2
chromosome 3 open reading frame 52
DEAF1 transcription factor
C-type lectin domain family 12 member B
cell adhesion associated, oncogene regulated
D-box binding PAR bZIP transcription factor
thymidine kinase 2
TBC1 domain family member 15
checkpoint kinase 1
NMDA receptor synaptonuclear signaling and neuronal migration factor
family with sequence similarity 219 member A
forkhead box K2
novel transcript
elongation factor for RNA polymerase II
azurocidin 1
spermatogenesis associated 6 like
EPH receptor B6
nitrilase 1
family with sequence similarity 228 member B
bromodomain adjacent to zinc finger domain 1B
ankyrin repeat and LEM domain containing 1
mitochondrial ribosomal protein L49
cytochrome P450 family 2 subfamily U member 1
collagen type XXVII alpha 1 chain
cell division cycle 25A
coiled-coil domain containing 117
MRT4 homolog, ribosome maturation factor
phosphohistidine phosphatase 1
transmembrane protein 121B
arginase 2

leucine zipper like transcription regulator 1
transmembrane protein adipocyte associated 1
PRELI domain containing 3A
retinal outer segment membrane protein 1
zinc finger protein 827
growth factor receptor bound protein 2
FAM20B glycosaminoglycan xylosylkinase
CXXC motif containing zinc binding protein
zinc finger protein 117
KIAA0040
ribosomal RNA processing 9, U3 small nucleolar RNA binding protein
DEAD-box helicase 20
deleted in azoospermia like
aquaporin 10
ankyrin repeat domain 16
assembly factor for spindle microtubules
mediator complex subunit 22
eukaryotic translation elongation factor 1 delta
membrane spanning 4-domains A3
zinc finger protein 766
novel protein
solute carrier family 6 member 9
CD84 molecule
elongation factor for RNA polymerase II 2
potassium voltage-gated channel subfamily H member 7
carbonic anhydrase 12
TBC1 domain family member 23
denticleless E3 ubiquitin protein ligase homolog
serine/threonine kinase 32C
molybdenum cofactor synthesis 1
ATP binding cassette subfamily G member 2 (Junior blood group)
DNA cross-link repair 1A
ADP ribosylation factor 4
malate dehydrogenase 2
bromodomain containing 7
Rh blood group CcEe antigens
NUMB like endocytic adaptor protein
GTPase, IMAP family member 6
chromosome 1 open reading frame 174
glutamate-cysteine ligase catalytic subunit
growth hormone regulated TBC protein 1
centrobin, centriole duplication and spindle assembly protein
mitochondrial elongation factor 1
scaffold attachment factor B2
UBX domain protein 7
WD repeat domain 73

pyrroline-5-carboxylate reductase 3
exosome component 6
polycystin 2, transient receptor potential cation channel
annexin A9
tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase
sphingosine kinase 2
inositol 1,4,5-trisphosphate receptor type 3
transmembrane protein 40
estrogen receptor 2
cytochrome c oxidase assembly factor heme A:farnesyltransferase COX10
F-box and WD repeat domain containing 7
PHD finger protein 20
phosphatase and actin regulator 2
cilia and flagella associated protein 97
interleukin 4 induced 1
kinesin family member 13B
solute carrier family 25 member 33
schlafen family member 14
polycystin 2 like 2, transient receptor potential cation channel
dihydrouridine synthase 2
chromodomain helicase DNA binding protein 1
ring finger and CCCH-type domains 1
leucine carboxyl methyltransferase 1
zinc finger protein 253
napsin A aspartic peptidase
fibronectin type III domain containing 3A
TNF superfamily member 8
aarF domain containing kinase 1
S-phase kinase associated protein 2
thimet oligopeptidase 1
cell division cycle 14B
transmembrane protein 192
TATA-box binding protein associated factor 3
ArfGAP with coiled-coil, ankyrin repeat and PH domains 3
ATP binding cassette subfamily C member 1
trafficking protein particle complex 3 like
HOP homeobox
ER membrane protein complex subunit 1
chromosome 19 open reading frame 71
ninein like
YY1 associated factor 2
signal peptide peptidase like 2B
FosB proto-oncogene, AP-1 transcription factor subunit
cathepsin S
G protein signaling modulator 3
transmembrane protein 38B

purinergic receptor P2Y2
potassium voltage-gated channel subfamily C member 3
GIPC PDZ domain containing family member 2
CCAAT enhancer binding protein beta
NDRG family member 2
mitochondrial ribosomal protein S25
oxidoreductase NAD binding domain containing 1
PTOV1 extended AT-hook containing adaptor protein
TNF receptor superfamily member 1B
ribosomal protein S6 kinase C1
potassium voltage-gated channel subfamily A member 3
elongin A
SREK1 interacting protein 1
chromosome 8 open reading frame 58
chromosome transmission fidelity factor 18
exportin 7
pseudouridine synthase 7
AT-hook containing transcription factor 1
mediator complex subunit 24
sorbitol dehydrogenase
thioredoxin related transmembrane protein 1
H2A clustered histone 20
proline rich 12
SET and MYND domain containing 4
DnaJ heat shock protein family (Hsp40) member C1
adaptor related protein complex 1 subunit gamma 1
solute carrier family 1 member 5
cell adhesion molecule 4
zinc finger protein 48
alpha-L-iduronidase
phosphatidylethanolamine binding protein 4
ENY2 transcription and export complex 2 subunit
unc-13 homolog C
GIPC PDZ domain containing family member 3
ankyrin repeat domain 27
estrogen related receptor beta
small nuclear ribonucleoprotein polypeptide A
syntrophin alpha 1
kinesin family member 2C
tribbles pseudokinase 1
VPS51 subunit of GARP complex
spondin 1
ceramide kinase like
cubilin
Jupiter microtubule associated homolog 1
SLX4 structure-specific endonuclease subunit

transforming growth factor beta regulator 4
ribosomal modification protein rimK like family member B
myotubularin related protein 6
homeobox A9
zinc finger AN1-type containing 6
X-ray radiation resistance associated 1
apoptosis inducing factor mitochondria associated 2
semaphorin 6B
suppressor of variegation 3-9 homolog 2
CD46 molecule
solute carrier family 25 member 20
cytidine and dCMP deaminase domain containing 1
ankyrin repeat domain 17
centrosomal protein 131
small nuclear RNA activating complex polypeptide 4
ATP binding cassette subfamily A member 3
importin 13
solute carrier family 38 member 6
zinc finger protein 395
ribosomal protein L21
FGF1 intracellular binding protein
N-acetylglucosamine kinase
lipin 1
striatin
poly(rC) binding protein 4
chromosome 6 open reading frame 89
component of oligomeric golgi complex 1
IQ motif containing B1
INO80 complex subunit D
zinc and ring finger 1
3'-phosphoadenosine 5'-phosphosulfate synthase 1
kelch domain containing 8B
tumor suppressor 2, mitochondrial calcium regulator
proteasome 20S subunit alpha 8
G protein-coupled receptor 137B
aarF domain containing kinase 5
RNA binding motif single stranded interacting protein 3
MRN complex interacting protein
abhydrolase domain containing 17A, depalmitoylase
endoplasmic reticulum metalloproteinase 1
GINS complex subunit 2
striatin 3
presenilin associated rhomboid like
lysine demethylase 2B
sorbin and SH3 domain containing 1
NADH:ubiquinone oxidoreductase subunit A6

fatty acid amide hydrolase
cytoplasmic linker associated protein 1
potassium channel tetramerization domain containing 20
VAMP associated protein B and C
cathepsin B
gamma-glutamyltransferase 5
proteasome 20S subunit beta 1
leucine rich repeat containing 59
dynein cytoplasmic 2 heavy chain 1
TBC1 domain family member 14
growth factor independent 1 transcriptional repressor
family with sequence similarity 189 member A1
heat shock protein family A (Hsp70) member 5
SH3 domain containing ring finger 1
ring finger protein 123
SH3 domain and tetratricopeptide repeats 1
DnaJ heat shock protein family (Hsp40) member C9
kynurenine aminotransferase 1
solute carrier family 20 member 1
par-6 family cell polarity regulator alpha
cyclin dependent kinase 1
cell division cycle 6
inositol polyphosphate-5-phosphatase A
KN motif and ankyrin repeat domains 3
erythrocyte membrane protein band 4.2
myocardin related transcription factor A
vinculin
RAB11 family interacting protein 3
activin A receptor type 1B
proteasome 26S subunit, ATPase 1
zinc finger protein 14
ribosomal protein L35a
sphingomyelin phosphodiesterase 3
gamma-secretase activating protein
XPA binding protein 2
zinc finger protein 263
single Ig and TIR domain containing
zinc finger protein 528
REST corepressor 3
inositol polyphosphate-5-phosphatase E
diazepam binding inhibitor, acyl-CoA binding protein
aarF domain containing kinase 2
exportin 5
protein tyrosine phosphatase receptor type N
KH and NYN domain containing
NBPF member 9

sphingosine-1-phosphate receptor 4
cyclin dependent kinase 13
DNA methyltransferase 1 associated protein 1
C-X-C motif chemokine receptor 1
family with sequence similarity 81 member A
rubicon autophagy regulator
DDB1 and CUL4 associated factor 15
single stranded DNA binding protein 2
inositol monophosphatase 2
mitochondrial pyruvate carrier 2
fatty acid synthase
gamma-glutamylamine cyclotransferase
RNA binding motif protein 47
proteasome 26S subunit, non-ATPase 12
staufen double-stranded RNA binding protein 1
RNA binding motif protein 28
dCMP deaminase
dynein axonemal assembly factor 2
family with sequence similarity 214 member A
H4 histone 16
dermatan sulfate epimerase like
axin 2
chromosome 7 open reading frame 50
cystatin C
catenin beta interacting protein 1
dynein axonemal heavy chain 7
sorting nexin 5
dipeptidase 2
dynamin 2
myosin IC
interleukin 12A
sprouty related EVH1 domain containing 2
chromosome 9 open reading frame 40
ATPase H⁺ transporting V1 subunit E1
periplakin
aurora kinase B
ERCC excision repair 6, chromatin remodeling factor
RAB3 GTPase activating protein catalytic subunit 1
beta-2-microglobulin
3-hydroxyacyl-CoA dehydratase 3
mitochondrial poly(A) polymerase
MIF4G domain containing
VPS41 subunit of HOPS complex
kinesin light chain 2
RNA binding motif protein 11
peroxiredoxin 1

DEAH-box helicase 37
RAB44, member RAS oncogene family
four and a half LIM domains 2
nucleoporin 93
integrin subunit alpha E
solute carrier family 23 member 2
G protein-coupled receptor 183
lysozyme g1
makorin ring finger protein 1
protein phosphatase 1 regulatory subunit 18
RNA binding motif protein 43
cytokine inducible SH2 containing protein
growth factor, augments liver regeneration
casein kinase 1 delta
ribosomal RNA processing 1
cell division cycle 5 like
prostaglandin-endoperoxide synthase 1
H2A.X variant histone
interferon induced protein with tetratricopeptide repeats 1B
galectin 1
dymeclin
serrate, RNA effector molecule
FAD dependent oxidoreductase domain containing 2
poly(ADP-ribose) polymerase family member 9
cysteine rich protein 2
mastermind like transcriptional coactivator 1
ubiquitin protein ligase E3 component n-recognin 4
solute carrier family 39 member 7
PTTG1 regulator of sister chromatid separation, securin
GSK3B interacting protein
insulin like growth factor binding protein 3
transcription factor AP-2 epsilon
lysine demethylase 3A
small integral membrane protein 10 like 1
golgi reassembly stacking protein 2
zinc finger protein 446
seizure related 6 homolog like
ankyrin repeat and SOCS box containing 1
gasdermin E
zinc finger DHHC-type palmitoyltransferase 8
inositol polyphosphate-4-phosphatase type I A
GIPC PDZ domain containing family member 1
transmembrane protein 38A
chromatin target of PRMT1
trans-golgi network protein 2
high mobility group nucleosomal binding domain 2

chromodomain helicase DNA binding protein 3
nuclear autoantigenic sperm protein
sphingomyelin phosphodiesterase 2
sarcoglycan zeta
protein kinase C beta
ZPR1 zinc finger
cytosolic iron-sulfur assembly component 1
testis associated actin remodelling kinase 1
novel protein
solute carrier family 25 member 45
syntaxin 7
GRB2 associated binding protein 1
mitochondrial amidoxime reducing component 2
nuclear factor I C
polyribonucleotide nucleotidyltransferase 1
negative elongation factor complex member B
enoyl-CoA delta isomerase 2
transmembrane and coiled-coil domain family 2
aldehyde dehydrogenase 16 family member A1
SR-related CTD associated factor 1
kinesin family member 18A
caspase 6
ADP ribosylation factor like GTPase 4D
RNA binding motif protein 38
family with sequence similarity 209 member A
solute carrier family 18 member B1
zinc finger and BTB domain containing 22
splA/ryanodine receptor domain and SOCS box containing 1
reticulocalbin 3
vasohibin 1
lon peptidase 2, peroxisomal
zinc finger FYVE-type containing 28
E1A binding protein p300
zinc finger protein 618
novel protein
bone morphogenetic protein receptor type 1A
dispatched RND transporter family member 1
protein phosphatase methylesterase 1
tripartite motif containing 4
DISC1 scaffold protein
kinesin family member 19
WD repeat domain 25
bridging integrator 2
CDKN2A interacting protein N-terminal like
cyclin dependent kinase 10
ATP binding cassette subfamily C member 5

methytransferase like 26
zinc finger protein 579
zinc finger with KRAB and SCAN domains 7
schlafen family member 5
debranching RNA lariats 1
cytoskeleton associated protein 2 like
Fc receptor like 3
cullin 2
nucleolar protein 6
eukaryotic translation initiation factor 2 alpha kinase 1
ribonuclease K
SFI1 centrin binding protein
negative elongation factor complex member A
cadherin 2
hexosaminidase subunit beta
glyoxylate and hydroxypyruvate reductase
VPS35 retromer complex component
sec1 family domain containing 1
C-type lectin domain family 4 member G
phospholipase C beta 1
RUNX family transcription factor 1
nischarin
chloride voltage-gated channel 7
ferrochelataase
phosphatidylinositol glycan anchor biosynthesis class O
heterogeneous nuclear ribonucleoprotein A0
PWWP domain containing 3A, DNA repair factor
purinergic receptor P2X 6
mediator complex subunit 16
serum response factor
heme oxygenase 2
TBC1 domain family member 13
lon peptidase 1, mitochondrial
KH RNA binding domain containing, signal transduction associated 1
thrombospondin 4
TATA-box binding protein associated factor 4b
G3BP stress granule assembly factor 1
WD repeat domain 82
chromosome 11 open reading frame 58
dipeptidase 3
Krueppel like factor 1
cytochrome c oxidase subunit 7C
ATPase phospholipid transporting 8A2
BCL2 like 2
IQ motif containing GTPase activating protein 2
N-myristoyltransferase 2

lysyl oxidase like 2
solute carrier family 16 member 5
growth arrest and DNA damage inducible alpha
H2A.J histone
nuclear FMR1 interacting protein 1
nurim
cyclin dependent kinase 2 associated protein 2
ZFP82 zinc finger protein
membrane palmitoylated protein 2
ETS proto-oncogene 1, transcription factor
chromosome 12 open reading frame 49
COMM domain containing 4
cell cycle and apoptosis regulator 2
armadillo repeat containing 2
CDV3 homolog
chromosome 21 open reading frame 91
death domain containing 1
glyoxylate reductase 1 homolog
novel zinc finger protein
mitochondrial ribosomal protein S2
fibroblast growth factor binding protein 3
XK related 6
dynamin binding protein
FYVE and coiled-coil domain autophagy adaptor 1
adaptor related protein complex 1 subunit mu 2
ORMDL sphingolipid biosynthesis regulator 2
storkhead box 2
chromosome 4 open reading frame 19
solute carrier family 20 member 2
homologous recombination factor with OB-fold
peroxisomal biogenesis factor 11 gamma
cytochrome c oxidase subunit 7A2 like
malic enzyme 1
peptidylglycine alpha-amidating monooxygenase
N-terminal glutamine amidase 1
transmembrane protein 53
raftlin, lipid raft linker 1
growth arrest specific 8
leucine rich repeat neuronal 3
lymphocyte antigen 6 family member G6C
tensin 1
SPT16 homolog, facilitates chromatin remodeling subunit
SEC11 homolog A, signal peptidase complex subunit
FA complementation group M
XK related 3
GLI family zinc finger 1

monocyte to macrophage differentiation associated
RNA binding motif protein 8A
transmembrane 7 superfamily member 3
cation channel sperm associated auxiliary subunit gamma
glypican 5
platelet derived growth factor C
translocase of inner mitochondrial membrane 50
telomere repeat binding bouquet formation protein 1
ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 3
kynurenine 3-monooxygenase
DEXD-box helicase 39A
carnitine palmitoyltransferase 2
protein phosphatase 1 regulatory subunit 12B
solute carrier family 39 member 6
C-C motif chemokine ligand 23
transmembrane protein 106A
protein arginine methyltransferase 5
MAX interactor 1, dimerization protein
RNA polymerase mitochondrial
AT-hook DNA binding motif containing 1
selenoprotein S
StAR related lipid transfer domain containing 13
tetratricopeptide repeat domain 16
solute carrier family 14 member 1 (Kidd blood group)
protein kinase C eta
UPF3A regulator of nonsense mediated mRNA decay
kinetochore scaffold 1
anoctamin 2
H2B clustered histone 12
succinyl-CoA:glutarate-CoA transferase
Rho GTPase activating protein 18
biliverdin reductase A
nucleolar protein 9
RAN binding protein 2
spectrin repeat containing nuclear envelope protein 1
schlafen family member 13
sarcoglycan beta
sterile alpha motif domain containing 4A
akirin 1
H4 clustered histone 4
LY6/PLAUR domain containing 6B
dipeptidyl peptidase 7
family with sequence similarity 76 member A
ubiquitin conjugating enzyme E2 G2
platelet endothelial aggregation receptor 1
basic transcription factor 3

G-patch domain containing 2 like
glucocorticoid modulatory element binding protein 1
thrombospondin type 1 domain containing 1
golgi brefeldin A resistant guanine nucleotide exchange factor 1
RAD50 interactor 1
cholinergic receptor nicotinic alpha 10 subunit
biorientation of chromosomes in cell division 1 like 1
eukaryotic elongation factor 2 lysine methyltransferase
zinc finger CCCH-type containing 3
novel protein
Yip1 interacting factor homolog A, membrane trafficking protein
BCL2 like 15
methyl-CpG binding domain protein 1
FRY microtubule binding protein
lysosomal associated membrane protein 1
integrin subunit alpha 4
calpain 14
DDB1 and CUL4 associated factor 16
WW domain containing oxidoreductase
phospholipase A2 group XIA
kelch domain containing 4
lysine demethylase 2A
tripartite motif containing 11
autophagy related 2A
BRISC and BRCA1 A complex member 2
lysophosphatidylcholine acyltransferase 4
KIAA1586
src kinase associated phosphoprotein 2
Ras association (RalGDS/AF-6) and pleckstrin homology domains 1
desmocollin 1
Smad nuclear interacting protein 1
proteasome 26S subunit, ATPase 4
cleavage and polyadenylation specific factor 2
PTPRF interacting protein alpha 1
adaptor related protein complex 2 subunit beta 1
protein disulfide isomerase family A member 3
trafficking protein particle complex 8
cyclin dependent kinase 15
erb-b2 receptor tyrosine kinase 4
prolactin regulatory element binding
ankyrin 1
solute carrier family 30 member 4
novel protein, PPM1B-SLC3A1 readthrough
serine/threonine kinase 11
beta-secretase 2
dynein light chain Tctex-type 1

zinc finger RNA binding protein
mediator of DNA damage checkpoint 1
MDM2 binding protein
SMG7 nonsense mediated mRNA decay factor
myelin transcription factor 1 like
proteasome 26S subunit, ATPase 5
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta
Fas associated via death domain
protein phosphatase 1 catalytic subunit beta
G protein nucleolar 1 (putative)
semaphorin 4B
solute carrier family 7 member 11
chondroitin sulfate N-acetylgalactosaminyltransferase 2
zinc finger protein 646
integrator complex subunit 1
zinc finger and SCAN domain containing 22
transmembrane protein 39A
myosin regulatory light chain interacting protein
radial spoke head 3
metabolism of cobalamin associated C
family with sequence similarity 155 member A
SET and MYND domain containing 3
G protein subunit gamma transducin 2
ATR interacting protein
3-ketodihydrosphingosine reductase
cathepsin W
chromosome 15 open reading frame 61
indolethylamine N-methyltransferase
methyltransferase like 16
basic leucine zipper and W2 domains 1
chaperonin containing TCP1 subunit 7
latexin
CD59 molecule (CD59 blood group)
ribonucleotide reductase regulatory TP53 inducible subunit M2B
ubiquitin conjugating enzyme E2 S
REV3 like, DNA directed polymerase zeta catalytic subunit
marker of proliferation Ki-67
dipeptidyl peptidase 9
acid phosphatase 6, lysophosphatidic
cell division cycle 27
glutamate-ammonia ligase
BRO1 domain and CAAX motif containing
immunoglobulin superfamily member 9B
cofilin 2
chromosome 1 open reading frame 74
integrator complex subunit 9

transmembrane protein 181
phenylalanyl-tRNA synthetase subunit alpha
CCR4-NOT transcription complex subunit 10
Bardet-Biedl syndrome 12
phospholipase A2 group IVC
partner and localizer of BRCA2
protein C, inactivator of coagulation factors Va and VIIIa
DENN domain containing 3
Ras association domain family member 5
protocadherin 9
fibulin 5
secretogranin V
plectin
transmembrane channel like 6
fat storage inducing transmembrane protein 2
neuronal cell adhesion molecule
transmembrane protein 63B
SS18 subunit of BAF chromatin remodeling complex
unconventional SNARE in the ER 1
dual specificity tyrosine phosphorylation regulated kinase 1A
stress induced phosphoprotein 1
lipoprotein lipase
ubiquitin associated and SH3 domain containing B
kelch like family member 24
ankyrin repeat and SOCS box containing 8
coiled-coil domain containing 9B
ATPase family AAA domain containing 3C
high mobility group nucleosome binding domain 1
WD and tetratricopeptide repeats 1
pecanex 2
glucocorticoid induced 1
xylosyltransferase 2
ring finger protein 126
selenium binding protein 1
INO80 complex ATPase subunit
PHD and ring finger domains 1
sortilin related receptor 1
sperm equatorial segment protein 1
cilia and flagella associated protein 410
solute carrier family 27 member 3
zinc fingers and homeoboxes 3
carbohydrate sulfotransferase 13
large 60S subunit nuclear export GTPase 1
proteasome 26S subunit, non-ATPase 1
ATP binding cassette subfamily C member 2
F-box and leucine rich repeat protein 12

potassium inwardly rectifying channel subfamily J member 10
mitoguardin 2
collagen type X alpha 1 chain
cystinosin, lysosomal cystine transporter
sterile alpha and TIR motif containing 1
interleukin 18 receptor accessory protein
KIAA1522
alpha-L-fucosidase 1
signal-induced proliferation-associated 1
thrombospondin type 1 domain containing 4
zinc finger protein 883
PML-RARA regulated adaptor molecule 1
CD300 molecule like family member f
DEAD-box helicase 51
transmembrane p24 trafficking protein 1
dihydrodiol dehydrogenase
megakaryocyte and platelet inhibitory receptor G6b
dephospho-CoA kinase domain containing
torsin 1A interacting protein 1
B-box and SPRY domain containing
Opa interacting protein 5
chromosome 2 open reading frame 88
lysine methyltransferase 5A
armadillo repeat containing 5
origin recognition complex subunit 4
zinc finger matrin-type 5
coiled-coil domain containing 65
cytochrome b5 reductase 1
dermatan sulfate epimerase
membrane palmitoylated protein 7
NADH:ubiquinone oxidoreductase core subunit S8
dystrobrevin binding protein 1
syntaxin binding protein 5 like
WD repeat domain 77
carnitine palmitoyltransferase 1A
family with sequence similarity 168 member B
novel protein
thioredoxin like 4B
CAP-Gly domain containing linker protein 3
LIM domain only 2
ubiquitin protein ligase E3 component n-recognin 2
kinesin family member 15
diacylglycerol kinase zeta
GUF1 homolog, GTPase
ER membrane protein complex subunit 9
C-C motif chemokine receptor like 2

leukocyte associated immunoglobulin like receptor 2
UBE2F-SCLY readthrough (NMD candidate)
DENN domain containing 4C
OTU deubiquitinase 1
microtubule associated protein 4
required for excision 1-B domain containing
zinc finger protein 266
catenin alpha 3
eukaryotic translation initiation factor 4A3
butyrophilin like 8
mitochondrial ribosomal protein L16
DnaJ heat shock protein family (Hsp40) member C6
eukaryotic translation initiation factor 5B
solute carrier family 27 member 4
CD209 molecule
upstream transcription factor 2, c-fos interacting
zinc finger protein 613
FMR1 autosomal homolog 1
zinc finger protein 789
formin binding protein 4
TOX high mobility group box family member 4
protein prenyltransferase alpha subunit repeat containing 1
PITH domain containing 1
zinc finger CCCH-type containing, antiviral 1 like
heterogeneous nuclear ribonucleoprotein A2/B1
histidine triad nucleotide binding protein 1
eukaryotic translation initiation factor 4H
cysteine and serine rich nuclear protein 1
PBX homeobox 1
collagen type XXVI alpha 1 chain
adenylosuccinate synthase 2
damage specific DNA binding protein 1
collagen type V alpha 1 chain
zinc finger protein 490
EF-hand domain family member D1
hippocalcin like 4
ribosomal oxygenase 1
anoctamin 9
TATA-box binding protein associated factor 7
THAP domain containing 8
H4 clustered histone 8
HPS1 biogenesis of lysosomal organelles complex 3 subunit 1
Rho related BTB domain containing 1
threonyl-tRNA synthetase 3
RAD51 associated protein 1
FYVE, RhoGEF and PH domain containing 6

p53-induced death domain protein 1
SR-related CTD associated factor 4
Ras and Rab interactor 2
spermatogenesis associated serine rich 2 like
zinc finger protein 124
caveolin 2
cell division cycle 25B
HECT domain E3 ubiquitin protein ligase 4
HSPA (Hsp70) binding protein 1
achaete-scute family bHLH transcription factor 2
pleckstrin 2
CKLF like MARVEL transmembrane domain containing 5
KIAA1191
nucleolar protein 4 like
dual specificity phosphatase 1
Tu translation elongation factor, mitochondrial
PWP1 homolog, endonuclease
transient receptor potential cation channel subfamily V member 3
solute carrier family 25 member 22
calnexin
ethylmalonyl-CoA decarboxylase 1
cytochrome c oxidase assembly factor 1 homolog
UFM1 specific peptidase 2
mitochondrial tRNA translation optimization 1
proprotein convertase subtilisin/kexin type 6
ATPase cation transporting 13A2
URB1 ribosome biogenesis homolog
CCAAT enhancer binding protein gamma
exportin 6
unc-51 like autophagy activating kinase 1
N-terminal EF-hand calcium binding protein 3
period circadian regulator 2
proteasome assembly chaperone 3
NudC domain containing 3
cutA divalent cation tolerance homolog
catenin alpha 1
elongator acetyltransferase complex subunit 5
homogentisate 1,2-dioxygenase
interferon regulatory factor 3
ISG15 ubiquitin like modifier
NEDD4 binding protein 2 like 1
centrosomal protein 55
5'-nucleotidase domain containing 4
ribosomal protein S3A
biliverdin reductase B
novel transcript

clathrin heavy chain linker domain containing 1
SAM and SH3 domain containing 1
acyl-CoA synthetase long chain family member 3
growth factor receptor bound protein 14
lysophosphatidic acid receptor 2
spindle and kinetochore associated complex subunit 3
FA complementation group I
forkhead box P1
5-azacytidine induced 2
cadherin 12
MRE11 homolog, double strand break repair nuclease
immediate early response 2
surfeit 4
EYA transcriptional coactivator and phosphatase 2
novel transcript
solute carrier family 37 member 4
ARVCF delta catenin family member
ribosomal protein S15a
bromodomain and PHD finger containing 1
ERI1 exoribonuclease family member 2
caseinolytic mitochondrial matrix peptidase chaperone subunit B
translation machinery associated 7 homolog
ataxin 3
family with sequence similarity 111 member B
FA complementation group E
myosin light chain kinase
leucine rich repeat containing 2
transmembrane protein 241
paraspeckle component 1
DENN domain containing 1C
novel protein
protein phosphatase 1 regulatory subunit 9A
SH3 and PX domains 2B
complement C3b/C4b receptor 1 like
tudor domain containing 3
RNA binding motif protein 44
tRNA methyltransferase 9B (putative)
protein phosphatase 1 regulatory inhibitor subunit 14C
WD repeat domain 1
jumonji and AT-rich interaction domain containing 2
cyclin dependent kinase 2 interacting protein
platelet activating factor acetylhydrolase 2
GAR1 ribonucleoprotein
NOP16 nucleolar protein
neuralized E3 ubiquitin protein ligase 4
ST13 Hsp70 interacting protein

leucine rich repeat containing 8 VRAC subunit A
REX4 homolog, 3'-5' exonuclease
zinc finger protein 426
interleukin 17 receptor B
COMM domain containing 8
required for meiotic nuclear division 5 homolog A
elongin B
zinc finger protein, FOG family member 2
TLE family member 2, transcriptional corepressor
ribonuclease P and MRP subunit p25
SEC31 homolog A, COPII coat complex component
transmembrane protein 154
zinc finger protein 652
N-acyl phosphatidylethanolamine phospholipase D
strawberry notch homolog 1
Sp4 transcription factor
integrin subunit beta 5
acidic nuclear phosphoprotein 32 family member B
eukaryotic translation initiation factor 2 alpha kinase 4
golgi SNAP receptor complex member 1
metadherin
Bcl2 modifying factor
antagonist of mitotic exit network 1 homolog
KIAA1671
RNA polymerase I and III subunit C
RAB3 GTPase activating non-catalytic protein subunit 2
cyclic nucleotide binding domain containing 1
DIS3 like exosome 3'-5' exoribonuclease
N-terminal asparagine amidase
vascular endothelial growth factor A
zyg-11 family member B, cell cycle regulator
transforming growth factor beta receptor 3
Cdk5 and Abl enzyme substrate 2
zinc finger protein 362
DDB1 and CUL4 associated factor 12
tripartite motif containing 32
staufen double-stranded RNA binding protein 2
LYR motif containing 1
tripartite motif containing 13
PWWP domain containing 2B
glutamine amidotransferase like class 1 domain containing 3A
NADH:ubiquinone oxidoreductase core subunit S2
solute carrier family 11 member 2
ubiquitin protein ligase E3B
Jrk helix-turn-helix protein
glutamate ionotropic receptor delta type subunit 2

tripartite motif containing 10
corticotropin releasing hormone binding protein
neuropilin and tolloid like 2
retinol dehydrogenase 13
F-box protein 41
zinc finger protein 717
G1 to S phase transition 1
dynein regulatory complex subunit 1
MCC regulator of WNT signaling pathway
Holliday junction recognition protein
X-C motif chemokine ligand 2
core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1
structural maintenance of chromosomes 5
metallothionein 1E
LDL receptor related protein 1
junctional cadherin complex regulator
novel protein
p21 (RAC1) activated kinase 1
zinc finger MYM-type containing 2
TAO kinase 1
angel homolog 1
EMG1 N1-specific pseudouridine methyltransferase
KLRC4-KLRK1 readthrough
FLII actin remodeling protein
leukocyte receptor cluster member 9
F-box and leucine rich repeat protein 3
hexosaminidase D
NFKB inhibitor interacting Ras like 1
TLE family member 3, transcriptional corepressor
Mab-21 domain containing 2
zinc finger and SCAN domain containing 29
BAF chromatin remodeling complex subunit BCL7C
ring finger protein 138
YOD1 deubiquitinase
DDHD domain containing 2
lysophosphatidylcholine acyltransferase 1
carbamoyl-phosphate synthase 1
G protein-coupled receptor 108
chimerin 1
heat shock transcription factor 4
alanyl-tRNA synthetase 1
farnesyltransferase, CAAX box, alpha
HECT domain E3 ubiquitin protein ligase 2
glycerophosphodiester phosphodiesterase domain containing 3
C-C motif chemokine ligand 2
RUN and FYVE domain containing 3

cell cycle progression 1
dehydrogenase/reductase 7B
CAP-Gly domain containing linker protein 1
coiled-coil domain containing 126
nuclear receptor subfamily 1 group D member 2
ataxin 1
sarcolemma associated protein
PH domain and leucine rich repeat protein phosphatase 1
period circadian regulator 3
anoctamin 10
clathrin heavy chain like 1
GIT ArfGAP 2
kazrin, periplakin interacting protein
DnaJ heat shock protein family (Hsp40) member C5
BRD4 interacting chromatin remodeling complex associated protein like
mitochondrial calcium uniporter
cut like homeobox 1
lysine demethylase 3B
purinergic receptor P2X 1
transportin 3
B-Raf proto-oncogene, serine/threonine kinase
NLR family member X1
acyl-CoA binding domain containing 6
SOS Ras/Rho guanine nucleotide exchange factor 2
G3BP stress granule assembly factor 1
family with sequence similarity 151 member B
RAB27A, member RAS oncogene family
protein kinase C beta
glucose-fructose oxidoreductase domain containing 2
aminopeptidase puromycin sensitive
chromosome 8 open reading frame 33
calcium/calmodulin dependent protein kinase kinase 2
nucleolar and coiled-body phosphoprotein 1
platelet activating factor acetylhydrolase 1b regulatory subunit 1
PBX/knotted 1 homeobox 1
POZ/BTB and AT hook containing zinc finger 1
PHD finger protein 12
MAX dimerization protein 3
FGR proto-oncogene, Src family tyrosine kinase
macrophage erythroblast attacher, E3 ubiquitin ligase
integrin subunit alpha M
kinesin family member 1B
family with sequence similarity 160 member A2
solute carrier family 9 member A1
oxysterol binding protein like 9
acetyl-CoA acyltransferase 1

N-ribosyldihyronicotinamide:quinone reductase 2
N-myristoyltransferase 2
aph-1 homolog B, gamma-secretase subunit
hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase
amyloid beta precursor protein binding family B member 1 interacting protein
proteasome assembly chaperone 2
GRAM domain containing 1A
argonaute RISC component 4
methionine sulfoxide reductase A
AT-rich interaction domain 3A
serine incorporator 2
oxidoreductase NAD binding domain containing 1
adipocyte plasma membrane associated protein
FKBP prolyl isomerase 9
calcium voltage-gated channel subunit alpha1 D
major histocompatibility complex, class II, DP alpha 1
microtubule affinity regulating kinase 3
major histocompatibility complex, class II, DP beta 1
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 3
zinc finger SWIM-type containing 6
actin binding LIM protein 1
kinesin family member 21B
novel protein
pipecolic acid and sarcosine oxidase
tubulin tyrosine ligase like 3
signal transducer and activator of transcription 5B
mitochondrial calcium uptake 1
lysine methyltransferase 5B
PX domain containing serine/threonine kinase like
galactosamine (N-acetyl)-6-sulfatase
A-kinase anchoring protein 10
PHD finger protein 21A
cyclic nucleotide gated channel subunit alpha 4
zinc finger protein 281
solute carrier family 9 member A8
DnaJ heat shock protein family (Hsp40) member C3
major histocompatibility complex, class II, DR alpha
sorting nexin 1
PTPRF interacting protein alpha 1
carbonic anhydrase 4
metaxin 1
ADP ribosylation factor GTPase activating protein 3
NIPA like domain containing 3
slingshot protein phosphatase 1
major histocompatibility complex, class II, DQ alpha 1
IL2 inducible T cell kinase

INSC spindle orientation adaptor protein
lipoygenase homology domains 1
phosphoglucomutase 1
calcium binding protein 39
ninein
CD3g molecule
maltase-glucoamylase 2 (putative)
two pore segment channel 2
F-box and WD repeat domain containing 2
F-box protein 11
methyltransferase like 2B
metal regulatory transcription factor 1
mitogen-activated protein kinase kinase kinase 5
zinc finger protein 787
PEAK1 related, kinase-activating pseudokinase 1
mitogen-activated protein kinase kinase kinase kinase 4
methyl-CpG binding domain protein 2
activin A receptor type 1B
regulatory factor X5
peptidylglycine alpha-amidating monooxygenase
apoptosis associated tyrosine kinase
UTP4 small subunit processome component
ADP ribosylation factor like GTPase 8A
solute carrier organic anion transporter family member 3A1
death associated protein kinase 2
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1M
G protein-coupled receptor 160
ETS proto-oncogene 1, transcription factor
zinc finger protein 561
quiescin sulfhydryl oxidase 1
cytochrome p450 oxidoreductase
ubiquitin domain containing 1
zinc finger with KRAB and SCAN domains 7
G protein regulated inducer of neurite outgrowth 1
PDZ domain containing 8
twinkle mtDNA helicase
coiled-coil and C2 domain containing 2B
Rap guanine nucleotide exchange factor like 1
folate receptor gamma
protein tyrosine phosphatase receptor type E
strawberry notch homolog 1
tumor protein p53 binding protein 2
neurobeachin like 2
ATP/GTP binding protein 1
interleukin 1 receptor type 1
F-box protein 21

spectrin repeat containing nuclear envelope protein 1
peptidyl arginine deiminase 4
nitrilase 1
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
synthesis of cytochrome C oxidase 1
TBC1 domain family member 2
extended synaptotagmin 2
membrane palmitoylated protein 7
transmembrane and coiled-coil domains 3
small nuclear ribonucleoprotein polypeptide C
exosome component 6
mitochondrial ribosomal protein S35
stromal interaction molecule 1
potassium channel modulatory factor 1
nuclear receptor coactivator 6
ribosomal RNA processing 1B
low density lipoprotein receptor adaptor protein 1
transmembrane p24 trafficking protein family member 8
nuclear prelamin A recognition factor
sideroflexin 5
Rho GTPase activating protein 24
NACC family member 2
calmodulin binding transcription activator 2
Suv3 like RNA helicase
autophagy related 7
hippocalcin like 1
arachidonate 5-lipoxygenase
microtubule associated monooxygenase, calponin and LIM domain containing 1
dynamin 2
Ras and Rab interactor 3
basic leucine zipper and W2 domains 2
pecanex 1
WD repeat domain 37
teashirt zinc finger homeobox 3
FOS like 2, AP-1 transcription factor subunit
flotillin 1
cystatin F
growth arrest specific 7
CDC like kinase 3
lysophosphatidylcholine acyltransferase 3
osteoclast associated Ig-like receptor
sestrin 2
zinc finger protein 106
speckle type BTB/POZ protein like
glycosyltransferase like domain containing 1
lysine acetyltransferase 14

zinc finger protein 101
zinc finger protein 543
lysophosphatidylglycerol acyltransferase 1
endothelin converting enzyme 1
ATPase secretory pathway Ca²⁺ transporting 2
solute carrier family 26 member 6
thymocyte expressed, positive selection associated 1
membrane bound O-acyltransferase domain containing 1
glycogen phosphorylase L
NOP2/Sun RNA methyltransferase family member 7
major histocompatibility complex, class II, DQ beta 1
ubiquitin interaction motif containing 1
nuclear receptor subfamily 6 group A member 1
N-acetyltransferase 10
ATP binding cassette subfamily C member 5
zinc finger protein 148
guanine monophosphate synthase
mitochondrial transcription termination factor 4
nardilysin convertase
ArfGAP with GTPase domain, ankyrin repeat and PH domain 2
leukotriene B4 receptor
proline-serine-threonine phosphatase interacting protein 1
hydroxyacyl-CoA dehydrogenase
phospholipase C gamma 2
CASP2 and RIPK1 domain containing adaptor with death domain
beta-1,4-galactosyltransferase 5
cytoplasmic linker associated protein 1
maltase-glucoamylase
potassium voltage-gated channel modifier subfamily G member 2
5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase
diacylglycerol kinase delta
cysteine rich hydrophobic domain 2
heterogeneous nuclear ribonucleoprotein R
neurofibromin 1
cytoskeleton associated protein 4
ArfGAP with FG repeats 1
family with sequence similarity 76 member A
hyaluronan and proteoglycan link protein 3
solute carrier family 49 member 4
nuclear receptor 2C2 associated protein
nicotinamide nucleotide adenylyltransferase 1
activating transcription factor 7 interacting protein 2
mitogen-activated protein kinase 1
putative homeodomain transcription factor 1
tripartite motif containing 44
cysteine and tyrosine rich 1

flotillin 2
LRR binding FLII interacting protein 2
ADAM metallopeptidase domain 19
SRSF protein kinase 1
adhesion G protein-coupled receptor G3
THUMP domain containing 3
chromosome 16 open reading frame 70
myotubularin related protein 3
syntaxin binding protein 2
translocase of inner mitochondrial membrane 9
KIAA0825
mahogunin ring finger 1
hexokinase 2
tectonic family member 3
N-acetylneuraminate pyruvate lyase
opioid related nociceptin receptor 1
mitochondrial ribosomal protein S30
family with sequence similarity 117 member B
solute carrier organic anion transporter family member 4C1
dimethylarginine dimethylaminohydrolase 2
angiotensin II receptor associated protein
thyroglobulin
leucine rich pentatricopeptide repeat containing
PR/SET domain 10
5-oxoprolinase, ATP-hydrolysing
DNA damage regulated autophagy modulator 1
leukocyte immunoglobulin like receptor A6
protein kinase C delta
ependymin related 1
partner and localizer of BRCA2
vav guanine nucleotide exchange factor 1
C-terminal binding protein 2
ATPase phospholipid transporting 8B2
transmembrane and ubiquitin like domain containing 2
MLLT1 super elongation complex subunit
4-aminobutyrate aminotransferase
MAF bZIP transcription factor G
CTD phosphatase subunit 1
protein arginine methyltransferase 6
mannose-6-phosphate receptor, cation dependent
pleckstrin homology domain containing M3
cytochrome c oxidase assembly factor heme A:farnesyltransferase COX10
dedicator of cytokinesis 2
fucosyltransferase 7
ubiquitin specific peptidase 36
sulfatase modifying factor 1

interleukin 17 receptor A
sepin 11
reticulon 2
neutrophil cytosolic factor 4
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3
signal regulatory protein gamma
acyl-CoA oxidase 1
mitofusin 2
ubiquitin conjugating enzyme E2 Q2
LanC like 1
RAB31, member RAS oncogene family
A-kinase anchoring protein 1
solute carrier family 11 member 1
UTP25 small subunit processor component
tumor protein p53 inducible protein 11
NADH:ubiquinone oxidoreductase subunit A12
acyl-CoA synthetase long chain family member 5
inosine monophosphate dehydrogenase 1
SH3 binding domain protein 5 like
itchy E3 ubiquitin protein ligase
ankyrin repeat domain 11
cytidine deaminase
PC-esterase domain containing 1B
glycerol-3-phosphate acyltransferase 4
ankyrin repeat domain 6
dystrotelin
oleoyl-ACP hydrolase
golgi membrane protein 2
tandem C2 domains, nuclear
target of myb1 membrane trafficking protein
coagulation factor V
exosome component 2
NODAL modulator 3
ubiquitin associated protein 1
G protein-coupled receptor kinase 6
glutathione-disulfide reductase
LDL receptor related protein associated protein 1
family with sequence similarity 177 member A1
zinc finger protein 383
DNA topoisomerase III alpha
U6 snRNA biogenesis phosphodiesterase 1
family with sequence similarity 219 member A
SAP30 like
drebrin like
WD repeat domain, phosphoinositide interacting 1
leucine rich repeat containing 58

BEN domain containing 7
tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2
chromobox 5
BORCS8-MEF2B readthrough
family with sequence similarity 126 member B
family with sequence similarity 102 member A
complement C1r subcomponent like
isocitrate dehydrogenase (NAD(+)) 3 catalytic subunit alpha
leucyl-tRNA synthetase 1
testis expressed metallothionein like protein
CDC42 effector protein 3
tectonin beta-propeller repeat containing 2
ribosomal protein L7 like 1
protein phosphatase 1 catalytic subunit beta
ankyrin repeat domain 16
phospholipase B1
serine/threonine kinase 38
striatin
glycosyltransferase 1 domain containing 1
myocyte enhancer factor 2A
KIAA2026
chaperonin containing TCP1 subunit 4
elongation factor for RNA polymerase II
interleukin 1 receptor associated kinase 3
integrin subunit beta 4
ADP ribosylation factor like GTPase 3
glycerol-3-phosphate acyltransferase 3
poly(A) binding protein cytoplasmic 1 like
GATA zinc finger domain containing 2B
casein kinase 1 delta
WD repeat domain 26
DEAD-box helicase 24
myosin heavy chain 9
spectrin repeat containing nuclear envelope protein 2
GC-rich promoter binding protein 1 like 1
T cell receptor associated transmembrane adaptor 1
zinc finger HIT-type containing 6
protein phosphatase 2 regulatory subunit B'alpha
kelch like family member 18
peptidylprolyl isomerase E
isoleucyl-tRNA synthetase 1
Kruppel like factor 7
tribbles pseudokinase 2
solute carrier family 37 member 3
RAN binding protein 9
polypeptide N-acetylgalactosaminyltransferase 7

karyopherin subunit alpha 1
protein tyrosine kinase 2 beta
LBH regulator of WNT signaling pathway
CD2 molecule
NDC1 transmembrane nucleoporin
SPARC (osteonectin), cwcw and kazal like domains proteoglycan 2
CCZ1 homolog, vacuolar protein trafficking and biogenesis associated
bridging integrator 1
ankyrin repeat and EF-hand domain containing 1
small nuclear ribonucleoprotein U5 subunit 40
interferon gamma receptor 2
nuclear receptor corepressor 1
histone cell cycle regulator
apoptosis resistant E3 ubiquitin protein ligase 1
protein phosphatase 4 regulatory subunit 2
TP53 regulating kinase
WD repeat domain 4
zyg-11 family member B, cell cycle regulator
ring finger protein 24
SET domain containing 2, histone lysine methyltransferase
unc-51 like autophagy activating kinase 1
Ral GTPase activating protein catalytic subunit alpha 2
cysteinyl-tRNA synthetase 1
zinc finger protein 282
solute carrier family 25 member 44
leucine rich repeat containing 37 member A3
solute carrier family 36 member 1
novel protein
ubiquitination factor E4B
zinc finger family member 783
kinesin family member 3C
exocyst complex component 6
CD5 molecule
dysferlin
tetratricopeptide repeat domain 39B
dynactin subunit 4
ring finger protein 38
zinc ribbon domain containing 1
ATP binding cassette subfamily C member 6
glycogenin 1
peptidoglycan recognition protein 1
MAU2 sister chromatid cohesion factor
schlafen family member 5
vav guanine nucleotide exchange factor 3
reticulon 3
calpain 13

acyloxyacyl hydrolase
huntingtin interacting protein 1
zinc finger protein 516
zinc finger protein 880
major histocompatibility complex, class II, DM beta
ATPase plasma membrane Ca²⁺ transporting 4
glucosylceramidase beta
MAK16 homolog
UTP18 small subunit processome component
syntaxin 12
tudor domain containing 9
cathepsin O
tyrosyl-DNA phosphodiesterase 1
protein phosphatase 3 catalytic subunit alpha
NIN1 (RPN12) binding protein 1 homolog
staufen double-stranded RNA binding protein 2
steroid receptor RNA activator 1
cyclin dependent kinase 14
nuclear assembly factor 1 ribonucleoprotein
intraflagellar transport 22
chaperonin containing TCP1 subunit 8
BAF chromatin remodeling complex subunit BCL11B
protein phosphatase 1 regulatory subunit 12A
phosphogluconate dehydrogenase
cytochrome P450 family 4 subfamily F member 12
mitogen-activated protein kinase 13
lysine demethylase 2A
asparaginyl-tRNA synthetase 2, mitochondrial
mitogen-activated protein kinase kinase kinase 3
patatin like phospholipase domain containing 1
TWIST neighbor
protein kinase cAMP-dependent type II regulatory subunit alpha
elongator acetyltransferase complex subunit 2
GTPase, IMAP family member 6
Rho GTPase activating protein 30
rabphilin 3A like (without C2 domains)
spermatogenesis associated 1
GEM interacting protein
lymphoid enhancer binding factor 1
SMYD family member 5
zinc finger protein 467
hydroxysteroid dehydrogenase like 2
1,4-alpha-glucan branching enzyme 1
IQ motif containing GTPase activating protein 1
chitinase 3 like 2
PDS5 cohesin associated factor A

FAST kinase domains 2
dynactin subunit 5
RAD23 homolog B, nucleotide excision repair protein
charged multivesicular body protein 7
coiled-coil domain containing 86
bridging integrator 2
Fc fragment of IgA receptor
Enah/Vasp-like
Rho GTPase activating protein 5
nuclear envelope integral membrane protein 2
FYVE, RhoGEF and PH domain containing 4
MALT1 paracaspase
importin 5
cytoplasmic polyadenylation element binding protein 3
ATPase phospholipid transporting 11A
formiminotransferase cyclodeaminase N-terminal like
butyrophilin subfamily 2 member A2
MYST/Esa1 associated factor 6
speedy/RINGO cell cycle regulator family member A
SAP30 binding protein
lipin 1
perilipin 4
perilipin 5
UHRF1 binding protein 1 like
syntaxin 6
procollagen-lysine,2-oxoglutarate 5-dioxygenase 1
vesicle transport through interaction with t-SNAREs 1A
2-oxoglutarate and iron dependent oxygenase domain containing 1
ubiquitin associated and SH3 domain containing A
ring finger protein 182
1-acylglycerol-3-phosphate O-acyltransferase 2
aminoacyl tRNA synthetase complex interacting multifunctional protein 2
ATM interactor
transmembrane protein 43
LSM11, U7 small nuclear RNA associated
SET domain containing 5
prune homolog 2 with BCH domain
Rho guanine nucleotide exchange factor 17
CCR4-NOT transcription complex subunit 9
leucine rich single-pass membrane protein 1
major histocompatibility complex, class II, DR beta 1
CASP8 and FADD like apoptosis regulator
vanin 1
ubiquitin conjugating enzyme E2 N
zinc finger HIT-type containing 3
progesterone receptor membrane component 2

regulator of G protein signaling 14
transmembrane protein 45B
family with sequence similarity 228 member B
methyltransferase like 22
peroxisomal membrane protein 4
stromal antigen 1
phosphate cytidyltransferase 1, choline, alpha
cadherin 26
autophagy related 9A
3-hydroxyacyl-CoA dehydratase 3
heparan sulfate 2-O-sulfotransferase 1
TPD52 like 2
IQ motif and Sec7 domain ArfGEF 1
matrix metalloproteinase 9
butyrophilin subfamily 3 member A3
NLR family CARD domain containing 4
acidic nuclear phosphoprotein 32 family member A
dual specificity phosphatase 4
ataxin 7 like 3
KIAA0232
golgin A7 family member B
solute carrier family 17 member 5
phosphatidylinositol glycan anchor biosynthesis class P
THO complex 5
patatin like phospholipase domain containing 2
lysine methyltransferase 5A
peroxisomal trans-2-enoyl-CoA reductase
zinc finger AN1-type containing 3
NudC domain containing 3
jumonji domain containing 6, arginine demethylase and lysine hydroxylase
protein arginine methyltransferase 5
caspase 2
calsyntenin 3
cytokine induced apoptosis inhibitor 1
golgin A1
ral guanine nucleotide dissociation stimulator like 4
LIM homeobox 4
ATPase phospholipid transporting 11B (putative)
hexokinase 3
family with sequence similarity 172 member A
TAO kinase 3
exosome component 5
translocase of outer mitochondrial membrane 70
baculoviral IAP repeat containing 3
cytochrome P450 family 1 subfamily B member 1
zinc finger protein 512B

LYR motif containing 7
chaperonin containing TCP1 subunit 3
endoplasmic reticulum aminopeptidase 2
dachshund family transcription factor 1
phosphofructokinase, platelet
zinc finger protein 706
epoxide hydrolase 2
VPS37B subunit of ESCRT-I
slingshot protein phosphatase 3
solute carrier family 22 member 4
CD6 molecule
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
supervillin
RAS like proto-oncogene A
1-acylglycerol-3-phosphate O-acyltransferase 5
nuclear casein kinase and cyclin dependent kinase substrate 1
tripartite motif containing 8
ORAI calcium release-activated calcium modulator 2
paxillin
meiosis regulator and mRNA stability factor 1
major histocompatibility complex, class II, DO alpha
SET nuclear proto-oncogene
TLE family member 4, transcriptional corepressor
lysine demethylase 4B
ATPase H⁺ transporting V1 subunit C1
ras homolog family member H
transmembrane protein 223
WD repeat domain 5
insulin like growth factor 1 receptor
sphingosine-1-phosphate receptor 1
SPRY domain containing 4
ADAM metallopeptidase domain 8
unc-13 homolog D
G protein-coupled receptor 84
RNA binding motif protein 4B
C-C motif chemokine ligand 28
upregulator of cell proliferation
REX4 homolog, 3'-5' exonuclease
leucine rich repeat neuronal 1
family with sequence similarity 13 member B
RTF1 homolog, Paf1/RNA polymerase II complex component
nucleoporin 43
mitogen-activated protein kinase 14
leukocyte immunoglobulin like receptor B3
thrombospondin 3
mannosidase alpha class 2A member 2

gap junction protein beta 6
interleukin 7 receptor
EPH receptor B4
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
ataxin 7 like 3B
sorting nexin 18
CYFIP related Rac1 interactor B
microtubule affinity regulating kinase 2
ubiquitin 1
inositol polyphosphate-5-phosphatase A
MAF bZIP transcription factor
matrix metalloproteinase 25
transforming growth factor beta regulator 4
collagen beta(1-O)galactosyltransferase 1
zinc finger DHHC-type palmitoyltransferase 7
spermatogenesis and centriole associated 1
GLIS family zinc finger 2
SUMO specific peptidase 2
ST3 beta-galactoside alpha-2,3-sialyltransferase 2
adducin 1
SH3 domain containing GRB2 like, endophilin B1
ribosome binding protein 1
JAZF zinc finger 1
plexin C1
arginase 1
phospholipase C beta 2
endoplasmic reticulum aminopeptidase 1
zinc finger protein 487
mannose phosphate isomerase
ribosomal RNA processing 8
DIT1 rRNA methyltransferase and ribosome maturation factor
GUF1 homolog, GTPase
zinc finger protein 407
ubiquitin conjugating enzyme E2 D4 (putative)
zinc finger DHHC-type palmitoyltransferase 3
SMAD specific E3 ubiquitin protein ligase 1
cysteine rich secretory protein LCCL domain containing 2
F-box and leucine rich repeat protein 20
nitric oxide synthase 1 adaptor protein
protein kinase C theta
TAO kinase 1
Fc fragment of IgM receptor
adaptor related protein complex 3 subunit beta 2
ZFP3 zinc finger protein
collagen type XXIII alpha 1 chain
interleukin 21 receptor

pecanex 2
glutamate rich WD repeat containing 1
family with sequence similarity 214 member B
mitochondrial ribosomal protein S18B
zinc finger and BTB domain containing 5
translocator protein
MIA SH3 domain ER export factor 2
zinc finger protein 552
heat shock protein family A (Hsp70) member 8
zinc finger protein 592
aldehyde dehydrogenase 6 family member A1
mitochondrial ribosome recycling factor
clathrin heavy chain
somatostatin receptor 3
TBK1 binding protein 1
zinc finger and BTB domain containing 7B
alpha tocopherol transfer protein like
WD repeat domain 53
TBC1 domain family member 5
Rho guanine nucleotide exchange factor 11
Cbl proto-oncogene
calcium/calmodulin dependent protein kinase IV
RAS guanyl releasing protein 4
nucleolar protein 9
GTPase, IMAP family member 2
poly(A) binding protein interacting protein 2B
phosphatidylinositol binding clathrin assembly protein
Fas associated via death domain
chaperonin containing TCP1 subunit 6A
RAB19, member RAS oncogene family
myosin VIIB
transmembrane protein 234
AT-rich interaction domain 5A
transmembrane protein 254
adhesion molecule with Ig like domain 1
prothymosin alpha
transforming growth factor beta receptor 1
fibrillin 2
transmembrane protein 204
GATA zinc finger domain containing 2A
cell death inducing DFFA like effector b
Rho GTPase activating protein 9
ribosomal protein S6 kinase A1
CCM2 scaffold protein
PR/SET domain 5
nuclear factor, erythroid 2 like 3

UBX domain protein 7
TIMP metalloproteinase inhibitor 2
FYVE, RhoGEF and PH domain containing 3
myosin VA
ectonucleoside triphosphate diphosphohydrolase 1
MANSC domain containing 1
ring finger protein 157
MSL complex subunit 1
CD58 molecule
calcium/calmodulin dependent protein kinase II delta
SAYSVFN motif domain containing 1
regulator of G protein signaling 19
novel protein
methyltransferase like 2A
kinesin family member 13A
tripartite motif containing 68
leucine rich repeat containing 42
kelch like family member 2
tetratricopeptide repeat domain 27
TGF-beta activated kinase 1 (MAP3K7) binding protein 2
dual specificity tyrosine phosphorylation regulated kinase 2
bridging integrator 3
TNF receptor associated factor 1
latent transforming growth factor beta binding protein 2
sphingomyelin synthase 1
RRN3 homolog, RNA polymerase I transcription factor
frizzled class receptor 6
small nuclear RNA activating complex polypeptide 5
Rho/Rac guanine nucleotide exchange factor 2
ubiquitin associated and SH3 domain containing B
coiled-coil-helix-coiled-coil-helix domain containing 4
gamma-aminobutyric acid type A receptor subunit rho2
lin-54 DREAM MuvB core complex component
germinal center associated signaling and motility
N-acetyltransferase domain containing 1
SEC16 homolog A, endoplasmic reticulum export factor
translocase of inner mitochondrial membrane 50
aftiphilin
protein activator of interferon induced protein kinase EIF2AK2
zinc finger protein 319
solute carrier family 16 member 3
LRAT domain containing 2
BRISC and BRCA1 A complex member 2
G protein subunit alpha q
heat shock protein family A (Hsp70) member 1A
ankyrin repeat domain 13D

multiple C2 and transmembrane domain containing 2
homeodomain interacting protein kinase 1
exostosin glycosyltransferase 1
uridine monophosphate synthetase
GTP binding protein 8 (putative)
prohibitin
GPN-loop GTPase 1
cytotoxic T-lymphocyte associated protein 4
CD8b molecule
zinc finger protein 253
SH3KBP1 binding protein 1
ZPR1 zinc finger
lysine demethylase 7A
DnaJ heat shock protein family (Hsp40) member C30
glutamate ionotropic receptor NMDA type subunit associated protein 1
4-hydroxyphenylpyruvate dioxygenase
forkhead box O3
ring finger protein 44
novel protein
zinc finger protein 337
coiled-coil domain containing 152
TNF receptor associated factor 5
tripartite motif containing 65
class II major histocompatibility complex transactivator
lysine rich nucleolar protein 1
DDB1 and CUL4 associated factor 10
CREB binding protein
glyoxalase I
semaphorin 4A
Rho associated coiled-coil containing protein kinase 1
eukaryotic translation initiation factor 2A
c-Maf inducing protein
heat shock protein 90 alpha family class B member 1
RAB1A, member RAS oncogene family
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
docking protein 3
CD28 molecule
ZFP90 zinc finger protein
TSR1 ribosome maturation factor
phospholipase B domain containing 1
src kinase associated phosphoprotein 2
retinoid X receptor alpha
integrin subunit alpha 4
growth factor receptor bound protein 10
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 2
trafficking protein particle complex 9

SHQ1, H/ACA ribonucleoprotein assembly factor
MOB kinase activator 3B
cleavage stimulation factor subunit 2 tau variant
alanyl aminopeptidase, membrane
GLI pathogenesis related 2
LIM domain kinase 2
coiled-coil domain containing 17
Kruppel like factor 13
thymocyte selection associated
TXK tyrosine kinase
translocase of outer mitochondrial membrane 20
lin-7 homolog A, crumbs cell polarity complex component
Spi-1 proto-oncogene
E74 like ETS transcription factor 2
RAB10, member RAS oncogene family
dipeptidyl peptidase 4
lysine acetyltransferase 6A
protein kinase C and casein kinase substrate in neurons 2
aryl hydrocarbon receptor nuclear translocator like
nuclear factor, erythroid 2
bromodomain PHD finger transcription factor
PML-RARA regulated adaptor molecule 1
apurinic/apyrimidinic endodeoxyribonuclease 1
oxidative stress responsive kinase 1
tRNA-yW synthesizing protein 3 homolog
Rab interacting lysosomal protein like 1
torsin 1A interacting protein 2
cullin associated and neddylation dissociated 1
exosome component 4
cytochrome b5 type B
amphiphysin
myotubularin related protein 2
TRIO and F-actin binding protein
osteoclast stimulating factor 1
arrestin beta 2
DEXD-box helicase 21
cysteinyl-tRNA synthetase 2, mitochondrial
distal membrane arm assembly complex 1
syntaxin 10
methionyl-tRNA synthetase 1
potassium channel tetramerization domain containing 21
GRB10 interacting GYF protein 2
MRT4 homolog, ribosome maturation factor
nuclear receptor coactivator 3
ubiquitin specific peptidase 32
interleukin 10 receptor subunit beta

protein O-glucosyltransferase 3
interactor of little elongation complex ELL subunit 2
rhopilin associated tail protein 1 like
ubiquitin specific peptidase 14
F-box protein 34
leukocyte immunoglobulin like receptor A5
nuclear transcription factor, X-box binding 1
leupaxin
mitogen-activated protein kinase kinase kinase 2
polypeptide N-acetylgalactosaminyltransferase 14
integrator complex subunit 14
TraB domain containing 2A
riboflavin kinase
peptidyl arginine deiminase 2
MON1 homolog B, secretory trafficking associated
dual specificity tyrosine phosphorylation regulated kinase 1A
chromosome 12 open reading frame 66
UBX domain protein 2B
CTP synthase 1
protein phosphatase 1 regulatory subunit 21
coiled-coil domain containing 50
TBC1 domain family member 8
thyroid hormone receptor associated protein 3
dpy-19 like C-mannosyltransferase 3
arylsulfatase G
integrin subunit beta 2
zinc finger CCCH-type containing 12D
ring finger protein 8
PWP1 homolog, endonuclease
phosducin like 3
transmembrane protein 165
transmembrane protein 263
5'-aminolevulinate synthase 1
cullin 1
C-X-C motif chemokine ligand 8
notchless homolog 1
sarcoglycan beta
aryl hydrocarbon receptor nuclear translocator
branched chain amino acid transaminase 1
talin 1
SET binding factor 2
armadillo repeat containing 1
SR-related CTD associated factor 8
klotho
inhibitory synaptic factor family member 2B
solute carrier family 25 member 37

bromodomain containing 4
cytochrome c oxidase assembly factor 4 homolog
mab-21 like 3
mutS homolog 2
GTPase activating protein and VPS9 domains 1
minichromosome maintenance complex binding protein
membrane associated ring-CH-type finger 5
NCK associated protein 5 like
zinc finger protein 438
sulfotransferase family 1A member 1
DEXH-box helicase 30
chondroitin sulfate N-acetylgalactosaminyltransferase 2
protein O-glucosyltransferase 1
cytochrome c oxidase copper chaperone COX11
MyoD family inhibitor domain containing
deoxynucleotidyltransferase terminal interacting protein 1
serine and arginine rich splicing factor 4
chromosome segregation 1 like
cytochrome b561
sorting nexin 9
Rho GTPase activating protein 26
chromosome 3 open reading frame 38
translation machinery associated 16 homolog
integrin subunit alpha 6
DOP1 leucine zipper like protein B
methyl-CpG binding domain protein 6
E1A binding protein p300
ArfGAP with FG repeats 2
myosin binding protein C3
TIR domain containing adaptor protein
glutaminy-peptide cyclotransferase
RAB2A, member RAS oncogene family
inducible T cell costimulator
ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 3
adaptor related protein complex 3 subunit mu 2
lysine acetyltransferase 2B
Bardet-Biedl syndrome 12
syntrophin beta 2
G protein-coupled receptor 183
sterol O-acyltransferase 1
phosphodiesterase 9A
cytochrome b-245 alpha chain
DNA polymerase eta
syntaxin binding protein 5
docking protein 4
dual specificity phosphatase 13

brain abundant membrane attached signal protein 1
Ral GEF with PH domain and SH3 binding motif 1
epithelial membrane protein 1
LSM14A mRNA processing body assembly factor
KIAA0556
membrane bound O-acyltransferase domain containing 2
von Willebrand factor A domain containing 7
RAP1 GTPase activating protein 2
ADP ribosylation factor like GTPase 14 effector protein
chromosome 12 open reading frame 65
fibrillarin
triple QxxK/R motif containing
MAPK interacting serine/threonine kinase 1
SDA1 domain containing 1
AT-rich interaction domain 3B
TNF receptor associated protein 1
ATP binding cassette subfamily E member 1
RIC8 guanine nucleotide exchange factor B
eukaryotic translation initiation factor 4 gamma 3
ATPase Na⁺/K⁺ transporting subunit alpha 1
Yip1 domain family member 1
ubiquitin conjugating enzyme E2 H
glutaredoxin 3
DEAD-box helicase 18
NOP14 nucleolar protein
thioesterase superfamily member 4
pseudopodium enriched atypical kinase 1
EGF containing fibulin extracellular matrix protein 2
NUMB endocytic adaptor protein
small nuclear ribonucleoprotein 13
semaphorin 4B
IMP U3 small nucleolar ribonucleoprotein 3
protein tyrosine phosphatase receptor type J
phosphodiesterase 1B
RNA polymerase III subunit D
GTPase, IMAP family member 5
cyclin dependent kinase 19
RNA polymerase I subunit B
BCL2 interacting protein 2
ubiquitin specific peptidase 34
X-ray repair cross complementing 4
uracil DNA glycosylase
metabolism of cobalamin associated C
transcription factor B2, mitochondrial
slit guidance ligand 1
AT-rich interaction domain 1A

ring finger protein 166
zinc finger protein 527
homeodomain interacting protein kinase 2
DNA ligase 1
ribosomal RNA processing 12 homolog
histone deacetylase 4
adaptor related protein complex 2 subunit beta 1
mitogen-activated protein kinase kinase 3
caspase recruitment domain family member 19
dual specificity phosphatase 22
ADP ribosylation factor like GTPase 4C
dehydrogenase E1 and transketolase domain containing 1
solute carrier family 44 member 3
aspartyl-tRNA synthetase 2, mitochondrial
caspase recruitment domain family member 6
coiled-coil domain containing 69
ubiquitin family domain containing 1
glucosaminyl (N-acetyl) transferase 4
perilipin 3
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1K
transmembrane protein 209
tyrosylprotein sulfotransferase 2
WD and tetratricopeptide repeats 1
RAS guanyl releasing protein 1
SET and MYND domain containing 2
nuclear receptor coactivator 2
MYC proto-oncogene, bHLH transcription factor
ATP binding cassette subfamily A member 2
programmed cell death 2
potassium voltage-gated channel subfamily H member 3
lysyl-tRNA synthetase 1
nuclear factor, interleukin 3 regulated
phosphoinositide-3-kinase regulatory subunit 5
NudC domain containing 1
nucleoporin 160
oxysterol binding protein like 8
importin 7
toll like receptor 5
ATP synthase membrane subunit c locus 2
long intergenic non-protein coding RNA 672
APC regulator of WNT signaling pathway
mitochondrial ribosomal protein L9
ADAM metallopeptidase domain 17
zinc finger protein 717
cysteine rich transmembrane module containing 1
zinc finger protein 331

ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1
hook microtubule tethering protein 2
LDL receptor related protein 10
signaling lymphocytic activation molecule family member 1
NLR family pyrin domain containing 12
cytokine receptor like factor 3
NADH:ubiquinone oxidoreductase complex assembly factor 7
SH2 domain containing 3C
novel transcript
complement C3b/C4b receptor 1 (Knops blood group)
agmatinase
engulfment and cell motility 1
heat shock protein family A (Hsp70) member 9
serpin family B member 1
VAMP associated protein A
chromodomain helicase DNA binding protein 8
synaptojanin 2
ubiquitin conjugating enzyme E2 R2
pentatricopeptide repeat domain 2
N-6 adenine-specific DNA methyltransferase 1
plexin domain containing 1
protein phosphatase 1 catalytic subunit gamma
alkaline phosphatase, biomineralization associated
fem-1 homolog C
LRR binding FLII interacting protein 1
apoptotic chromatin condensation inducer 1
pleckstrin homology domain containing B1
myelin protein zero
cornichon family AMPA receptor auxiliary protein 3
BSD domain containing 1
2-aminoethanethiol dioxygenase
PGAM family member 5, mitochondrial serine/threonine protein phosphatase
mitochondrial ribosomal protein S27
NADH:ubiquinone oxidoreductase core subunit S3
carnitine O-octanoyltransferase
ADP ribosylation factor like GTPase 10
coronin 2A
signal transducing adaptor family member 1
DnaJ heat shock protein family (Hsp40) member A3
nitric oxide associated 1
thymidine kinase 2
polypeptide N-acetylgalactosaminyltransferase 2
interleukin 18 receptor accessory protein
chloride nucleotide-sensitive channel 1A
family with sequence similarity 53 member C
RNA polymerase II subunit D

protein phosphatase 1 regulatory subunit 3D
solute carrier family 8 member A1
B and T lymphocyte associated
abl interactor 2
coiled-coil domain containing 115
CD177 molecule
SMG7 nonsense mediated mRNA decay factor
STEAP family member 1B
interleukin enhancer binding factor 2
cytochrome b5 reductase 1
dihydropyrimidine dehydrogenase
cell division cycle 23
thioesterase superfamily member 6
RNA polymerase I subunit E
apoptosis inhibitor 5
zinc finger protein 608
lysine methyltransferase 2D
3-ketodihydrosphingosine reductase
homeobox B2
Rho GTPase activating protein 15
pogo transposable element derived with ZNF domain
phospholipase C gamma 1
sterile alpha and TIR motif containing 1
ABR activator of RhoGEF and GTPase
chromosome 19 open reading frame 38
coiled-coil domain containing 153
methyl-CpG binding domain protein 5
CLN3 lysosomal/endosomal transmembrane protein, battenin
ribosomal protein S16
glycogen synthase kinase 3 beta
arachidonate 5-lipoxygenase activating protein
signal induced proliferation associated 1 like 2
GTP binding protein 1
pleckstrin homology and RhoGEF domain containing G4
actinin alpha 1
high mobility group 20A
TSC22 domain family member 4
mitogen-activated protein kinase kinase 6
RNA polymerase II associated protein 2
DENN domain containing 2D
UbiA prenyltransferase domain containing 1
ribosomal protein L14
CD3e molecule
SLAIN motif family member 1
methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate
inositol polyphosphate-5-phosphatase D

solute carrier family 16 member 4
niban apoptosis regulator 1
acyl-CoA synthetase short chain family member 3
tripartite motif containing 16
kelch like family member 36
SH3 domain containing GRB2 like 1, endophilin A2
E2F transcription factor 3
lysophosphatidic acid receptor 2
oxoglutarate dehydrogenase
Ras and Rab interactor like
MAPK activated protein kinase 2
nuclear autoantigenic sperm protein
glutamyl-prolyl-tRNA synthetase 1
adhesion G protein-coupled receptor L1
mitochondrial ribosomal protein S25
zinc finger protein 510
mitochondrial calcium uniporter dominant negative subunit beta
periplakin
choline phosphotransferase 1
5'-nucleotidase, cytosolic II
NudC domain containing 2
sprouty related EVH1 domain containing 2
kinesin family binding protein
multiple EGF like domains 9
tetratricopeptide repeat domain 3
homeobox and leucine zipper encoding
zinc finger MYND-type containing 8
2-phosphoxylase phosphatase 1
ribosomal protein S19
ribosomal protein L29
G protein-coupled receptor 171
TBC1 domain family member 14
myocyte enhancer factor 2C
FA complementation group F
nucleolar protein 11
ring finger protein 34
legumain
zinc finger MYND-type containing 19
KH and NYN domain containing
SH3 domain binding protein 5
nicalin
serum response factor binding protein 1
ankyrin repeat and sterile alpha motif domain containing 1A
solute carrier family 7 member 6
armadillo repeat containing 2
high mobility group nucleosomal binding domain 4

C-C motif chemokine receptor 7
protein phosphatase 1 regulatory subunit 16B
tousled like kinase 2
STX16-NPEPL1 readthrough (NMD candidate)
sialic acid binding Ig like lectin 9
family with sequence similarity 162 member A
BCL2 apoptosis regulator
tetraspanin 2
peptidylprolyl isomerase A
HEAT repeat containing 1
thymosin beta 10
myosin IXB
signal recognition particle 68
myocyte enhancer factor 2D
ST6 beta-galactoside alpha-2,6-sialyltransferase 1
translocase of outer mitochondrial membrane 22
peptidylprolyl isomerase like 1
LETM1 domain containing 1
HECT and RLD domain containing E3 ubiquitin protein ligase 4
thyroid hormone receptor interactor 12
ubiquitin conjugating enzyme E2 G2
ADP ribosylation factor guanine nucleotide exchange factor 1
Janus kinase 3
developmentally regulated GTP binding protein 1
regulator of G protein signaling 3
solute carrier family 16 member 6
carbohydrate sulfotransferase 13
erythroblast membrane associated protein (Scianna blood group)
translin
olfactomedin 2
SEH1 like nucleoporin
vacuolar protein sorting 13 homolog B
ring finger protein 135
CD3d molecule
SH3 domain containing ring finger 3
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2
nuclear factor of activated T cells 5
endoplasmic reticulum oxidoreductase 1 alpha
zinc finger protein 586
phospholipase C like 2
LSM family member 14B
polypyrimidine tract binding protein 2
inner membrane mitochondrial protein
PDLIM1 interacting kinase 1 like
5'-nucleotidase ecto
ribosomal protein L15

zinc finger protein 875
ATPase phospholipid transporting 9A (putative)
SID1 transmembrane family member 1
epidermal growth factor receptor pathway substrate 15
endoplasmic reticulum protein 29
oxysterol binding protein like 2
CD52 molecule
Fc receptor like 3
transmembrane inner ear
DNA polymerase delta 2, accessory subunit
IKAROS family zinc finger 3
nucleolin
cyclin D1 binding protein 1
zinc finger protein 480
ribosomal L1 domain containing 1
BLOC-1 related complex subunit 5
staufen double-stranded RNA binding protein 1
partner of NOB1 homolog
solute carrier family 24 member 3
GRB2 associated regulator of MAPK1 subtype 2
DiGeorge syndrome critical region gene 2
nuclear receptor binding SET domain protein 1
CDP-diacylglycerol synthase 2
tubulin gamma complex associated protein 4
bone marrow stromal cell antigen 1
protein kinase C and casein kinase substrate in neurons 1
collagen type VII alpha 1 chain
SH3 and SYLF domain containing 1
dynein axonemal light chain 1
LIM domain containing preferred translocation partner in lipoma
TNF superfamily member 14
poly(ADP-ribose) polymerase family member 4
sphingomyelin phosphodiesterase 4
protein kinase cAMP-activated catalytic subunit beta
presenilin 1
glutaminyI-tRNA amidotransferase subunit QRSL1
cytochrome b-245 chaperone 1
heme binding protein 2
cytochrome P450 family 2 subfamily U member 1
ribosomal protein L19
phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetas
beta-1,3-galactosyltransferase 6
all-trans retinoic acid induced differentiation factor
major histocompatibility complex, class II, DR beta 5
RNA guanine-7 methyltransferase
mitogen-activated protein kinase 3

solute carrier family 25 member 30
TNFAIP3 interacting protein 1
bestrophin 1
histamine receptor H2
enoyl-CoA delta isomerase 2
transport and golgi organization 2 homolog
leucine rich repeat and sterile alpha motif containing 1
zinc finger protein 75a
ALG8 alpha-1,3-glucosyltransferase
ADAM metallopeptidase domain 9
RAS like proto-oncogene B
RAB, member of RAS oncogene family like 3
DDB1 and CUL4 associated factor 4
GTP binding protein 4
myelin basic protein
G-rich RNA sequence binding factor 1
plexin domain containing 2
C-C motif chemokine receptor 4
nuclear receptor subfamily 1 group D member 1
nucleoporin 155
charged multivesicular body protein 4B
nectin cell adhesion molecule 2
guanylate binding protein 3
transient receptor potential cation channel subfamily M member 2
ring finger protein 10
splicing factor 3b subunit 3
POU class 2 homeobox 1
CD55 molecule (Cromer blood group)
zinc finger protein 121
ATP binding cassette subfamily C member 2
ribosomal protein L36
cyclin dependent kinase inhibitor 2D
ring finger protein 111
AVL9 cell migration associated
novel protein, readthrough between OAZ1 and SPPL2B
retinol binding protein 7
zinc finger protein 441
novel protein
signal-induced proliferation-associated 1
transcriptional adaptor 1
contactin associated protein family member 3C
reticulon 4
RB binding protein 9, serine hydrolase
RasGEF domain family member 1A
abhydrolase domain containing 12B
microcephalin 1

dedicator of cytokinesis 10
phospholipid phosphatase 5
mitochondrial ribosomal protein L16
dishevelled segment polarity protein 1
EH domain containing 1
microtubule associated serine/threonine kinase 3
mitochondrial ribosomal protein L42
dehydrogenase/reductase 7
ubiquitin specific peptidase 46
zinc finger C3HC-type containing 1
endosome associated trafficking regulator 1
transmembrane protein 120A
exonuclease 3'-5' domain containing 2
poly(ADP-ribose) polymerase 1
phosphatidylinositol glycan anchor biosynthesis class U
zinc finger with KRAB and SCAN domains 8
leucine rich repeat neuronal 3
solute carrier family 22 member 1
multiple C2 and transmembrane domain containing 1
DDB1 and CUL4 associated factor 17
OS9 endoplasmic reticulum lectin
purine rich element binding protein A
recombination signal binding protein for immunoglobulin kappa J region
sphingomyelin phosphodiesterase acid like 3A
ATP synthase F1 subunit alpha
transmembrane protein 220
ribosomal protein SA
angel homolog 1
myosin IF
neurotensin receptor 1
TRIM39-RPP21 readthrough
nuclear cap binding protein subunit 1
DDB1 and CUL4 associated factor 6
cadherin related family member 3
aminoacyl tRNA synthetase complex interacting multifunctional protein 1
WW domain binding protein 1 like
poly(ADP-ribose) polymerase family member 16
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4
LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated
kelch like family member 3
POC1 centriolar protein B
DEAD-box helicase 27
RNA binding motif protein 47
MAX network transcriptional repressor
protein phosphatase 2 regulatory subunit B"gamma
eukaryotic translation initiation factor 5B

signal recognition particle 72
CD7 molecule
ADP ribosylation factor like GTPase 1
DENN domain containing 4B
trinucleotide repeat containing adaptor 6B
prolyl 4-hydroxylase subunit alpha 2
activating signal cointegrator 1 complex subunit 3
ER membrane protein complex subunit 1
solute carrier family 22 member 15
ribosomal RNA processing 15 homolog
zinc finger protein 829
solute carrier family 66 member 2
eukaryotic translation initiation factor 3 subunit I
zinc finger protein 483
transmembrane protein 147
phosphoribosylaminoimidazole carboxylase and phosphoribosylaminoimidazolesucc
NODAL modulator 1
heat shock protein family D (Hsp60) member 1
integrator complex subunit 6
mitochondrial ribosomal protein L19
inositol polyphosphate-4-phosphatase type II B
NOP2/Sun RNA methyltransferase 4
zinc finger protein 614
tropomyosin 3
tropomodulin 3
SUMO1 activating enzyme subunit 1
PDZ and LIM domain 7
sterile alpha motif domain containing 10
phosphoinositide-3-kinase interacting protein 1
shisa like 2A
mesenchyme homeobox 1
solute carrier family 25 member 15
phosphodiesterase 12
zinc finger protein 517
upstream transcription factor family member 3
arylsulfatase family member K
family with sequence similarity 209 member B
ribosomal protein L3
dihydrolipoamide branched chain transacylase E2
ATPase H⁺ transporting V0 subunit d1
TEF transcription factor, PAR bZIP family member
vitamin D receptor
ubiquitin specific peptidase 3
zinc finger protein 473
tropomyosin 1
sorbin and SH3 domain containing 3

RAB40C, member RAS oncogene family
ArfGAP with SH3 domain, ankyrin repeat and PH domain 1
ubiquitin conjugating enzyme E2 G1
retinoic acid receptor alpha
UTP15 small subunit processome component
trafficking protein particle complex 6A
transient receptor potential cation channel subfamily M member 6
AE binding protein 1
methionyl aminopeptidase 1
cytosolic arginine sensor for mTORC1 subunit 2
tetraspanin 3
chromosome 8 open reading frame 88
zinc finger protein 786
poly(A) binding protein cytoplasmic 4
GRB2 related adaptor protein
amyloid beta precursor protein binding family B member 1
lymphocyte antigen 9
AKT interacting protein
novel protein
GRB2 associated binding protein 2
solute carrier family 2 member 3
LDL receptor related protein 6
signal regulatory protein alpha
diacylglycerol O-acyltransferase 2
F-box and leucine rich repeat protein 13
notch receptor 1
complement C3b/C4b receptor 1 like
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1E
serine carboxypeptidase 1
WASP family member 2
alkB homolog 3, alpha-ketoglutaratedependent dioxygenase
CD200 molecule
zinc finger protein 134
CD27 molecule
intercellular adhesion molecule 2
adaptor related protein complex 2 subunit alpha 1
solute carrier family 6 member 6
zinc finger protein 141
FAM3 metabolism regulating signaling molecule B
piwi like RNA-mediated gene silencing 4
FES proto-oncogene, tyrosine kinase
ribosomal protein L10a
sulfotransferase family 1B member 1
ribosomal protein L13a
RNA pseudouridine synthase D4
ubiquitin specific peptidase 10

engulfment and cell motility 2
dynein axonemal heavy chain 10
DENN domain containing 11
FANCD2 and FANCI associated nuclease 1
calcium/calmodulin dependent protein kinase II gamma
chromosome 3 open reading frame 18
adaptor related protein complex 3 subunit sigma 2
VPS8 subunit of CORVET complex
ankyrin repeat and SOCS box containing 7
FA core complex associated protein 100
tripartite motif containing 35
aldehyde dehydrogenase 18 family member A1
syntaxin 5
zinc finger and BTB domain containing 39
annexin A11
SRSF protein kinase 2
formin like 1
chromodomain helicase DNA binding protein 2
butyrophilin subfamily 3 member A2
CD74 molecule
pleckstrin homology and RUN domain containing M1
insulin like growth factor binding protein 4
serine peptidase inhibitor Kazal type 8 (putative)
T cell immunoreceptor with Ig and ITIM domains
tet methylcytosine dioxygenase 3
sorting nexin 5
ADP-ribose/CDP-alcohol diphosphatase, manganese dependent
LUC7 like 2, pre-mRNA splicing factor
ribosomal protein L23a
NOP53 ribosome biogenesis factor
cyclin J like
nuclear receptor coactivator 1
DEXH-box helicase 34
toll interacting protein
solute carrier family 26 member 5
SMAD family member 2
lysine demethylase 6B
serine incorporator 3
zinc finger protein 302
sideroflexin 1
solute carrier family 35 member E2B
D-box binding PAR bZIP transcription factor
chromosome 12 open reading frame 57
ribosomal protein lateral stalk subunit P0
zinc finger protein 689
dedicator of cytokinesis 9

regulatory factor X7
acyl-CoA thioesterase 2
WW domain containing E3 ubiquitin protein ligase 2
tRNA methyltransferase 61A
transmembrane p24 trafficking protein 3
adenylate kinase 2
prostaglandin E receptor 2
solute carrier family 20 member 2
neurochondrin
TATA-box binding protein associated factor 4
raftlin, lipid raft linker 1
exocyst complex component 3
zyg-11 related cell cycle regulator
mastermind like transcriptional coactivator 3
nuclear receptor subfamily 3 group C member 2
pentatricopeptide repeat domain 3
NAD synthetase 1
transmembrane protein 88
karyopherin subunit alpha 5
KRAS proto-oncogene, GTPase
protein tyrosine phosphatase non-receptor type 12
component of oligomeric golgi complex 7
eukaryotic translation initiation factor 2 subunit alpha
phospholipase D1
vinculin
AAR2 splicing factor
protein kinase C alpha
HCLS1 associated protein X-1
chromosome 16 open reading frame 72
cholinergic receptor nicotinic alpha 10 subunit
syntaphilin
S100 calcium binding protein A12
coenzyme Q7, hydroxylase
transmembrane protein 156
contactin associated protein family member 3B
ASXL transcriptional regulator 2
translocase of inner mitochondrial membrane 21
deoxythymidylate kinase
actin related protein 1A
SIK family kinase 3
zinc finger protein 131
structure specific recognition protein 1
EMG1 N1-specific pseudouridine methyltransferase
TNFAIP3 interacting protein 2
ribosomal protein S29
nucleoporin 133

regulatory factor X2
aspartate beta-hydroxylase
intersectin 2
neutrophil cytosolic factor 2
G protein-coupled receptor 19
G elongation factor mitochondrial 1
eukaryotic translation elongation factor 1 alpha 1
alkB homolog 2, alpha-ketoglutarate dependent dioxygenase
myocardin related transcription factor A
family with sequence similarity 168 member A
apoptosis enhancing nuclease
androgen dependent TFPI regulating protein
tectonic family member 1
LIM domain 7
nucleolar protein 3
centrosomal protein 41
testis specific serine kinase 6
UBA domain containing 1
DnaJ heat shock protein family (Hsp40) member C15
macroH2A.2 histone
myocardin related transcription factor B
protein phosphatase 4 regulatory subunit 1
NADH:ubiquinone oxidoreductase subunit B5
serine/threonine kinase 10
furin, paired basic amino acid cleaving enzyme
solute carrier family 30 member 5
acyl-CoA synthetase long chain family member 1
protein phosphatase 1 regulatory subunit 10
round spermatid basic protein 1
glutamate dehydrogenase 1
glutamyl-tRNA synthetase 2, mitochondrial
coenzyme Q4
phospholipase A and acyltransferase 4
protein inhibitor of activated STAT 1
interferon alpha and beta receptor subunit 1
intraflagellar transport 74
TNF receptor superfamily member 8
translocase of outer mitochondrial membrane 40
exostosin like glycosyltransferase 3
ribosomal protein S3
nudE neurodevelopment protein 1 like 1
vasoactive intestinal peptide receptor 2
capicua transcriptional repressor
UTP6 small subunit processome component
nuclear cap binding protein subunit 2
oxoeicosanoid receptor 1

carbohydrate sulfotransferase 15
BMI1 proto-oncogene, polycomb ring finger
Dexi homolog
TBC1 domain family member 3L
HCK proto-oncogene, Src family tyrosine kinase
chromodomain Y like 2
pyridoxal kinase
vasodilator stimulated phosphoprotein
lemur tyrosine kinase 2
novel protein
pre-mRNA processing factor 19
COP9 signalosome subunit 7B
mitochondrial ribosomal protein L35
enoyl-CoA hydratase domain containing 2
S100 calcium binding protein A9
S100 calcium binding protein A6
migration and invasion inhibitory protein
midnolin
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 1
epithelial stromal interaction 1
chromosome 16 open reading frame 91
ribosome production factor 2 homolog
interferon regulatory factor 8
lymphocyte specific protein 1
bromo adjacent homology domain containing 1
G protein-coupled receptor 107
late endosomal/lysosomal adaptor, MAPK and MTOR activator 1
chromosome 1 open reading frame 109
adhesion G protein-coupled receptor B3
RAB4B-EGLN2 readthrough (NMD candidate)
ribosomal protein L35
PTEN induced kinase 1
solute carrier family 12 member 9
ADAM metallopeptidase with thrombospondin type 1 motif 2
TBC1 domain family member 1
WAPL cohesin release factor
COMM domain containing 2
chromosome 5 open reading frame 63
coiled-coil domain containing 30
PIGY upstream reading frame
FLII actin remodeling protein
transcription factor EB
phospholipid phosphatase 6
lysine methyltransferase 2C
novel protein
ribosomal protein S5

zinc finger protein 354A
REST corepressor 1
CASC3 exon junction complex subunit
zinc finger protein 347
G protein subunit beta 2
ring finger and CCCH-type domains 1
enolase superfamily member 1
mitochondrial trans-2-enoyl-CoA reductase
VRK serine/threonine kinase 3
RUS family member 1
trafficking protein particle complex 2 like
RAB8B, member RAS oncogene family
3-phosphoinositide dependent protein kinase 1
CCR4-NOT transcription complex subunit 6
diacylglycerol kinase gamma
diacylglycerol kinase epsilon
dispatched RND transporter family member 1
lysine demethylase 5B
component of oligomeric golgi complex 5
transcriptional adaptor 2B
Ras related GTP binding D
insulin like growth factor binding protein 3
growth arrest and DNA damage inducible alpha
RNA binding motif protein 23
RAN, member RAS oncogene family
zinc finger protein 14
PYM homolog 1, exon junction complex associated factor
zinc finger protein 202
purinergic receptor P2Y14
solute carrier family 22 member 14
acyl-CoA synthetase long chain family member 3
BICD cargo adaptor 2
superoxide dismutase 2
mediator complex subunit 13L
parvin gamma
synaptonemal complex protein 2
aspartate rich 1
YOD1 deubiquitinase
death effector domain containing 2
major facilitator superfamily domain containing 14B
testis expressed 10
ataxin 2
nucleoporin 107
leucine rich repeats and immunoglobulin like domains 1
PATJ crumbs cell polarity complex component
peroxisomal biogenesis factor 3

ergosterol biosynthesis 28 homolog
general transcription factor IIH subunit 3
dishevelled segment polarity protein 3
methionyl aminopeptidase type 1D, mitochondrial
selenophosphate synthetase 1
cytoplasmic FMR1 interacting protein 2
mitochondrial ribosomal protein L11
nucleoporin 153
zinc finger and BTB domain containing 25
EF-hand calcium binding domain 12
BCL6 transcription repressor
outer mitochondrial membrane lipid metabolism regulator OPA3
potassium voltage-gated channel subfamily A member 3
nucleobindin 2
adenylate cyclase 4
DnaJ heat shock protein family (Hsp40) member C9
integrin subunit alpha 7
melanoregulin
sphingosine-1-phosphate receptor 4
AT-hook containing transcription factor 1
repulsive guidance molecule BMP co-receptor b
bromodomain adjacent to zinc finger domain 1B
transmembrane protein 14A
methionyl aminopeptidase 2
rabphilin 3A
solute carrier family 39 member 10
RNA polymerase mitochondrial
ADP ribosylation factor like GTPase 15
methylthioribose-1-phosphate isomerase 1
ubiquitin like modifier activating enzyme 2
ankyrin repeat domain 34B
ligand dependent nuclear receptor corepressor
RUN and FYVE domain containing 3
RGP1 homolog, RAB6A GEF complex partner 1
ankyrin repeat and sterile alpha motif domain containing 6
zinc finger protein 287
transmembrane protein 109
golgin A2
eEF1A lysine and N-terminal methyltransferase
dynactin subunit 2
cilia and flagella associated protein 77
lamin B1
dehydrogenase/reductase 13
transcription factor 7
YdjC chitooligosaccharide deacetylase homolog
phosphorylated adaptor for RNA export

coiled-coil domain containing 88B
BCAS3 microtubule associated cell migration factor
anti-silencing function 1A histone chaperone
TBC1 domain family member 4
pellino E3 ubiquitin protein ligase family member 2
aspartyl-tRNA synthetase 1
abhydrolase domain containing 10, depalmitoylase
calpain 1
large tumor suppressor kinase 2
family with sequence similarity 200 member B
NGG1 interacting factor 3 like 1
SLAM family member 6
sprouty related EVH1 domain containing 3
TBC1 domain family member 20
fat storage inducing transmembrane protein 2
dehydrogenase/reductase 3
trans-L-3-hydroxyproline dehydratase
inositol polyphosphate-5-phosphatase K
protein phosphatase 1 regulatory subunit 12B
transmembrane O-mannosyltransferase targeting cadherins 1
myosin X
ATPase H⁺ transporting V0 subunit e2
PLAG1 zinc finger
TLE family member 5, transcriptional modulator
mitochondrial ribosomal protein L45
polypyrimidine tract binding protein 3
adaptor related protein complex 5 subunit beta 1
zinc finger protein 354C
glutamate rich 1
zyxin
NSE4 homolog A, SMC5-SMC6 complex component
chromodomain helicase DNA binding protein 7
WD repeat and SOCS box containing 1
methylcrotonoyl-CoA carboxylase 2
WD repeat and FYVE domain containing 3
calcium release activated channel regulator 2B
BMS1 ribosome biogenesis factor
oligodendrocyte myelin glycoprotein
BUD23 rRNA methyltransferase and ribosome maturation factor
Jupiter microtubule associated homolog 2
MLLT3 super elongation complex subunit
aldo-keto reductase family 7 member A2
ubiquinol-cytochrome c reductase core protein 2
strawberry notch homolog 2
retinol dehydrogenase 14
ribonuclease P and MRP subunit p25

programmed cell death 11
ubiquitin conjugating enzyme E2 V2
neuroepithelial cell transforming 1
phenylalanyl-tRNA synthetase subunit beta
protein arginine methyltransferase 1
lysyl oxidase like 1
NEDD4 E3 ubiquitin protein ligase
StAR related lipid transfer domain containing 7
KAT8 regulatory NSL complex subunit 1
ATP synthase membrane subunit c locus 3
netrin G2
biorientation of chromosomes in cell division 1
taxilin alpha
ribosomal protein L13
malate dehydrogenase 1
proteasome assembly chaperone 4
transforming growth factor alpha
ubiquitin specific peptidase 4
antizyme inhibitor 1
TP53RK binding protein
carbonic anhydrase 1
chromosome 18 open reading frame 32
tyrosine kinase 2
slingshot protein phosphatase 2
ankyrin repeat domain 33B
zinc finger ZZ-type containing 3
sorting nexin 27
kelch like family member 12
NEDD4 binding protein 1
membrane spanning 4-domains A1
RAB5A, member RAS oncogene family
TATA-box binding protein associated factor 4b
dermatan sulfate epimerase like
dedicator of cytokinesis 6
HemK methyltransferase family member 1
pre-mRNA processing factor 40 homolog B
BICD family like cargo adaptor 2
fibronectin type III domain containing 3B
G protein-coupled receptor 18
CD200 receptor 1
zinc finger protein 568
NOP2/Sun RNA methyltransferase 3
cytochrome c oxidase subunit 5A
ras homolog family member T1
potassium voltage-gated channel subfamily E regulatory subunit 1
heat shock protein family A (Hsp70) member 1 like

RAB7A, member RAS oncogene family
protein phosphatase 3 catalytic subunit gamma
tumor protein p73
testis expressed 264, ER-phagy receptor
clusterin associated protein 1
phosphoribosyl pyrophosphate synthetase associated protein 2
CD1e molecule
glucosamine (N-acetyl)-6-sulfatase
G protein subunit gamma 2
DNA methyltransferase 3 alpha
THAP domain containing 7
nucleoporin 205
histidine triad nucleotide binding protein 1
aquaporin 9
proteasome 20S subunit beta 5
potassium voltage-gated channel subfamily Q member 1
BTB domain containing 7
RAB3D, member RAS oncogene family
family with sequence similarity 217 member B
proline rich 3
TraB domain containing
BORA aurora kinase A activator
mitochondrial ribosomal protein L17
PPARG related coactivator 1
transcriptional adaptor 3
URI1 prefoldin like chaperone
SWT1 RNA endoribonuclease homolog
Rho guanine nucleotide exchange factor 3
zinc finger protein 582
NIMA related kinase 6
striatin 3
UFM1 specific peptidase 2
bolA family member 3
carbonyl reductase 1
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1A
N-alpha-acetyltransferase 15, NatA auxiliary subunit
DBF4 zinc finger
SDS3 homolog, SIN3A corepressor complex component
serum amyloid A like 1
novel zinc finger protein
CD80 molecule
HCLS1 binding protein 3
HAUS augmin like complex subunit 2
basic leucine zipper ATF-like transcription factor 3
transmembrane protein 25
transcription factor Dp-1

ribosomal protein L37a
methyltransferase like 8
transient receptor potential cation channel subfamily C member 4 associated protein
HIV-1 Tat interactive protein 2
receptor interacting serine/threonine kinase 3
solute carrier family 22 member 13
myelin protein zero like 3
zinc finger protein 30
major facilitator superfamily domain containing 13A
zinc finger protein 83
CD63 molecule
uridine phosphorylase 1
T cell immune regulator 1, ATPase H⁺ transporting V0 subunit a3
CDK2 associated cullin domain 1
transmembrane protein 11
ribosomal protein S18
phorbol-12-myristate-13-acetate-induced protein 1
SRP receptor subunit beta
WW domain containing adaptor with coiled-coil
methyltransferase like 9
IQ motif containing GTPase activating protein 2
cAMP responsive element binding protein like 2
ASH1 like histone lysine methyltransferase
ribosome biogenesis regulator 1 homolog
minichromosome maintenance domain containing 2
transmembrane protein 18
ribosomal protein S2
eukaryotic translation initiation factor 3 subunit M
BCL3 transcription coactivator
ATPase Na⁺/K⁺ transporting subunit beta 1
pseudouridine synthase 7
mitochondrial ribosomal protein S12
guanylate binding protein 4
scaffold protein involved in DNA repair
mitogen-activated protein kinase 11
glutamic-oxaloacetic transaminase 1
chaperonin containing TCP1 subunit 7
keratin 73
ankyrin repeat domain 13C
COPI coat complex subunit gamma 2
ubiquitin specific peptidase 7
proteasome 26S subunit, ATPase 2
ring finger protein 169
ubiquitin protein ligase E3D
glucosylceramidase beta 2
golgi associated, gamma adaptin ear containing, ARF binding protein 2

zinc finger protein 74
VPS39 subunit of HOPS complex
cap methyltransferase 2
nuclear receptor subfamily 2 group C member 2
aldehyde dehydrogenase 3 family member A2
DDB1 and CUL4 associated factor 1
tetratricopeptide repeat domain 39C
SH2 domain containing 4B
ankyrin repeat and BTB domain containing 1
nucleus accumbens associated 1
inositol polyphosphate phosphatase like 1
extended synaptotagmin 1
FYN proto-oncogene, Src family tyrosine kinase
zinc finger protein 471
nucleoporin 88
cilia and flagella associated protein 251
major facilitator superfamily domain containing 4B
mast cell immunoglobulin like receptor 1
regulatory factor X3
inositol polyphosphate multikinase
leucine rich repeat containing 4
zinc finger RANBP2-type containing 1
FAST kinase domains 1
asparaginyl-tRNA synthetase 1
membrane bound transcription factor peptidase, site 1
transmembrane protein 63B
transmembrane protein 260
magnesium transporter MRS2
GPRIN family member 3
DEAD-box helicase 42
PAS domain containing serine/threonine kinase
leukocyte immunoglobulin like receptor A4
family with sequence similarity 169 member A
TBC1 domain family member 10B
tyrosyl-tRNA synthetase 2
t-complex 11 like 2
BCL2 interacting killer
ferrochelatase
signal transducer and activator of transcription 4
ceramide transporter 1
endosome-lysosome associated apoptosis and autophagy regulator family member 2
MINDY lysine 48 deubiquitinase 1
chromosome 1 open reading frame 226
R3H domain containing 4
Kruppel like factor 6
microtubule associated protein RP/EB family member 3

F-box protein 31
myotubularin related protein 14
signaling threshold regulating transmembrane adaptor 1
zinc finger ZZ-type and EF-hand domain containing 1
metallo-beta-lactamase domain containing 2
ATP binding cassette subfamily C member 4
CRK proto-oncogene, adaptor protein
mitogen-activated protein kinase 8 interacting protein 3
protein phosphatase 1 regulatory inhibitor subunit 14B
deltex E3 ubiquitin ligase 1
phosphodiesterase 4D interacting protein
RELT TNF receptor
poly(ADP-ribose) polymerase family member 3
sodium voltage-gated channel alpha subunit 9
origin recognition complex subunit 3
differentially expressed in FDCP 8 homolog
small nuclear ribonucleoprotein polypeptide F
myristoylated alanine rich protein kinase C substrate
novel protein
S100 calcium binding protein A11
zw10 kinetochore protein
mast cell expressed membrane protein 1
checkpoint with forkhead and ring finger domains
ribosomal oxygenase 2
beta-ureidopropionase 1
microtubule associated protein 1 light chain 3 beta
CWF19 like cell cycle control factor 1
eukaryotic elongation factor 2 lysine methyltransferase
ribosomal protein S28
signal peptide peptidase like 3
phosphatidylglycerophosphate synthase 1
transmembrane 131 like
ribosomal protein S21
phosphatidylinositol glycan anchor biosynthesis class N
armadillo repeat containing 12
phosphatidylethanolamine binding protein 1
serine/threonine/tyrosine interacting protein
mesoderm development LRP chaperone
solute carrier family 2 member 1
calponin 3
YEATS domain containing 4
cAMP-dependent protein kinase inhibitor alpha
transmembrane protein 267
B9 domain containing 2
breast carcinoma amplified sequence 4
translocase of inner mitochondrial membrane 10

aarF domain containing kinase 2
novel protein, SIRPB1-SIRPD readthrough
cell division cycle 25B
replication factor C subunit 5
adenylate kinase 5
linker for activation of T cells family member 2
adenosine deaminase RNA specific B1
F-box protein 9
UDP-glucose glycoprotein glucosyltransferase 1
YY1 associated protein 1
ST3 beta-galactoside alpha-2,3-sialyltransferase 1
thioredoxin related transmembrane protein 4
pleckstrin homology domain containing A8
ribosomal protein S27
C-type lectin domain family 4 member F
major histocompatibility complex, class II, DQ beta 2
zinc fingers and homeoboxes 2
drosha ribonuclease III
refilin B
exportin for tRNA
M-phase phosphoprotein 10
adaptor related protein complex 1 subunit gamma 1
annexin A3
lysine acetyltransferase 2A
zinc finger protein 813
heat shock protein family H (Hsp110) member 1
upstream binding protein 1
zinc finger protein 681
dynein cytoplasmic 1 intermediate chain 1
reticulophagy regulator family member 2
Ras association domain family member 3
argonaute RISC catalytic component 2
NADH:ubiquinone oxidoreductase complex assembly factor 1
pannexin 2
mitochondrial ribosomal protein L3
glycoprotein V platelet
Putative MORF4 family-associated protein 1-like protein UPP
proteasome 20S subunit alpha 5
lipase family member N
transmembrane protein 255B
major histocompatibility complex, class I, F
RNA binding motif protein 43
trinucleotide repeat containing 18
phosphoribosylformylglycinamide synthase
eukaryotic translation initiation factor 3 subunit D
acid phosphatase 3

granulin precursor
nuclear receptor binding SET domain protein 3
prostaglandin F receptor
fermitin family member 3
zinc finger protein 677
metastasis associated 1
ilvB acetolactate synthase like
nudix hydrolase 9
jagunal homolog 1
RAB36, member RAS oncogene family
NAD kinase
carboxypeptidase D
glutamate-cysteine ligase modifier subunit
tetratricopeptide repeat domain 39A
adaptor related protein complex 4 subunit sigma 1
zinc finger protein 766
phosphatidylinositol-3,4,5-trisphosphate dependent Rac exchange factor 1
mitochondrial elongation factor 1
aldo-keto reductase family 1 member B
cyclase associated actin cytoskeleton regulatory protein 1
PTTG1 interacting protein
NK3 homeobox 1
RPA interacting protein
ribonuclease P/MRP subunit p30
enoyl-CoA hydratase domain containing 3
makorin ring finger protein 1
Bardet-Biedl syndrome 2
ribosomal protein L27a
SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subfamily
SPT16 homolog, facilitates chromatin remodeling subunit
PEAK family member 3
glycerophosphodiester phosphodiesterase 1
serine/threonine kinase 4
insulin receptor
cleavage and polyadenylation specific factor 7
protein-L-isoaspartate (D-aspartate) O-methyltransferase
NBR1 autophagy cargo receptor
zinc finger protein 529
ST3 beta-galactoside alpha-2,3-sialyltransferase 4
family with sequence similarity 193 member B
SEC24 homolog B, COPII coat complex component
glyoxylate reductase 1 homolog
vesicle associated membrane protein 8
HPS4 biogenesis of lysosomal organelles complex 3 subunit 2
AT-rich interaction domain 2
TruB pseudouridine synthase family member 2

CCR4-NOT transcription complex subunit 7
COP1 E3 ubiquitin ligase
nuclear factor of activated T cells 2
shortage in chiasmata 1
protein phosphatase 1 regulatory subunit 8
ATPase Na⁺/K⁺ transporting subunit beta 3
zinc finger CCCH-type containing 3
capping protein regulator and myosin 1 linker 1
microtubule associated protein RP/EB family member 2
ERH mRNA splicing and mitosis factor
CD247 molecule
solute carrier family 38 member 1
large 60S subunit nuclear export GTPase 1
cyclin dependent kinase 6
coiled-coil domain containing 159
TOX high mobility group box family member 4
signal peptide peptidase like 2A
Scm like with four mbt domains 1
ribosomal protein L4
transmembrane and immunoglobulin domain containing 2
transmembrane protein 201
mitochondrial ribosomal protein L57
acid phosphatase 6, lysophosphatidic
C-C motif chemokine receptor 5 (gene/pseudogene)
mannosidase alpha class 1A member 1
torsin family 3 member A
ataxin 10
calcyclin binding protein
cilia and flagella associated protein 97
F-box and leucine rich repeat protein 5
LysM domain containing 2
diphthamine biosynthesis 6
ubiquitin protein ligase E3 component n-recognin 4
vanin 2
base methyltransferase of 25S rRNA 2 homolog
LHFPL tetraspan subfamily member 5
G protein signaling modulator 2
terminal nucleotidyltransferase 2
zinc finger protein 805
lymphocyte cytosolic protein 1
DnaJ heat shock protein family (Hsp40) member C10
tumor protein p53
GATA binding protein 3
ribosomal protein S13
desumoylating isopeptidase 1
natural cytotoxicity triggering receptor 3

phosphoglucomutase 2
endothelial PAS domain protein 1
rubicon like autophagy enhancer
protein phosphatase 1 regulatory subunit 3B
RAN guanine nucleotide release factor
RNA 2',3'-cyclic phosphate and 5'-OH ligase
capping actin protein of muscle Z-line subunit beta
selenoprotein W
ATP binding cassette subfamily C member 11
hexokinase domain containing 1
transmembrane and coiled-coil domains 4
glucosidase alpha, acid
oxysterol binding protein like 1A
mediator complex subunit 13
hydroxyacylglutathione hydrolase
complement C5a receptor 1
septin 1
FCF1 rRNA-processing protein
zinc finger protein 254
diphthamide biosynthesis 2
pseudouridine synthase 1
mitochondrial tRNA translation optimization 1
family with sequence similarity 118 member A
coiled-coil domain containing 57
cell division cycle 42
ETS variant transcription factor 6
SH3 domain binding protein 2
N-myc downstream regulated 1
glycoprotein A33
mitochondrial antiviral signaling protein
zinc finger protein 391
CTD small phosphatase like 2
solute carrier family 26 member 8
N-acetylated alpha-linked acidic dipeptidase like 1
TAR (HIV-1) RNA binding protein 1
castor zinc finger 1
GABA type A receptor associated protein like 1
dynein axonemal assembly factor 5
kinase D interacting substrate 220
dihydrouridine synthase 2
zinc finger SWIM-type containing 8
thioredoxin reductase 1
cytosolic thiouridylase subunit 2
transmembrane protein 123
WD repeat domain 20
GPALPP motifs containing 1

potassium voltage-gated channel subfamily H member 2
valosin containing protein lysine methyltransferase
Jupiter microtubule associated homolog 1
myosin phosphatase Rho interacting protein
5-phosphohydroxy-L-lysine phospho-lyase
RAD1 checkpoint DNA exonuclease
mastermind like transcriptional coactivator 1
clock circadian regulator
ubiquitin recognition factor in ER associated degradation 1
sortilin 1
mitogen-activated protein kinase kinase kinase 9
O-sialoglycoprotein endopeptidase like 1
Novel protein
mitochondrial ribosomal protein L20
death effector domain containing
translocase of inner mitochondrial membrane 13
high density lipoprotein binding protein
ATP synthase membrane subunit c locus 1
eukaryotic translation initiation factor 3 subunit G
glyoxalase domain containing 4
MAX interactor 1, dimerization protein
Kruppel like factor 12
CDP-diacylglycerol synthase 1
leucine rich repeat and fibronectin type III domain containing 1
transforming acidic coiled-coil containing protein 3
SET domain bifurcated histone lysine methyltransferase 2
armadillo repeat containing 8
tRNA-histidine guanylyltransferase 1 like
sirtuin 7
DnaJ heat shock protein family (Hsp40) member C19
TRAF2 and NCK interacting kinase
nucleolar protein with MIF4G domain 1
regulator of microtubule dynamics 2
SH3 domain binding kinase 1
zeta chain of T cell receptor associated protein kinase 70
IMP U3 small nucleolar ribonucleoprotein 4
ribosomal protein S8
2'-deoxynucleoside 5'-phosphate N-hydrolase 1
cullin 3
inorganic pyrophosphatase 1
novel protein
autophagy related 9B
GrpE like 2, mitochondrial
dihydrolipoamide S-acetyltransferase
nucleoporin 98 and 96 precursor
matrix remodeling associated 8

mitochondrial ribosomal protein L58
mitochondrial ribosomal protein L14
WD repeat domain 12
TBC1 domain family member 22A
catenin alpha 1
leucine carboxyl methyltransferase 2
ribosomal protein S23
aspartyl aminopeptidase
peroxisomal testis enriched protein 1
adenosine deaminase like
rhotekin 2
kringle containing transmembrane protein 1
stomatin
chromosome 17 open reading frame 67
DDB1 and CUL4 associated factor 12
phospholipid phosphatase related 2
KIAA0930
dynein axonemal assembly factor 2
cytoplasmic polyadenylation element binding protein 4
apolipoprotein L4
zinc finger protein 256
phosphatidylinositol-4-phosphate 5-kinase type 1 beta
mitochondrial rRNA methyltransferase 1
zinc finger protein 248
calcium voltage-gated channel subunit alpha1 E
syntaxin 11
mitochondrial ribosomal protein L15
aldo-keto reductase family 1 member A1
EH domain binding protein 1 like 1
family with sequence similarity 107 member B
sorting nexin 3
N-acetylneuraminic acid phosphatase
formyl peptide receptor 3
brain protein I3
PSMC3 interacting protein
transcription factor 4
ZFP36 ring finger protein like 1
ADP ribosylation factor like GTPase 5A
COP9 signalosome subunit 8
integrin subunit beta 7
lysine methyltransferase 2E (inactive)
glycolipid transfer protein
NLR family apoptosis inhibitory protein
fizzy and cell division cycle 20 related 1
antizyme inhibitor 2
NFKB inhibitor delta

homologous recombination factor with OB-fold
CD84 molecule
chromosome 10 open reading frame 143
PR/SET domain 2
ankyrin 3
C-X-C motif chemokine receptor 5
RLF zinc finger
nucleosome assembly protein 1 like 1
novel protein
peptidylprolyl isomerase H
WRN RecQ like helicase
URB2 ribosome biogenesis homolog
N-terminal EF-hand calcium binding protein 1
C-type lectin domain family 4 member D
zinc finger protein 146
zinc finger protein 823
TNF receptor superfamily member 13C
family with sequence similarity 98 member B
EWS RNA binding protein 1
MYD88 innate immune signal transduction adaptor
ArfGAP with coiled-coil, ankyrin repeat and PH domains 1
serine palmitoyltransferase long chain base subunit 1
transmembrane BAX inhibitor motif containing 1
zinc finger protein interacting with K protein 1
interleukin 1 receptor associated kinase 4
Sin3A associated protein 130
intraflagellar transport 46
serine and arginine rich splicing factor 9
TNF receptor superfamily member 25
ubiquinol-cytochrome c reductase complex assembly factor 2
FRAT regulator of WNT signaling pathway 2
epidermal growth factor receptor pathway substrate 15 like 1
zinc finger protein 398
enolase-phosphatase 1
S100 calcium binding protein P
RAR related orphan receptor A
nuclear factor I A
zinc finger protein 429
ATPase phospholipid transporting 10A (putative)
protein kinase cAMP-activated catalytic subunit alpha
phosphatidylserine synthase 1
solute carrier family 44 member 2
mediator complex subunit 16
interleukin 4 receptor
mitochondrial ribosomal protein L52
actin related protein 2/3 complex subunit 5

LYR motif containing 4
CHURC1-FNTB readthrough
sterol-C5-desaturase
interleukin 6 signal transducer
ribosomal protein L32
novel transcript
Fc fragment of IgE receptor Ig
tumor susceptibility 101
ribosomal protein L11
ribosomal oxygenase 1
peroxiredoxin like 2A
MYB binding protein 1a
Rap guanine nucleotide exchange factor 2
epsin 1
pantothenate kinase 1
ribosomal protein L27
ribosomal protein L18a
DiGeorge syndrome critical region gene 6 like
NIPBL cohesin loading factor
ZXD family zinc finger C
trypsin domain containing 1
zinc finger protein 671
ETS variant transcription factor 7
dihydrouridine synthase 4 like
single stranded DNA binding protein 1
serpin family A member 1
dedicator of cytokinesis 8
sortilin related VPS10 domain containing receptor 2
ZFP2 zinc finger protein
prenylcysteine oxidase 1 like
pleckstrin
platelet activating factor acetylhydrolase 1b catalytic subunit 2
RIC3 acetylcholine receptor chaperone
isoprenylcysteine carboxyl methyltransferase
transforming acidic coiled-coil containing protein 1
cell division cycle 34, ubiquitin conjugating enzyme
COPI coat complex subunit gamma 1
estrogen receptor binding site associated antigen 9
SAM and HD domain containing deoxynucleoside triphosphate triphosphohydrolase
cholinergic receptor nicotinic beta 1 subunit
solute carrier family 51 subunit alpha
coronin 1A
zinc finger and BTB domain containing 20
regulatory factor X1
SERTA domain containing 2
3-hydroxyisobutyrate dehydrogenase

oligosaccharyltransferase complex non-catalytic subunit
stathmin 3
F-box protein 38
NKD inhibitor of WNT signaling pathway 1
DIS3 like exosome 3'-5' exoribonuclease
metadherin
exportin 4
zinc finger protein 260
DENN domain containing 5A
nucleoporin 58
asteroid homolog 1
mesoderm specific transcript
cyclin dependent kinase 12
ubiquitin specific peptidase 37
elaC ribonuclease Z 2
Spi-B transcription factor
solute carrier family 30 member 4
programmed cell death 2 like
MORC family CW-type zinc finger 2
aprataxin
WD repeat domain 43
DnaJ heat shock protein family (Hsp40) member C16
inosine monophosphate dehydrogenase 2
Rho guanine nucleotide exchange factor 40
apoptotic peptidase activating factor 1
CD48 molecule
GVQW motif containing 3
LCK proto-oncogene, Src family tyrosine kinase
zinc finger protein 623
transmembrane protein 243
Myb/SANT DNA binding domain containing 4 with coiled-coils
sialic acid binding Ig like lectin 6
trans-golgi network protein 2
NPL4 homolog, ubiquitin recognition factor
dipeptidyl peptidase 7
proteasome activator subunit 4
ubiquitin specific peptidase like 1
ubiquilin 4
NHP2 ribonucleoprotein
zinc finger protein 746
small integral membrane protein 19
HPS1 biogenesis of lysosomal organelles complex 3 subunit 1
pumilio RNA binding family member 3
ankyrin repeat domain 23
SPG11 vesicle trafficking associated, spatacsin
BUB3 mitotic checkpoint protein

adenine phosphoribosyltransferase
synapsin II
high mobility group nucleosome binding domain 1
contactin associated protein family member 3
zinc finger protein 839
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase like 1
DEF6 guanine nucleotide exchange factor
cyclin dependent kinase 5 regulatory subunit 1
coiled-coil domain containing 47
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1D
von Willebrand factor A domain containing 8
hook microtubule tethering protein 3
RAD50 interactor 1
ATP synthase mitochondrial F1 complex assembly factor 1
ribosomal protein L7a
polypeptide N-acetylgalactosaminyltransferase 5
RNA binding protein with serine rich domain 1
chromobox 4
transmembrane protein 169
EF-hand domain family member D2
interleukin 2 receptor subunit alpha
caspase activity and apoptosis inhibitor 1
phosphatidylinositol glycan anchor biosynthesis class L
cytochrome P450 family 4 subfamily F member 3
zinc finger AN1-type containing 5
mitochondrial ribosomal protein L43
unc-5 netrin receptor A
cell division cycle associated 7
actin related protein 2
amyloid beta precursor protein binding family A member 2
sphingosine-1-phosphate lyase 1
zinc finger DHHC-type palmitoyltransferase 18
NADH:ubiquinone oxidoreductase subunit B4
intraflagellar transport 57
replication factor C subunit 1
zinc finger MYND-type containing 11
LIM and SH3 protein 1
abraxas 1, BRCA1 A complex subunit
ALG1 chitobiosyldiphosphodolichol beta-mannosyltransferase
influenza virus NS1A binding protein
RALY heterogeneous nuclear ribonucleoprotein
family with sequence similarity 160 member B1
transmembrane and coiled-coil domain family 3
cysteine and histidine rich 1
Janus kinase 2
glycogen phosphorylase, muscle associated

methionine sulfoxide reductase B1
mitochondrial ribosomal protein L40
zinc finger protein 16
phosphatidylinositol glycan anchor biosynthesis class K
VPS33B interacting protein, apical-basolateral polarity regulator, spe-39 homolog
COPI coat complex subunit alpha
Ran GTPase activating protein 1
fibronectin type III domain containing 3A
eukaryotic translation initiation factor 3 subunit F
5'-3' exoribonuclease 2
elongator acetyltransferase complex subunit 5
BCL9 like
centrosomal protein 350
solute carrier family 38 member 10
dynamin 1 like
apolipoprotein B receptor
cadherin related family member 2
S100 calcium binding protein A4
interleukin enhancer binding factor 3
S100 calcium binding protein B
reversion inducing cysteine rich protein with kazal motifs
protein phosphatase 2 regulatory subunit Bdelta
ZFP30 zinc finger protein
G protein-coupled receptor 132
CDC42 small effector 1
RAN binding protein 1
exportin 6
orthodenticle homeobox 1
fructosamine 3 kinase related protein
glycophorin B (MNS blood group)
presenilin associated rhomboid like
beclin 1
NFAT activating protein with ITAM motif 1
sterile alpha motif domain containing 4B
acetyl-CoA acetyltransferase 1
spliceosome associated factor 3, U4/U6 recycling protein
beta-1,4-N-acetyl-galactosaminyltransferase 3
chromosome 9 open reading frame 40
thrombospondin 4
transmembrane protein 19
syntaxin binding protein 4
suppressor of cytokine signaling 7
schlafen family member 12 like
zinc finger protein 649
WW domain containing E3 ubiquitin protein ligase 1
C-X-C motif chemokine ligand 10

zinc finger protein 318
glycerol-3-phosphate acyltransferase 2, mitochondrial
WD repeat domain 74
F-box and WD repeat domain containing 11
protein kinase cGMP-dependent 2
OCIA domain containing 2
cannabinoid receptor 2
fumarylacetoacetate hydrolase
NEDD4 binding protein 2 like 1
nucleolar pre-rRNA processing protein NIP7
CD81 molecule
WASP homolog associated with actin, golgi membranes and microtubules
adhesion molecule with Ig like domain 2
programmed cell death 7
tweety family member 2
centlein
HLF transcription factor, PAR bZIP family member
microtubule affinity regulating kinase 4
eukaryotic translation initiation factor 3 subunit E
ASH2 like, histone lysine methyltransferase complex subunit
RIO kinase 3
formin homology 2 domain containing 1
zinc finger protein 33B
adiponectin receptor 1
zinc finger protein 43
3-oxoacid CoA-transferase 1
ABRA C-terminal like
G protein-coupled receptor 27
nuclear receptor subfamily 2 group C member 1
retrotransposon Gag like 6
signal transducer and activator of transcription 6
NME/NM23 nucleoside diphosphate kinase 6
ER degradation enhancing alpha-mannosidase like protein 2
TP53 regulated inhibitor of apoptosis 1
protein phosphatase 6 regulatory subunit 3
receptor transporter protein 4
Ras like without CAAX 1
CCAAT enhancer binding protein alpha
inositol 1,4,5-trisphosphate receptor interacting protein
translocase of inner mitochondrial membrane domain containing 1
vimentin
ribosomal protein S14
G protein-coupled receptor 162
ADP-ribosylhydrolase like 1
unc-51 like kinase 3
haptoglobin

solute carrier family 66 member 3
jumonji domain containing 4
RCAN family member 3
small ArfGAP 1
ras homolog family member G
pogo transposable element derived with KRAB domain
solute carrier family 38 member 11
apolipoprotein B mRNA editing enzyme catalytic subunit 3A
zinc finger protein 26
solute carrier family 40 member 1
NADH:ubiquinone oxidoreductase complex assembly factor 8
tropomodulin 1
axin 2
plexin A2
NIMA related kinase 3
RAB32, member RAS oncogene family
BCL2 like 1
novel C2H2 type zinc finger protein
septin 8
granzyme K
Fc receptor like A
H3.3 histone A
signal sequence receptor subunit 3
translocase of outer mitochondrial membrane 34
glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase
NSE2 (MMS21) homolog, SMC5-SMC6 complex SUMO ligase
gem nuclear organelle associated protein 4
nidogen 1
F-box and leucine rich repeat protein 15
WD repeat domain 1
nudix hydrolase 15
ectodysplasin A receptor
ZFP28 zinc finger protein
Fli-1 proto-oncogene, ETS transcription factor
phenazine biosynthesis like protein domain containing
TM2 domain containing 2
5'-nucleotidase domain containing 4
family with sequence similarity 184 member A
ankyrin repeat and SOCS box containing 8
limb development membrane protein 1
ring finger protein 25
tumor protein p53 inducible protein 3
peroxiredoxin 1
integrin subunit alpha X
transmembrane protein 237
membrane associated ring-CH-type finger 8

DIRAS family GTPase 1
tryptophanyl tRNA synthetase 2, mitochondrial
proteasome 26S subunit, non-ATPase 4
zinc finger and BTB domain containing 44
proline rich protein HaeIII subfamily 1
zinc finger and BTB domain containing 14
tripartite motif containing 58
NBPF member 14
G protein signaling modulator 3
ATPase phospholipid transporting 8B4 (putative)
splicing factor 3a subunit 3
hematopoietic cell-specific Lyn substrate 1
glutaredoxin 5
family with sequence similarity 193 member A
cathepsin F
RAD17 checkpoint clamp loader component
sushi domain containing 3
RNA polymerase III subunit H
small integral membrane protein 12
ETS proto-oncogene 2, transcription factor
SET domain containing 1B, histone lysine methyltransferase
tumor protein p53 binding protein 1
nicastrin
Rho GTPase activating protein 29
zinc finger MYM-type containing 2
zinc finger FYVE-type containing 16
ubiquitin related modifier 1
ArfGAP with coiled-coil, ankyrin repeat and PH domains 2
interferon related developmental regulator 1
N-terminal EF-hand calcium binding protein 2
inhibin subunit beta B
CUE domain containing 1
HECT domain E3 ubiquitin protein ligase 4
CAP-Gly domain containing linker protein 3
olfactory receptor family 52 subfamily N member 4 (gene/pseudogene)
regulator of G protein signaling 7
N-deacetylase and N-sulfotransferase 1
sorting nexin 13
kinesin associated protein 3
inosine triphosphatase
synaptojanin 1
thioredoxin reductase 3
proteasome 26S subunit, non-ATPase 13
PCI domain containing 2
chromosome 19 open reading frame 53
mitochondrial ribosomal protein S34

transketolase
lymphocyte antigen 6 family member G5C
pleckstrin and Sec7 domain containing 4
transmembrane protein 183A
lactamase beta 2
Kruppel like factor 5
ribosomal protein L18
zinc finger E-box binding homeobox 2
ADP ribosylation factor like GTPase 11
RNA polymerase I and III subunit C
BCR activator of RhoGEF and GTPase
CLK4 associating serine/arginine rich protein
casein kinase 1 gamma 3
DENN domain containing 4C
GTPase, IMAP family member 7
FGGY carbohydrate kinase domain containing
DDHD domain containing 2
LYR motif containing 2
CD72 molecule
interleukin 32
synuclein alpha
transaldolase 1
solute carrier family 12 member 6
argonaute RISC component 1
NADH:ubiquinone oxidoreductase subunit C1
adaptor related protein complex 1 associated regulatory protein
SEC31 homolog A, COPII coat complex component
TatD DNase domain containing 1
transcription factor AP-4
granzyme A
PWWP domain containing 3A, DNA repair factor
par-6 family cell polarity regulator beta
proliferation and apoptosis adaptor protein 15
zinc finger protein 696
3'(2'), 5'-bisphosphate nucleotidase 2
hyaluronan binding protein 4
HSPB1 associated protein 1
HMG-box containing 3
aminopeptidase like 1
leucine rich repeats and calponin homology domain containing 4
sulfide quinone oxidoreductase
A-kinase anchoring protein 8 like
RNA binding motif single stranded interacting protein 1
leucine rich repeat kinase 1
nucleoporin 210 like
SH3 and PX domains 2A

polypeptide N-acetylgalactosaminyltransferase 3
phosphatidylinositol glycan anchor biosynthesis class H
nucleoporin 93
cell division cycle 123
CD82 molecule
BCL6 antisense 1
androgen induced 1
ring finger protein, transmembrane 2
BCL2 interacting protein 3
MYC associated factor X
A-kinase anchoring protein 7
ribitol xylosyltransferase 1
dynein cytoplasmic 1 light intermediate chain 2
VAMP associated protein B and C
zinc finger protein 175
Rho guanine nucleotide exchange factor 1
CD22 molecule
thymocyte selection associated family member 2
Rab interacting lysosomal protein like 2
solute carrier family 25 member 23
Ras association domain family member 2
LIM domain and actin binding 1
nucleoporin 54
histone deacetylase 7
DENN domain containing 3
DNA polymerase epsilon 3, accessory subunit
cyclin B1 interacting protein 1
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta
GABA type A receptor associated protein like 2
CAS1 domain containing 1
zinc finger protein 549
NADH:ubiquinone oxidoreductase subunit A8
chromosome 3 open reading frame 62
histidyl-tRNA synthetase 2, mitochondrial
N-terminal glutamine amidase 1
chromosome 11 open reading frame 24
zinc finger protein 599
LYN proto-oncogene, Src family tyrosine kinase
transmembrane protein 69
Raf-1 proto-oncogene, serine/threonine kinase
fibrinogen like 2
zinc finger and BTB domain containing 4
C-type lectin domain containing 9A
6-pyruvoyltetrahydropterin synthase
coiled-coil domain containing 167
fibulin 5

DEAD-box helicase 31
zinc finger protein 329
ring finger protein 40
xylosyltransferase 1
deltex E3 ubiquitin ligase 4
calcium release activated channel regulator 2A
Fc fragment of IgG receptor IIa
HERV-H LTR-associating 2
coiled-coil-helix-coiled-coil-helix domain containing 10
cleavage stimulation factor subunit 1
receptor for activated C kinase 1
cathepsin E
cyclin dependent kinase 2
trimethylguanosine synthase 1
RB transcriptional corepressor like 1
heterogeneous nuclear ribonucleoprotein L like
tetratricopeptide repeat domain 19
formin binding protein 4
THUMP domain containing 1
carboxypeptidase X, M14 family member 2
zinc finger protein 230
N-terminal asparagine amidase
ATP binding cassette subfamily A member 7
bisphosphoglycerate mutase
mitochondrial ribosomal protein L48
DExD-box helicase 50
CCR4-NOT transcription complex subunit 3
cell division cycle 37 like 1
tousled like kinase 1
serine protease 27
ubiquitin protein ligase E3B
coiled-coil domain containing 93
CD83 molecule
DNA methyltransferase 1
siaH E3 ubiquitin protein ligase 2
G protein nucleolar 3
X-ray repair cross complementing 6
nucleoporin 35
structural maintenance of chromosomes 2
focadhesin
RNA polymerase II subunit M
zinc finger DHHC-type palmitoyltransferase 20
WD repeat domain 75
TBC1 domain family member 3B
sestrin 1
cryptochrome circadian regulator 2

cytochrome b5 reductase 4
glutathione S-transferase mu 3
ribosomal protein S20
homer scaffold protein 3
ubiquitin protein ligase E3A
cytidine and dCMP deaminase domain containing 1
mitochondrial ribosomal protein S2
eukaryotic translation initiation factor 3 subunit H
H1.10 linker histone
sperm flagellar 2
5'-nucleotidase domain containing 3
family with sequence similarity 210 member B
BAF nuclear assembly factor 1
antagonist of mitotic exit network 1 homolog
ribonucleotide reductase catalytic subunit M1
zinc finger and SCAN domain containing 12
H2B clustered histone 21
threonyl-tRNA synthetase 3
microtubule associated monooxygenase, calponin and LIM domain containing 2
zinc finger protein 641
cytotoxic and regulatory T cell molecule
mitochondrial ribosomal protein S23
TruB pseudouridine synthase family member 1
glucocorticoid induced 1
methyltransferase like 16
peptidase inhibitor 3
mitogen-activated protein kinase kinase kinase 20
zinc finger protein 578
TIFA inhibitor
defective in cullin neddylation 1 domain containing 1
ETS transcription factor ELK4
desmocollin 2
actin related protein 2/3 complex subunit 2
solute carrier family 45 member 4
PHD finger protein 23
CD40 molecule
ribosomal protein S6 kinase like 1
interleukin 18 receptor 1
F-box and WD repeat domain containing 7
glutamic-oxaloacetic transaminase 2
DENN domain containing 2A
MIS12 kinetochore complex component
amyloid beta precursor like protein 2
calcium voltage-gated channel subunit alpha1 H
integrin alpha FG-GAP repeat containing 2
chondroitin polymerizing factor 2

lymphocyte antigen 6 family member E
hypoxia inducible factor 1 subunit alpha
BTB domain containing 11
tyrosine kinase non receptor 2
cytohesin 2
RAP1A, member of RAS oncogene family
fucosyltransferase 8
ornithine aminotransferase
valyl-tRNA synthetase 1
cytochrome c oxidase subunit 4I1
small integral membrane protein 3
NPR3 like, GATOR1 complex subunit
nuclear cap binding subunit 3
PHD finger protein 19
oxysterol binding protein like 6
eukaryotic translation initiation factor 3 subunit L
transmembrane protein 135
tight junction protein 3
SPT7 like, STAGA complex subunit gamma
coiled-coil domain containing 138
tRNA methyltransferase 2 homolog A
consortin, connexin sorting protein
SS18 like 2
enhancer of zeste 1 polycomb repressive complex 2 subunit
ribosomal protein L6
zinc finger protein 570
selenium binding protein 1
transmembrane 6 superfamily member 1
ezrin
fibrosin
ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 3
STIMATE-MUSTN1 readthrough
DEAH-box helicase 38
inositol 1,4,5-trisphosphate receptor type 3
bromodomain adjacent to zinc finger domain 2A
post-glycosylphosphatidylinositol attachment to proteins 6
reticulophagy regulator family member 3
adenosine deaminase
zinc finger protein 577
ankyrin repeat domain 26
NLR family CARD domain containing 3
BTB domain and CNC homolog 2
serine/threonine kinase 35
DnaJ heat shock protein family (Hsp40) member C2
valosin containing protein
radical S-adenosyl methionine domain containing 1

ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1
cyclin dependent kinase 4
zinc finger protein 426
ring finger protein 123
SKI proto-oncogene
polypeptide N-acetylgalactosaminyltransferase 10
LIM domains containing 1
ninjurin 2
ribosomal protein L37
A-kinase anchoring protein 13
frizzled class receptor 3
EI24 autophagy associated transmembrane protein
guanosine monophosphate reductase
leucine rich repeat neuronal 2
DLG associated protein 4
NEDD4 like E3 ubiquitin protein ligase
non-SMC condensin II complex subunit H2
autophagy related 14
minichromosome maintenance complex component 3
interleukin 1 receptor associated kinase 2
NME/NM23 nucleoside diphosphate kinase 3
small integral membrane protein 30
elongation factor for RNA polymerase II 2
orosomucoid 1
phosphoribosyl pyrophosphate amidotransferase
capping protein regulator and myosin 1 linker 2
JunB proto-oncogene, AP-1 transcription factor subunit
URB1 ribosome biogenesis homolog
zinc finger protein 737
CD1c molecule
novel protein, ARPC1A and ARPC1B readthrough
chloride intracellular channel 5
2-hydroxyacyl-CoA lyase 1
BICD family like cargo adaptor 1
inositol 1,4,5-trisphosphate receptor type 2
STE20 related adaptor alpha
actin related protein 3
RALBP1 associated Eps domain containing 1
zinc finger matrin-type 5
family with sequence similarity 98 member A
copine 2
dihydrofolate reductase 2
mitogen-activated protein kinase kinase 4
DnaJ heat shock protein family (Hsp40) member B6
cytohesin 3
thioredoxin domain containing 15

ring finger protein 149
zinc finger protein 525
RAN binding protein 10
Sp1 transcription factor
BTB domain containing 9
tubulin alpha 1a
family with sequence similarity 120B
transmembrane protein 185B
bromodomain adjacent to zinc finger domain 1A
DISC1 scaffold protein
novel protein
calumenin
BCL2 interacting protein 3 like
von Willebrand factor C and EGF domains
yippee like 3
copine 1
chromosome 11 open reading frame 1
Rac family small GTPase 2
spliceosome associated factor 1, recruiter of U4/U6.U5 tri-snRNP
TIAM Rac1 associated GEF 2
serine/threonine kinase 17a
chromosome 7 open reading frame 50
novel transcript
chromosome 2 open reading frame 68
SAM domain, SH3 domain and nuclear localization signals 1
NCBP2 antisense 2 (head to head)
WNK lysine deficient protein kinase 1
CDC28 protein kinase regulatory subunit 1B
basic transcription factor 3 like 4
ARHGAP19-SLIT1 readthrough (NMD candidate)
calcium binding and coiled-coil domain 1
zinc finger protein 831
spectrin beta, erythrocytic
small nuclear ribonucleoprotein D2 polypeptide
spindle and kinetochore associated complex subunit 2
glutathione peroxidase 7
SFT2 domain containing 1
transmembrane protein 86B
mitochondrial translational initiation factor 2
quinoid dihydropteridine reductase
transmembrane protein 229B
stromal cell derived factor 2
lipoic acid synthetase
anaphase promoting complex subunit 1
uridine-cytidine kinase 1 like 1
G protein subunit gamma transducin 2

Rho GTPase activating protein 18
phosphatidylinositol specific phospholipase C X domain containing 2
DnaJ heat shock protein family (Hsp40) member A4
adhesion G protein-coupled receptor E2
ATPase H⁺ transporting V1 subunit H
NBPF member 10
mitogen-activated protein kinase kinase 7
tubulin alpha 4a
actin related protein 1B
ZFP82 zinc finger protein
dishevelled segment polarity protein 2
spindlin interactor and repressor of chromatin binding
fission, mitochondrial 1
kinesin family member 1C
nuclear factor I X
RAB29, member RAS oncogene family
methylcrotonoyl-CoA carboxylase 1
secreted frizzled related protein 2
bromodomain containing 8
hexokinase 1
PDS5 cohesin associated factor B
sideroflexin 4
malectin
novel protein
novel transcript
activating transcription factor 3
basal body orientation factor 1
ELAV like RNA binding protein 1
synaptotagmin like 3
novel protein
WD repeat domain, phosphoinositide interacting 2
carboxypeptidase vitellogenic like
transformer 2 beta homolog
histidyl-tRNA synthetase 1
galectin 9C
NADH:ubiquinone oxidoreductase complex assembly factor 4
mitochondrial ribosomal protein L24
potassium voltage-gated channel subfamily A regulatory beta subunit 3
HGH1 homolog
arginine and serine rich protein 1
leucine zipper tumor suppressor family member 3
chaperonin containing TCP1 subunit 2
S-phase kinase associated protein 2
ribonuclease H2 subunit B
WD repeat domain 89
NOP58 ribonucleoprotein

splicing factor proline and glutamine rich
terminal nucleotidyltransferase 5C
actin like 6A
autophagy related 4C cysteine peptidase
DEAD-box helicase 54
C2 calcium dependent domain containing 2
NADH:ubiquinone oxidoreductase subunit AB1
ribosomal protein S6
ankyrin repeat domain 54
multivesicular body subunit 12B
SBDS ribosome maturation factor
single-pass membrane protein with aspartate rich tail 1
BLOC1S5-TXNDC5 readthrough (NMD candidate)
ETS transcription factor ELK3
nucleoporin 50
upstream transcription factor 2, c-fos interacting
sortilin related receptor 1
serine hydroxymethyltransferase 2
notch receptor 4
golgi associated, gamma adaptin ear containing, ARF binding protein 3
fatty acyl-CoA reductase 1
lymphocyte transmembrane adaptor 1
ribosomal protein L24
protein phosphatase 6 regulatory subunit 1
PDGFA associated protein 1
RNA transcription, translation and transport factor
proline rich 14
lysophosphatidic acid receptor 6
BAF chromatin remodeling complex subunit BCL7A
progesterone and adipoQ receptor family member 6
polycystin 1, transient receptor potential channel interacting
SET and MYND domain containing 4
transmembrane protein 236
CRK like proto-oncogene, adaptor protein
gelsolin
CKLF like MARVEL transmembrane domain containing 4
coiled-coil domain containing 125
ubiquitin conjugating enzyme E2 O
zinc finger protein 431
ring finger protein 145
cAMP responsive element binding protein 5
dynein regulatory complex subunit 1
N-alpha-acetyltransferase 25, NatB auxiliary subunit
SLAM family member 8
spire type actin nucleation factor 2
TERF1 interacting nuclear factor 2

DENN domain containing 10
MINDY lysine 48 deubiquitinase 2
pleiotropic regulator 1
zinc finger FYVE-type containing 1
forkhead box J2
prokineticin 2
poly(A) specific ribonuclease subunit PAN3
peroxisome proliferator activated receptor gamma
DnaJ heat shock protein family (Hsp40) member C24
zinc finger and BTB domain containing 40
novel protein
tRNA methyltransferase 10C, mitochondrial RNase P subunit
methionine sulfoxide reductase B3
leucine rich repeat containing 47
ZFP1 zinc finger protein
mucolipin 1
coiled-coil domain containing 25
cyclin dependent kinase 20
chromosome 12 open reading frame 42
NAD kinase 2, mitochondrial
proteasome activator subunit 2
HAUS augmin like complex subunit 1
ankyrin repeat and SOCS box containing 2
G protein nucleolar 2
receptor interacting serine/threonine kinase 1
ADP ribosylation factor like GTPase 4D
sialic acid binding Ig like lectin 5
RNA binding motif protein 38
myeloid associated differentiation marker
CDK5 regulatory subunit associated protein 2
membrane associated ring-CH-type finger 9
NOP2/Sun RNA methyltransferase 2
ral guanine nucleotide dissociation stimulator like 2
ribosomal modification protein rimK like family member B
ribosome production factor 1 homolog
mutL homolog 1
glutamyl-tRNA amidotransferase subunit C
tRNA methyltransferase 5
nuclear respiratory factor 1
G protein-coupled receptor 180
acylglycerol kinase
interleukin 6 receptor
mitotic spindle organizing protein 2A
family with sequence similarity 241 member B
B cell scaffold protein with ankyrin repeats 1
mitochondrial contact site and cristae organizing system subunit 13

nucleophosmin/nucleoplasmin 3
importin 9
cytohesin 4
elongator acetyltransferase complex subunit 3
erythrocyte membrane protein band 4.1
centromere protein K
ankyrin repeat and SOCS box containing 13
resistin
polycomb group ring finger 3
neurofibromin 2
family with sequence similarity 71 member F2
nuclear RNA export factor 1
GTP binding protein 3, mitochondrial
forkhead box N3
aquaporin 1 (Colton blood group)
NADP dependent oxidoreductase domain containing 1
collagen type IX alpha 3 chain
KAT8 regulatory NSL complex subunit 2
coiled-coil domain containing 6
ariadne RBR E3 ubiquitin protein ligase 1
N-sulfoglucosamine sulfohydrolase
solute carrier family 24 member 4
cilia and flagella associated protein 20
meteorin like, glial cell differentiation regulator
ciliogenesis associated kinase 1
RB transcriptional corepressor like 2
Ly1 antibody reactive
protein serine kinase H1
zinc finger protein 502
bromodomain and PHD finger containing 3
Ts translation elongation factor, mitochondrial
nuclear receptor binding protein 1
ribonuclease P/MRP subunit p40
leucine rich repeat containing 8 VRAC subunit D
novel protein
SDE2 telomere maintenance homolog
CD3e molecule associated protein
zinc finger protein 211
cell migration inducing hyaluronidase 2
signal regulatory protein beta 2
egl-9 family hypoxia inducible factor 1
leucine rich repeat containing 46
vasohibin 1
neurotrophic receptor tyrosine kinase 3
nei like DNA glycosylase 2
olfactory receptor family 2 subfamily W member 3

RAB6B, member RAS oncogene family
NFKB inhibitor zeta
beta-carotene oxygenase 2
ARV1 homolog, fatty acid homeostasis modulator
ubiquitin protein ligase E3 component n-recognin 2
lamin B receptor
MLX interacting protein
ribosomal protein S27a
citrate synthase lysine methyltransferase
nuclear envelope integral membrane protein 1
nuclear transport factor 2 like export factor 1
major histocompatibility complex, class II, DO beta
zinc finger protein 442
forty-two-three domain containing 1
phosphatidylinositol-4-phosphate 5-kinase type 1 alpha
MYCBP associated protein
BTB domain containing 10
methionine sulfoxide reductase B2
peroxiredoxin 5
ribosomal protein L38
thioredoxin
solute carrier family 22 member 5
neural EGFL like 2
spleen associated tyrosine kinase
calsyntenin 1
F-box protein 25
methyltransferase like 6
fasciculation and elongation protein zeta 2
family with sequence similarity 104 member A
zinc finger protein 217
NMDA receptor synaptonuclear signaling and neuronal migration factor
tensin 1
solute carrier family 2 member 11
major facilitator superfamily domain containing 11
nitrilase family member 2
mitotic spindle organizing protein 1
bromodomain adjacent to zinc finger domain 2B
cytokine inducible SH2 containing protein
G protein-coupled receptor kinase 2
glycerophosphodiester phosphodiesterase domain containing 3
akirin 2
glycogen synthase kinase 3 alpha
pleckstrin homology and RhoGEF domain containing G5
adrenomedullin
DNA polymerase gamma 2, accessory subunit
CD79a molecule

drebrin 1
semaphorin 6B
abhydrolase domain containing 15
exocyst complex component 3 like 1
ubiquitin conjugating enzyme E2 D3
serine/threonine kinase 40
pyruvate dehydrogenase phosphatase catalytic subunit 1
proline, glutamate and leucine rich protein 1
transmembrane protein 268
syntaxin 16
solute carrier family 16 member 5
nuclear receptor subfamily 3 group C member 1
annexin A6
ER membrane protein complex subunit 3
zinc finger protein 879
HEAT repeat containing 6
Abelson helper integration site 1
zinc finger protein 227
transmembrane protein 97
eukaryotic translation initiation factor 5A2
C-terminal Src kinase
zinc finger protein 687
XK related 8
pleckstrin 2
zinc finger protein 232
ralA binding protein 1
kelch domain containing 7B
transmembrane protein 41A
AKT serine/threonine kinase 3
ribosomal protein lateral stalk subunit P1
spermatogenesis and centriole associated 1 like
SLC2A4 regulator
interleukin 20 receptor subunit beta
transmembrane protein 131
vascular endothelial growth factor B
TSPY like 1
formin like 3
major histocompatibility complex, class II, DQ alpha 2
capping actin protein of muscle Z-line subunit alpha 1
peroxisomal biogenesis factor 12
interferon induced with helicase C domain 1
KIAA1143
ankyrin repeat domain 40
RAB11 family interacting protein 4
mago homolog B, exon junction complex subunit
adenylate kinase 3

radial spoke head 14 homolog
neuronal cell adhesion molecule
zinc finger protein 432
selenoprotein N
G1 to S phase transition 1
rogdi atypical leucine zipper
zinc finger protein 2
calcium/calmodulin dependent protein kinase kinase 1
debranching RNA lariats 1
KN motif and ankyrin repeat domains 1
carboxypeptidase Q
protein disulfide isomerase family A member 6
short chain dehydrogenase/reductase family 42E, member 1
leucine rich repeat containing 2
phosphatidylinositol-5-phosphate 4-kinase type 2 alpha
spectrin alpha, erythrocytic 1
transmembrane protein 128
serine palmitoyltransferase long chain base subunit 2
TATA-box binding protein associated factor, RNA polymerase I subunit A
WD repeat domain 36
WD repeat domain 18
endoplasmic reticulum-golgi intermediate compartment 1
V-set immunoregulatory receptor
growth factor receptor bound protein 2
hemogen
small nuclear ribonucleoprotein polypeptide B2
ribosomal protein L39 like
thymopoietin
origin recognition complex subunit 5
poly(A) binding protein interacting protein 1
zinc finger protein 550
zinc finger AN1-type containing 1
growth differentiation factor 7
ILK associated serine/threonine phosphatase
solute carrier family 12 member 1
cyclin G associated kinase
decapping mRNA 2
basigin (Ok blood group)
serine/threonine kinase 3
dynactin subunit 1
chromosome 2 open reading frame 92
zinc finger protein 22
DNA fragmentation factor subunit alpha
tRNA methyltransferase 61B
ubiquitin specific peptidase 22
apolipoprotein B mRNA editing enzyme catalytic subunit 3F

cation channel sperm associated auxiliary subunit beta
zinc finger protein 154
caspase recruitment domain family member 11
ring finger protein 212
muskelin 1
mitochondrial ribosomal protein L39
sphingomyelin phosphodiesterase 1
DEAH-box helicase 15
MMP24 opposite strand
sssemaphorin 4F
plexin A1
tripartite motif containing 4
F-box protein 33
striatin 4
zinc finger with KRAB and SCAN domains 1
keratin 1
COP9 signalosome subunit 4
ankyrin 1
tRNA splicing endonuclease subunit 15
lysosomal associated membrane protein 1
mitochondrial ribosomal protein S15
PHD finger protein 10
SPT6 homolog, histone chaperone and transcription elongation factor
NRDE-2, necessary for RNA interference, domain containing
reticulocalbin 2
zinc finger CCCH-type containing 7B
acetyl-CoA acyltransferase 2
G protein-coupled receptor 146
glutathione synthetase
BTG anti-proliferation factor 3
poly(A) specific ribonuclease subunit PAN2
lysosomal trafficking regulator
small nuclear ribonucleoprotein polypeptide E
WIZ zinc finger
hydroxysteroid 17-beta dehydrogenase 4
dehydrogenase/reductase 4
rhomboid domain containing 2
apolipoprotein L3
hypoxia inducible factor 1 subunit alpha inhibitor
CUB domain containing protein 1
pyruvate dehydrogenase phosphatase catalytic subunit 2
ribosomal protein L9
G protein-coupled receptor 55
NEDD8 activating enzyme E1 subunit 1
protein phosphatase 2C like domain containing 1
A-kinase anchoring protein 5

BCDIN3 domain containing RNA methyltransferase
exocyst complex component 7
solute carrier family 35 member B4
XK related 3
dynein axonemal heavy chain 1
pleckstrin and Sec7 domain containing
HERV-H LTR-associating 3
ring finger protein 146
delta 4-desaturase, sphingolipid 1
major facilitator superfamily domain containing 9
sodium channel modifier 1
activating signal cointegrator 1 complex subunit 2
ectonucleoside triphosphate diphosphohydrolase 5 (inactive)
diacylglycerol O-acyltransferase 1
HORMA domain containing 1
F-box and leucine rich repeat protein 8
solute carrier family 35 member B2
nucleoporin 210
guanylyl cyclase domain containing 1
TNF alpha induced protein 8 like 1
LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
ATPase H⁺ transporting V1 subunit G1
SEC13 homolog, nuclear pore and COPII coat complex component
pro-apoptotic WT1 regulator
CEA cell adhesion molecule 21
coilin
tubulin alpha 1c
coiled-coil domain containing 28A
splA/ryanodine receptor domain and SOCS box containing 1
SHOC2 leucine rich repeat scaffold protein
actin beta
SFI1 centrin binding protein
carnosine N-methyltransferase 1
mitochondrial ribosomal protein S33
spermatogenesis associated 20
mitochondrial ribosomal protein S11
exophilin 5
novel transcript, RBM7-REXO2 readthrough
ADP ribosylation factor like GTPase 6 interacting protein 6
proline rich nuclear receptor coactivator 1
dynein axonemal heavy chain 6
YAE1 maturation factor of ABCE1
golgi reassembly stacking protein 2
N-alpha-acetyltransferase 30, NatC catalytic subunit
general transcription factor IIIC subunit 3
lipopolysaccharide induced TNF factor

ADAM metallopeptidase with thrombospondin type 1 motif 3
nipsnap homolog 3A
amyloid beta precursor protein binding family B member 3
acyl-CoA dehydrogenase medium chain
X-C motif chemokine ligand 1
junction mediating and regulatory protein, p53 cofactor
potassium voltage-gated channel subfamily A regulatory beta subunit 2
tetratricopeptide repeat domain 12
mercaptopyruvate sulfurtransferase
methyl-CpG binding domain protein 3
mitogen-activated protein kinase kinase kinase kinase 1
C-C motif chemokine ligand 2
ecotropic viral integration site 5
anaphase promoting complex subunit 16
novel transcript
coiled-coil domain containing 58
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 10 (putative)
required for meiotic nuclear division 1 homolog
oncostatin M
TARBP2 subunit of RISC loading complex
carbohydrate sulfotransferase 11
tetraspanin 14
nucleoporin 37
centrosomal protein 78
dephospho-CoA kinase domain containing
LEO1 homolog, Paf1/RNA polymerase II complex component
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8
CTD small phosphatase 1
helicase with zinc finger
F-box protein 22
kinetochore localized astrin (SPAG5) binding protein
transcription factor B1, mitochondrial
ubiquitin B
peptidyl-tRNA hydrolase 1 homolog
calpain 5
nucleolar protein 6
transmembrane protein 184B
ribosomal protein L8
DEAD-box helicase 28
RCSD domain containing 1
cyclic GMP-AMP synthase
DnaJ heat shock protein family (Hsp40) member B9
novel protein
SEM1 26S proteasome complex subunit
aminoadipate-semialdehyde dehydrogenase
oxysterol binding protein 2

deoxyribonuclease 1
methyltransferase like 21A
LSM4 homolog, U6 small nuclear RNA and mRNA degradation associated
coactivator associated arginine methyltransferase 1
proteasome 26S subunit, ATPase 1
leukocyte immunoglobulin like receptor B2
zinc finger protein 703
cysteinyl leukotriene receptor 2
prolyl 4-hydroxylase, transmembrane
Wnt ligand secretion mediator
RNA pseudouridine synthase domain containing 2
actin related protein 6
eukaryotic translation termination factor 1
ribosomal protein L5
nucleolar protein interacting with the FHA domain of MKI67
signal transducer and activator of transcription 3
metabolism of cobalamin associated B
zinc finger protein 865
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2
galectin 3 binding protein
cilia and flagella associated protein 70
carbonic anhydrase 11
UPF2 regulator of nonsense mediated mRNA decay
interferon induced protein with tetratricopeptide repeats 1
nudix hydrolase 21
multiple inositol-polyphosphate phosphatase 1
recoverin
eukaryotic translation initiation factor 2B subunit beta
solute carrier family 18 member A2
GTPase, IMAP family member 4
solute carrier family 37 member 1
R3H domain containing 2
NHL repeat containing E3 ubiquitin protein ligase 1
glia maturation factor gamma
phosphodiesterase 7A
calcyphosine 2
eukaryotic translation initiation factor 2 alpha kinase 1
arrestin domain containing 2
spermatogenesis associated 24
B cell linker
coagulation factor XII
jagged canonical Notch ligand 1
ADAM metallopeptidase with thrombospondin type 1 motif 6
solute carrier family 27 member 6
activin A receptor type 2B
aldehyde dehydrogenase 3 family member B1

lysine demethylase 5A
ubiquitin specific peptidase 43
zinc finger and BTB domain containing 10
peptidase D
ring finger protein 11
HECT and RLD domain containing E3 ubiquitin protein ligase family member 1
serine and arginine rich splicing factor 6
PBX homeobox 2
eukaryotic translation initiation factor 4B
protein phosphatase 1 regulatory subunit 12C
beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group)
chromosome 1 open reading frame 131
zinc finger CCCH-type containing 14
polypeptide N-acetylgalactosaminyltransferase 1
ANKHD1-EIF4EBP3 readthrough
tRNA methyltransferase subunit 11-2
kelch like family member 17
ankyrin repeat domain 9
dolichyl-phosphate mannosyltransferase subunit 2, regulatory
myotubularin related protein 4
nudix hydrolase 6
ankyrin repeat domain 46
La ribonucleoprotein 4
zinc finger RNA binding protein 2
BRCA2 and CDKN1A interacting protein
peroxisomal biogenesis factor 26
molybdenum cofactor synthesis 3
LSM5 homolog, U6 small nuclear RNA and mRNA degradation associated
general transcription factor IIH subunit 5
secretory carrier membrane protein 3
Rho GTPase activating protein 27
spalt like transcription factor 2
elongator complex protein 1
eukaryotic translation initiation factor 1B
metaxin 2
synaptosome associated protein 47
casein kinase 1 alpha 1
thiamin pyrophosphokinase 1
SERPINE1 mRNA binding protein 1
ankyrin and armadillo repeat containing
zinc finger protein 821
chromosome 15 open reading frame 40
nucleophosmin 1
tetratricopeptide repeat domain 30B
centrosomal protein 97
3-hydroxybutyrate dehydrogenase 2

RAB5B, member RAS oncogene family
family with sequence similarity 117 member A
methyltransferase like 1
solute carrier family 14 member 1 (Kidd blood group)
protein inhibitor of activated STAT 4
PHD finger protein 13
chaperonin containing TCP1 subunit 5
phospholipase D family member 4
small nuclear ribonucleoprotein U11/U12 subunit 35
DnaJ heat shock protein family (Hsp40) member C13
G-patch domain containing 11
nipsnap homolog 2
kelch repeat and BTB domain containing 3
insulin like 6
single stranded DNA binding protein 4
FRY microtubule binding protein
TSPY like 5
ubiquitin conjugating enzyme E2 J2
adaptor related protein complex 3 subunit beta 1
taspase 1
transmembrane protein 33
SIN3-HDAC complex associated factor
ERI1 exoribonuclease family member 3
zinc finger protein 420
phosphoglycerate mutase 1
TBC1 domain family member 17
GDP-mannose 4,6-dehydratase
CD2 associated protein
jade family PHD finger 2
alpha hemoglobin stabilizing protein
sigma non-opioid intracellular receptor 1
membrane palmitoylated protein 6
chondroitin sulfate synthase 1
myosin IXA
general transcription factor IIIC subunit 4
RIC1 homolog, RAB6A GEF complex partner 1
lysine methyltransferase 2B
roundabout guidance receptor 3
CD4 molecule
peptidase, mitochondrial processing subunit beta
WW domain binding protein 11
troponin I2, fast skeletal type
growth differentiation factor 11
valyl-tRNA synthetase 2, mitochondrial
TLE family member 3, transcriptional corepressor
RB binding protein 4, chromatin remodeling factor

mediator complex subunit 22
lipase maturation factor 1
lipid droplet associated hydrolase
chromosome 12 open reading frame 45
actin binding LIM protein family member 2
G protein subunit beta 1
histone deacetylase 5
aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase
nuclear transcription factor Y subunit gamma
biliverdin reductase B
THO complex 1
DNA ligase 3
dpy-19 like 4
serine active site containing 1
WD repeat domain 46
ras homolog family member A
granzyme B
Ras suppressor protein 1
metabolism of cobalamin associated D
microtubule associated protein tau
RNA polymerase III subunit E
TAM41 mitochondrial translocator assembly and maintenance homolog
small nuclear RNA activating complex polypeptide 1
sirtuin 4
embigin
calpastatin
AT-rich interaction domain 5B
interleukin 2 receptor subunit beta
prolyl endopeptidase
mitogen-activated protein kinase kinase kinase 12
alkylglycerol monooxygenase
ATP binding cassette subfamily D member 2
piezo type mechanosensitive ion channel component 1
ubiquitin conjugating enzyme E2 J1
ADP ribosylation factor like GTPase 8B
SATB homeobox 2
DEAD-box helicase 1
thromboxane A synthase 1
ATP synthase F1 subunit gamma
zinc finger protein 7
transmembrane protein 50B
LIM zinc finger domain containing 2
XIAP associated factor 1
talin 2
reticulocalbin 1
zinc finger protein 620

metastasis associated 1 family member 3
cation channel sperm associated 2
ribose 5-phosphate isomerase A
cytochrome c oxidase assembly factor COX18
methyl-CpG binding domain 4, DNA glycosylase
ZFP36 ring finger protein
zinc finger protein 780B
zinc finger protein 304
solute carrier family 16 member 1
serine/threonine kinase 16
inositol polyphosphate-5-phosphatase E
PR/SET domain 11
major vault protein
solute carrier family 35 member D1
eukaryotic translation initiation factor 2B subunit gamma
branched chain amino acid transaminase 2
dysbindin domain containing 1
H2B clustered histone 6
GLIPR1 like 2
guanylate kinase 1
alpha-L-iduronidase
ribosomal protein S27 like
yrdC N6-threonylcarbamoyltransferase domain containing
proteasome 20S subunit beta 1
ubiquitin specific peptidase 5
nucleotide binding protein 1
shieldin complex subunit 2
ribosomal protein L23
proline rich coiled-coil 2C
aprataxin and PNKP like factor
tyrosine kinase non receptor 1
methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1 like
H2B clustered histone 18
ALG2 alpha-1,3/1,6-mannosyltransferase
WW domain binding protein 2
tRNA splicing endonuclease subunit 34
UDP-glucuronate decarboxylase 1
MAP7 domain containing 1
ubiquitin-fold modifier conjugating enzyme 1
CD86 molecule
AT-hook transcription factor
lectin, mannose binding 2
zinc finger protein 540
zinc finger CCHC-type containing 4
novel protein, MINDY4 and AQP1 readthrough
translocator protein 2

NADH:ubiquinone oxidoreductase subunit B2
chromodomain Y like
Src like adaptor
centrosomal protein 20
lysyl oxidase like 3
centromere protein X
ubiquitin conjugating enzyme E2 E3
estrogen related receptor gamma
leishmanolysin like peptidase
synaptotagmin 2
diaphanous related formin 1
tubulin alpha 8
C-type lectin domain containing 5A
zinc finger AN1-type containing 2B
RUN domain containing 3A
complement component 5a receptor 2
C-type lectin domain family 12 member B
dual specificity phosphatase 12
zinc finger protein 181
mitochondrial ribosomal protein L13
SEC22 homolog B, vesicle trafficking protein (gene/pseudogene)
protein phosphatase 6 catalytic subunit
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1H
microtubule associated serine/threonine kinase family member 4
MLLT6, PHD finger containing
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily
crystallin zeta
molybdenum cofactor synthesis 2
oxidative stress induced growth inhibitor 1
ring finger protein 227
Rh associated glycoprotein
lymphocyte antigen 86
zinc finger FYVE-type containing 9
ADP ribosylation factor like GTPase 17B
periactin
macroH2A.1 histone
RHO family interacting cell polarization regulator 2
mitotic arrest deficient 2 like 1
zinc finger CCCH-type containing 8
DnaJ heat shock protein family (Hsp40) member B12
notch receptor 2
zinc finger protein 792
gasdermin B
transducer of ERBB2, 1
phosphodiesterase 4B
malignant fibrous histiocytoma amplified sequence 1

TNF receptor superfamily member 4
ribosomal protein S25
selectin L
BAG cochaperone 6
centrosomal protein 76
DNA damage induced apoptosis suppressor
solute carrier family 4 member 3
inositol hexakisphosphate kinase 1
ZFP14 zinc finger protein
ADAM metallopeptidase with thrombospondin type 1 motif 13
IKAROS family zinc finger 4
RAB18, member RAS oncogene family
TNF receptor superfamily member 1A
GC-rich sequence DNA-binding factor 2
mitoguardin 1
proteasome 26S subunit, ATPase 3
LLLL and CFNLAS motif containing 1
insulin like growth factor 2 mRNA binding protein 2
zinc finger DHHC-type palmitoyltransferase 2
CD96 molecule
GRB2 related adaptor protein like
NSFL1 cofactor
cell division cycle associated 4
zinc finger protein 132
DNA polymerase lambda
zinc finger protein 84
R3H domain and coiled-coil containing 1 like
src kinase associated phosphoprotein 1
serine/threonine kinase 38 like
pentraxin 3
tudor and KH domain containing
3-hydroxybutyrate dehydrogenase 1
mitochondrial carrier 2
placental growth factor
RIO kinase 2
VPS37C subunit of ESCRT-I
zinc finger protein 639
serine protease 36
SIN3 transcription regulator family member B
secernin 1
SET domain bifurcated histone lysine methyltransferase 1
polypeptide N-acetylgalactosaminyltransferase 12
RUNX family transcription factor 3
interferon induced transmembrane protein 2
RNA polymerase II associated protein 3
DEXD/H-box helicase 60

CUGBP Elav-like family member 2
exosome component 9
erythrocyte membrane protein band 4.2
BAG cochaperone 3
La ribonucleoprotein 4B
calcineurin like EF-hand protein 1
epithelial cell adhesion molecule
Kruppel like factor 3
cyclin dependent kinase 2 interacting protein
RNA polymerase II subunit C
surfeit 2
Cbl proto-oncogene B
HPS5 biogenesis of lysosomal organelles complex 2 subunit 2
protein phosphatase 1 regulatory subunit 18
BOP1 ribosomal biogenesis factor
diphthamide biosynthesis 1
N-acyl phosphatidylethanolamine phospholipase D
chromosome 14 open reading frame 28
Parkinsonism associated deglycase
kinesin light chain 1
Y-box binding protein 3
C-X-C motif chemokine receptor 6
TIMELESS interacting protein
microtubule associated protein 11
UDP-glucose ceramide glucosyltransferase
solute carrier family 25 member 26
protein phosphatase 2 regulatory subunit Balpha
tropomyosin 4
Rho GTPase activating protein 1
FERM, ARH/RhoGEF and pleckstrin domain protein 2
CCR4-NOT transcription complex subunit 6 like
potassium voltage-gated channel subfamily H member 7
novel protein
Ras protein specific guanine nucleotide releasing factor 2
ER lipid raft associated 1
paraspeckle component 1
ATPase H⁺ transporting V0 subunit a1
cardiomyopathy associated 5
Rho guanine nucleotide exchange factor 12
oncomodulin
immediate early response 5
xylosyltransferase 2
dihydrouridine synthase 1 like
KIAA0319
Rab geranylgeranyltransferase subunit beta
mitochondrial ribosomal protein S21

GDNF family receptor alpha 2
KIAA0319 like
prostaglandin E synthase
inositol monophosphatase 2
RFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
akirin 1
novel protein
YTH N6-methyladenosine RNA binding protein 3
ectonucleoside triphosphate diphosphohydrolase 7
lipoprotein lipase
coiled-coil domain containing 102B
retinal outer segment membrane protein 1
Myb/SANT DNA binding domain containing 2
NCK associated protein 1 like
FKBP prolyl isomerase 3
kelch repeat and BTB domain containing 7
TUB like protein 3
transmembrane protein 71
nucleolar protein 8
zinc finger and BTB domain containing 41
ubiquitin conjugating enzyme E2 D1
paired box 5
gon-4 like
serine and arginine rich splicing factor 3
RAB6A, member RAS oncogene family
dipeptidyl peptidase 8
ankyrin repeat and sterile alpha motif domain containing 3
NDRG family member 2
leptin receptor
receptor interacting serine/threonine kinase 2
StAR related lipid transfer domain containing 3
whirlin
2-oxoglutarate and iron dependent oxygenase domain containing 3
C-type lectin domain containing 10A
N-deacetylase and N-sulfotransferase 3
mex-3 RNA binding family member C
cornichon family AMPA receptor auxiliary protein 4
DnaJ heat shock protein family (Hsp40) member C4
serpin family F member 1
3'-phosphoadenosine 5'-phosphosulfate synthase 2
ZFP62 zinc finger protein
G protein-coupled receptor 108
pygopus family PHD finger 2
ring finger protein 144A
chromosome 4 open reading frame 46
N-acetyltransferase 9 (putative)

protection of telomeres 1
ubiquinol-cytochrome c reductase, complex III subunit X
alpha kinase 3
nucleolus and neural progenitor protein
prohibitin 2
p53 and DNA damage regulated 1
RPGRIP1 like
hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit beta
selectin P ligand
ALG9 alpha-1,2-mannosyltransferase
alkaline ceramidase 2
V-set and immunoglobulin domain containing 10
zinc finger protein 3
leucine rich repeat and fibronectin type III domain containing 3
alkB homolog 8, tRNA methyltransferase
solute carrier family 15 member 3
ATPase family AAA domain containing 3C
abhydrolase domain containing 17C, depalmitoylase
CD209 molecule
leucine rich repeat containing 75A
pyridoxamine 5'-phosphate oxidase
zinc finger and SCAN domain containing 18
2,4-dienoyl-CoA reductase 1
mitogen-activated protein kinase kinase 2
thyroid hormone receptor interactor 11
Sp2 transcription factor
secernin 2
transmembrane protein 116
GNAS complex locus
FA complementation group M
POM121 transmembrane nucleoporin C
phosphatidylinositol 4-kinase type 2 beta
TBC1 domain family member 31
helicase, POLQ like
transmembrane protein 129, E3 ubiquitin ligase
MAX dimerization protein 1
splicing factor 3b subunit 5
ubiquitin protein ligase E3 component n-recognin 5
sacsin molecular chaperone
ribosomal protein L12
ATPase H⁺ transporting V0 subunit e1
MOB kinase activator 3A
GCN1 activator of EIF2AK4
UBX domain protein 6
aldehyde dehydrogenase 2 family member
mutS homolog 3

NMD3 ribosome export adaptor
SLP adaptor and CSK interacting membrane protein
mitochondrial ribosomal protein S16
transmembrane protein 170B
WEE1 G2 checkpoint kinase
golgin A3
complement C3a receptor 1
hydroxylysine kinase
beta-1,3-N-acetylgalactosaminyltransferase 2
translocase of inner mitochondrial membrane 17A
mannosidase beta
SUMO peptidase family member, NEDD8 specific
chromosome 5 open reading frame 34
proliferating cell nuclear antigen
F-box and leucine rich repeat protein 16
butyrophilin like 8
prolyl endopeptidase like
tripeptidyl peptidase 2
chromosome 19 open reading frame 12
chitinase 1
FLYWCH-type zinc finger 1
disco interacting protein 2 homolog B
adaptor related protein complex 2 subunit mu 1
autophagy related 16 like 2
solute carrier family 4 member 1 (Diego blood group)
peroxisomal biogenesis factor 11 beta
kelch like family member 11
cathepsin L
RAB35, member RAS oncogene family
dynein axonemal heavy chain 17
SP100 nuclear antigen
kelch like family member 42
pleckstrin homology domain containing A1
GID complex subunit 4 homolog
membrane associated ring-CH-type finger 6
TNF receptor associated factor 2
fibulin 7
proteasome 20S subunit alpha 4
intercellular adhesion molecule 3
microtubule associated protein 1S
small EDRK-rich factor 2
neuroplastin
tetraspanin 5
alcohol dehydrogenase 5 (class III), chi polypeptide
membrane associated ring-CH-type finger 2
RAB, member of RAS oncogene family like 2A

transmembrane protein 127
chromosome 12 open reading frame 43
CDGSH iron sulfur domain 3
BCL2 like 13
selenoprotein O
zinc finger protein 891
STAM binding protein like 1
TBC1 domain family member 19
zinc finger protein like 1
target of myb1 like 1 membrane trafficking protein
NOC3 like DNA replication regulator
KRAB-A domain containing 2
spermatid perinuclear RNA binding protein
phenylalanyl-tRNA synthetase subunit alpha
UBA like domain containing 2
cilia and flagella associated protein 36
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein beta
calponin 2
zinc finger protein 845
diphthamide biosynthesis 5
calcium activated nucleotidase 1
caspase recruitment domain family member 14
centromere protein L
NKAP domain containing 1
colony stimulating factor 3 receptor
WD repeat domain 3
mitochondrial ribosomal protein L4
regenerating family member 4
DEAH-box helicase 37
microtubule associated protein 1A
neuronal pentraxin receptor
GA binding protein transcription factor subunit beta 2
mitogen-activated protein kinase kinase kinase 4
glycoprotein M6A
storkhead box 2
fidgetin like 1
coenzyme Q5, methyltransferase
AF4/FMR2 family member 4
TRAF family member associated NFKB activator
G protein subunit alpha i2
chromosome 2 open reading frame 42
family with sequence similarity 171 member A1
cytochrome c oxidase assembly factor 6
transmembrane protein 150A
leucine rich repeat containing 24
F-box protein 42

kynurenine aminotransferase 3
proteasome 26S subunit, ATPase 5
SHANK associated RH domain interactor
phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta
tripartite motif containing 32
high mobility group box 2
major facilitator superfamily domain containing 6
cytochrome c oxidase assembly factor 3
atypical chemokine receptor 1 (Duffy blood group)
cadherin related 23
glycophorin A (MNS blood group)
ubiquitin protein ligase E3 component n-recognin 3
alkylglycerone phosphate synthase
KAT8 regulatory NSL complex subunit 1 like
proline rich 14 like
STE20 related adaptor beta
arachidonate 15-lipoxygenase type B
sushi domain containing 4
zinc finger protein 569
actinin alpha 4
lin-7 homolog C, crumbs cell polarity complex component
cyclin I
TUB like protein 4
poly(ADP-ribose) polymerase family member 15
zinc finger protein 354B
abraxas 2, BRISC complex subunit
zinc finger protein 652
adenosine deaminase tRNA specific 2
immunoglobulin superfamily member 9B
zinc finger protein 563
UTP3 small subunit processome component
transmembrane protein 126A
matrix metalloproteinase 19
complement factor H
CDKN2A interacting protein N-terminal like
zinc finger and SCAN domain containing 22
polycystin 1 like 3, transient receptor potential channel interacting
adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2
zinc finger CCCH-type containing 12C
KIAA0040
apoptosis antagonizing transcription factor
heat shock transcription factor 5
cyclin Y like 1
CD47 molecule
GPN-loop GTPase 2
G protein subunit alpha i3

sterol carrier protein 2
kelch like family member 8
bromodomain containing 3
hydroxysteroid 17-beta dehydrogenase 8
NBPF member 15
zinc finger MYM-type containing 5
serine hydroxymethyltransferase 1
BCS1 homolog, ubiquinol-cytochrome c reductase complex chaperone
minichromosome maintenance complex component 6
tudor domain containing 3
ISY1-RAB43 readthrough
solute carrier family 8 member B1
indoleamine 2,3-dioxygenase 1
chromosome 4 open reading frame 19
solute carrier family 19 member 1
golgi phosphoprotein 3
ring finger protein 130
G protein-coupled bile acid receptor 1
F-box and leucine rich repeat protein 14
O-sialoglycoprotein endopeptidase
ribophorin II
USH1 protein network component harmonin binding protein 1
cytochrome c oxidase assembly factor COX20
aldehyde dehydrogenase 1 family member A2
telomere maintenance 2
killer cell lectin like receptor B1
serpin family B member 9
ETAA1 activator of ATR kinase
PHD finger protein 5A
heat shock protein family A (Hsp70) member 1B
Mtr4 exosome RNA helicase
PAK1 interacting protein 1
transcription elongation factor A3
transglutaminase 2
nucleosome assembly protein 1 like 4
phosphofurin acidic cluster sorting protein 2
heat shock transcription factor 2
heparin binding growth factor
tyrosyl-DNA phosphodiesterase 2
zinc finger CCHC-type containing 3
RUNX family transcription factor 1
patatin like phospholipase domain containing 7
tissue specific transplantation antigen P35B
tripartite motif containing 33
DNA primase subunit 1
kelch like family member 23

formin binding protein 1
transmembrane and coiled-coil domain family 2
tubulin epsilon 1
solute carrier family 7 member 5
centromere protein N
translocase of outer mitochondrial membrane 7
OTU deubiquitinase 4
KIAA0513
pantothenate kinase 2
coenzyme Q6, monooxygenase
zinc and ring finger 1
tetraspanin 16
galactokinase 1
peptidase, mitochondrial processing subunit alpha
zinc finger protein 562
RAD51 paralog C
eukaryotic translation elongation factor 1 beta 2
MAX dimerization protein MLX
transmembrane protein 161A
general transcription factor IIH subunit 1
protein kinase C iota
inhibitor of DNA binding 3, HLH protein
poly(rC) binding protein 4
inner mitochondrial membrane peptidase subunit 1
DEAD-box helicase 55
nebulette
exportin 7
nuclear protein, coactivator of histone transcription
noggin
solute carrier family 12 member 3
EP300 interacting inhibitor of differentiation 2B
dynamin binding protein
MKS transition zone complex subunit 1
NEDD4 binding protein 2
Fc fragment of IgE receptor 1a
X-C motif chemokine ligand 2
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta
zinc finger protein 341
actin related protein 2/3 complex subunit 5 like
protein tyrosine phosphatase receptor type K
KN motif and ankyrin repeat domains 3
helicase like transcription factor
phosphotyrosine interaction domain containing 1
zinc finger with KRAB and SCAN domains 2
tRNA aspartic acid methyltransferase 1
polyhomeotic homolog 2

TEA domain transcription factor 3
ADP-ribosylarginine hydrolase
small VCP interacting protein
discoidin domain receptor tyrosine kinase 1
nectin cell adhesion molecule 1
CEBPZ opposite strand
potassium channel tetramerization domain containing 2
zinc finger protein 283
RAB30, member RAS oncogene family
zinc finger protein 358
ribosomal protein L34
voltage dependent anion channel 2
solute carrier family 30 member 9
zinc finger protein 789
pleckstrin homology and RhoGEF domain containing G7
WD repeat domain 86
lymphotoxin alpha
solute carrier family 1 member 5
VPS9 domain containing 1
protein tyrosine phosphatase non-receptor type 6
chromosome 9 open reading frame 78
modulator of smoothened
solute carrier family 46 member 3
queuine tRNA-ribosyltransferase accessory subunit 2
caspase 7
grancalcin
EGF like repeats and discoidin domains 3
arginyl-tRNA synthetase 1
AT-rich interaction domain 4B
zinc finger protein 740
mitochondrial transcription termination factor 3
trafficking protein particle complex 8
TATA-box binding protein
iron-sulfur cluster assembly factor IBA57
poly(U) binding splicing factor 60
F-box protein 32
pitrilysin metalloproteinase 1
parathymosin
proteasome inhibitor subunit 1
transmembrane channel like 5
tripartite motif containing 24
UTP20 small subunit processome component
gamma-glutamyltransferase 7
G protein-coupled receptor 68
family with sequence similarity 83 member A
ribosomal protein S7

flagellum associated containing coiled-coil domains 1
N-terminal Xaa-Pro-Lys N-methyltransferase 1
Sad1 and UNC84 domain containing 1
serine/arginine repetitive matrix 2
THAP domain containing 12
zinc finger protein 793
RAD23 homolog A, nucleotide excision repair protein
C-C motif chemokine receptor 8
pre-mRNA processing factor 18
heat shock protein nuclear import factor hikiishi
cathepsin A
exportin 5
neural proliferation, differentiation and control 1
PRELI domain containing 3B
interferon regulatory factor 2
ornithine decarboxylase antizyme 2
endonuclease/exonuclease/phosphatase family domain containing 1
replication termination factor 2
mono-ADP ribosylhydrolase 1
RAB33B, member RAS oncogene family
vascular endothelial growth factor A
mitochondrial ribosomal protein L34
phospholipid phosphatase 1
guanidinoacetate N-methyltransferase
F-box protein 7
cAMP responsive element binding protein 3 like 4
short transmembrane mitochondrial protein 1
actin related protein 5
PMS1 homolog 1, mismatch repair system component
kinetochore associated 1
ring finger protein 122
nitric oxide synthase interacting protein
interferon induced protein 44 like
transforming growth factor beta 3
LARGE xylosyl- and glucuronyltransferase 2
interleukin 7
sterile alpha motif domain containing 8
twintilin actin binding protein 2
RAB3 GTPase activating non-catalytic protein subunit 2
transmembrane 9 superfamily member 2
semaphorin 4D
ADP ribosylation factor 1
interleukin 27 receptor subunit alpha
solute carrier family 25 member 39
zinc finger protein 45
translocation associated membrane protein 1

cytochrome c oxidase subunit 7C
selenophosphate synthetase 2
UV stimulated scaffold protein A
lysine acetyltransferase 5
ankyrin repeat domain 36C
voltage dependent anion channel 1
trafficking kinesin protein 1
protein kinase C eta
syndecan binding protein
glycerol-3-phosphate acyltransferase 4
oxysterol binding protein like 9
transportin 3
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1M
methyl-CpG binding domain protein 2
apolipoprotein L domain containing 1
activin A receptor type 1B
glutathione-disulfide reductase
coiled-coil domain containing 126
solute carrier family 26 member 6
LDL receptor related protein associated protein 1
sorting nexin 1
protein-L-isoaspartate (D-aspartate) O-methyltransferase
NIMA related kinase 9
solute carrier family 4 member 1 adaptor protein
oleoyl-ACP hydrolase
ArfGAP with FG repeats 1
phosphoglucomutase 1
CEBPZ opposite strand
protein kinase cAMP-dependent type II regulatory subunit alpha
retinol binding protein 7
solute carrier organic anion transporter family member 4C1
5-oxoprolinase, ATP-hydrolysing
quiescin sulfhydryl oxidase 1
spectrin repeat containing nuclear envelope protein 1
MAF bZIP transcription factor G
peroxisomal trans-2-enoyl-CoA reductase
tectonic family member 1
receptor accessory protein 5
rabphilin 3A
whirlin
family with sequence similarity 160 member A2
gap junction protein beta 6
peptidyl arginine deiminase 4
potassium voltage-gated channel modifier subfamily G member 2
tropomyosin 3
tumor protein p53 binding protein 1

purinergic receptor P2X 1
hydroxysteroid 17-beta dehydrogenase 4
melanoregulin
F-box and WD repeat domain containing 2
SH3 domain containing ring finger 3
ankyrin repeat domain 55
chromosome 1 open reading frame 162
integrin subunit alpha M
CWF19 like cell cycle control factor 1
DnaJ heat shock protein family (Hsp40) member C5
ral guanine nucleotide dissociation stimulator like 4
serine and arginine rich splicing factor 9
novel protein, POLA2-CDC42EP2 readthrough
ankyrin repeat domain 6
novel protein
DDB1 and CUL4 associated factor 10
FKBP prolyl isomerase 9
cell cycle progression 1
calcium voltage-gated channel subunit alpha1 D
G protein-coupled receptor 160
protein phosphatase 1 regulatory subunit 16B
chromosome 16 open reading frame 70
RAB19, member RAS oncogene family
G protein-coupled receptor 84
hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase
S100 calcium binding protein A6
RAB27A, member RAS oncogene family
collagen beta(1-O)galactosyltransferase 1
membrane associated ring-CH-type finger 5
Ts translation elongation factor, mitochondrial
oxoeicosanoid receptor 1
DEAD-box helicase 42
anoctamin 10
stromal cell derived factor 2
S100 calcium binding protein A4
beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group)
G protein-coupled receptor 19
tudor domain containing 9
CCZ1 homolog, vacuolar protein trafficking and biogenesis associated
CAP-Gly domain containing linker protein 1
exosome component 4
neurexophilin and PC-esterase domain family member 3
NADH:ubiquinone oxidoreductase complex assembly factor 7
5'-aminolevulinate synthase 1
EPH receptor B1
thioredoxin domain containing 16

G protein-coupled receptor 132
basic helix-loop-helix family member e40
caspase recruitment domain family member 6
cleavage factor polyribonucleotide kinase subunit 1
cytochrome p450 oxidoreductase
hydroxysteroid 17-beta dehydrogenase 12
sideroflexin 5
round spermatid basic protein 1
microtubule associated protein RP/EB family member 1
acyl-CoA binding domain containing 6
spermatogenesis and centriole associated 1
myosin light chain 12A
RAB18, member RAS oncogene family
nicotinamide nucleotide adenylyltransferase 1
strawberry notch homolog 1
serine carboxypeptidase 1
mitochondrial calcium uptake 1
leucine rich repeat containing 42
ATP binding cassette subfamily C member 5
mitogen-activated protein kinase kinase 6
proteasome 26S subunit, non-ATPase 6
GRB2 binding adaptor protein, transmembrane
RNA binding motif protein 4B
cysteinyl-tRNA synthetase 2, mitochondrial
protein phosphatase 4 regulatory subunit 2
phosphopantothenoylcysteine decarboxylase
aph-1 homolog B, gamma-secretase subunit
Fas associated via death domain
WD repeat domain 37
zinc finger protein 281
S100 calcium binding protein A12
cytidine and dCMP deaminase domain containing 1
HIV-1 Tat interactive protein 2
chromosome 19 open reading frame 38
SH3 domain binding protein 5
C-type lectin domain containing 5A
phosphoglucomutase 2
ORMDL sphingolipid biosynthesis regulator 2
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
C-type lectin domain family 4 member D
phosphogluconate dehydrogenase
syntaxin binding protein 2
hepatocyte growth factor
ankyrin repeat domain 34B
minichromosome maintenance complex binding protein
coiled-coil domain containing 24

patatin like phospholipase domain containing 1
PX domain containing serine/threonine kinase like
zinc finger protein 787
proline rich 5 like
ADAM metallopeptidase domain 19
UDP-glucose pyrophosphorylase 2
succinate-CoA ligase GDP/ADP-forming subunit alpha
ornithine aminotransferase
coronin 2A
leucine rich repeat neuronal 1
calcium binding protein 39
leukotriene B4 receptor
tubulin tyrosine ligase like 3
2-phosphoxylose phosphatase 1
sulfotransferase family 1A member 1
calmodulin binding transcription activator 2
G protein subunit gamma 2
SAM domain, SH3 domain and nuclear localization signals 1
adipocyte plasma membrane associated protein
CDC42 effector protein 3
phosphopantothienoylcysteine synthetase
osteoclast associated Ig-like receptor
sprouty related EVH1 domain containing 2
glycogenin 1
dystrotelin
succinate dehydrogenase complex subunit C
beta-ureidopropionase 1
triple QxxK/R motif containing
enoyl-CoA hydratase domain containing 3
4-hydroxyphenylpyruvate dioxygenase
NLR family member X1
major facilitator superfamily domain containing 14B
sphingomyelin phosphodiesterase acid like 3A
collagen type IV alpha 4 chain
tumor protein p53 inducible protein 3
high mobility group box 2
phosphodiesterase 4B
thioredoxin
NLR family CARD domain containing 4
ADAM metallopeptidase domain 9
Rho GTPase activating protein 18
Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2
novel lipoprotein amino terminal region containing protein
transmembrane O-mannosyltransferase targeting cadherins 1
clathrin heavy chain like 1

transient receptor potential cation channel subfamily M member 2
diacylglycerol kinase delta
hexokinase 2
CD80 molecule
matrix metalloproteinase 9
basic helix-loop-helix family member e41
putative homeodomain transcription factor 1
LSM6 homolog, U6 small nuclear RNA and mRNA degradation associated
cytochrome b5 reductase 1
uridine phosphorylase 1
RTF1 homolog, Paf1/RNA polymerase II complex component
hexokinase 3
dehydrogenase/reductase 7B
armadillo repeat containing 8
AKT interacting protein
FYVE, RhoGEF and PH domain containing 4
B cell linker
novel protein
poly(ADP-ribose) polymerase family member 16
zinc finger protein 282
myelin protein zero
macrophage erythroblast attacher, E3 ubiquitin ligase
major histocompatibility complex, class II, DP beta 1
serine peptidase inhibitor Kazal type 8 (putative)
growth arrest and DNA damage inducible alpha
IKAROS family zinc finger 3
peptidylprolyl isomerase F
VAMP associated protein A
solute carrier family 37 member 3
tubulin tyrosine ligase like 5
glycosyltransferase like domain containing 1
metabolism of cobalamin associated D
prune homolog 2 with BCH domain
RAN binding protein 9
complement C3a receptor 1
jumonji domain containing 6, arginine demethylase and lysine hydroxylase
refilin B
transducer of ERBB2, 1
translocator protein
protein kinase C theta
potassium voltage-gated channel subfamily E regulatory subunit 1
transmembrane protein 120A
syntaxin 10
solute carrier family 9 member A1
polypeptide N-acetylgalactosaminyltransferase 1
polypyrimidine tract binding protein 2

IQ motif containing N
phospholipid phosphatase 5
zinc finger DHHC-type palmitoyltransferase 20
tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2
polypeptide N-acetylgalactosaminyltransferase 2
ADP ribosylation factor like GTPase 8A
lon peptidase 2, peroxisomal
cytoskeleton associated protein 4
kyphoscoliosis peptidase
peptidoglycan recognition protein 1
transmembrane and immunoglobulin domain containing 3
Kruppel like factor 12
major histocompatibility complex, class II, DQ alpha 1
endothelial PAS domain protein 1
zinc finger CCCH-type containing 12D
guanylate cyclase 2D, retinal
zinc finger DHHC-type palmitoyltransferase 7
glucosylceramidase beta
platelet activating factor acetylhydrolase 1b regulatory subunit 1
MOK protein kinase
peptidylprolyl isomerase D
mitofusin 2
Ras suppressor protein 1
S100 calcium binding protein A9
LIM homeobox 4
5-azacytidine induced 2
ATPase phospholipid transporting 9A (putative)
activating transcription factor 7 interacting protein 2
staufen double-stranded RNA binding protein 2
family with sequence similarity 174 member B
fucosyltransferase 7
sorcin
cell division cycle 42
ficolin 1
tropomodulin 3
SET binding protein 1
unc-5 netrin receptor A
LIM domains containing 1
glucose-fructose oxidoreductase domain containing 2
mast cell immunoglobulin like receptor 1
serine incorporator 2
heat shock protein family A (Hsp70) member 1 like
sarcolemma associated protein
harakiri, BCL2 interacting protein
decaprenyl diphosphate synthase subunit 1
anaphase promoting complex subunit 15

4-aminobutyrate aminotransferase
carbonic anhydrase 4
class II major histocompatibility complex transactivator
acetyl-CoA acyltransferase 1
malic enzyme 2
steroid receptor RNA activator 1
aminopeptidase like 1
Fc fragment of IgA receptor
solute carrier family 24 member 3
WD repeat domain, phosphoinositide interacting 1
tuftelin 1
cyclase associated actin cytoskeleton regulatory protein 1
NK3 homeobox 1
CCR4-NOT transcription complex subunit 6
mitogen-activated protein kinase kinase kinase 14
klotho
ATPase H⁺ transporting V1 subunit C1
sulfatase modifying factor 1
dual specificity phosphatase 13
EF-hand calcium binding domain 7
RAB10, member RAS oncogene family
integrin subunit alpha 7
adducin 3
kinesin family member 1B
Gse1 coiled-coil protein
small integral membrane protein 12
novel protein
DLEC1 cilia and flagella associated protein
nitric oxide synthase 1 adaptor protein
protein phosphatase 2 regulatory subunit B'alpha
interleukin 1 receptor associated kinase 3
lipoxygenase homology domains 1
pre-mRNA processing factor 18
kinesin family member 3C
solute carrier family 1 member 3
capping actin protein of muscle Z-line subunit alpha 1
uronyl 2-sulfotransferase
dachshund family transcription factor 1
GLI family zinc finger 1
arginase 1
chondroitin sulfate N-acetylgalactosaminyltransferase 2
G protein regulated inducer of neurite outgrowth 1
NADH:ubiquinone oxidoreductase complex assembly factor 1
endosulfine alpha
nuclear factor of activated T cells 2
WD repeat and SOCS box containing 1

tyrosyl-DNA phosphodiesterase 1
major histocompatibility complex, class II, DP alpha 1
galactosamine (N-acetyl)-6-sulfatase
dynamin 2
protein kinase AMP-activated non-catalytic subunit gamma 1
alpha kinase 3
insulin receptor
testin LIM domain protein
ATPase phospholipid transporting 11B (putative)
NME/NM23 nucleoside diphosphate kinase 6
isopentenyl-diphosphate delta isomerase 1
microtubule associated protein 1 light chain 3 beta 2
SH3 and PX domains 2A
septin 5
folate receptor gamma
selenophosphate synthetase 2
potassium voltage-gated channel subfamily A regulatory beta subunit 3
mortality factor 4 like 1
poly(ADP-ribose) polymerase 1
actin related protein 3
GrpE like 1, mitochondrial
kinesin family member 21B
BAF chromatin remodeling complex subunit BCL11A
phosphoglucomutase 5
testis expressed metallothionein like protein
cytochrome P450 family 1 subfamily B member 1
serpin family B member 1
cordon-bleu WH2 repeat protein like 1
calcium voltage-gated channel auxiliary subunit alpha2delta 4
serine palmitoyltransferase long chain base subunit 1
myosin phosphatase Rho interacting protein
homologous recombination factor with OB-fold
family with sequence similarity 217 member B
SAP30 like
crystallin beta-gamma domain containing 1
interleukin 1 beta
matrix metalloproteinase 19
FERM, ARH/RhoGEF and pleckstrin domain protein 2
kelch like family member 14
mitochondrial fission factor
selenoprotein O
fucosyltransferase 8
glycolipid transfer protein
1-acylglycerol-3-phosphate O-acyltransferase 2
retinal outer segment membrane protein 1
SH2B adaptor protein 2

fem-1 homolog C
ependymin related 1
kelch like family member 8
procollagen-lysine,2-oxoglutarate 5-dioxygenase 1
glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase
lymphocyte antigen 9
ankyrin repeat and SOCS box containing 1
SDE2 telomere maintenance homolog
Sin3A associated protein 30
ataxin 7 like 3
sphingomyelin phosphodiesterase acid like 3B
cyclin and CBS domain divalent metal cation transport mediator 4
exocyst complex component 6
signal peptide peptidase like 2A
transforming growth factor beta receptor 1
transcription factor 4
serine/threonine kinase 16
cilia and flagella associated protein 58
CKLF like MARVEL transmembrane domain containing 3
mitochondrial calcium uniporter
ATPase secretory pathway Ca²⁺ transporting 2
ArfGAP with coiled-coil, ankyrin repeat and PH domains 1
Fc fragment of IgG receptor IIb
cornichon family AMPA receptor auxiliary protein 4
membrane bound O-acyltransferase domain containing 1
CTD phosphatase subunit 1
TNF receptor superfamily member 9
N-terminal EF-hand calcium binding protein 1
PH domain and leucine rich repeat protein phosphatase 1
glyceraldehyde-3-phosphate dehydrogenase
RAR related orphan receptor A
cyclic GMP-AMP synthase
BEN domain containing 7
myotubularin related protein 12
chromosome 1 open reading frame 61
integrator complex subunit 6
NudC domain containing 3
chloride intracellular channel 5
dynactin subunit 4
tropomyosin 4
delta 4-desaturase, sphingolipid 1
coiled-coil domain containing 69
succinate dehydrogenase complex assembly factor 3
choline kinase alpha
cystatin F
ST6 beta-galactoside alpha-2,6-sialyltransferase 1

butyrophilin subfamily 2 member A2
zinc finger with KRAB and SCAN domains 7
XK related 7
WD repeat domain 86
tumor protein p53 binding protein 2
transmembrane protein 169
phospholipase B domain containing 1
ubiquitin specific peptidase 36
G protein-coupled receptor 68
family with sequence similarity 107 member B
ATPase plasma membrane Ca²⁺ transporting 1
A-kinase anchoring protein 10
nitrilase 1
major facilitator superfamily domain containing 1
cornichon family AMPA receptor auxiliary protein 1
IDNK gluconokinase
transmembrane p24 trafficking protein family member 8
spire type actin nucleation factor 2
transmembrane and coiled-coil domains 3
RAD23 homolog B, nucleotide excision repair protein
CD63 molecule
S100 calcium binding protein A8
family with sequence similarity 151 member B
metal regulatory transcription factor 1
cilia and flagella associated protein 45
paired box 5
ezrin
cut like homeobox 1
LSM family member 14B
stromal interaction molecule 1
MAX dimerization protein 3
SOS Ras/Rho guanine nucleotide exchange factor 2
POU class 5 homeobox 1
calmodulin 1
chloride intracellular channel 1
SH3 binding domain protein 5 like
myosin light chain 6
ATP synthase peripheral stalk-membrane subunit b
macrophage immunometabolism regulator
CXXC finger protein 5
angiotensin II receptor associated protein
acidic residue methyltransferase 1
VPS54 subunit of GARP complex
BCL2 interacting protein 2
ArfGAP with GTPase domain, ankyrin repeat and PH domain 2
antizyme inhibitor 1

tumor protein p53 inducible protein 11
family with sequence similarity 219 member A
glutamate-cysteine ligase modifier subunit
pyridoxal kinase
advillin
septin 2
SID1 transmembrane family member 1
NEDD4 binding protein 2 like 1
amine oxidase copper containing 1
leucine rich repeat containing 8 VRAC subunit B
TERF1 interacting nuclear factor 2
leukocyte immunoglobulin like receptor A6
adenosine monophosphate deaminase 2
leukocyte immunoglobulin like receptor A5
bone marrow stromal cell antigen 1
AT-rich interaction domain 3A
pentraxin 3
methionine sulfoxide reductase A
aspartyl-tRNA synthetase 2, mitochondrial
cadherin related family member 3
family with sequence similarity 118 member B
small ubiquitin like modifier 1
CD163 molecule like 1
sirtuin 5
cell division cycle 37, HSP90 cochaperone
Nedd4 family interacting protein 1
mitogen-activated protein kinase kinase kinase 12
ADP ribosylation factor like GTPase 6 interacting protein 5
cystatin A
sphingosine-1-phosphate receptor 1
lysophosphatidylglycerol acyltransferase 1
glycerol-3-phosphate acyltransferase 3
serpin family B member 8
interleukin 18 receptor 1
ER lipid raft associated 1
sorbitol dehydrogenase
pecanex 2
ubiquitin specific peptidase 48
mitotic deacetylase associated SANT domain protein
NOP2/Sun RNA methyltransferase family member 7
S100 calcium binding protein P
GATA binding protein 3
prostaglandin F receptor
tetratricopeptide repeat domain 39C
zinc finger DHHC-type palmitoyltransferase 3
mast cell expressed membrane protein 1

surfeit 6
peptidase inhibitor 3
parvin gamma
glutaminyl-peptide cyclotransferase
transmembrane protein 11
microtubule affinity regulating kinase 3
transcriptional regulating factor 1
enhancer of mRNA decapping 3
arachidonate 15-lipoxygenase type B
F-box and WD repeat domain containing 8
embigin
Ras and Rab interactor 3
mediator complex subunit 22
ankyrin repeat and SOCS box containing 7
limb development membrane protein 1
cytoplasmic FMR1 interacting protein 2
huntingtin interacting protein 1
UV radiation resistance associated
chromosome 4 open reading frame 3
TNFAIP3 interacting protein 2
Rho GTPase activating protein 30
von Willebrand factor A domain containing 7
vanin 1
coiled-coil domain containing 50
peroxiredoxin 3
transmembrane 131 like
family with sequence similarity 200 member B
ATP synthase membrane subunit 6.8PL
DNA ligase 3
TGFB induced factor homeobox 1
X-ray radiation resistance associated 1
haptoglobin
sperm tail PG-rich repeat containing 1
thrombospondin type laminin G domain and EAR repeats
myocyte enhancer factor 2A
secretory leukocyte peptidase inhibitor
zinc finger protein 106
late endosomal/lysosomal adaptor, MAPK and MTOR activator 5
chromodomain Y like 2
solute carrier family 25 member 40
integrin subunit beta 4
capping actin protein, gelsolin like
TINCR ubiquitin domain containing
alpha tocopherol transfer protein like
ADP ribosylation factor like GTPase 8B
prostate androgen-regulated mucin-like protein 1

NIPA like domain containing 3
solute carrier family 22 member 1
Rho associated coiled-coil containing protein kinase 1
mutS homolog 3
acyl-CoA thioesterase 2
death associated protein kinase 2
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 3
MLLT1 super elongation complex subunit
SLAM family member 7
actin related protein 2/3 complex subunit 2
nucleolar protein 4 like
ER membrane protein complex subunit 6
solute carrier family 38 member 11
novel protein
C-X-C motif chemokine receptor 5
poly(A) binding protein interacting protein 2B
proline-serine-threonine phosphatase interacting protein 2
dynactin subunit 2
LysM domain containing 2
signaling lymphocytic activation molecule family member 1
cytidine deaminase
NRDE-2, necessary for RNA interference, domain containing
synaptotagmin like 2
coiled-coil domain containing 88B
zinc finger protein 543
mitogen-activated protein kinase kinase kinase kinase 4
zinc finger protein 354A
MUS81 structure-specific endonuclease subunit
clathrin heavy chain
inositol-trisphosphate 3-kinase C
isocitrate dehydrogenase (NADP(+)) 1
fermitin family member 3
Mix paired-like homeobox
kazrin, periplakin interacting protein
transmembrane protein 253
adenylate cyclase 10
interferon regulatory factor 4
glycosylphosphatidylinositol anchor attachment 1
myocyte enhancer factor 2C
REV3 like, DNA directed polymerase zeta catalytic subunit
ring finger and CHY zinc finger domain containing 1
lectin, mannose binding 2
rabphilin 3A like (without C2 domains)
TRAF3 interacting protein 2
cutC copper transporter
BTB domain containing 11

toll like receptor 10
proteasome 26S subunit, non-ATPase 7
mitogen-activated protein kinase kinase 1
cytochrome b561
ADAM metallopeptidase with thrombospondin type 1 motif 3
enolase 1
interleukin 18 receptor accessory protein
zinc finger matrin-type 5
coagulation factor V
SAFB like transcription modulator
low density lipoprotein receptor class A domain containing 4
synaptonemal complex protein 2
sarcoglycan beta
LRR binding FLII interacting protein 2
chromobox 5
FKBP prolyl isomerase 14
ribonuclease A family member 2
proteasome 26S subunit, ATPase 1
arachidonate 5-lipoxygenase activating protein
NAD synthetase 1
ankyrin repeat and EF-hand domain containing 1
HEN methyltransferase 1
oxysterol binding protein like 9
novel protein
spectrin repeat containing nuclear envelope protein 1
transportin 3
solute carrier organic anion transporter family member 4C1
glycerol-3-phosphate acyltransferase 4
cell cycle progression 1
ATP binding cassette subfamily C member 5
hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase
gap junction protein beta 6
activin A receptor type 1B
cytochrome b561
oleoyl-ACP hydrolase
kazrin, periplakin interacting protein
ArfGAP with FG repeats 1
kinesin family member 21B
5-oxoprolinase, ATP-hydrolysing
anoctamin 10
PX domain containing serine/threonine kinase like
G protein-coupled receptor 84
peroxisomal trans-2-enoyl-CoA reductase
acyl-CoA binding domain containing 6
quiescin sulfhydryl oxidase 1
CAP-Gly domain containing linker protein 1

purinergic receptor P2X 1
F-box and WD repeat domain containing 2
phosphoglucomutase 1
protein phosphatase, Mg²⁺/Mn²⁺ dependent 1M
family with sequence similarity 160 member A2
G protein subunit gamma 2
major histocompatibility complex, class II, DP beta 1
SH3 domain containing ring finger 3
sideroflexin 5
glutathione-disulfide reductase
FKBP prolyl isomerase 9
patatin like phospholipase domain containing 1
RAB27A, member RAS oncogene family
peptidyl arginine deiminase 4
DnaJ heat shock protein family (Hsp40) member C5
apolipoprotein L domain containing 1
prune homolog 2 with BCH domain
adipocyte plasma membrane associated protein
G protein-coupled receptor 160
LDL receptor related protein associated protein 1
BAF chromatin remodeling complex subunit BCL11B
jumonji domain containing 6, arginine demethylase and lysine hydroxylase
sprouty related EVH1 domain containing 2
cyclic nucleotide gated channel subunit alpha 4
myelin protein zero
macrophage erythroblast attacher, E3 ubiquitin ligase
carbonic anhydrase 4
major histocompatibility complex, class II, DP alpha 1
MLLT1 super elongation complex subunit
coiled-coil domain containing 126
RAB19, member RAS oncogene family
CCZ1 homolog, vacuolar protein trafficking and biogenesis associated
tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2
sorting nexin 1
lysine methyltransferase 5A
asparaginyl-tRNA synthetase 2, mitochondrial
SOS Ras/Rho guanine nucleotide exchange factor 2
dystrotelin
CTD phosphatase subunit 1
integrin subunit alpha M
zinc finger protein 561
ral guanine nucleotide dissociation stimulator like 4
calcium binding protein 39
clathrin heavy chain like 1
strawberry notch homolog 1
cytochrome p450 oxidoreductase

dehydrogenase/reductase 7B
ubiquitin specific peptidase 36
WD repeat domain 37
calcium voltage-gated channel subunit alpha1 D
ADAM metallopeptidase domain 19
NOP2/Sun RNA methyltransferase family member 7
ATPase phospholipid transporting 8B2
DEAD-box helicase 42
melanoregulin
tumor protein p53 binding protein 2
calcium/calmodulin dependent protein kinase II delta
leukotriene B4 receptor
transmembrane p24 trafficking protein family member 8
SAP30 like
death associated protein kinase 2
tudor domain containing 9
glucose-fructose oxidoreductase domain containing 2
MAX dimerization protein 3
aph-1 homolog B, gamma-secretase subunit
chromosome 12 open reading frame 65
golgin A1
N-terminal EF-hand calcium binding protein 1
NLR family member X1
family with sequence similarity 151 member B
ependymin related 1
solute carrier family 4 member 1 adaptor protein
activating transcription factor 7 interacting protein 2
integrin subunit alpha 7
dynamin 2
protein kinase cAMP-dependent type II regulatory subunit alpha
cytochrome P450 family 26 subfamily B member 1
MAF bZIP transcription factor G
lipoxygenase homology domains 1
metal regulatory transcription factor 1
PC-esterase domain containing 1B
major histocompatibility complex, class II, DQ alpha 1
teashirt zinc finger homeobox 3
AT-rich interaction domain 5A
ankyrin repeat domain 6
steroid receptor RNA activator 1
methyltransferase like 2B
succinate dehydrogenase complex subunit C
LIM homeobox 4
rabphilin 3A
kinesin family member 1B
potassium voltage-gated channel modifier subfamily G member 2

CDC42 effector protein 3
ankyrin repeat domain 34B
transforming growth factor beta receptor 1
zinc finger with KRAB and SCAN domains 7
slingshot protein phosphatase 1
coiled-coil and C2 domain containing 2B
family with sequence similarity 217 member B
ras homolog family member H
chromosome 16 open reading frame 70
zinc finger DHHC-type palmitoyltransferase 3
lysine demethylase 3B
growth arrest specific 7
pentraxin 3
staufen double-stranded RNA binding protein 2
leucine rich repeat neuronal 1
PTPRF interacting protein alpha 1
IL2 inducible T cell kinase
methyl-CpG binding domain protein 2
testis expressed metallothionein like protein
glycosyltransferase like domain containing 1
pecanex 1
C-type lectin domain containing 5A
ATPase secretory pathway Ca²⁺ transporting 2
sarcolemma associated protein
mitofusin 2
ATPase H⁺ transporting V1 subunit C1
minichromosome maintenance complex binding protein
phosphogluconate dehydrogenase
huntingtin interacting protein 1
Kruppel like factor 12
solute carrier family 26 member 6
putative homeodomain transcription factor 1
NIPA like domain containing 3
myotubularin related protein 3
ninein
protein phosphatase 4 regulatory subunit 2
ATPase phospholipid transporting 9A (putative)
triple QxxK/R motif containing
upregulator of cell proliferation
diacylglycerol kinase delta
calcium release activated channel regulator 2A
major histocompatibility complex, class II, DR alpha
exosome component 4
phosphate cytidylyltransferase 1, choline, alpha
regulatory factor X5
glycogenin 1

PEAK1 related, kinase-activating pseudokinase 1
mitogen-activated protein kinase kinase 6
matrix metalloproteinase 9
6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2
transmembrane protein 234
tetratricopeptide repeat domain 39C
nuclear transcription factor, X-box binding 1
zinc finger protein 281
GATA binding protein 3
solute carrier family 9 member A1
N-ribosyldihydronicotinamide:quinone reductase 2
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
drebrin like
G protein regulated inducer of neurite outgrowth 1
procollagen-lysine,2-oxoglutarate 5-dioxygenase 1
spermatogenesis and centriole associated 1
hydroxysteroid 17-beta dehydrogenase 12
glucosylceramidase beta
cystatin F
vanin 1
transmembrane and coiled-coil domains 3
Rho GTPase activating protein 18
fucosyltransferase 7
tropomyosin 3
platelet activating factor acetylhydrolase 1b regulatory subunit 1
phosphatidylinositol glycan anchor biosynthesis class P
5'-aminolevulinate synthase 1
phosphoglucomutase 2
dpy-19 like C-mannosyltransferase 3
cadherin 26
NudC domain containing 3
BCL2 interacting protein 2
serpin family B member 1
SH3 binding domain protein 5 like
SH3 and PX domains 2A
solute carrier family 36 member 1
cytoskeleton associated protein 4
ankyrin 3
4-hydroxyphenylpyruvate dioxygenase
serine and arginine rich splicing factor 9
VAMP associated protein A
PHD finger protein 12
cytidine and dCMP deaminase domain containing 1
N-acetyltransferase 10
calmodulin binding transcription activator 2
methenyltetrahydrofolate synthetase domain containing

TBC1 domain family member 7
beta-ureidopropionase 1
nucleolar and coiled-body phosphoprotein 1
PR/SET domain 10
nucleoporin 160
leucine rich repeat containing 42
NDC1 transmembrane nucleoporin
zinc finger protein 282
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 3
membrane associated ring-CH-type finger 5
4-aminobutyrate aminotransferase
family with sequence similarity 102 member A
nitrilase 1
zinc finger protein 787
armadillo repeat containing 8
ATPase phospholipid transporting 11B (putative)
NADH:ubiquinone oxidoreductase complex assembly factor 7
transmembrane protein 120A
protein kinase C theta
family with sequence similarity 117 member B
CD5 molecule
myocardin related transcription factor B
interleukin 1 receptor associated kinase 3
ADAM metallopeptidase domain 9
two pore segment channel 2
AKT serine/threonine kinase 3
caspase recruitment domain family member 6
BEN domain containing 7
nuclear receptor subfamily 1 group D member 2
galactosamine (N-acetyl)-6-sulfatase
ADP ribosylation factor like GTPase 8A
FOS like 2, AP-1 transcription factor subunit
influenza virus NS1A binding protein
tripartite motif containing 65
zinc finger protein 106
solute carrier family 37 member 3
zinc finger protein 543
protein-L-isoaspartate (D-aspartate) O-methyltransferase
AT-rich interaction domain 3A
protein phosphatase 2 regulatory subunit B'alpha
harakiri, BCL2 interacting protein
G3BP stress granule assembly factor 1
SPARC (osteonectin), cwcw and kazal like domains proteoglycan 2
FYVE, RhoGEF and PH domain containing 4
hexokinase 2
POZ/BTB and AT hook containing zinc finger 1

INSC spindle orientation adaptor protein
DNA ligase 1
polypeptide N-acetylgalactosaminyltransferase 2
GIT ArfGAP 2
cytoplasmic linker associated protein 1
WD repeat domain, phosphoinositide interacting 1
alpha tocopherol transfer protein like
thymocyte selection associated
solute carrier family 24 member 3
phospholipase B1
N-myristoyltransferase 2
tumor protein p53 inducible protein 11
microtubule associated protein RP/EB family member 1
butyrophilin subfamily 3 member A3
nicotinamide nucleotide adenylyltransferase 1
mitochondrial calcium uniporter dominant negative subunit beta
sphingomyelin phosphodiesterase acid like 3A
sarcoglycan beta
integrin subunit beta 4
osteoclast associated Ig-like receptor
transmembrane O-mannosyltransferase targeting cadherins 1
calcium/calmodulin dependent protein kinase kinase 2
LysM domain containing 2
UTP4 small subunit processome component
integrator complex subunit 6
target of myb1 membrane trafficking protein
tripartite motif containing 44
phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
kelch like family member 2
family with sequence similarity 219 member A
major histocompatibility complex, class II, DQ beta 2
ArfGAP with GTPase domain, ankyrin repeat and PH domain 2
coiled-coil domain containing 69
Ral GTPase activating protein catalytic subunit alpha 2
dynactin subunit 4
lysine methyltransferase 5B
lysophosphatidylglycerol acyltransferase 1
PH domain and leucine rich repeat protein phosphatase 1
TBC1 domain family member 2
flotillin 1
NEDD4 binding protein 2 like 1
RAN binding protein 9
zinc finger family member 783
nuclear prelamin A recognition factor
maltase-glucoamylase
ankyrin repeat and SOCS box containing 7

major histocompatibility complex, class II, DM beta
major histocompatibility complex, class II, DR beta 1
A-kinase anchoring protein 10
BLOC1S5-TXNDC5 readthrough (NMD candidate)
SH3 domain binding protein 5
Fc fragment of IgA receptor
potassium voltage-gated channel subfamily E regulatory subunit 1
mitogen-activated protein kinase kinase kinase kinase 4
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3
arachidonate 5-lipoxygenase
SMYD family member 5
nuclear receptor coactivator 6
AKT interacting protein
limb development membrane protein 1
ribonucleic acid export 1
round spermatid basic protein 1
antizyme inhibitor 1
arachidonate 5-lipoxygenase activating protein
ETS proto-oncogene 1, transcription factor
ST6 beta-galactoside alpha-2,6-sialyltransferase 1
mitogen-activated protein kinase 13
chromosome 19 open reading frame 38
peptidase inhibitor 3
dimethylarginine dimethylaminohydrolase 2
exocyst complex component 6
C-type lectin domain family 4 member D
MANSC domain containing 1
lymphocyte antigen 9
angiotensin II receptor associated protein
ezrin
mast cell immunoglobulin like receptor 1
transient receptor potential cation channel subfamily M member 2
interleukin 18 receptor 1
BCL2 apoptosis regulator
ATP/GTP binding protein 1
coenzyme Q7, hydroxylase
Novel protein
opioid related nociceptin receptor 1
butyrophilin subfamily 3 member A2
thioesterase superfamily member 6
homeodomain interacting protein kinase 2
plexin A1
chloride intracellular channel 5
2-phosphoxylose phosphatase 1
peptidoglycan recognition protein 1
retinol binding protein 7

major histocompatibility complex, class II, DQ beta 1
von Willebrand factor A domain containing 7
argonaute RISC component 4
glycerol-3-phosphate acyltransferase 3
tubulin tyrosine ligase like 3
lysine acetyltransferase 2A
MLLT3 super elongation complex subunit
arginase 1
FAST kinase domains 2
solute carrier family 9 member A8
family with sequence similarity 76 member A
SH3 domain containing GRB2 like, endophilin B1
Enah/Vasp-like
G protein-coupled receptor kinase 6
WD repeat domain 5
exosome component 6
glycogen phosphorylase L
nitric oxide synthase 1 adaptor protein
GLI pathogenesis related 2
kinesin family member 3C
PBX/knotted 1 homeobox 1
tectonic family member 1
RAD23 homolog B, nucleotide excision repair protein
proteoglycan 4
cut like homeobox 1
adenosine deaminase RNA specific B2 (inactive)
Fc fragment of IgM receptor
acetyl-CoA acyltransferase 1
Fas associated via death domain
dual specificity phosphatase 4
dachshund family transcription factor 1
ADP ribosylation factor GTPase activating protein 3
refilin B
whirlin
CD6 molecule
SFI1 centrin binding protein
fem-1 homolog C
tandem C2 domains, nuclear
1,4-alpha-glucan branching enzyme 1
microtubule affinity regulating kinase 3
adhesion G protein-coupled receptor G3
N-acetylneuraminate pyruvate lyase
glutamate-cysteine ligase modifier subunit
stromal cell derived factor 2
interleukin 17 receptor A
shisa like 2A

transient receptor potential cation channel subfamily M member 6
WD repeat domain 4
major facilitator superfamily domain containing 9
neurobeachin like 2
CEBPZ opposite strand
apoptotic chromatin condensation inducer 1
prostaglandin F receptor
tropomyosin 4
syntaxin binding protein 2
transmembrane protein 147
uridine phosphorylase 1
collagen beta(1-O)galactosyltransferase 1
protein kinase C delta
growth arrest and DNA damage inducible alpha
cell death inducing DFFA like effector b
ubiquitin associated protein 1
RAB18, member RAS oncogene family
ATPase phospholipid transporting 11A
cyclase associated actin cytoskeleton regulatory protein 1
LBH regulator of WNT signaling pathway
cysteinyl-tRNA synthetase 1
membrane bound O-acyltransferase domain containing 1
MEF2 activating motif and SAP domain containing transcriptional regulator
signal induced proliferation associated 1 like 2
Ras and Rab interactor 3
SMG7 nonsense mediated mRNA decay factor
solute carrier family 49 member 4
exosome component 5
phospholipase B domain containing 1
methyltransferase like 2A
mono-ADP ribosylhydrolase 1
RUN and FYVE domain containing 3
thymocyte expressed, positive selection associated 1
family with sequence similarity 228 member B
serine/threonine kinase 17a
myosin heavy chain 9
docking protein 4
translocase of inner mitochondrial membrane 9
ataxin 7 like 3
DDB1 and CUL4 associated factor 10
glycolipid transfer protein
synaptonemal complex protein 2
clathrin heavy chain
Ras related GTP binding D
tectonic family member 3
CD3g molecule

myosin VA
transcriptional regulating factor 1
Kruppel like factor 13
immediate early response 3
beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group)
RB transcriptional corepressor like 2
Kruppel like factor 7
karyopherin subunit alpha 1
STEAP family member 1B
striatin
calcium/calmodulin dependent protein kinase IV
endothelial PAS domain protein 1
unc-5 netrin receptor A
class II major histocompatibility complex transactivator
adaptor related protein complex 3 subunit beta 2
pipecolic acid and sarcosine oxidase
VPS37B subunit of ESCRT-I
kelch like family member 12
CD209 molecule
serine peptidase inhibitor Kazal type 8 (putative)
synaptotagmin like 3
embigin
nucleoporin 43
protein phosphatase 1 regulatory subunit 12A
SRSF protein kinase 1
cell division cycle 42
glutaminy-peptide cyclotransferase
nuclear receptor 2C2 associated protein
sterile alpha motif domain containing 10
C-C motif chemokine receptor 4
dynactin subunit 2
G protein-coupled receptor 162
LSM family member 14B
zinc finger protein 319
serine incorporator 2
chromosome 1 open reading frame 226
prickle planar cell polarity protein 1
WD repeat and SOCS box containing 1
WD repeat domain 53
complement C1r subcomponent like
myocyte enhancer factor 2A
protein phosphatase 1 regulatory subunit 3D
tetratricopeptide repeat domain 27
T cell receptor associated transmembrane adaptor 1
growth factor receptor bound protein 10
bone marrow stromal cell antigen 1

mast cell expressed membrane protein 1
hexokinase 3
zinc finger CCCH-type containing 12D
actin binding LIM protein 1
syntaxin 6
NLR family CARD domain containing 4
Scm polycomb group protein homolog 1
CD74 molecule
phospholipid phosphatase 5
zinc finger protein 527
dehydrogenase/reductase 7
U6 snRNA biogenesis phosphodiesterase 1
coagulation factor V
mitogen-activated protein kinase kinase kinase 3
microcephalin 1
reticulon 3
BORCS8-MEF2B readthrough
guanine monophosphate synthase
BICD family like cargo adaptor 1
cytochrome b5 reductase 1
methyltransferase like 22
mahogunin ring finger 1
NLR family pyrin domain containing 12
toll interacting protein
syntaxin binding protein 5
pseudopodium enriched atypical kinase 1
ankyrin repeat and SOCS box containing 1
NIMA related kinase 9
tyrosylprotein sulfotransferase 2
HIV-1 Tat interactive protein 2
5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase
MAPK interacting serine/threonine kinase 1
sphingosine-1-phosphate receptor 1
adaptor related protein complex 3 subunit mu 2
solute carrier family 25 member 44
fucosyltransferase 8
MON1 homolog B, secretory trafficking associated
frizzled class receptor 6
neurochondrin
dual specificity phosphatase 13
methylthioribose-1-phosphate isomerase 1
dedicator of cytokinesis 9
hyaluronan and proteoglycan link protein 3
chondroitin sulfate N-acetylgalactosaminyltransferase 2
pecanex 2
zinc finger DHHC-type palmitoyltransferase 20

ATPase Na⁺/K⁺ transporting subunit alpha 1
Rho GTPase activating protein 5
family with sequence similarity 149 member B1
Rap guanine nucleotide exchange factor like 1
potassium channel tetramerization domain containing 21
WD repeat domain 74
interleukin 18 receptor accessory protein
mitochondrial fission factor
dedicator of cytokinesis 10
major histocompatibility complex, class II, DR beta 5
NRDE-2, necessary for RNA interference, domain containing
period circadian regulator 3
dedicator of cytokinesis 2
zinc finger protein 354A
LYR motif containing 7
NOP2/Sun RNA methyltransferase 4
lymphoid enhancer binding factor 1
SEH1 like nucleoporin
cytidine deaminase
tumor protein p53 inducible protein 3
cornichon family AMPA receptor auxiliary protein 4
RBM14-RBM4 readthrough
Rho GTPase activating protein 29
neurofibromin 1
major histocompatibility complex, class II, DO alpha
G protein-coupled receptor 19
cytoplasmic FMR1 interacting protein 2
hepatocyte growth factor
A-kinase anchoring protein 1
cytochrome P450 family 1 subfamily B member 1
sialic acid binding Ig like lectin 9
pyridoxal kinase
actin related protein 3
MAU2 sister chromatid cohesion factor
UBE2F-SCLY readthrough (NMD candidate)
SAP30 binding protein
LETM1 domain containing 1
BICD cargo adaptor 1
ArfGAP with FG repeats 2
VPS39 subunit of HOPS complex
leucine rich repeats and guanylate kinase domain containing
thyroglobulin
GRAM domain containing 1A
zinc finger protein 383
mitochondrial calcium uptake 1
capping protein regulator and myosin 1 linker 2

mitochondrial ribosomal protein S27
deoxyribonuclease 1
G protein-coupled receptor 132
heme binding protein 2
poly(ADP-ribose) polymerase family member 4
klotho
XK related 7
zinc finger protein 101
eukaryotic translation termination factor 1
ATP binding cassette subfamily A member 2
crystallin beta-gamma domain containing 1
NME/NM23 nucleoside diphosphate kinase 6
ubiquitin like domain containing CTD phosphatase 1
DNA damage regulated autophagy modulator 1
zinc finger protein 837
zinc finger DHHC-type palmitoyltransferase 7
nuclear assembly factor 1 ribonucleoprotein
SAM domain, SH3 domain and nuclear localization signals 1
ADAM metallopeptidase with thrombospondin type 1 motif 3
ring finger and CHY zinc finger domain containing 1
ornithine aminotransferase
signal transducer and activator of transcription 5B
phosphopantothenoylcysteine decarboxylase
1-acylglycerol-3-phosphate O-acyltransferase 2
mitogen-activated protein kinase 14
major facilitator superfamily domain containing 14B
nuclear receptor subfamily 3 group C member 2
3-hydroxyacyl-CoA dehydratase 3
capping actin protein of muscle Z-line subunit alpha 1
secretory leukocyte peptidase inhibitor
tumor protein p53 binding protein 1
nardilysin convertase
cyclin dependent kinase 14
multiple C2 and transmembrane domain containing 2
EPH receptor B1
translocator protein
sorting nexin 18
zinc finger and BTB domain containing 12
SHQ1, H/ACA ribonucleoprotein assembly factor
cAMP responsive element binding protein like 2
neurotensin receptor 1
metabolism of cobalamin associated D
actin related protein 2
adaptor related protein complex 1 subunit gamma 1
IDNK gluconokinase
pre-mRNA processing factor 40 homolog B

interleukin 1 receptor type 1
polypeptide N-acetylgalactosaminyltransferase 14
protein kinase AMP-activated non-catalytic subunit beta 1
phospholipase C gamma 1
zyg-11 family member B, cell cycle regulator
CD55 molecule (Cromer blood group)
mitogen-activated protein kinase kinase kinase 14
TBC1 domain family member 19
novel zinc finger protein
CD58 molecule
family with sequence similarity 118 member B
transmembrane protein 64
novel protein, POLA2-CDC42EP2 readthrough
butyrophilin subfamily 2 member A2
casein kinase 1 delta
IKAROS family zinc finger 4
PATJ crumbs cell polarity complex component
signal induced proliferation associated 1 like 3
aspartyl aminopeptidase
receptor accessory protein 5
Rho GTPase activating protein 30
inositol polyphosphate-4-phosphatase type II B
COPI coat complex subunit beta 2
progesterone receptor membrane component 2
ubiquitin protein ligase E3D
F-box protein 38
bridging integrator 2
TIMP metalloproteinase inhibitor 2
nucleoporin 58
methionine sulfoxide reductase A
cytochrome P450 family 20 subfamily A member 1
neutrophil cytosolic factor 4
LHFPL tetraspan subfamily member 5
methyltransferase like 16
hydroxysteroid dehydrogenase like 2
testis expressed 10
tribbles pseudokinase 2
RNA pseudouridine synthase D4
Rho guanine nucleotide exchange factor 17
oxoeicosanoid receptor 1
leukocyte immunoglobulin like receptor A5
protein tyrosine kinase 2 beta
nuclear factor, erythroid 2 like 3
proteasome 26S subunit, non-ATPase 6
apolipoprotein L4
GDNF inducible zinc finger protein 1

lamin B receptor
integrin alpha FG-GAP repeat containing 2
poly(ADP-ribose) polymerase 1
methionine sulfoxide reductase B2
aldehyde dehydrogenase 6 family member A1
amyloid beta precursor protein binding family B member 1 interacting protein
solute carrier family 35 member E2B
trypsin domain containing 1
cytotoxic T-lymphocyte associated protein 4
CCR4-NOT transcription complex subunit 6
short chain dehydrogenase/reductase family 39U member 1
TNF receptor associated factor 1
amphiphysin
sphingosine-1-phosphate lyase 1
tyrosyl-DNA phosphodiesterase 1
DEAD-box helicase 24
TWIST neighbor
WASH complex subunit 5
sideroflexin 4
CD28 molecule
hydroxyacyl-CoA dehydrogenase
NK3 homeobox 1
heat shock protein 90 alpha family class B member 1
zinc finger protein 230
LRR binding FLII interacting protein 2
nucleolar protein 9
mitochondrial translational release factor 1 like
neurexophilin and PC-esterase domain family member 3
solute carrier family 25 member 40
transmembrane protein 169
apoptosis associated tyrosine kinase
serine incorporator 3
stathmin 3
insulin like growth factor binding protein 3
selenophosphate synthetase 2
telomere maintenance 2
RAB8B, member RAS oncogene family
ankyrin repeat and EF-hand domain containing 1
PHD finger protein 19
nucleolar protein 6
high mobility group box 2
AT-rich interaction domain 3B
RNA binding motif protein 4B
eukaryotic translation initiation factor 5B
endoplasmic reticulum aminopeptidase 2
serine palmitoyltransferase long chain base subunit 1

trafficking protein particle complex 6A
mitogen-activated protein kinase 1
zinc finger protein 251
NAD synthetase 1
coiled-coil domain containing 47
PDZ domain containing 8
protein tyrosine phosphatase receptor type E
IKAROS family zinc finger 3
apoptosis resistant E3 ubiquitin protein ligase 1
flotillin 2
low density lipoprotein receptor adaptor protein 1
solute carrier family 20 member 2
carboxypeptidase D
zinc finger protein 512B
osteoclast stimulating factor 1
golgi phosphoprotein 3 like
TNF receptor superfamily member 25
splicing factor 3b subunit 3
extended synaptotagmin 2
ZFP82 zinc finger protein
zinc finger C3HC-type containing 1
BSD domain containing 1
coiled-coil domain containing 93
transcription elongation factor A2
complement C3b/C4b receptor 1 (Knops blood group)
lemur tyrosine kinase 2
zinc finger protein 516
phosphatidylinositol glycan anchor biosynthesis class U
ring finger protein, transmembrane 2
zinc finger protein 287
extended synaptotagmin 1
polypeptide N-acetylgalactosaminyltransferase 7
chromosome 16 open reading frame 72
B-Raf proto-oncogene, serine/threonine kinase
ubiquitin domain containing 1
ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 3
protein phosphatase 1 regulatory subunit 16B
mannose phosphate isomerase
signal regulatory protein gamma
ankyrin repeat domain 33B
ubiquitin specific peptidase 34
RAS p21 protein activator 2
leucine rich repeat containing 47
multiple EGF like domains 9
zinc finger protein 445
R3H domain and coiled-coil containing 1 like

cilia and flagella associated protein 251
outer mitochondrial membrane lipid metabolism regulator OPA3
ubiquitin associated and SH3 domain containing A
ATPase phospholipid transporting 8B4 (putative)
autophagy related 9A
histone cell cycle regulator
PHD finger protein 21A
src kinase associated phosphoprotein 1
BTB domain containing 11
leucine rich repeat containing 75B
inosine monophosphate dehydrogenase 1
ring finger protein 157
SEC16 homolog A, endoplasmic reticulum export factor
novel protein
aryl hydrocarbon receptor nuclear translocator
RAB3 GTPase activating non-catalytic protein subunit 2
GRB2 related adaptor protein
major histocompatibility complex, class I, F
ubiquitin conjugating enzyme E2 G1
alanyl aminopeptidase, membrane
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfam
CDK5 regulatory subunit associated protein 1 like 1
C-C motif chemokine ligand 28
serine carboxypeptidase 1
family with sequence similarity 177 member A1
NOP14 nucleolar protein
sestrin 2
late endosomal/lysosomal adaptor, MAPK and MTOR activator 1
ubiquitin recognition factor in ER associated degradation 1
ATP binding cassette subfamily A member 10
translocase of inner mitochondrial membrane 50
adducin 3
FERM, ARH/RhoGEF and pleckstrin domain protein 2
nuclear receptor binding SET domain protein 1
NEDD4 E3 ubiquitin protein ligase
zinc finger ZZ-type containing 3
abhydrolase domain containing 12B
Ras suppressor protein 1
dynein axonemal heavy chain 1
3-hydroxyisobutyrate dehydrogenase
somatostatin receptor 3
helicase with zinc finger
SET domain containing 3, actin histidine methyltransferase
NIN1 (RPN12) binding protein 1 homolog
peptidylglycine alpha-amidating monooxygenase
engulfment and cell motility 2

cutC copper transporter
zinc finger protein 785
immunoglobulin superfamily member 8
FTO alpha-ketoglutarate dependent dioxygenase
SID1 transmembrane family member 1
DnaJ heat shock protein family (Hsp40) member C3
galectin 3 binding protein
intraflagellar transport 22
CDK5 regulatory subunit associated protein 2
YdjC chitooligosaccharide deacetylase homolog
methyltransferase like 8
macroH2A.1 histone
isopentenyl-diphosphate delta isomerase 1
S100 calcium binding protein A6
solute carrier family 51 subunit alpha
mitochondrial transcription termination factor 4
rabphilin 3A like (without C2 domains)
tRNA aspartic acid methyltransferase 1
leukocyte immunoglobulin like receptor A6
vav guanine nucleotide exchange factor 3
arylsulfatase G
pygopus family PHD finger 2
S100 calcium binding protein A9
ubiquitin conjugating enzyme E2 D4 (putative)
ubiquitin specific peptidase 48
methylcrotonoyl-CoA carboxylase 2
sorcini
CD83 molecule
hippocalcin like 1
poly(ADP-ribose) polymerase family member 16
zinc finger protein 331
myocyte enhancer factor 2C
novel protein
glutamate rich WD repeat containing 1
fatty acyl-CoA reductase 1
Yip1 domain family member 1
S100 calcium binding protein P
RAR related orphan receptor A
major facilitator superfamily domain containing 4B
UDP-glucose pyrophosphorylase 2
TGFB induced factor homeobox 1
chromodomain helicase DNA binding protein 8
sulfotransferase family 1A member 1
TARBP2 subunit of RISC loading complex
peroxisomal biogenesis factor 3
RAB31, member RAS oncogene family

protein arginine methyltransferase 6
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4
S100 calcium binding protein A12
netrin G2
rhopilin associated tail protein 1 like
CWF19 like cell cycle control factor 1
RALBP1 associated Eps domain containing 1
DEF6 guanine nucleotide exchange factor
cell migration inducing hyaluronidase 2
selenoprotein T
lymphocyte cytosolic protein 1
fibronectin type III domain containing 3A
WD repeat domain 86
mannosidase alpha class 2A member 2
transmembrane protein 260
vascular endothelial growth factor A
UHRF1 binding protein 1 like
iron-sulfur cluster assembly factor IBA57
F-box and leucine rich repeat protein 13
actin related protein 2/3 complex subunit 2
peroxisomal membrane protein 4
RNA binding motif single stranded interacting protein 1
tryptophanyl tRNA synthetase 2, mitochondrial
ADP ribosylation factor guanine nucleotide exchange factor 1
chromosome 10 open reading frame 143
perilipin 4
G protein-coupled receptor 171
pleckstrin homology domain containing B1
Rho associated coiled-coil containing protein kinase 1
alkaline ceramidase 2
oncostatin M
itchy E3 ubiquitin protein ligase
cytochrome P450 family 4 subfamily F member 3
pre-mRNA processing factor 18
enoyl-CoA hydratase domain containing 2
tetraspanin 14
S100 calcium binding protein A4
TIR domain containing adaptor protein
N-deacetylase and N-sulfotransferase 1
G elongation factor mitochondrial 1
transmembrane and ubiquitin like domain containing 2
GTP binding protein 1
target of EGR1, exonuclease
replication termination factor 2
mitochondrial ribosomal protein S30
tweety family member 2

transmembrane protein 268
intermediate filament family orphan 2
ubiquitin specific peptidase 5
aminopeptidase puromycin sensitive
MAPK activated protein kinase 2
caspase recruitment domain family member 19
solute carrier family 25 member 30
zinc finger protein 432
tropomyosin 1
metastasis associated 1
TLE family member 4, transcriptional corepressor
ADP ribosylation factor like GTPase 6 interacting protein 6
ring finger protein 212
cullin 1
thymidine kinase 2
proteasome assembly chaperone 2
TPD52 like 2
pseudouridine synthase 7
branched chain amino acid transaminase 1
heat shock protein family A (Hsp70) member 1B
fragile histidine triad diadenosine triphosphatase
transmembrane 6 superfamily member 1
G protein-coupled receptor 107
solute carrier organic anion transporter family member 3A1
EPH receptor A4
5-hydroxymethylcytosine binding, ES cell specific
partner and localizer of BRCA2
CD247 molecule
zinc finger protein 329
MKS transition zone complex subunit 1
myosin phosphatase Rho interacting protein
UDP-glucose ceramide glucosyltransferase
F-box protein 34
kinesin family member 1C
hydroxysteroid 17-beta dehydrogenase 4
poly(A) binding protein interacting protein 2B
sorbin and SH3 domain containing 3
Src like adaptor
SH2 domain containing 3A
leucine rich repeat and sterile alpha motif containing 1
malic enzyme 2
dishevelled segment polarity protein 3
oncomodulin
zinc finger and BTB domain containing 5
phospholipase C gamma 2
transcription factor AP-4

adaptor related protein complex 3 subunit sigma 2
serine/threonine kinase 16
N-acetyltransferase domain containing 1
ER degradation enhancing alpha-mannosidase like protein 2
DnaJ heat shock protein family (Hsp40) member A3
nuclear receptor corepressor 1
IQ motif and Sec7 domain ArfGEF 1
RTF1 homolog, Paf1/RNA polymerase II complex component
2-oxoglutarate and iron dependent oxygenase domain containing 1
Ras like without CAAX 1
ankyrin repeat and sterile alpha motif domain containing 1A
sigma non-opioid intracellular receptor 1
KH and NYN domain containing
WD repeat domain 26
complement C1s
enhancer of mRNA decapping 3
phosphodiesterase 4B
myosin light chain 12A
X-ray repair cross complementing 4
cryptochrome circadian regulator 1
hypoxia inducible factor 1 subunit alpha
family with sequence similarity 169 member A
RUS family member 1
elongator acetyltransferase complex subunit 2
valyl-tRNA synthetase 1
MYB binding protein 1a
ribosomal RNA processing 1B
dynein axonemal intermediate chain 2
family with sequence similarity 107 member B
golgi membrane protein 2
ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 1
eukaryotic elongation factor 2 lysine methyltransferase
epithelial stromal interaction 1
transmembrane protein 11
SUMO specific peptidase 2
MOK protein kinase
eukaryotic translation initiation factor 2B subunit gamma
zinc finger protein 880
coiled-coil domain containing 24
myeloid leukemia factor 1
cysteinyl-tRNA synthetase 2, mitochondrial
ZXD family zinc finger C
chromosome 8 open reading frame 33
mitochondrial ribosomal protein S18B
MIA SH3 domain ER export factor 2
apoptotic peptidase activating factor 1

protein activator of interferon induced protein kinase EIF2AK2
WAPL cohesin release factor
TSNAX-DISC1 readthrough (NMD candidate)
CDK2 associated cullin domain 1
regulator of G protein signaling 3
MAF bZIP transcription factor
cadherin related family member 3
kelch like family member 8
activin A receptor type 1
polypeptide N-acetylgalactosaminyltransferase 1
DDB1 and CUL4 associated factor 17
splA/ryanodine receptor domain and SOCS box containing 1
NOP2/Sun RNA methyltransferase 3
methionine sulfoxide reductase B3
DNA topoisomerase III alpha
TNF receptor associated protein 1
UBX domain protein 2B
growth arrest specific 8
ZFP2 zinc finger protein
CDC like kinase 3
Ran GTPase activating protein 1
ankyrin repeat domain 55
solute carrier family 11 member 1
acyl-CoA oxidase 1
bridging integrator 1
metaxin 1
ADP ribosylation factor like GTPase 8B
TNF receptor superfamily member 13C
enoyl-CoA hydratase domain containing 3
zinc ribbon domain containing 1
tRNA methyltransferase 2 homolog A
TAO kinase 1
glutamyl-tRNA synthetase 2, mitochondrial
FGR proto-oncogene, Src family tyrosine kinase
baculoviral IAP repeat containing 3
G protein-coupled receptor 183
lysine demethylase 7A
THAP domain containing 7
arrestin domain containing 2
ORMDL sphingolipid biosynthesis regulator 2
XK related 6
secretory carrier membrane protein 3
KRAS proto-oncogene, GTPase
sterol O-acyltransferase 1
tetratricopeptide repeat domain 3
basic leucine zipper and W2 domains 2

aldehyde dehydrogenase 1 family member A1
guanylate binding protein 4
capping protein regulator and myosin 1 linker 1
syndecan 3
C-type lectin domain family 4 member E
vinculin
cactin, spliceosome C complex subunit
CD63 molecule
ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1
phosphatidylglycerophosphate synthase 1
decaprenyl diphosphate synthase subunit 1
BRCA1 associated ATM activator 1
MyoD family inhibitor domain containing
ZPR1 zinc finger
CD3e molecule
ubiquitin specific peptidase 10
transmembrane protein 223
BBX high mobility group box domain containing
inner mitochondrial membrane peptidase subunit 2
terminal nucleotidyltransferase 2
outer dense fiber of sperm tails 3B
tropomodulin 3
zinc finger protein 2
cell division cycle 25B
LIM domains containing 1
CD27 molecule
lipin 1
nuclear factor of activated T cells 1
acid phosphatase 6, lysophosphatidic
selenoprotein O
CD177 molecule
cannabinoid receptor 2
solute carrier family 38 member 11
coronin 2A
transcriptional adaptor 2B
schlafen family member 5
WD repeat domain 1
fat storage inducing transmembrane protein 2
exosome component 2
protein kinase C eta
ER lipid raft associated 1
TGF-beta activated kinase 1 (MAP3K7) binding protein 2
aldo-keto reductase family 1 member A1
zinc finger protein 706
cyclin D1
beta-carotene oxygenase 2

anaphase promoting complex subunit 15
TNF receptor associated factor 3
syntaxin 10
reticulon 4
activating signal cointegrator 1 complex subunit 3
folate receptor gamma
phospholipase C beta 2
thioredoxin domain containing 16
DIMT1 rRNA methyltransferase and ribosome maturation factor
tumor protein p53
DNA damage induced apoptosis suppressor
zinc finger DHHC-type palmitoyltransferase 8
transcription factor 7
CBFA2/RUNX1 partner transcriptional co-repressor 2
interleukin 21 receptor
MCF.2 cell line derived transforming sequence-like 2
programmed cell death 7
novel protein
transmembrane protein 237
ATPase copper transporting beta
thioredoxin
acyl-CoA thioesterase 2
T cell immunoreceptor with Ig and ITIM domains
PR/SET domain 5
integrin subunit alpha 4
angiotensin I converting enzyme
phosphoribosylformylglycinamide synthase
TBC1 domain family member 14
LPS responsive beige-like anchor protein
major histocompatibility complex, class II, DO beta
maltase-glucoamylase 2 (putative)
MALT1 paracaspase
amyloid beta precursor protein binding family B member 1
SDA1 domain containing 1
transmembrane protein 156
cytosolic thiouridylase subunit 2
transmembrane protein 243
agmatinase
nucleolar protein 3
wolframin ER transmembrane glycoprotein
glutaminyl-tRNA amidotransferase subunit QRSL1
germinal center associated signaling and motility
tRNA methyltransferase 61B
cAMP-dependent protein kinase inhibitor alpha
LRAT domain containing 2
cytoplasmic polyadenylation element binding protein 4

cullin 3
zinc finger protein 571
lon peptidase 2, peroxisomal
ATPase phospholipid transporting 10A (putative)
RGP1 homolog, RAB6A GEF complex partner 1
PGAM family member 5, mitochondrial serine/threonine protein phosphatase
synapsin II
kinesin family binding protein
Fc fragment of IgG receptor IIb
solute carrier family 30 member 5
N-sulfoglucosamine sulfohydrolase
N-acetyltransferase 9 (putative)
latent transforming growth factor beta binding protein 2
ATP synthase membrane subunit c locus 1
torsin 1A interacting protein 2
TERF1 interacting nuclear factor 2
hypoxia inducible factor 1 subunit alpha inhibitor
septin 1
transmembrane protein 131
IQ motif containing GTPase activating protein 1
ribosomal protein S6 kinase A1
SUMO1 activating enzyme subunit 1
C2 calcium dependent domain containing 2
sphingomyelin phosphodiesterase 4
homer scaffold protein 3
carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase
succinate-CoA ligase GDP/ADP-forming subunit alpha
thyroid hormone receptor interactor 12
acidic nuclear phosphoprotein 32 family member A
adaptor related protein complex 2 subunit beta 1
sterile alpha and TIR motif containing 1
novel transcript
regulator of G protein signaling 19
NADH:ubiquinone oxidoreductase subunit A12
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8
solute carrier family 22 member 15
glycerate kinase
nucleus accumbens associated 1
transmembrane protein 183A
bromo adjacent homology domain containing 1
acyl-CoA synthetase long chain family member 3
HAUS augmin like complex subunit 5
RAB1A, member RAS oncogene family
dysferlin
chromodomain helicase DNA binding protein 7
beta-1,4-galactosyltransferase 5

N-terminal glutamine amidase 1
phosphotyrosine interaction domain containing 1
plexin C1
cytochrome b-245 chaperone 1
E2F transcription factor 5
spermatogenesis associated 1
protein kinase C alpha
ATPase family AAA domain containing 3A
F-box protein 21
eukaryotic translation initiation factor 4H
phenylalanyl-tRNA synthetase 2, mitochondrial
ATP synthase membrane subunit c locus 2
sorting nexin 27
major facilitator superfamily domain containing 1
CD3e molecule associated protein
ALG8 alpha-1,3-glucosyltransferase
COPI coat complex subunit alpha
tripartite motif containing 47
leucine rich repeats and immunoglobulin like domains 1
phosphodiesterase 4D interacting protein
anoctamin 9
succinate dehydrogenase complex assembly factor 3
shortage in chiasmata 1
RNA polymerase mitochondrial
zinc finger ZZ-type and EF-hand domain containing 1
SNF8 subunit of ESCRT-II
transmembrane protein 165
polypyrimidine tract binding protein 3
IMP U3 small nucleolar ribonucleoprotein 3
ring finger protein 8
peptidase M20 domain containing 1
dynein cytoplasmic 1 light intermediate chain 2
chondrolectin
solute carrier family 16 member 3
Rho guanine nucleotide exchange factor 3
ceramide transporter 1
diphthamide biosynthesis 1
dipeptidyl peptidase 8
nuclear cap binding protein subunit 2
phosphatidylinositol glycan anchor biosynthesis class L
nuclear factor, interleukin 3 regulated
GC-rich promoter binding protein 1 like 1
LDL receptor related protein 6
acyl-CoA synthetase long chain family member 1
programmed cell death 2 like
sulfotransferase family 1B member 1

RB transcriptional corepressor like 1
proline rich 3
protein tyrosine phosphatase non-receptor type 12
oxysterol binding protein like 2
histone deacetylase 4
interleukin 7 receptor
nucleolar protein with MIF4G domain 1
C-C motif chemokine receptor 8
heterogeneous nuclear ribonucleoprotein R
checkpoint with forkhead and ring finger domains
zinc finger protein 407
fasciculation and elongation protein zeta 2
methyltransferase like 9
CD80 molecule
deltex E3 ubiquitin ligase 1
trans-golgi network protein 2
mastermind like transcriptional coactivator 2
jade family PHD finger 2
inositol polyphosphate-5-phosphatase E
AVL9 cell migration associated
fermitin family member 3
regulator of microtubule dynamics 2
kinase D interacting substrate 220
galectin 9C
fibrillin 2
TBK1 binding protein 1
uridine monophosphate synthetase
zinc finger HIT-type containing 6
required for excision 1-B domain containing
chromosome 3 open reading frame 38
NLR family apoptosis inhibitory protein
KIAA2026
hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7
Suv3 like RNA helicase
sprouty related EVH1 domain containing 3
epidermal growth factor receptor pathway substrate 15
methyltransferase like 21A
SPRY domain containing 7
MYST/Esa1 associated factor 6
E2F transcription factor 3
transcription factor 4
dishevelled segment polarity protein 1
Kruppel like factor 5
RAS like proto-oncogene A
oxidative stress responsive kinase 1
C-type lectin domain family 12 member B

prolyl 4-hydroxylase subunit alpha 2
interleukin 10 receptor subunit beta
tubulin alpha 4a
chaperonin containing TCP1 subunit 4
programmed cell death 11
RAS like proto-oncogene B
ribosomal protein S19
matrix remodeling associated 7
EPH receptor B4
coiled-coil domain containing 86
transmembrane protein 170B
integrin subunit beta 2
zinc finger and BTB domain containing 7B
3-ketodihydrosphingosine reductase
tubulin gamma complex associated protein 4
coiled-coil domain containing 61
methyltransferase like 1
methyltransferase like 15
BTB domain and CNC homolog 2
protein tyrosine phosphatase non-receptor type 22
lin-7 homolog A, crumbs cell polarity complex component
F-box protein 10
proline, glutamate and leucine rich protein 1
ubiquitin specific peptidase 46
PDS5 cohesin associated factor A
FKBP prolyl isomerase 5
acyl-CoA synthetase long chain family member 5
F-box and leucine rich repeat protein 5
unc-51 like autophagy activating kinase 1
F-box protein 11
solute carrier organic anion transporter family member 4A1
zinc finger protein 829
syntaxin 5
cytochrome P450 family 4 subfamily F member 12
potassium voltage-gated channel subfamily E regulatory subunit 1B
EH domain containing 1
ZFP30 zinc finger protein
zinc finger protein 500
GEM interacting protein
ubiquitin 1
5'-nucleotidase, cytosolic II
BAR/IMD domain containing adaptor protein 2
SMAD family member 2
haptoglobin
zinc finger protein 839
membrane associated ring-CH-type finger 9

gephyrin
DEAH-box helicase 37
transforming growth factor alpha
family with sequence similarity 171 member A1
mitochondrial calcium uniporter
jumonji domain containing 4
HEN methyltransferase 1
teashirt zinc finger homeobox 2
SET nuclear proto-oncogene
UV radiation resistance associated
cyclin J like
fibulin 5
zinc finger protein 786
interferon alpha and beta receptor subunit 1
ubiquitin specific peptidase 7
actin binding LIM protein family member 2
myosin IXA
CD2 molecule
translocase of outer mitochondrial membrane 40 like
WD repeat domain 6
DENN domain containing 4A
protein arginine methyltransferase 1
DNA polymerase delta 2, accessory subunit
proteasome 26S subunit, non-ATPase 13
peptidylprolyl isomerase D
cysteine rich protein 3
TUB like protein 4
unc-13 homolog D
TATA-box binding protein associated factor 4b
phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase
caspase recruitment domain family member 11
GTPase activating protein and VPS9 domains 1
mercaptopyruvate sulfurtransferase
matrix metalloproteinase 25
zinc finger protein 131
semaphorin 3G
ATPase plasma membrane Ca²⁺ transporting 1
DDB1 and CUL4 associated factor 4
stromal interaction molecule 1
SLAM family member 8
fumarylacetoacetate hydrolase
cysteine rich secretory protein LCCL domain containing 2
proline rich 22
chromosome 11 open reading frame 21
GDNF family receptor alpha 2
component of oligomeric golgi complex 5

sorting nexin 9
SUMO peptidase family member, NEDD8 specific
phosducin like 3
tetraspanin 16
STEAP family member 1B
B cell linker
POU class 2 homeobox associating factor 1
pleckstrin homology and RhoGEF domain containing G7
phospholipid phosphatase 5
POU class 2 homeobox associating factor 1
family with sequence similarity 151 member B
B-Raf proto-oncogene, serine/threonine kinase
protein disulfide isomerase family A member 4
poly(ADP-ribose) polymerase 1
peptidylprolyl isomerase B
marginal zone B and B1 cell specific protein
ribophorin II
nucleolar and coiled-body phosphoprotein 1
integral membrane protein 2C
protein disulfide isomerase family A member 6
mitochondrial calcium uniporter
G3BP stress granule assembly factor 1
dehydrogenase/reductase 7B
ribosome biogenesis regulator 1 homolog
ring finger protein 207
signal peptide peptidase like 2A
hypoxia up-regulated 1
derlin 3
RNA pseudouridine synthase domain containing 2
sarcolemma associated protein
CD79a molecule
coiled-coil domain containing 86
thioredoxin 2
ubiquitin protein ligase E3 component n-recognin 7
cell cycle progression 1
chondroitin polymerizing factor
coiled-coil domain containing 126
stromal cell derived factor 2 like 1
signal recognition particle 68
CCZ1 homolog, vacuolar protein trafficking and biogenesis associated
SEL1L family member 3
monooxygenase DBH like 1
X-box binding protein 1
Aly/REF export factor
kinase non-catalytic C-lobe domain containing 1
basic helix-loop-helix family member e41

immunoglobulin heavy variable 4-38-2-like
HORMA domain containing 1
mitochondrial calcium uptake 1
family with sequence similarity 13 member B
mitochondrial ribosomal protein S2
basic helix-loop-helix family member a15
F-box protein 11
coiled-coil domain containing 163
solute carrier family 16 member 4
TNF receptor superfamily member 17
transmembrane protein 109
transcription factor 7 like 2
mitochondrial ribosomal protein L49
SRP receptor subunit beta
interferon regulatory factor 4
NODAL modulator 1
NIN1 (RPN12) binding protein 1 homolog
secretory carrier membrane protein 5
ATM interactor
GDP-mannose pyrophosphorylase B
importin 5
nuclear factor of activated T cells 5
histone H3 associated protein kinase
valyl-tRNA synthetase 1
twinkle mtDNA helicase
leucine rich repeat protein 1
major histocompatibility complex, class II, DO alpha
joining chain of multimeric IgA and IgM
reticulon 2
major facilitator superfamily domain containing 11
BTB domain containing 7
coiled-coil domain containing 121
B cell linker
chromosome 17 open reading frame 97
RNA polymerase II subunit D
karyopherin subunit alpha 6
BRD3 opposite strand
dolichyl-diphosphooligosaccharide--protein glycosyltransferase non-catalytic subunit
RAN guanine nucleotide release factor
sigma non-opioid intracellular receptor 1
STT3 oligosaccharyltransferase complex catalytic subunit A
phosphatidylethanolamine binding protein 1
DEAD-box helicase 24
ATP synthase membrane subunit c locus 2
acyl-CoA thioesterase 2
glyoxalase I

regulatory factor X3
cleavage stimulation factor subunit 1
A-kinase anchoring protein 10
caveolin 1
interferon regulatory factor 2 binding protein 1
RNA polymerase I subunit E
serine hydroxymethyltransferase 2
cut like homeobox 1
prepronociceptin
small nuclear ribonucleoprotein 13
5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase
WD repeat domain 5
transcription factor 4
G protein-coupled receptor class C group 5 member D
translocase of outer mitochondrial membrane 40
glycine decarboxylase
coiled-coil domain containing 57
prothymosin alpha
hook microtubule tethering protein 3
PGAM family member 5, mitochondrial serine/threonine protein phosphatase
ring finger protein 38
spermidine synthase
mitochondrial ribosomal protein L10
cysteine rich with EGF like domains 2
translocase of outer mitochondrial membrane 34
TBC1 domain family member 8
eukaryotic translation initiation factor 4A3
ribosomal protein L7 like 1
apurinic/apyrimidinic endodeoxyribonuclease 1
translocase of inner mitochondrial membrane 9
malectin
structure specific recognition protein 1
endothelial differentiation related factor 1
actin related protein 2/3 complex subunit 3
armadillo repeat containing 2
signal sequence receptor subunit 3
phenylalanyl-tRNA synthetase subunit beta
POP4 homolog, ribonuclease P/MRP subunit
nucleolin
nemo like kinase
DnaJ heat shock protein family (Hsp40) member C30
poly(A) binding protein cytoplasmic 4
immunoglobulin lambda like polypeptide 5
prohibitin 2
ribosomal protein lateral stalk subunit P0
regulatory factor X5

Mix paired-like homeobox
proteasome 26S subunit, ATPase 3
chromobox 8
thioredoxin domain containing 11
adenylate kinase 9
HECT and RLD domain containing E3 ubiquitin protein ligase 4
dihydrolipoamide S-acetyltransferase
torsin family 3 member A
cytochrome P450 family 26 subfamily B member 1
complement C3
tripartite motif containing 47
AAR2 splicing factor
eukaryotic translation initiation factor 3 subunit D
lysine methyltransferase 5B

logFC	P.Value	adj.P.Val	Comparison
-0.7679213084	5.4033904E-25	8.8972226E-21	R_WEEK4vsWEEK0
0.38243645575	1.7619112E-15	9.6705434E-12	R_WEEK4vsWEEK0
0.43695998297	2.7274146E-15	1.0118398E-11	R_WEEK4vsWEEK0
0.44531340797	7.2462426E-15	1.9886105E-11	R_WEEK4vsWEEK0
-1.49765274919	1.3499362E-14	3.1754357E-11	R_WEEK4vsWEEK0
-0.37448635243	3.502514E-14	7.2090495E-11	R_WEEK4vsWEEK0
0.49996332534	4.0550744E-14	7.4189839E-11	R_WEEK4vsWEEK0
-1.00884913056	2.1681433E-13	3.5700648E-10	R_WEEK4vsWEEK0
0.31000798046	4.9344787E-13	7.386466E-10	R_WEEK4vsWEEK0
0.39675283238	7.6627381E-13	1.0514554E-09	R_WEEK4vsWEEK0
0.38152090674	5.8410517E-12	6.8699112E-09	R_WEEK4vsWEEK0
0.40403425186	1.3556345E-11	1.4881251E-08	R_WEEK4vsWEEK0
0.31570768379	1.6179085E-11	1.66503E-08	R_WEEK4vsWEEK0
0.31547337044	1.8936478E-11	1.834165E-08	R_WEEK4vsWEEK0
0.25427402361	2.3325454E-11	2.1337607E-08	R_WEEK4vsWEEK0
0.37593833498	3.4426382E-11	2.895959E-08	R_WEEK4vsWEEK0
0.45981426483	3.5175015E-11	2.895959E-08	R_WEEK4vsWEEK0
-0.27049501343	3.7229204E-11	2.9191241E-08	R_WEEK4vsWEEK0
0.3239090975	6.3437599E-11	4.7480159E-08	R_WEEK4vsWEEK0
0.32099513026	1.0841764E-10	7.4383533E-08	R_WEEK4vsWEEK0
0.31905962562	1.7382504E-10	1.1448813E-07	R_WEEK4vsWEEK0
-0.41472637845	1.8328395E-10	1.1607514E-07	R_WEEK4vsWEEK0
0.32402526537	2.2831006E-10	1.3923532E-07	R_WEEK4vsWEEK0
0.41082059979	2.6284575E-10	1.5457208E-07	R_WEEK4vsWEEK0
-0.34725026796	2.8251087E-10	1.6040772E-07	R_WEEK4vsWEEK0
0.25075257204	3.1727454E-10	1.7414142E-07	R_WEEK4vsWEEK0
0.41575925538	4.1770545E-10	2.1493556E-07	R_WEEK4vsWEEK0
-0.44003194752	4.6863319E-10	2.3185084E-07	R_WEEK4vsWEEK0
0.29397408784	4.7873974E-10	2.3185084E-07	R_WEEK4vsWEEK0
-0.62829877457	8.1938134E-10	3.7477592E-07	R_WEEK4vsWEEK0
0.41534380992	9.5243632E-10	4.127057E-07	R_WEEK4vsWEEK0
0.31058373284	1.7393533E-09	7.3436388E-07	R_WEEK4vsWEEK0
-0.31251522207	2.074903E-09	8.5387377E-07	R_WEEK4vsWEEK0
0.3323562987	2.126128E-09	8.5387377E-07	R_WEEK4vsWEEK0
0.30640529968	2.3465848E-09	9.0547574E-07	R_WEEK4vsWEEK0
-0.30555096191	2.4858669E-09	9.0547574E-07	R_WEEK4vsWEEK0
0.34575663292	2.5286849E-09	9.0547574E-07	R_WEEK4vsWEEK0
0.48492948163	2.529569E-09	9.0547574E-07	R_WEEK4vsWEEK0
0.29827487426	3.5722735E-09	1.2254387E-06	R_WEEK4vsWEEK0
0.35902597905	3.8915016E-09	1.3077034E-06	R_WEEK4vsWEEK0
0.22481420527	5.1199328E-09	1.627988E-06	R_WEEK4vsWEEK0
-0.46602778535	5.2400926E-09	1.627988E-06	R_WEEK4vsWEEK0
0.19382681201	6.0576081E-09	1.8471217E-06	R_WEEK4vsWEEK0
0.19114335382	7.4195926E-09	2.2212911E-06	R_WEEK4vsWEEK0

0.30237486812 1.1106996E-08 3.2085578E-06 R_WEEK4vsWEEK0
0.27124599428 1.1445955E-08 3.2494671E-06 R_WEEK4vsWEEK0
0.20726688882 1.2479076E-08 3.4827198E-06 R_WEEK4vsWEEK0
0.40458606651 1.4085962E-08 3.8163467E-06 R_WEEK4vsWEEK0
0.36228060844 1.4138051E-08 3.8163467E-06 R_WEEK4vsWEEK0
0.4240614503 1.5176453E-08 4.0305723E-06 R_WEEK4vsWEEK0
0.32404666419 1.6663811E-08 4.3553382E-06 R_WEEK4vsWEEK0
-0.56648436626 1.8197697E-08 4.6819263E-06 R_WEEK4vsWEEK0
0.32215540098 2.1751687E-08 5.3774795E-06 R_WEEK4vsWEEK0
0.40878167258 2.1880914E-08 5.3774795E-06 R_WEEK4vsWEEK0
-0.17543075926 2.2540234E-08 5.4580513E-06 R_WEEK4vsWEEK0
-0.38892684885 2.6442345E-08 6.3101398E-06 R_WEEK4vsWEEK0
0.45247115577 2.9799748E-08 6.8150369E-06 R_WEEK4vsWEEK0
-0.53491809881 3.0345557E-08 6.8447937E-06 R_WEEK4vsWEEK0
0.16230446226 3.4332662E-08 7.6394813E-06 R_WEEK4vsWEEK0
-0.44832829503 3.8854888E-08 8.5304611E-06 R_WEEK4vsWEEK0
0.43759839446 4.13979E-08 8.969182E-06 R_WEEK4vsWEEK0
0.26580441966 5.5000664E-08 1.1463809E-05 R_WEEK4vsWEEK0
0.17025731954 6.0626992E-08 1.2478551E-05 R_WEEK4vsWEEK0
0.16068523223 6.6312139E-08 1.3480194E-05 R_WEEK4vsWEEK0
-1.52529185369 7.1131386E-08 1.4283529E-05 R_WEEK4vsWEEK0
0.34232261906 7.7828473E-08 1.5440044E-05 R_WEEK4vsWEEK0
-0.18834807589 8.934904E-08 1.7359172E-05 R_WEEK4vsWEEK0
-0.56504160623 9.0893623E-08 1.7359172E-05 R_WEEK4vsWEEK0
-0.49682236996 9.154709E-08 1.7359172E-05 R_WEEK4vsWEEK0
0.26483371276 9.181077E-08 1.7359172E-05 R_WEEK4vsWEEK0
-0.29225251758 9.2773421E-08 1.7359172E-05 R_WEEK4vsWEEK0
-0.28813828631 1.0745807E-07 1.9660051E-05 R_WEEK4vsWEEK0
-0.8588587537 1.1504859E-07 2.0591197E-05 R_WEEK4vsWEEK0
0.48898305471 1.3946148E-07 2.4172344E-05 R_WEEK4vsWEEK0
0.60042199069 1.475037E-07 2.5299958E-05 R_WEEK4vsWEEK0
-0.5801000806 1.5240888E-07 2.5871801E-05 R_WEEK4vsWEEK0
-0.61407064439 1.6187415E-07 2.6923432E-05 R_WEEK4vsWEEK0
-0.36215554723 1.6926036E-07 2.7594465E-05 R_WEEK4vsWEEK0
-0.30035584312 2.4971274E-07 3.9920096E-05 R_WEEK4vsWEEK0
-0.34160180239 2.6441625E-07 4.1864211E-05 R_WEEK4vsWEEK0
-0.19519432481 2.725859E-07 4.2746662E-05 R_WEEK4vsWEEK0
0.2660008368 2.8337654E-07 4.4019605E-05 R_WEEK4vsWEEK0
-0.33556001995 2.9118558E-07 4.4809922E-05 R_WEEK4vsWEEK0
0.69277951591 2.9728892E-07 4.5325549E-05 R_WEEK4vsWEEK0
-0.27016294548 3.0259617E-07 4.5711455E-05 R_WEEK4vsWEEK0
-0.1377521165 3.0584566E-07 4.5782316E-05 R_WEEK4vsWEEK0
0.17336922945 3.1869545E-07 4.7276029E-05 R_WEEK4vsWEEK0
0.25098104273 4.340192E-07 6.2023926E-05 R_WEEK4vsWEEK0
0.32156703554 4.3694737E-07 6.2023926E-05 R_WEEK4vsWEEK0
0.5019874652 4.615423E-07 6.4955175E-05 R_WEEK4vsWEEK0

-0.617606539914.7175435E-07 6.5829721E-05 R_WEEK4vsWEEK0
0.27212589998 5.0049403E-07 6.8676123E-05 R_WEEK4vsWEEK0
-0.225738193135.1401042E-07 6.9374553E-05 R_WEEK4vsWEEK0
0.24356661336 5.3763316E-07 7.1972908E-05 R_WEEK4vsWEEK0
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Table S18: Differential gene expression in UC_rare_CFB_enrichment

ID	Description	GeneRatio
hsa04662	B cell receptor signaling pathway	38/1348
hsa04640	Hematopoietic cell lineage	40/1348
hsa05145	Toxoplasmosis	39/1348
hsa05131	Shigellosis	69/1348
hsa04380	Osteoclast differentiation	42/1348
hsa05140	Leishmaniasis	29/1348
hsa04145	Phagosome	47/1348
hsa05152	Tuberculosis	53/1348
hsa04672	Intestinal immune network for IgA production	21/1348
hsa05166	Human T-cell leukemia virus 1 infection	61/1348
hsa04010	MAPK signaling pathway	76/1348
hsa04062	Chemokine signaling pathway	54/1348
hsa05169	Epstein-Barr virus infection	56/1348
hsa04064	NF-kappa B signaling pathway	34/1348
hsa04659	Th17 cell differentiation	34/1348
hsa04613	Neutrophil extracellular trap formation	52/1348
hsa05221	Acute myeloid leukemia	24/1348
hsa04810	Regulation of actin cytoskeleton	60/1348
hsa05310	Asthma	14/1348
hsa05144	Malaria	19/1348
hsa04666	Fc gamma R-mediated phagocytosis	30/1348
hsa05150	Staphylococcus aureus infection	29/1348
hsa04218	Cellular senescence	42/1348
hsa05132	Salmonella infection	61/1348
hsa04658	Th1 and Th2 cell differentiation	28/1348
hsa04611	Platelet activation	35/1348
hsa04015	Rap1 signaling pathway	53/1348
hsa04144	Endocytosis	61/1348
hsa05223	Non-small cell lung cancer	23/1348
hsa04140	Autophagy - animal	38/1348
hsa05416	Viral myocarditis	20/1348
hsa05135	Yersinia infection	37/1348
hsa04621	NOD-like receptor signaling pathway	47/1348
hsa04071	Sphingolipid signaling pathway	33/1348
hsa05219	Bladder cancer	15/1348
hsa04210	Apoptosis	36/1348
hsa04625	C-type lectin receptor signaling pathway	29/1348
hsa04664	Fc epsilon RI signaling pathway	21/1348
hsa05215	Prostate cancer	27/1348
hsa04512	ECM-receptor interaction	25/1348
hsa04540	Gap junction	25/1348
hsa05146	Amoebiasis	28/1348
hsa05134	Legionellosis	18/1348
hsa00533	Glycosaminoglycan biosynthesis - keratan sulfate	7/1348
hsa05202	Transcriptional misregulation in cancer	46/1348
hsa04722	Neurotrophin signaling pathway	31/1348

hsa04930	Type II diabetes mellitus	15/1348
hsa01523	Antifolate resistance	11/1348
hsa04914	Progesterone-mediated oocyte maturation	27/1348
hsa04110	Cell cycle	32/1348
hsa04142	Lysosome	33/1348
hsa01522	Endocrine resistance	26/1348
hsa05230	Central carbon metabolism in cancer	20/1348
hsa05214	Glioma	21/1348
hsa04657	IL-17 signaling pathway	25/1348
hsa05203	Viral carcinogenesis	47/1348
hsa04620	Toll-like receptor signaling pathway	27/1348
hsa04668	TNF signaling pathway	29/1348
hsa05205	Proteoglycans in cancer	47/1348
hsa05220	Chronic myeloid leukemia	21/1348
hsa04151	PI3K-Akt signaling pathway	75/1348
hsa04137	Mitophagy - animal	20/1348
hsa05100	Bacterial invasion of epithelial cells	21/1348
hsa05164	Influenza A	40/1348
hsa04068	FoxO signaling pathway	32/1348
hsa05222	Small cell lung cancer	24/1348
hsa04510	Focal adhesion	46/1348
hsa05216	Thyroid cancer	12/1348
hsa05165	Human papillomavirus infection	70/1348
hsa05323	Rheumatoid arthritis	24/1348
hsa05332	Graft-versus-host disease	13/1348
hsa05321	Inflammatory bowel disease	18/1348
hsa05330	Allograft rejection	12/1348
hsa04670	Leukocyte transendothelial migration	28/1348
hsa05170	Human immunodeficiency virus 1 infection	47/1348
hsa04940	Type I diabetes mellitus	13/1348
hsa05212	Pancreatic cancer	20/1348
hsa04114	Oocyte meiosis	31/1348
hsa05163	Human cytomegalovirus infection	49/1348
hsa04514	Cell adhesion molecules	36/1348
hsa04014	Ras signaling pathway	51/1348
hsa04910	Insulin signaling pathway	32/1348
hsa05213	Endometrial cancer	16/1348
hsa00520	Amino sugar and nucleotide sugar metabolism	14/1348
hsa04115	p53 signaling pathway	19/1348
hsa04612	Antigen processing and presentation	20/1348
hsa04658	Th1 and Th2 cell differentiation	40/1399
hsa04659	Th17 cell differentiation	44/1399
hsa03013	Nucleocytoplasmic transport	39/1399
hsa04666	Fc gamma R-mediated phagocytosis	36/1399
hsa04660	T cell receptor signaling pathway	37/1399
hsa05140	Leishmaniasis	30/1399
hsa05145	Toxoplasmosis	39/1399
hsa05135	Yersinia infection	45/1399

hsa04919	Thyroid hormone signaling pathway	41/1399
hsa04664	Fc epsilon RI signaling pathway	27/1399
hsa03010	Ribosome	51/1399
hsa05235	PD-L1 expression and PD-1 checkpoint pathway in cancer	32/1399
hsa04144	Endocytosis	69/1399
hsa05131	Shigellosis	68/1399
hsa05169	Epstein-Barr virus infection	58/1399
hsa05152	Tuberculosis	53/1399
hsa04611	Platelet activation	39/1399
hsa05171	Coronavirus disease - COVID-19	63/1399
hsa04218	Cellular senescence	46/1399
hsa05223	Non-small cell lung cancer	26/1399
hsa05166	Human T-cell leukemia virus 1 infection	60/1399
hsa04722	Neurotrophin signaling pathway	37/1399
hsa04380	Osteoclast differentiation	39/1399
hsa04640	Hematopoietic cell lineage	32/1399
hsa04720	Long-term potentiation	24/1399
hsa05132	Salmonella infection	65/1399
hsa04662	B cell receptor signaling pathway	28/1399
hsa04710	Circadian rhythm	15/1399
hsa00310	Lysine degradation	22/1399
hsa03250	Viral life cycle - HIV-1	22/1399
hsa04670	Leukocyte transendothelial migration	34/1399
hsa04062	Chemokine signaling pathway	51/1399
hsa04912	GnRH signaling pathway	29/1399
hsa04935	Growth hormone synthesis, secretion and action	35/1399
hsa05167	Kaposi sarcoma-associated herpesvirus infection	51/1399
hsa04672	Intestinal immune network for IgA production	18/1399
hsa05161	Hepatitis B	44/1399
hsa05340	Primary immunodeficiency	15/1399
hsa04068	FoxO signaling pathway	37/1399
hsa05213	Endometrial cancer	20/1399
hsa04330	Notch signaling pathway	20/1399
hsa04370	VEGF signaling pathway	20/1399
hsa05417	Lipid and atherosclerosis	54/1399
hsa00512	Mucin type O-glycan biosynthesis	14/1399
hsa05321	Inflammatory bowel disease	21/1399
hsa04140	Autophagy - animal	38/1399
hsa04960	Aldosterone-regulated sodium reabsorption	14/1399
hsa04961	Endocrine and other factor-regulated calcium reabsorption	18/1399
hsa05205	Proteoglycans in cancer	51/1399
hsa04928	Parathyroid hormone synthesis, secretion and action	30/1399
hsa05214	Glioma	23/1399
hsa05220	Chronic myeloid leukemia	23/1399
hsa05100	Bacterial invasion of epithelial cells	23/1399
hsa05210	Colorectal cancer	25/1399
hsa05211	Renal cell carcinoma	21/1399
hsa00500	Starch and sucrose metabolism	13/1399

hsa00770	Pantothenate and CoA biosynthesis	9/1399
hsa05134	Legionellosis	18/1399
hsa05225	Hepatocellular carcinoma	42/1399
hsa04137	Mitophagy - animal	21/1399
hsa04064	NF-kappa B signaling pathway	28/1399
hsa05330	Allograft rejection	13/1399
hsa04071	Sphingolipid signaling pathway	31/1399
hsa05162	Measles	35/1399
hsa05416	Viral myocarditis	18/1399
hsa04070	Phosphatidylinositol signaling system	26/1399
hsa00052	Galactose metabolism	11/1399
hsa05310	Asthma	11/1399
hsa01521	EGFR tyrosine kinase inhibitor resistance	22/1399
hsa01522	Endocrine resistance	26/1399
hsa04750	Inflammatory mediator regulation of TRP channels	26/1399
hsa05231	Choline metabolism in cancer	26/1399
hsa00970	Aminoacyl-tRNA biosynthesis	19/1399
hsa04120	Ubiquitin mediated proteolysis	35/1399
hsa05212	Pancreatic cancer	21/1399
hsa04010	MAPK signaling pathway	64/1399
hsa04210	Apoptosis	33/1399
hsa04914	Progesterone-mediated oocyte maturation	26/1399
hsa05164	Influenza A	40/1399
hsa04150	mTOR signaling pathway	37/1399
hsa04973	Carbohydrate digestion and absorption	14/1399
hsa04510	Focal adhesion	46/1399
hsa04810	Regulation of actin cytoskeleton	51/1399
hsa04940	Type I diabetes mellitus	13/1399
hsa04072	Phospholipase D signaling pathway	35/1399
hsa04668	TNF signaling pathway	28/1399
hsa04012	ErbB signaling pathway	22/1399
hsa04520	Adherens junction	19/1399
hsa00561	Glycerolipid metabolism	17/1399
hsa04662	B cell receptor signaling pathway	62/3267
hsa04110	Cell cycle	84/3267
hsa04218	Cellular senescence	98/3267
hsa05132	Salmonella infection	144/3267
hsa04666	Fc gamma R-mediated phagocytosis	66/3267
hsa04380	Osteoclast differentiation	82/3267
hsa05166	Human T-cell leukemia virus 1 infection	128/3267
hsa04659	Th17 cell differentiation	70/3267
hsa04660	T cell receptor signaling pathway	67/3267
hsa05169	Epstein-Barr virus infection	115/3267
hsa04071	Sphingolipid signaling pathway	74/3267
hsa05135	Yersinia infection	83/3267
hsa05131	Shigellosis	136/3267
hsa05223	Non-small cell lung cancer	49/3267
hsa04658	Th1 and Th2 cell differentiation	59/3267

hsa04210	Apoptosis	81/3267
hsa04664	Fc epsilon RI signaling pathway	46/3267
hsa04640	Hematopoietic cell lineage	62/3267
hsa05203	Viral carcinogenesis	113/3267
hsa04611	Platelet activation	74/3267
hsa04010	MAPK signaling pathway	154/3267
hsa05213	Endometrial cancer	40/3267
hsa05235	PD-L1 expression and PD-1 checkpoint pathway in cancer	56/3267
hsa05215	Prostate cancer	60/3267
hsa05210	Colorectal cancer	54/3267
hsa04625	C-type lectin receptor signaling pathway	63/3267
hsa05221	Acute myeloid leukemia	44/3267
hsa05130	Pathogenic Escherichia coli infection	107/3267
hsa04140	Autophagy - animal	80/3267
hsa05212	Pancreatic cancer	48/3267
hsa05220	Chronic myeloid leukemia	48/3267
hsa04141	Protein processing in endoplasmic reticulum	94/3267
hsa04722	Neurotrophin signaling pathway	69/3267
hsa05140	Leishmaniasis	48/3267
hsa05165	Human papillomavirus infection	166/3267
hsa05142	Chagas disease	60/3267
hsa04068	FoxO signaling pathway	74/3267
hsa05161	Hepatitis B	88/3267
hsa05321	Inflammatory bowel disease	41/3267
hsa04145	Phagosome	83/3267
hsa05145	Toxoplasmosis	64/3267
hsa04064	NF-kappa B signaling pathway	60/3267
hsa05216	Thyroid cancer	26/3267
hsa05167	Kaposi sarcoma-associated herpesvirus infection	102/3267
hsa05205	Proteoglycans in cancer	107/3267
hsa04062	Chemokine signaling pathway	101/3267
hsa04510	Focal adhesion	106/3267
hsa04621	NOD-like receptor signaling pathway	98/3267
hsa05152	Tuberculosis	95/3267
hsa04935	Growth hormone synthesis, secretion and action	67/3267
hsa05100	Bacterial invasion of epithelial cells	46/3267
hsa04330	Notch signaling pathway	37/3267
hsa05214	Glioma	45/3267
hsa04115	p53 signaling pathway	44/3267
hsa05211	Renal cell carcinoma	42/3267
hsa04120	Ubiquitin mediated proteolysis	77/3267
hsa05170	Human immunodeficiency virus 1 infection	109/3267
hsa05164	Influenza A	90/3267
hsa04015	Rap1 signaling pathway	107/3267
hsa03013	Nucleocytoplasmic transport	60/3267
hsa01232	Nucleotide metabolism	49/3267
hsa05219	Bladder cancer	27/3267
hsa04919	Thyroid hormone signaling pathway	66/3267

hsa01521	EGFR tyrosine kinase inhibitor resistance	46/3267
hsa04933	AGE-RAGE signaling pathway in diabetic complications	56/3267
hsa04520	Adherens junction	42/3267
hsa05231	Choline metabolism in cancer	55/3267
hsa00520	Amino sugar and nucleotide sugar metabolism	31/3267
hsa03250	Viral life cycle - HIV-1	38/3267
hsa00532	Glycosaminoglycan biosynthesis - chondroitin sulfate / dermatan sulfate	16/3267
hsa01523	Antifolate resistance	21/3267
hsa04540	Gap junction	50/3267
hsa03030	DNA replication	24/3267
hsa04137	Mitophagy - animal	42/3267
hsa04810	Regulation of actin cytoskeleton	114/3267
hsa00510	N-Glycan biosynthesis	31/3267
hsa05144	Malaria	31/3267
hsa04012	ErbB signaling pathway	48/3267
hsa04072	Phospholipase D signaling pathway	77/3267
hsa00562	Inositol phosphate metabolism	42/3267
hsa04144	Endocytosis	123/3267
hsa04668	TNF signaling pathway	61/3267
hsa04070	Phosphatidylinositol signaling system	53/3267
hsa04150	mTOR signaling pathway	80/3267
hsa05017	Spinocerebellar ataxia	74/3267
hsa05230	Central carbon metabolism in cancer	40/3267
hsa01522	Endocrine resistance	53/3267
hsa00240	Pyrimidine metabolism	34/3267
hsa03430	Mismatch repair	16/3267
hsa04142	Lysosome	68/3267
hsa04912	GnRH signaling pathway	50/3267
hsa05225	Hepatocellular carcinoma	84/3267
hsa00062	Fatty acid elongation	18/3267
hsa05133	Pertussis	42/3267
hsa05202	Transcriptional misregulation in cancer	95/3267
hsa04910	Insulin signaling pathway	70/3267
hsa05163	Human cytomegalovirus infection	109/3267
hsa04917	Prolactin signaling pathway	39/3267
hsa04650	Natural killer cell mediated cytotoxicity	67/3267
hsa05417	Lipid and atherosclerosis	104/3267
hsa04613	Neutrophil extracellular trap formation	93/3267
hsa04730	Long-term depression	34/3267
hsa04670	Leukocyte transendothelial migration	59/3267
hsa03460	Fanconi anemia pathway	31/3267
hsa05160	Hepatitis C	78/3267
hsa04360	Axon guidance	89/3267
hsa05340	Primary immunodeficiency	23/3267
hsa04710	Circadian rhythm	21/3267
hsa04914	Progesterone-mediated oocyte maturation	53/3267
hsa05134	Legionellosis	32/3267
hsa04961	Endocrine and other factor-regulated calcium reabsorption	30/3267

hsa04390	Hippo signaling pathway	77/3267
hsa05162	Measles	69/3267
hsa00513	Various types of N-glycan biosynthesis	23/3267
hsa01250	Biosynthesis of nucleotide sugars	22/3267
hsa04928	Parathyroid hormone synthesis, secretion and action	54/3267
hsa03410	Base excision repair	20/3267
hsa05218	Melanoma	38/3267
hsa04370	VEGF signaling pathway	32/3267
hsa05330	Allograft rejection	22/3267
hsa00230	Purine metabolism	63/3267
hsa03018	RNA degradation	41/3267
hsa05022	Pathways of neurodegeneration - multiple diseases	211/3267
hsa05224	Breast cancer	71/3267
hsa04672	Intestinal immune network for IgA production	27/3267
hsa04620	Toll-like receptor signaling pathway	52/3267
hsa04066	HIF-1 signaling pathway	54/3267
hsa04216	Ferroptosis	23/3267
hsa05014	Amyotrophic lateral sclerosis	163/3267
hsa05143	African trypanosomiasis	21/3267
hsa05110	Vibrio cholerae infection	27/3267
hsa05222	Small cell lung cancer	46/3267
hsa04931	Insulin resistance	53/3267
hsa03450	Non-homologous end-joining	9/3267
hsa05120	Epithelial cell signaling in Helicobacter pylori infection	36/3267
hsa05332	Graft-versus-host disease	23/3267
hsa05146	Amoebiasis	50/3267
hsa04530	Tight junction	79/3267
hsa01524	Platinum drug resistance	37/3267
hsa05416	Viral myocarditis	31/3267
hsa04141	Protein processing in endoplasmic reticulum	6/13

BgRatio	pvalue	p.adjust
84/8223	4.3835215E-10	1.4553291E-07
99/8223	8.8704388E-09	1.4724928E-06
112/8223	1.3692322E-06	0.00015152837
247/8223	2.4719801E-06	0.00020517435
128/8223	3.2181224E-06	0.00021368333
77/8223	5.277582E-06	0.00025874496
152/8223	5.455466E-06	0.00025874496
180/8223	7.0323335E-06	0.00029184184
49/8223	1.0285458E-05	0.0003794191
222/8223	1.6518248E-05	0.00052604742
294/8223	1.7429282E-05	0.00052604742
192/8223	2.4689301E-05	0.00068307067
202/8223	2.7625967E-05	0.00070552469
104/8223	2.9767817E-05	0.00070592252
108/8223	7.0811823E-05	0.00156730169
190/8223	7.6618848E-05	0.00158984109
67/8223	8.6484304E-05	0.00161906049
229/8223	8.7780388E-05	0.00161906049
31/8223	0.00015773021	0.0027561279
50/8223	0.0001909473	0.00316972513
97/8223	0.00026265949	0.00415252145
96/8223	0.00051169279	0.00732219711
156/8223	0.00052884024	0.00732219711
249/8223	0.0005546252	0.00732219711
92/8223	0.00055569107	0.00732219711
124/8223	0.00059171552	0.00732219711
210/8223	0.00059547989	0.00732219711
251/8223	0.0006910073	0.00819337222
72/8223	0.00080517529	0.00921786884
141/8223	0.00093482814	0.01022341268
60/8223	0.00095459576	0.01022341268
137/8223	0.00103966027	0.01078647529
186/8223	0.00115430572	0.01141389269
119/8223	0.00116889262	0.01141389269
41/8223	0.00140228975	0.01330171991
136/8223	0.00177497309	0.01636919632
104/8223	0.00206454289	0.01852508754
68/8223	0.00214805891	0.0187672515
97/8223	0.00297454692	0.02475491034
88/8223	0.00309991613	0.02475491034
88/8223	0.00309991613	0.02475491034
102/8223	0.00313164528	0.02475491034
57/8223	0.00331627223	0.0256047065
14/8223	0.00369883666	0.02790940391
193/8223	0.00445442495	0.03286375743
119/8223	0.00462963067	0.03341385614

46/8223	0.00505612067	0.03571557577
30/8223	0.00584730092	0.04044383135
102/8223	0.00628468167	0.04258192478
127/8223	0.00692443938	0.04481803673
132/8223	0.0069881795	0.04481803673
98/8223	0.0070196925	0.04481803673
70/8223	0.00719028833	0.04504105141
75/8223	0.0076624465	0.04710985626
94/8223	0.00784149418	0.04718646234
204/8223	0.00795916232	0.04718646234
104/8223	0.00827317279	0.04818760293
114/8223	0.0085716003	0.04906502244
205/8223	0.00873376645	0.04914594004
76/8223	0.00899570973	0.04977626052
354/8223	0.00930829944	0.05066156419
72/8223	0.01001259427	0.05361582738
77/8223	0.01051041497	0.05481237936
171/8223	0.01056624181	0.05481237936
131/8223	0.01110873347	0.05673999249
92/8223	0.01160152301	0.05774904731
203/8223	0.01165417521	0.05774904731
37/8223	0.01216702012	0.05879567231
331/8223	0.0122195825	0.05879567231
93/8223	0.01327715834	0.06297166527
42/8223	0.01400265487	0.06547720303
65/8223	0.01458238198	0.06724098355
38/8223	0.01519731706	0.06911656526
114/8223	0.01561206825	0.07004333321
212/8223	0.01610689207	0.07129984223
43/8223	0.01714009979	0.07487517276
76/8223	0.01828810698	0.07885261713
131/8223	0.01921042464	0.08176744847
225/8223	0.01957236506	0.08225348354
157/8223	0.0198942181	0.08244711743
236/8223	0.02011510998	0.08244711743
137/8223	0.02105008897	0.08522718949
58/8223	0.02132683927	0.08530735708
49/8223	0.02245930414	0.08876772589
73/8223	0.02360273563	0.09218950858
78/8223	0.02404948484	0.09284219728
92/8223	2.0641317E-09	6.4517779E-07
108/8223	3.8866132E-09	6.4517779E-07
108/8223	1.24982E-06	0.00012530811
97/8223	1.5097362E-06	0.00012530811
104/8223	3.506631E-06	0.00016210462
77/8223	3.526814E-06	0.00016210462
112/8223	3.5278974E-06	0.00016210462
137/8223	3.943307E-06	0.00016210462

121/8223	4.3944024E-06	0.00016210462
68/8223	7.0915662E-06	0.00023544
167/8223	9.8067996E-06	0.00029598704
89/8223	1.2304031E-05	0.00034041154
251/8223	1.6792998E-05	0.00042886734
247/8223	1.8328374E-05	0.0004335135
202/8223	1.9831156E-05	0.0004335135
180/8223	2.0892217E-05	0.0004335135
124/8223	5.183821E-05	0.00101236976
232/8223	5.7916331E-05	0.00106823456
156/8223	6.9333778E-05	0.0012058216
72/8223	7.2639855E-05	0.0012058216
222/8223	9.9856335E-05	0.00157868111
119/8223	0.00010471813	0.00158029171
128/8223	0.00011227242	0.00162062802
99/8223	0.00013457448	0.0018616136
67/8223	0.00015746087	0.00202437
249/8223	0.000158535	0.00202437
84/8223	0.0001934902	0.00232988311
34/8223	0.00019649617	0.00232988311
63/8223	0.00044142069	0.00488505566
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114/8223	0.0004685747	0.00501828391
192/8223	0.00050578394	0.00524750841
93/8223	0.00053623248	0.00539482377
120/8223	0.00061553196	0.00601048857
194/8223	0.00065608064	0.00622339354
49/8223	0.00072202521	0.00650403607
162/8223	0.00072484739	0.00650403607
38/8223	0.00083307094	0.00726017589
131/8223	0.00085285199	0.00726017589
58/8223	0.00095088115	0.00789231356
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215/8223	0.00146166617	0.01105089707
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65/8223	0.00184449211	0.0136082529
141/8223	0.00188621529	0.01361355383
37/8223	0.00199272022	0.01407623644
53/8223	0.00204557727	0.01414857615
205/8223	0.00242461985	0.0161377504
106/8223	0.00244739177	0.0161377504
75/8223	0.00247899178	0.0161377504
76/8223	0.00299492097	0.01912141849
77/8223	0.00359840395	0.02254094553
86/8223	0.00368189432	0.02263683173
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36/8223	0.0045842815	0.02717824032

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294/8223	0.01873117933	0.0790164909
136/8223	0.01873817079	0.0790164909
102/8223	0.0189459756	0.0790164909
171/8223	0.01900030446	0.0790164909
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203/8223	0.02182019429	0.0883451769
229/8223	0.0224091609	0.08963664361
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148/8223	0.02307216118	0.09011714721
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127/8223	1.2438073E-09	2.0709391E-07
156/8223	3.5401515E-09	3.0277849E-07
249/8223	3.6369789E-09	3.0277849E-07
97/8223	1.3427161E-08	8.9424894E-07
128/8223	1.8425652E-08	1.0226237E-06
222/8223	3.4733473E-08	1.6523209E-06
108/8223	1.0227705E-07	4.2572823E-06
104/8223	2.6986703E-07	9.9850801E-06
202/8223	4.3034268E-07	1.4108122E-05
119/8223	5.2590163E-07	1.4108122E-05
137/8223	5.4214065E-07	1.4108122E-05
247/8223	5.5076753E-07	1.4108122E-05
72/8223	9.9071188E-07	2.356479E-05
92/8223	1.7339999E-06	3.8494797E-05

136/8223	1.9714069E-06	4.1029905E-05
68/8223	2.7558525E-06	5.3982288E-05
99/8223	3.0988707E-06	5.7329107E-05
204/8223	3.3937315E-06	5.9479609E-05
124/8223	4.8951301E-06	8.1503916E-05
294/8223	5.3036281E-06	8.4100388E-05
58/8223	5.9095541E-06	8.9449159E-05
89/8223	7.5075726E-06	0.00010869659
97/8223	7.9074349E-06	0.00010971566
86/8223	1.1898936E-05	0.00015849383
104/8223	1.2509872E-05	0.00016022259
67/8223	1.4692188E-05	0.00018120366
197/8223	1.9692205E-05	0.00023419658
141/8223	2.8567035E-05	0.00031001588
76/8223	2.8860337E-05	0.00031001588
76/8223	2.8860337E-05	0.00031001588
171/8223	3.3335337E-05	0.00034689585
119/8223	3.8638896E-05	0.00038990159
77/8223	4.7291052E-05	0.00046317413
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102/8223	6.8571493E-05	0.00061803851
131/8223	6.8670946E-05	0.00061803851
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152/8223	0.00012841819	0.00106908146
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104/8223	0.00014743848	0.0011689765
37/8223	0.00016064587	0.00124407149
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108/8223	0.00058728081	0.00325215081
85/8223	0.00059573934	0.00325215081
41/8223	0.00062601116	0.00333936213
121/8223	0.00063254623	0.00333936213

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98/8223	0.00070331733	0.00349163261
49/8223	0.00071300606	0.00349163261
63/8223	0.0007317551	0.00353151375
21/8223	0.00075353605	0.00354169663
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36/8223	0.00096215492	0.00438900806
72/8223	0.00103417766	0.00465379948
229/8223	0.00112069764	0.00497589753
50/8223	0.00116775398	0.00505015682
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85/8223	0.00125432102	0.00535498589
148/8223	0.00149172163	0.00628379793
73/8223	0.00150962112	0.00628379793
251/8223	0.00154492001	0.00635133781
114/8223	0.0018707447	0.00759704859
97/8223	0.00198047017	0.00794574176
156/8223	0.0020787432	0.00824073198
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70/8223	0.00230590738	0.00892868788
98/8223	0.00266811732	0.01021244906
58/8223	0.00270535583	0.0102373124
23/8223	0.00362354718	0.01355776643
132/8223	0.00375231572	0.01388356818
93/8223	0.00406969745	0.01477436815
168/8223	0.00408180742	0.01477436815
27/8223	0.00418289153	0.01488611864
76/8223	0.00423674385	0.01488611864
193/8223	0.00426148921	0.01488611864
137/8223	0.00429149366	0.01488611864
225/8223	0.004411126	0.01514335008
70/8223	0.00476484513	0.01619074926
131/8223	0.00498320167	0.01676167834
215/8223	0.00564092806	0.01866154084
190/8223	0.00568140721	0.01866154084
60/8223	0.00571614765	0.01866154084
114/8223	0.00584925458	0.01891069685
54/8223	0.00630122462	0.02017603652
157/8223	0.00676557894	0.02145655035
182/8223	0.00693653268	0.02179118286
38/8223	0.00753540192	0.02345129755
34/8223	0.00762499345	0.02351039648
102/8223	0.00786793716	0.02403690894
57/8223	0.00869281018	0.02631550719
53/8223	0.00935105848	0.02805317543

157/8223	0.01050961824	0.03124734708
139/8223	0.01067344426	0.03145360123
39/8223	0.01154817284	0.03373282068
37/8223	0.01179712019	0.03416035673
106/8223	0.01207371806	0.03465989754
33/8223	0.0121796083	0.03466503902
72/8223	0.01652339711	0.04632556241
59/8223	0.01655478056	0.04632556241
38/8223	0.01765698282	0.04867151909
128/8223	0.01768544688	0.04867151909
79/8223	0.01844950625	0.05035807854
476/8223	0.01992215968	0.05393560303
147/8223	0.02051317646	0.05502209972
49/8223	0.02072874042	0.05502209972
104/8223	0.02081917287	0.05502209972
109/8223	0.02308681323	0.06053471501
41/8223	0.02455800201	0.0638891771
364/8223	0.02553301975	0.06591081842
37/8223	0.02657494998	0.0680727565
50/8223	0.02832082507	0.07194069652
92/8223	0.02851703285	0.07194069652
108/8223	0.02967950906	0.07431034975
13/8223	0.03053153047	0.07563839105
70/8223	0.03066421259	0.07563839105
42/8223	0.03426438022	0.08389734275
102/8223	0.03473604954	0.0844314197
169/8223	0.03638918417	0.08780868354
73/8223	0.036887639	0.08837110639
60/8223	0.03999676752	0.09513516847
171/8223	1.1268212E-07	7.6623844E-06

geneID

BLNK/BANK1/CD22/BLK/CD72/CD19/NA/VAV2/NFKB1/LILRA5/NFKBIE/CD79A/CD79B/LILRA6/NFKB1/CD22/HLA-DOB/CD19/MS4A1/CD1C/IL1B/HLA-DOA/KIT/HLA-DQA1/FLT3/FCER2/CD44/IL4R/ANPEP/HLA-DOB/LAMA5/NFKB1/CIITA/HLA-DOA/HLA-DQA1/MAPK14/MYD88/IFNGR2/CD40/HLA-DQB1/LAMA5/C3/TLR5/NFKB1/CYTH3/TNIP1/IL1B/PRKCD/HK3/MAPK14/MYD88/CD44/NLRC4/TRAF5/UBE2D1/RELB/BLNK/NFKB2/NA/NFKB1/LILRA5/IL1B/JUNB/MAPK14/OSCAR/LILRA6/IFNGR2/TNFRSF11A/NA/C3/HLA-DOB/NFKB1/IL1B/HLA-DOA/HLA-DQA1/MAPK14/MYD88/IFNGR2/HLA-DQB1/NCF4/NFKBIA/C3/HLA-DOB/SEC22B/FCAR/OLR1/MRC1/HLA-DOA/HLA-DQA1/TUBB6/HLA-DQB1/NCF4/CD14/SCC3/HLA-DOB/NFKB1/CIITA/NA/IL1B/FCER1G/MRC1/HLA-DOA/HLA-DQA1/MAPK14/MYD88/IFNGR2/TNFRSF13B/HLA-DOB/TNFRSF13C/HLA-DOA/HLA-DQA1/CD80/CD40/HLA-DQB1/MAP3K14/ICOS/RELB/NFKB2/HLA-DOB/TNFRSF13C/ICAM1/NFKB1/JAK3/HLA-DOA/HLA-DQA1/TSP0/CREB5/ESPR/RELB/NFKB2/MAP3K20/NFKB1/ANGPT1/IL1B/EPHA2/CACNB4/KIT/MAPK14/MYD88/FLT3/RASGRP1/CXCL9/GNG7/VAV2/NFKB1/JAK3/NA/XCR1/PRKCD/HCK/CXCR5/NFKBIA/FGR/NFKBIB/GRK5/PLCB1/RELB/BLNK/NFKB2/HLA-DOB/CD19/ICAM1/NFKB1/JAK3/TNFAIP3/NFKBIE/HLA-DOA/HLA-DQA1/MRELB/BLNK/NFKB2/TNFRSF13C/ICAM1/NFKB1/TNFAIP3/IL1B/PLAU/MYD88/CD40/TRAF5/GADD45/RORC/HLA-DOB/NFKB1/JAK3/NFKBIE/IL1B/HLA-DOA/HLA-DQA1/MAPK14/IFNGR2/IL4R/HLA-DQB1/C3/NFKB1/HDAC9/NA/MAPK14/AQP9/SIGLEC9/NA/NCF4/FCGR2A/PPIF/ITGAM/ITGB2/FPR1/NCF2/NFKB1/KIT/FLT3/CD14/ITGAM/NA/SPI1/CEBPA/NA/STAT5B/PIM1/KRAS/MAPK3/SOS2/CSF1R/MAPK14/ITGB4/VAV2/ARHGEF4/SLC9A1/RRAS/LIMK2/ITGAE/ITGAM/LIMK1/ITGB2/ITGA1/MRAS/ARPC5/AC/HLA-DOB/FCER1G/HLA-DOA/HLA-DQA1/CD40/HLA-DQB1/NA/HLA-DPB1/HLA-DMB/HLA-DPA1/NA/ICAM1/IL1B/SDC2/MYD88/CD40/ITGB2/NA/ACKR1/KLRB1/GYPC/HBB/NA/NA/CR1/HBA2/HBA1/SEL/NA/MARCKS/VAV2/PRKCD/MYO10/VASP/HCK/ASAP1/LIMK2/PRKCE/FCGR2A/LIMK1/ARPC5/ACTR3/NA/C3/HLA-DOB/ICAM1/C3AR1/FCAR/NA/HLA-DOA/HLA-DQA1/NA/NA/HLA-DQB1/FCGR2A/ITGAM/ITGB2/E2F5/NBN/NFKB1/MAPK14/ZFP36L1/RRAS/GADD45G/CCND3/ITPR1/CCNB2/FOXO1/GADD45B/CD14/TLR5/NFKB1/CYTH3/IL1B/TUBB6/MAPK14/MYD88/GAPDH/PIK3C2B/NLRC4/RRAS/SNX18/CD14/NA/HLA-DOB/NFKB1/JAK3/NFKBIE/HLA-DOA/HLA-DQA1/MAPK14/IFNGR2/IL4R/HLA-DQB1/NFKBIA/NA/PTGIR/FCER1G/MAPK14/FERMT3/VASP/NA/ITPR1/FCGR2A/PLCB1/ARHGEF12/NA/TBXA2R/MAPK14/SIPA1L3/VAV2/ANGPT1/EPHA2/KIT/MAPK14/FARP2/VASP/RRAS/ITGAM/RASGRP3/ITGB2/FPR1/FCER1G/CYTH3/RAB10/NA/ARFGAP3/ASAP1/CAPZA1/SMAP2/EHD1/CAPZA2/SH3GLB1/KIF5C/GBF1/GRK5/JAK3/GADD45G/KIF5C/GADD45B/STAT5B/RXRA/GADD45A/KRAS/EML4/E2F2/MAPK3/EGF/SOS2/PRKCD/UVRAG/C9orf72/RRAS/CAMKK2/ITPR1/SH3GLB1/MRAS/ERN1/BCL2L1/KRAS/WIP1/MAPK14/HLA-DOB/ICAM1/HLA-DOA/HLA-DQA1/CD80/BID/CD40/HLA-DQB1/ITGB2/HLA-DPB1/HLA-DMB/HLA-DPA1/VAV2/NFKB1/IL1B/MAPK14/MYD88/NLRC4/NFKBIA/FCGR2A/LIMK1/ARPC5/ACTR3/ACTR2/CDC42/NFKB1/NA/TNFAIP3/IL1B/PRKCD/MAPK14/MYD88/NLRP1/NAMPT/NA/NLFX1/NA/NLRC4/TRAF5/NA/NFKB1/FCER1G/MAPK14/BID/PRKCE/PPP2R5A/PLCB1/KRAS/MAPK3/ADORA1/NA/PPP2R5B/GNA01/MMP9/RPS6KA5/MDM2/HBEGF/KRAS/E2F2/MAPK3/EGF/MAPK1/CDH1/RASSF1/MAP2K2/E2F3/TYK2/LMN1/NFKB1/PTPN13/BID/GADD45G/NFKBIA/ITPR1/BCL2L1/MAP3K14/BIRC5/GADD45B/NA/ERBB2/RELB/NFKB2/NFKB1/IL1B/FCER1G/PRKCD/MAPK14/BCL3/RRAS/KSR1/NFKBIA/ITPR1/MAP3K14/IL1B/VAV2/FCER1G/MAPK14/INPP5D/MAP2K3/ALOX5/KRAS/MAPK3/SOS2/NA/MAPK1/RAC1/LYN/RAC2/NFKB1/PLAU/MMP9/CREB5/NFKBIA/CDK2/MDM2/ERG/KRAS/E2F2/MAPK3/EGF/SOS2/CREB3L2/MAPK14/COL4A3/COL4A4/ITGB4/LAMA5/SDC4/CHAD/CD44/COL9A2/NA/TNFR/LAMC1/ITGA1/LAMB3/NA/ITGB2/TUBB6/ITPR1/CDK1/PLCB1/TUBB2A/KRAS/MAP3K2/MAPK3/EGF/SOS2/TUBA1A/TUBB4B/MAPK14/CD14/COL4A3/COL4A4/LAMA5/CD1C/NFKB1/IL1B/LAMC1/CD14/ITGAM/ITGB2/CTSG/PLCB1/LAMB3/NA/IL1B/C3/NFKB2/TLR5/SEC22B/NFKB1/IL1B/MYD88/NLRC4/CD14/NFKBIA/ITGAM/ITGB2/NAIP/NA/HSPA1A/ST3GAL2/B3GNT2/B3GNT7/B4GALT3/ST3GAL1/FUT8/CHST2/PAX5/NFKB1/BCL6/PLAU/MMP9/BAIAP3/NFKBIZ/FLT3/MEF2C/NA/RUNX2/NA/CD40/GADD45G/NA/IL1B/NFKB1/NFKBIE/PRKCD/MAPK14/RPS6KA5/NFKBIA/NFKBIB/GAB1/ZNF274/CDC42/KRAS/IRAK3/MAPK14

PRKCD/HK3/CACNA1E/PKM/PRKCE/SOCS3/MAPK3/HK2/MAPK1/IRS1/MTOR/IKBKB/PIK3CB/SOC
NFKB1/IL1B/NA/TYMS/GGH/ABCC3/ABCC4/ALOX12/ABCC2/SLC46A1/IKBKB
MAPK14/PKMYT1/MAD2L2/CCNB2/CDC25A/CDK2/CDC25C/CDK1/CCNB1/SPDYA/KRAS/MAPK3/A
E2F5/PKMYT1/ESPL1/GADD45G/MAD2L2/CCND3/CCNB2/CDKN2C/GADD45B/CDC25A/CDK2/CDC
GBA/AP3B2/NEU1/AP1S3/HYAL2/GGA2/CTSG/CTSE/MCOLN1/NPC1/AP3S2/CLTCL1/IGF2R/HYAL
NOTCH4/MMP9/MAPK14/CDKN2C/MDM2/CARM1/HBEGF/KRAS/E2F2/MAPK3/SOS2/SP1/MAPK1/M
KIT/HK3/FLT3/LDHA/PKM/PGAM1/SLC16A3/KRAS/SLC2A1/MAPK3/HK2/MAPK1/SLC1A5/MTOR/MA
CAMK1D/GADD45G/GADD45B/MDM2/GADD45A/KRAS/E2F2/MAPK3/EGF/SOS2/MAPK1/TGFA/GR
NFKB1/IL17RE/TNFAIP3/IL1B/S100A9/MMP9/MAPK14/LCN2/S100A8/TRAF4/TRAF5/NFKBIA/TRAF3
C3/NFKB2/NFKB1/HDAC9/JAK3/CREB5/TRAF5/NFKBIA/CCND3/PKM/TRAF3/CDK2/CDK1/KAT2A/Y
CXCL9/TLR5/NFKB1/IL1B/MAPK14/CD80/MYD88/CD40/CD14/NFKBIA/TRAF3/IKBKE/TLR1/MAP2K3
ICAM1/NFKB1/TNFAIP3/IL1B/JUNB/MMP9/MAPK14/BCL3/CREB5/TRAF5/RPS6KA5/NFKBIA/MAP3K
HPSE/VAV2/SDC2/PLAU/MMP9/MAPK14/SDC4/SLC9A1/PLAUR/CD44/RRAS/ITPR1/WNT2B/MRAS
NFKB1/GADD45G/NFKBIA/GADD45B/MDM2/BCL2L1/STAT5B/GADD45A/KRAS/E2F2/MAPK3/SOS2
GNG7/COL4A3/COL4A4/CD19/ITGB4/LAMA5/NFKB1/TCL1A/ANGPT1/JAK3/EPHA2/KIT/FLT3/CHAD
RRAS/MRAS/BCL2L1/BNIP3L/PINK1/OPTN/UBB/FIS1/KRAS/UBA52/ATG9A/GABARAPL2/SP1/SQS
MAD2L2/GAB1/ARPC5/ACTR3/ACTR2/ILK/CDC42/PXN/CLTCL1/RHOG/WASF2/RAC1/FN1/CDH1/N
HLA-DOB/ICAM1/NFKB1/CIITA/IL1B/HLA-DOA/HLA-DQA1/MYD88/IFNGR2/BID/NLRX1/HLA-DQB1/D
BCL6/MAPK14/GADD45G/BCL2L11/CCNB2/GADD45B/CDK2/MDM2/CCNB1/CDKN2D/GADD45A/KF
COL4A3/COL4A4/LAMA5/NFKB1/TRAF4/TRAF5/GADD45G/LAMC1/NFKBIA/TRAF3/GADD45B/CDK2
COL4A3/COL4A4/ITGB4/LAMA5/VAV2/RASGRF1/CHAD/VASP/COL9A2/TNR/LAMC1/CCND3/ITGA1
GADD45G/TPM3/GADD45B/RXRA/GADD45A/KRAS/MAPK3/MAPK1/CCDC6/CDH1/MAP2K2/MAP2K
COL4A3/COL4A4/ITGB4/LAMA5/NFKB1/NOTCH4/CHAD/CREB5/COL9A2/TNR/LAMC1/CCND3/PKM
HLA-DOB/ICAM1/ANGPT1/IL1B/HLA-DOA/HLA-DQA1/CD80/HLA-DQB1/TNFRSF11A/ITGB2/ATP6V1
HLA-DOB/IL1B/HLA-DOA/HLA-DQA1/CD80/HLA-DQB1/HLA-DPB1/HLA-DMB/HLA-DPA1/KLRC1/HLA
RORC/HLA-DOB/TLR5/NFKB1/IL1B/HLA-DOA/HLA-DQA1/IFNGR2/IL4R/HLA-DQB1/IL23R/HLA-DPB
HLA-DOB/HLA-DOA/HLA-DQA1/CD80/CD40/HLA-DQB1/HLA-DPB1/HLA-DMB/HLA-DPA1/HLA-DRB3
ICAM1/VAV2/MMP9/MAPK14/VASP/NCF4/ITGAM/ITGB2/NCF2/CDC42/PXN/MYL9/ACTN1/ITGA4/GF
GNG7/NFKB1/MAPK14/MYD88/BID/TRAF5/LIMK2/NFKBIA/AP1S3/ITPR1/CCNB2/LIMK1/CDC25C/CI
HLA-DOB/IL1B/HLA-DOA/HLA-DQA1/CD80/HLA-DQB1/HLA-DPB1/HLA-DMB/HLA-DPA1/HLA-DRB5
NFKB1/GADD45G/GADD45B/CDC42/BCL2L1/RALB/GADD45A/KRAS/E2F2/MAPK3/EGF/MAPK1/RA
MAPK14/PKMYT1/ESPL1/MAD2L2/ITPR1/CCNB2/PPP2R5A/CDK2/CDC25C/CDK1/YWHAZ/CCNB1/
GNG7/NFKB1/IL1B/MAPK14/BID/CREB5/TRAF5/NFKBIA/ITPR1/PLCB1/MDM2/ARHGEF12/PXN/KRA
CD22/HLA-DOB/MPZL1/ICAM1/SDC2/HLA-DOA/HLA-DQA1/SDC4/CD80/PTPRS/CD40/HLA-DQB1/IT
GNG7/NFKB1/ANGPT1/EPHA2/KIT/FLT3/RASGRF1/RRAS/KSR1/ETS2/RASGRP3/RAPGEF5/MRAS
PYGL/HK3/FLOT1/FLOT2/PPP1R3B/SOCS3/PPP1R3D/KRAS/MAPK3/PTPRF/MKNK1/SREBF1/SOS
GADD45G/GADD45B/ILK/GADD45A/KRAS/MAPK3/EGF/SOS2/MAPK1/CDH1/NA/GRB2/FOXO3/MA
HK3/NPL/GALK1/CYB5R1/CHIT1/HK2/PGM1/GFPT2/GFUS/CYB5R3/PGM2/GNE/GFPT1/NANS
BID/GADD45G/CCND3/CCNB2/GTSE1/RRM2/GADD45B/CDK2/CDK1/CD82/MDM2/CCNB1/BCL2L1/
HLA-DOB/CIITA/HLA-DOA/HLA-DQA1/HLA-DQB1/HLA-DPB1/HLA-DMB/HLA-DPA1/KLRC1/HSPA1A
HLA-DPA1/HLA-DPB1/STAT5B/HLA-DRA/HLA-DQA1/CD3G/HLA-DQB1/MAPK1/IFNGR2/HLA-DMB/F
HLA-DPA1/HLA-DPB1/STAT5B/HLA-DRA/HLA-DQA1/CD3G/IL1R1/HLA-DQB1/MAPK1/IFNGR2/HLA
TNPO3/KPNA1/NDC1/IPO5/THOC5/NUP43/SEN2/CSE1L/NUP160/IPO7/ACIN1/SEH1L/NUP155/NC
PRKCB/PIK3CB/DNM2/PLCG2/MAPK1/PRKCD/VAV1/BIN1/VAV3/PIK3CD/LIMK2/AMPH/PLCG1/INP
SOS2/ITK/CD3G/PIK3CB/MAPK1/VAV1/VAV3/PPP3CA/MAPK13/MALT1/MAPK14/PRKCQ/CTLA4/CD
PRKCB/ITGAM/HLA-DPA1/HLA-DPB1/HLA-DRA/HLA-DQA1/HLA-DQB1/MAPK1/NCF4/IFNGR2/HLA
HLA-DPA1/HLA-DPB1/HLA-DRA/HLA-DQA1/ALOX5/HLA-DQB1/MAPK1/IFNGR2/HLA-DMB/MAPK13
GIT2/PIK3CB/MAPK1/VAV1/PTK2B/VAV3/MAPK13/NLRC4/PXN/MAPK14/RPS6KA1/TAB2/GNAQ/CD

PRKCB/SLC9A1/PIK3CB/PLCG2/MAPK1/NCOR1/PFKP/PLCB2/CREBBP/PIK3CD/RXRA/NCOA3/EP300/SOS2/PIK3CB/ALOX5/PLCG2/MAPK1/VAV1/VAV3/MAPK13/MAPK14/PIK3CD/MAP2K3/PLCG1/ALOX5/CD3G/PIK3CB/MAPK1/IFNGR2/PPP3CA/MAPK13/MAP3K3/MAPK14/PRKCQ/PIK3CD/CD28/TIRAP/IL1R1/CLTCL1/GIT2/SNX1/ARFGAP3/NA/LDLRAP1/DNM2/AGAP2/RAB31/ITCH/GRK6/BIN1/CHMP7/IQSEC1/IL1R1/PIK3CB/PLCG2/MAPK1/HK2/PRKCD/SEPTIN11/WIP1/PIK3CD/MALT1/UBE2N/NLRC4/HK3/HLA-DPA1/HLA-DPB1/HLA-DRA/HLA-DQA1/CD3G/PIK3CB/HLA-DQB1/PLCG2/SAP30L/HLA-DMB/ITGAM/HLA-DPA1/HLA-DPB1/HLA-DRA/HLA-DQA1/RFX5/HLA-DQB1/MAPK1/IFNGR2/HLA-DMB/PPP1R12A/P2RX1/APBB1IP/PIK3CB/STIM1/PLCG2/MAPK1/PPP1CB/PPP1R12A/MAPK13/PIK3CG/MAPK14/PLCB2/PRKCB/PIK3CB/PLCG2/MAPK1/MAPK13/MAPK14/TAB2/PIK3CD/CXCL8/ADAM17/PLCG1/RPS16/RAC1/MCU/CACNA1D/ETS1/PIK3CB/MAPK1/PPP1CB/PPP3CA/MAPK13/MAPK14/TGFBR1/LIN54/HIPK1/BRAF/SOS2/PRKCB/STAT5B/PIK3CB/PLCG2/MAPK1/FOXO3/PIK3CD/RXRA/PLCG1/E2F3/JAK3/MAPK1/HLA-DPA1/HLA-DPB1/STAT5B/HLA-DRA/HLA-DQA1/CD3G/ETS1/IL1R1/PIK3CB/HLA-DQB1/MAPK1/BRAF/SOS2/MAP3K5/PIK3CB/PLCG2/MAPK1/PRKCD/IRAK3/MAPK13/MAP3K3/MAPK14/CAMK4/RAC1/IL1R1/PIK3CB/FOSL2/OSCAR/PLCG2/MAPK1/LILRA6/NCF4/SIRPG/IFNGR2/PPP3CA/MAPK13/MAPK14/ITGAM/HLA-DPA1/HLA-DPB1/HLA-DRA/HLA-DQA1/CD3G/IL1R1/HLA-DQB1/CD2/CD5/HLA-DMB/HLA-DRA/BRAF/PRKCB/MAPK1/PPP1CB/PPP3CA/PLCB2/CAMK4/RPS6KA1/CAMK2D/GNAQ/CREBBP/EP300/ARL8A/PIK3CB/DNM2/MAPK1/M6PR/KPNA1/DCTN4/MAPK13/LEF1/DCTN5/NLRC4/BIRC3/PIK3CG/SOS2/PRKCB/PIK3CB/PLCG2/MAPK1/LILRA6/VAV1/VAV3/PPP3CA/MALT1/LILRB3/PIK3CD/LILRA5/NR1D2/PER3/CSNK1D/ARNTL/CUL1/NFIL3/NR1D1/DBP/CLOCK/RORA/FBXW11/CRY2/BHLHE40/EP300/PIPOX/KMT5B/HADH/SETD2/PLOD1/KMT5A/COLGALT1/DHTKD1/SMYD2/KMT2D/NSD1/KMT2C/ARNT/TNPO3/MLLT1/ELL/CREBBP/EP300/KAT2B/PPIA/CHMP4B/SERINC3/FURIN/RAN/BICD2/NUP153/MAPK1/PRKCB/ITGAM/ITK/PIK3CB/PLCG2/VAV1/NCF4/PTK2B/VAV3/MAPK13/ARHGAP5/MMP9/PXN/RHOA/BRAF/SOS2/PRKCB/FGR/STAT5B/ITK/PIK3CB/PLCG2/MAPK1/PRKCD/VAV1/DOCK2/GRK6/PTK2B/SOS2/PRKCB/CACNA1D/MAPK1/PRKCD/PTK2B/MAPK13/MAP3K3/MAPK14/PLCB2/CAMK2D/GNAQ/SOS2/PRKCB/CACNA1D/STAT5B/PIK3CB/PLCG2/MAPK1/MAPK13/MAPK14/PLCB2/SSTR3/GNAQ/PIK3CB/PLCG2/MAPK1/PPP3CA/MAPK13/LEF1/PIK3CG/MAPK14/FADD/CREBBP/PIK3CD/CXCL8/HLA-DPA1/HLA-DPB1/HLA-DRA/HLA-DQA1/HLA-DQB1/HLA-DMB/HLA-DRB1/HLA-DOA/CCL28/CD2/BRAF/SOS2/PRKCB/STAT5B/PIK3CB/MAPK1/PTK2B/MAPK13/MMP9/MAPK14/FADD/TGFBR1/TAB1/RFX5/IL7R/CD8B/CIITA/ICOS/UNG/CD3E/JAK3/CD3D/ZAP70/TNFRSF13C/LCK/CD40/ADA/BLNK/BRAF/SOS2/PIK3CB/AGAP2/MAPK1/MAPK13/IGF1R/S1PR1/MAPK14/IL7R/TGFBR1/FOXO3/CREBBP/BRAF/SOS2/PIK3CB/MAPK1/LEF1/FOXO3/PIK3CD/MYC/APC/GSK3B/MAPK3/KRAS/PDPK1/GADD45A/ATXN1/APH1B/CTBP2/TLE4/CREBBP/EP300/KAT2B/NUMB/ADAM17/PSEN1/DVL1/RBPJ/NOTCH1/PRKCB/PIK3CB/PLCG2/MAPK1/PPP3CA/MAPK13/PXN/MAPK14/PIK3CD/PLCG1/MAPKAPK2/MAPK13/MAP3K5/PIK3CB/MAPK1/VAV1/NCF4/VAV3/PPP3CA/MAPK13/MMP9/MAPK14/PLCB2/HSPA8/CAMK2/ST6GALNAC3/B4GALT5/GALNT7/ST3GAL2/ST6GALNAC2/GALNT14/GCNT4/GALNT2/ST6GALNAC1/HLA-DPA1/HLA-DPB1/HLA-DRA/HLA-DQA1/HLA-DQB1/IFNGR2/HLA-DMB/HLA-DRB1/HLA-DOA/MAPK1/CAMKK2/DAPK2/PIK3CB/ATG7/MAPK1/MTMR3/PRKCD/WIP1/ULK1/CFLAR/ATG9A/IGF1R/SH3GL1/PRKCB/PIK3CB/MAPK1/PIK3CD/ATP1A1/MAPK3/NR3C2/KRAS/PRKCA/PDPK1/ATP1B1/INSR/ATP13/CLTCL1/PRKCB/DNM2/ATP2B4/PLCB2/CLTC/GNAQ/KL/ATP1A1/AP2B1/SLC8A1/PRKACB/VDR/AP2B1/BRAF/SOS2/PRKCB/SLC9A1/PIK3CB/PLCG2/MAPK1/VAV1/PPP1CB/VAV3/PPP1R12A/MAPK13/IQSEC1/BRAF/PRKCB/MAPK1/MEF2A/MMP25/PLCB2/ARHGEF11/GNAQ/RXRA/ARRB2/KL/MEF2C/BCL2/MAPK1/BRAF/SOS2/PRKCB/PIK3CB/PLCG2/MAPK1/IGF1R/CAMK4/CAMK2D/PIK3CD/PLCG1/E2F3/MAPK3/BRAF/SOS2/STAT5B/PIK3CB/MAPK1/CTBP2/CBL/TGFBR1/PIK3CD/MYC/E2F3/MAPK3/GAB2/KRAS/CLTCL1/PIK3CB/DNM2/SEPTIN11/PXN/CLTC/CBL/PIK3CD/ELMO1/WASF2/ELMO2/VCL/CRK/SEPTIN11/BRAF/SOS2/PIK3CB/MAPK1/LEF1/RALA/TGFBR1/PIK3CD/MSH2/MYC/APC/GSK3B/BCL2/MAPK3/FOSL2/BRAF/SOS2/ETS1/PIK3CB/MAPK1/CREBBP/PIK3CD/ARNT/EP300/MAPK3/KRAS/TGFA/CRK/SLC2A1/PGM1/MGAM2/PYGL/MGAM/HK2/GYG1/GBE1/HK3/PGM2/HKDC1/GAA/PYGM/UGP2

VNN1/BCAT1/DPYD/ALDH3A2/NA/VNN2/PANK1/PPCDC/PPCS
ITGAM/NLRC4/HSPA8/HSPA1A/RAB1A/ITGB2/CXCL8/TLR5/CR1/HSPD1/NA/EEF1A1/HSPA1L/NAIP
BRAF/SOS2/PRKCB/PIK3CB/PLCG2/MAPK1/LEF1/IGF1R/SMARCD3/TGFBR1/FZD6/PIK3CD/ARID1
MFN2/ULK1/ATG9A/FOXO3/PGAM5/KRAS/PINK1/TFEB/RHOT1/RAB7A/MAP1LC3B/NBR1/TP53/GA
PRKCB/IL1R1/PLCG2/MALT1/CFLAR/BIRC3/PRKCQ/TAB2/TRAF1/TRAF5/CXCL8/TIRAP/PLCG1/BC
HLA-DPA1/HLA-DPB1/HLA-DRA/HLA-DQA1/HLA-DQB1/HLA-DMB/HLA-DRB1/HLA-DOA/CD28/HLA
PRKCB/MAP3K5/PIK3CB/MAPK1/PPP2R5A/MAPK13/S1PR1/MAPK14/PLCB2/SGMS1/GNAQ/ROCK
STAT5B/CD3G/PIK3CB/HSPA8/FADD/TAB2/HSPA1A/PIK3CD/CD28/SLAMF1/GSK3B/CD3E/BCL2/J
HLA-DPA1/HLA-DPB1/HLA-DRA/HLA-DQA1/HLA-DQB1/HLA-DMB/HLA-DRB1/HLA-DOA/CD28/ITGB
PRKCB/PIK3CB/PLCG2/DGKD/MTMR3/INPP5A/PLCB2/PIK3CD/MTMR2/SYNJ2/PLCG1/INPP5D/CD
PGM1/MGAM2/MGAM/HK2/HK3/PFKP/AKR1B1/PGM2/HKDC1/GAA/UGP2
HLA-DPA1/HLA-DPB1/HLA-DRA/HLA-DQA1/HLA-DQB1/HLA-DMB/HLA-DRB1/HLA-DOA/HLA-DRB5
BRAF/SOS2/PRKCB/PIK3CB/PLCG2/NF1/MAPK1/IGF1R/FOXO3/PIK3CD/PLCG1/GSK3B/BCL2/MAP
BRAF/SOS2/PIK3CB/MAPK1/NCOR1/MAPK13/MMP9/IGF1R/MAPK14/PIK3CD/NCOA3/E2F3/BCL2/P
PRKCB/IL1R1/PIK3CB/PLCG2/PRKCD/PPP1CB/MAPK13/MAPK14/PLCB2/PRKCQ/CAMK2D/GNAQ/
SOS2/PRKCB/PIK3CB/DGKD/MAPK1/PCYT1A/SLC22A4/PIK3CD/SLC44A3/PLCG1/CHPT1/MAPK3/
LARS1/IARS1/CARS1/NARS2/CARS2/MARS1/DARS2/KARS1/EPRS1/QRSL1/EARS2/DARS1/FARS
MGRN1/UBE2Q2/ITCH/UBE4B/UBE2N/BIRC3/UBE2D4/SMURF1/CBL/CUL1/UBE2H/UBE2R2/CDC2
BRAF/PIK3CB/MAPK1/RALA/TGFBR1/PIK3CD/E2F3/MAPK3/RALB/SMAD2/KRAS/PLD1/GADD45A/T
BRAF/SOS2/PRKCB/CACNA1D/MAP3K5/MAP4K4/IL1R1/NF1/MAPK1/PPP3CA/MAPK13/MAP3K3/D
MAP3K5/PIK3CB/MAPK1/CTSO/CFLAR/CASP2/BIRC3/FADD/TRAF1/PIK3CD/BCL2/PARP4/MAPK3/
BRAF/PIK3CB/MAPK1/MAPK13/CPEB3/SPDYA/IGF1R/MAPK14/RPS6KA1/HSP90AB1/PIK3CD/CDC
NLRX1/PRKCB/HLA-DPA1/HLA-DPB1/DNAJC3/HLA-DRA/HLA-DQA1/PIK3CB/HLA-DQB1/MAPK1/KF
CLIP1/BRAF/SOS2/PRKCB/CAB39/PIK3CB/SESN2/MAPK1/ULK1/LPIN1/ATP6V1C1/IGF1R/RPS6KA
PRKCB/CACNA1D/MGAM2/PIK3CB/MGAM/HK2/HK3/PLCB2/PIK3CD/ATP1A1/ATP1B1/ATP1B3/HKI
BRAF/SOS2/PRKCB/PIK3CB/MAPK1/VAV1/PPP1CB/ITGB4/VAV3/PPP1R12A/ARHGAP5/BIRC3/PXN
BRAF/SOS2/ITGAM/SLC9A1/SSH1/PIK3CB/MAPK1/VAV1/PPP1CB/ITGB4/MYH9/VAV3/PPP1R12A/I
HLA-DPA1/HLA-DPB1/HLA-DRA/HLA-DQA1/HLA-DQB1/HLA-DMB/HLA-DRB1/HLA-DOA/CD28/HLA-
SOS2/PIK3CB/DNM2/PLCG2/DGKD/MAPK1/PTK2B/AGPAT2/PIK3CG/RALA/AGPAT5/PLCB2/PIK3C
MAP3K5/PIK3CB/MAPK1/ITCH/MAPK13/CFLAR/MMP9/BIRC3/MAPK14/FADD/TAB2/TRAF1/TRAF5/
BRAF/SOS2/PRKCB/STAT5B/PIK3CB/PLCG2/MAPK1/CBL/CAMK2D/PIK3CD/MYC/PLCG1/GSK3B/M
MAPK1/LEF1/IQGAP1/IGF1R/TGFBR1/CREBBP/EP300/PTPRJ/ACTN1/MAPK3/NECTIN2/WASF2/VC
MBOAT1/DGKD/GPAT4/GPAT3/LPIN1/AGPAT2/PNPLA2/AGPAT5/MBOAT2/PLPP5/DGAT2/DGKG/D
BLNK/NFKB1/CD72/BANK1/CD22/BLK/CD79A/CD19/NA/LILRA6/SOS2/LILRA5/PIK3CB/NFKBIE/VAV
WEE1/E2F5/MCM5/MCM4/CDC20/MCM7/CCNA2/CHEK1/TTK/MCM3/PLK1/MCM2/CDC6/CCNB1/CD
NFKB1/MAPK14/E2F5/RRAS2/MRAS/NBN/ZFP36L1/PIK3CB/MYBL2/CCNA2/FOXO1/CHEK1/MAPK
NFKB1/TLR5/MAPK14/NLRC4/KPNA1/NAIP/IL1B/CYFIP2/PIK3CB/SNX18/PIK3CG/PIK3C2B/CD14/M
ASAP1/HCK/MARCKS/PRKCD/LIMK2/FCGR2A/MYO10/PIK3CB/VASP/PRKCE/VAV1/VAV3/MAPK1/
BLNK/NFKB1/RELB/NFKB2/MAPK14/NA/IFNGR2/NCF4/LILRA6/FCGR2A/IL1B/OSCAR/LILRA5/PIK3
NFKB1/RELB/NFKB2/HLA-DOA/TNFRSF13C/JAK3/HLA-DOB/HLA-DQA1/HLA-DPB1/HLA-DQB1/STA
NFKB1/RORC/HLA-DOA/JAK3/IL4R/HLA-DOB/HLA-DQA1/MAPK14/HLA-DPB1/HLA-DQB1/STAT5B/I
NFKB1/MAPK14/SOS2/PIK3CB/NFKBIE/VAV1/VAV3/MAPK1/CBLB/NFKBIA/MAPK13/PIK3CD/GSK3
BLNK/NFKB1/RELB/NFKB2/HLA-DOA/JAK3/HLA-DOB/HLA-DQA1/CD44/CD19/MAPK14/HLA-DPB1/I
NFKB1/MAPK14/BID/FCER1G/PIK3CB/PPP2R5A/PRKCE/MAPK1/DEGS1/S1PR3/PPP2R2B/MAPK1
NFKB1/MAPK14/NLRC4/FCGR2A/IL1B/PIK3CB/PTK2B/PXN/MYD88/VAV1/VAV3/TAB2/MAPK1/MAP
C3/NFKB1/TLR5/PRKCD/CD44/HK3/MAPK14/TNIP1/NLRC4/NAIP/HK2/IL1B/PIK3CB/ACTN1/UBE2D
JAK3/STAT5B/SOS2/PIK3CB/RXRA/MAPK1/RASSF1/FHIT/EGF/TGFA/PIK3CD/PRKCA/KRAS/DDB2
NFKB1/HLA-DOA/JAK3/IL4R/HLA-DOB/HLA-DQA1/MAPK14/HLA-DPB1/HLA-DQB1/STAT5B/IFNGR2

NFKB1/LMNB1/BID/PIK3CB/CSF2RB/PARP1/NA/MAPK1/EIF2AK3/PRF1/NFKBIA/PTPN13/CTSH/TN
MAPK14/ALOX5/SOS2/FCER1G/PIK3CB/VAV1/VAV3/MAPK1/MAP2K3/MAPK13/PIK3CD/PRKCA/KR
CD22/HLA-DOA/IL4R/CD1C/HLA-DOB/HLA-DQA1/MS4A1/CD44/CD19/HLA-DPB1/HLA-DQB1/CR1/IT
C3/NFKB1/NFKB2/JAK3/STAT5B/CREB5/TRAF3/CCR5/PIK3CB/ACTN1/HPN/CDC20/TRAF5/PKM/H
MAPK14/FCGR2A/FERMT3/FCER1G/PTGIR/APBB1IP/PIK3CB/PIK3CG/VASP/P2RX1/SNAP23/NA/M
NFKB1/RELB/NFKB2/MAP3K20/MAPK14/MAP4K1/RRAS2/ANGPT1/MRAS/MAP4K4/FLT3/SOS2/IL1
SOS2/PIK3CB/MAPK1/EGF/PIK3CD/GSK3B/KRAS/DDB2/TCF7L2/HRAS/ILK/GADD45A/MAPK3/LEF
NFKB1/MAPK14/IFNGR2/PIK3CB/NFKBIE/MYD88/BATF3/MAPK1/MAP2K3/NFKBIA/EGF/MAPK13/P
NFKB1/CREB5/PLAU/SOS2/MMP9/PIK3CB/FGFR1/MAPK1/NFKBIA/EGF/TGFA/MDM2/PIK3CD/GSK
SOS2/PIK3CB/MAPK1/EGF/TGFA/PIK3CD/BIRC5/GSK3B/RALB/KRAS/DDB2/TCF7L2/HRAS/TGFBR
NFKB1/RELB/NFKB2/PRKCD/MAPK14/RRAS2/BCL3/MRAS/FCER1G/IL1B/PIK3CB/CLEC4D/IKBKE/
NFKB1/STAT5B/ITGAM/FLT3/SOS2/PIK3CB/CEBPA/CD14/KIT/SPI1/CCNA2/MAPK1/PIK3CD/KRAS/
NFKB1/TLR5/MAPK14/FCGR2A/NAIP/IL1B/CYFIP2/MYO10/ARHGEF11/LPAR1/MYD88/CYTH4/TAB
PRKCD/RRAS2/MRAS/CAMKK2/PIK3CB/C9orf72/ATG9A/SH3GLB1/MAPK1/EIF2AK3/SUPT20H/MTM
NFKB1/PIK3CB/BRCA2/RAD51/MAPK1/EGF/TGFA/PIK3CD/RALB/KRAS/DDB2/CDC42/TGFBR1/GA
NFKB1/STAT5B/SOS2/PIK3CB/MAPK1/CTBP2/NFKBIA/MDM2/PIK3CD/KRAS/DDB2/CBL/HRAS/TGF
DNAJC5/CKAP4/RAD23B/DNAJC3/UBE2D1/MAN1C1/NFE2L2/HSPA1A/DERL3/EIF2AK3/HSPA1L/S
NFKB1/PRKCD/MAPK14/SOS2/PIK3CB/NFKBIE/IRAK2/PSEN1/MAPK1/NFKBIA/MAPK13/PIK3CD/M
C3/NFKB1/HLA-DOA/HLA-DOB/HLA-DQA1/MAPK14/HLA-DPB1/HLA-DQB1/CR1/ITGAM/IFNGR2/NC
NFKB1/ITGB4/COL4A3/COL4A4/CREB5/COL9A2/TRAF3/LAMA5/SOS2/ATP6V1C1/CHAD/PIK3CB/N
C3/NFKB1/MAPK14/IFNGR2/IL1B/C1QB/PIK3CB/C1QC/C1QA/GNA15/MYD88/MAPK1/NFKBIA/PPP2
BCL6/MAPK14/SOS2/PIK3CB/HOMER3/SOD2/MAPK1/PLK1/EGF/PLK4/CCNB1/CDKN2D/USP7/MDM
NFKB1/JAK3/MAPK14/STAT5B/CREB5/TRAF3/BID/SOS2/MMP9/PIK3CB/IFNAR1/PTK2B/CCNA2/M
NFKB1/RORC/HLA-DOA/TLR5/IL4R/HLA-DOB/HLA-DQA1/HLA-DPB1/HLA-DQB1/IFNGR2/HLA-DPA
C3/HLA-DOA/HLA-DOB/HLA-DQA1/MRC1/FCAR/HLA-DPB1/HLA-DQB1/ITGAM/SEC22B/NCF4/FCG
NFKB1/HLA-DOA/HLA-DOB/HLA-DQA1/MAPK14/HLA-DPB1/HLA-DQB1/IFNGR2/ALOX5/LAMA5/HLA
BLNK/NFKB1/RELB/NFKB2/TNFRSF13C/TRAF3/PLAU/ICAM1/IL1B/EDAR/TRAF5/CD14/PARP1/MYD
RXRA/MAPK1/KRAS/CCDC6/DDB2/TPM3/TCF7L2/HRAS/GADD45A/MAPK3/LEF1/GADD45B/BRAF/
C3/NFKB1/HCK/MAPK14/TRAF3/BID/ICAM1/GNG7/CCR5/PIK3CB/PIK3CG/IFNAR1/IKBKE/MAPK1/M
CD44/HPSE/MAPK14/SLC9A1/SDC4/RRAS2/PLAU/MRAS/SOS2/MMP9/PIK3CB/FGFR1/NA/PXN/VA
NFKB1/CXCL9/JAK3/HCK/PRKCD/STAT5B/FGR/SOS2/GNG7/CCR5/CXCR6/PIK3CB/GRK6/PIK3CG
ITGB4/COL4A3/COL4A4/COL9A2/LAMA5/SOS2/CHAD/PIK3CB/ACTN1/VASP/PXN/VAV1/ITGA7/VAV
NFKB1/PRKCD/MAPK14/NLRC4/TRAF3/NAIP/IL1B/NLRP12/NAMPT/CARD6/IFNAR1/TXNIP/TRAF5/
C3/NFKB1/HLA-DOA/HLA-DOB/HLA-DQA1/MRC1/MAPK14/HLA-DPB1/HLA-DQB1/CR1/ITGAM/IFNG
MAPK14/STAT5B/CREB5/SOS2/PIK3CB/JUNB/SOCS3/MAPK1/MAP2K3/GHRL/SOCS2/MAPK13/PIK
PIK3CB/PXN/DNM2/PIK3CD/CLTC/ACTR3/CBL/ACTR2/ILK/WASF2/CDC42/VCL/WASF1/CAV1/ARP
NOTCH2/TLE1/PSEN1/NUMB/TLE4/JAG1/RBPJ/CTBP2/KAT2A/NCSTN/MAML1/NOTCH4/DVL3/KAT
SOS2/PIK3CB/MAPK1/EGF/TGFA/MDM2/PIK3CD/PRKCA/KRAS/DDB2/HRAS/GADD45A/MAPK3/GA
BID/CD82/CHEK1/RRM2/CCNB1/TNFRSF10B/GTSE1/SESN3/MDM2/PERP/CCNB2/CCNE2/TP73/CI
SOS2/PIK3CB/ARNT/MAPK1/TGFA/PIK3CD/KRAS/HRAS/CDC42/SLC2A1/MAPK3/JUN/HIF1A/BRAF
UBE2D1/CDC20/SOCS3/CBLB/UBE2R2/SYVN1/TRIP12/PIAS2/MDM2/SAE1/UBE2D3/UBE2H/DDB2/
NFKB1/MAPK14/WEE1/LIMK2/BID/AP1S3/GNG7/CCR5/PIK3CB/TRAF5/PTK2B/PXN/MYD88/CHEK1
NFKB1/HLA-DOA/HLA-DOB/HLA-DQA1/HLA-DPB1/HLA-DQB1/IFNGR2/TRAF3/BID/KPNA1/HLA-DP
MAPK14/ITGAM/ANGPT1/FARP2/MRAS/APBB1IP/PIK3CB/ITGB2/FGFR1/LPAR1/KIT/SIPA1L3/VASF
KPNA1/THOC5/NUP160/NUP58/TNPO3/TNPO1/NUP155/NUP214/NUP153/CASC3/TMEM33/KPNA2
AMPD3/UPP1/CTPS1/AK5/CDA/RRM1/RRM2/IMPDH1/TYMS/ADA/ADK/TK2/GMPR2/NUDT16/UCK2
MMP9/MAPK1/RASSF1/EGF/MDM2/KRAS/HRAS/MAPK3/BRAF/VEGFA/CDH1/RPS6KA5/E2F2/CDK
SLC9A1/PIK3CB/NOTCH2/RXRA/PLCD3/MAPK1/THRB/ATP1B1/KAT2A/MDM2/PIK3CD/PRKCA/GSK

SOS2/NRG1/PIK3CB/MAPK1/EGF/TGFA/IL6R/PIK3CD/PRKCA/GSK3B/KRAS/HRAS/MAPK3/BRAF/ERK1/ERK2/NFKB1/PRKCD/COL4A3/MAPK14/COL4A4/STAT5B/ICAM1/IL1B/PIK3CB/PLCD3/PRKCE/MAPK1/MAPK14/FARP2/ACTN1/FGFR1/MAPK1/PTPRJ/IQGAP1/TCF7L2/WASF2/CDC42/VCL/TGFBR1/PTPRF/WASF2/SLC22A4/PCYT1A/SOS2/PIK3CB/MAPK1/SLC44A3/EGF/PIK3CD/PRKCA/SP1/KRAS/CHPT1/HRAS/ERK1/ERK2/HK3/PGM1/NPL/HK2/UAP1/GFPT2/CYB5R1/HK1/UGDH/CYB5R3/PGM2/GMPPA/GMPPB/GFUS/GFUS2/CCR5/BICD1/MLLT1/CHMP4B/NA/APOBEC3G/KAT2A/APOBEC3A/FURIN/TNPO3/BICD2/SERINC3/CHSY1/CHST12/CHST15/CSGALNACT1/UST/NA/CHPF/DSE/CHSY3/CSGALNACT2/XYLT2/CHST15/NFKB1/NA/ABCC3/IL1B/SHMT1/TYMS/SHMT2/SLC19A1/ATIC/ABCC5/GART/ALOX12/ABCG2/ABCC3/SOS2/LPAR1/MAPK1/MAP3K2/TUBB2A/EGF/PRKCA/TUBA1A/GUCY1B1/CDK1/KRAS/HRAS/PRKAC/MCM5/MCM4/MCM7/RFC5/MCM3/MCM2/RNASEH2B/PCNA/RFC3/RFC1/DNA2/RFC4/RPA3/LIG1/PRRAS2/MRAS/MITF/ATG9A/EIF2AK3/GABARAPL2/SP1/KRAS/MFN2/PINK1/HRAS/RRAS/SQSTM1/ITGB4/LIMK2/SLC9A1/ITGAM/RRAS2/MRAS/SOS2/SSH1/CYFIP2/PIK3CB/ITGB2/ACTN1/FGFR1/LPMGAT5/B4GALT2/MAN1C1/FUT8/ST6GAL1/MGAT4B/STT3A/MOGS/GANAB/ALG14/MAN1B1/ALG5/CR1/ICAM1/IL1B/CD36/KLRB1/ITGB2/MYD88/SELP/THBS3/CD40/SDC2/SDC1/NA/NA/PECAM1/AC/STAT5B/SOS2/NRG1/PIK3CB/MAPK1/CBLB/EGF/TGFA/PIK3CD/PRKCA/GSK3B/KRAS/CBL/HRAS/RRAS2/MRAS/SOS2/FCER1G/PIK3CB/PIK3CG/LPAR1/KIT/PTK2B/CYTH4/PTGFR/MAPK1/EGF/DNAP/PIK3CB/PIK3CG/PLCD3/PIK3C2B/MTMR3/IPMK/PIK3CD/PLCD1/INPPL1/ITPK1/INPP5A/MTMR14/PIASAP1/RAB10/ARFGAP3/NA/CCR5/EHD1/IQSEC1/GRK6/RAB31/SH3GLB1/RAB5A/CYTH4/ACAP1/NFKB1/MAPK14/CREB5/BCL3/TRAF3/ICAM1/MMP9/IL1B/PIK3CB/JUNB/TRAF5/SOCS3/TAB2/MAPK1/PIK3CB/PLCD3/PIK3C2B/MTMR3/IPMK/PIK3CD/CDS2/PRKCA/PLCD1/INPPL1/IP6K2/PIP4P2/DGKQ/CLIP1/SOS2/ATP6V1C1/PIK3CB/NA/CAB39/MAPK1/LAMTOR1/PIK3CD/PRKCA/GSK3B/KRAS/WNT1/PIK3CB/CIC/RXR1/RBPJ/PIK3CD/RORA/PRKCA/SP1/WIP1/ERN1/SLC25A4/NRBF2/NOP56/PSMA1/HK3/FLT3/HK2/PIK3CB/FGFR1/PKM/KIT/SLC16A3/MAPK1/PIK3CD/KRAS/HK1/PDK1/HRAS/PGAM1/MAPK14/SOS2/MMP9/PIK3CB/NOTCH2/MAPK1/JAG1/MDM2/MAPK13/PIK3CD/SP1/KRAS/NOTCH4/NA/UPP1/CTPS1/CDA/RRM1/RRM2/TYMS/TK2/UCK2/TK1/ENTPD5/CAD/DPYD/NME4/UMPS/CANT1/RFC5/PCNA/RFC3/EXO1/RFC1/PMS2/MSH6/RFC4/MSH2/RPA3/LIG1/POLD2/MLH1/MSH3/POLD1/FRAP1S3/SGSH/AP3B2/GBA/GGA2/AP3S2/HYAL2/CTSH/LAPTM4B/SLC11A1/ASAH1/CLTC/CTS2/CTSL/PRKCD/MAPK14/SOS2/PTK2B/MAPK1/MAP2K3/MAP3K2/MAPK13/PRKCA/KRAS/HRAS/PRKACA/CDC42/SOS2/SMARCD3/PIK3CB/MGST1/NA/TXNRD1/NFE2L2/MAPK1/DPF3/FRAT2/TGFA/GSTM3/PIK3CD/HADHB/HACD1/HADH/HACD3/MECR/ELOVL7/NA/THEM5/ELOVL6/HACD2/ACAA2/PPT1/THEM4/ERK1/C3/NFKB1/MAPK14/ITGAM/IL1B/C1QB/IRF8/C1QC/ITGB2/C1QA/CD14/MYD88/MAPK1/MAPK13/C5/NFKB1/NFKBIZ/PAX5/BCL6/ITGAM/PLAU/BMP2K/FLT3/MMP9/BAIAP3/CEBPA/MEF2C/MITF/NA/RXR1/PYGL/HK3/FLOT2/FLOT1/SOS2/HK2/PPP1R3B/PIK3CB/SOCS3/MAPK1/CBLB/RHOQ/PPP1R3D/SOCS3/NFKB1/MAPK14/CREB5/BID/SOS2/GNG7/CCR5/IL1B/PIK3CB/ARHGEF11/IL10RB/TRAF5/PTK2B/PYK2/NFKB1/MAPK14/STAT5B/SOS2/PIK3CB/SOCS3/MAPK1/SOCS2/MAPK13/PIK3CD/GSK3B/KRAS/HF1/IFNGR2/BID/SOS2/ICAM1/FCER1G/PIK3CB/ITGB2/IFNAR1/KLRD1/PTK2B/VAV1/VAV3/MAPK1/PRF1/NFKB1/MAPK14/NCF4/TRAF3/BID/ICAM1/MMP9/IL1B/CD36/PIK3CB/RXRA/CD14/NCF2/SOD2/MYD88/C3/NFKB1/MAPK14/SIGLEC9/CR1/ITGAM/NCF4/FCGR2A/AQP9/PIK3CB/ITGB2/HDAC7/NCF2/PAD1/RXR1/MAPK1/PRKCA/GUCY1B1/KRAS/LYN/HRAS/GNA12/MAPK3/BRAF/GNAI3/GNAS/IGF1R/IGF1R2/MAPK14/ITGAM/NCF4/ICAM1/MMP9/PIK3CB/ITGB2/ACTN1/VASP/PTK2B/NCF2/PXN/VAV1/VAV3/MAPK1/BRCA2/RAD51/ERCC1/POLH/FANCM/UBE2T/FANCI/TOP3A/BLM/FANCG/FANCA/BRIP1/FAAP24/FRAP1/NFKB1/TRAF3/BID/SOS2/PIK3CB/IFNAR1/RXRA/SOCS3/IKBKE/MAPK1/EIF2AK3/NFKBIA/PPP2R2B/PLXNC1/LIMK2/SEMA4A/SSH1/PIK3CB/GDF7/EPHB4/MAPK1/EPHA2/LRRC4/PIK3CD/PRKCA/GSK3B/BLNK/TNFRSF13B/TNFRSF13C/JAK3/CD79A/CD19/CIITA/CD40/UNG/ADA/RFX5/PTPRC/CD8A/DC/PTOR/RORC/BHLHE41/NFIL3/RORA/NPAS2/CRY1/PER1/CSNK1D/PER3/ARNTL/SKP1/CSNK1E/CLOCK/PER2/MAPK14/PIK3CB/CCNA2/MAPK1/PLK1/CPEB4/CCNB1/MAPK13/PIK3CD/BUB1/CCNB2/CDK1/KRAS/CDK2/C3/NFKB1/NFKB2/TLR5/CR1/ITGAM/SEC22B/NLRC4/NAIP/IL1B/ITGB2/CD14/MYD88/HSPA1A/HSPA1B/CLK1/ATP1B1/VDR/DNM2/PRKCA/CLTC/PRKACA/AP2B1/AP2A1/SLC8A3/AP2M1/GNAS/ATP1B2/D

LIMD1/ITGB2/GDF7/NA/RASSF1/PPP2R2B/TEAD3/BIRC5/GSK3B/DLG5/TP73/CCND3/WNT10B/TCF7
NFKB1/JAK3/STAT5B/TRAF3/BID/IL1B/PIK3CB/IFNAR1/SLAMF1/MYD88/TAB2/IKBKE/HSPA1A/CBL
B4GALT2/MAN1C1/FUT8/MGAT4B/STT3A/ALG14/HEXD/MAN1B1/B4GALT3/NA/ALG12/MAN2A2/MO
HK3/PGM1/HK2/UAP1/GFPT2/HK1/UGDH/PGM2/GMPPA/GMPPB/GFUS/GFPT1/UGP2/NANS/GALK
CREB5/MEF2C/ARHGEF11/FGFR1/RXRA/RUNX2/MAPK1/MMP25/VDR/PRKCA/SP1/ARRB2/PRKAC
PARP1/POLB/UNG/PCNA/PARP2/POLL/NTHL1/NEIL3/NEIL1/PARP3/LIG1/LIG3/MBD4/POLD2/MUTY
PIK3CB/MITF/FGFR1/MAPK1/EGF/MDM2/PIK3CD/KRAS/DDB2/HRAS/GADD45A/MAPK3/GADD45B
MAPK14/PIK3CB/PXN/MAPK1/MAPK13/PIK3CD/PRKCA/KRAS/PPP3CC/HRAS/CDC42/MAPK3/RAC
HLA-DOA/HLA-DOB/HLA-DQA1/HLA-DPB1/HLA-DQB1/HLA-DPA1/HLA-DMB/HLA-DRB1/HLA-DRB5
AMPD3/PGM1/AK5/RRM1/RRM2/NUDT5/IMPDH1/FHIT/NA/PDE9A/ADA/GUCY1B1/ADK/GMPR2/PG
XRN2/PARN/ENO1/CNOT10/DCPS/NUDT16/DCP2/ZCCHC7/EDC3/TOB2/CNOT6L/LSM6/PNPT1/EX
NFKB1/MAPK14/BID/IL1B/C9orf72/RYR1/NA/DNAH6/DCTN4/RAB5A/PSEN1/MAPK1/APP/MAP2K3/E
NFKB2/SOS2/PIK3CB/NOTCH2/BRCA2/FGFR1/NA/KIT/MAPK1/JAG1/FRAT2/EGF/PIK3CD/SP1/GSK
TNFRSF13B/HLA-DOA/TNFRSF13C/HLA-DOB/HLA-DQA1/HLA-DPB1/HLA-DQB1/HLA-DPA1/HLA-D
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BID/PIK3CB/MGST1/ERCC1/POLH/MAPK1/MDM2/GSTM3/PIK3CD/BIRC5/TOP2A/FADD/MAPK3/BC
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24	KEGG	2.3576336219 UC_NoMutation_Endoscopic_RemissionW8
42	KEGG	2.33219233319 UC_NoMutation_Endoscopic_RemissionW8
114	KEGG	2.30312857176 UC_NoMutation_Endoscopic_RemissionW8
31	KEGG	2.29669513603 UC_NoMutation_Endoscopic_RemissionW8
31	KEGG	2.29669513603 UC_NoMutation_Endoscopic_RemissionW8
48	KEGG	2.27124166903 UC_NoMutation_Endoscopic_RemissionW8
77	KEGG	2.20177778936 UC_NoMutation_Endoscopic_RemissionW8
42	KEGG	2.20177778936 UC_NoMutation_Endoscopic_RemissionW8
123	KEGG	2.19713478776 UC_NoMutation_Endoscopic_RemissionW8
61	KEGG	2.11935509575 UC_NoMutation_Endoscopic_RemissionW8
53	KEGG	2.09986555391 UC_NoMutation_Endoscopic_RemissionW8
80	KEGG	2.08403421071 UC_NoMutation_Endoscopic_RemissionW8
74	KEGG	2.06429461867 UC_NoMutation_Endoscopic_RemissionW8
40	KEGG	2.04921235844 UC_NoMutation_Endoscopic_RemissionW8
53	KEGG	1.99087009661 UC_NoMutation_Endoscopic_RemissionW8
34	KEGG	1.98981404362 UC_NoMutation_Endoscopic_RemissionW8
16	KEGG	1.86781185243 UC_NoMutation_Endoscopic_RemissionW8
68	KEGG	1.85749890256 UC_NoMutation_Endoscopic_RemissionW8
50	KEGG	1.83049108325 UC_NoMutation_Endoscopic_RemissionW8
84	KEGG	1.83049108325 UC_NoMutation_Endoscopic_RemissionW8
18	KEGG	1.82721852416 UC_NoMutation_Endoscopic_RemissionW8
42	KEGG	1.82721852416 UC_NoMutation_Endoscopic_RemissionW8
95	KEGG	1.82721852416 UC_NoMutation_Endoscopic_RemissionW8
70	KEGG	1.82721852416 UC_NoMutation_Endoscopic_RemissionW8
109	KEGG	1.81977803773 UC_NoMutation_Endoscopic_RemissionW8
39	KEGG	1.79073305298 UC_NoMutation_Endoscopic_RemissionW8
67	KEGG	1.77568249788 UC_NoMutation_Endoscopic_RemissionW8
104	KEGG	1.72905250038 UC_NoMutation_Endoscopic_RemissionW8
93	KEGG	1.72905250038 UC_NoMutation_Endoscopic_RemissionW8
34	KEGG	1.72905250038 UC_NoMutation_Endoscopic_RemissionW8
59	KEGG	1.72329246738 UC_NoMutation_Endoscopic_RemissionW8
31	KEGG	1.69516414465 UC_NoMutation_Endoscopic_RemissionW8
78	KEGG	1.66844009991 UC_NoMutation_Endoscopic_RemissionW8
89	KEGG	1.66171919488 UC_NoMutation_Endoscopic_RemissionW8
23	KEGG	1.62983312293 UC_NoMutation_Endoscopic_RemissionW8
21	KEGG	1.62874004687 UC_NoMutation_Endoscopic_RemissionW8
53	KEGG	1.61912138175 UC_NoMutation_Endoscopic_RemissionW8
32	KEGG	1.57978825526 UC_NoMutation_Endoscopic_RemissionW8
30	KEGG	1.55201797247 UC_NoMutation_Endoscopic_RemissionW8

77	KEGG	1.50518684858 UC_NoMutation_Endoscopic_RemissionW8
69	KEGG	1.50232962357 UC_NoMutation_Endoscopic_RemissionW8
23	KEGG	1.47194734239 UC_NoMutation_Endoscopic_RemissionW8
22	KEGG	1.46647760267 UC_NoMutation_Endoscopic_RemissionW8
54	KEGG	1.4601727255 UC_NoMutation_Endoscopic_RemissionW8
20	KEGG	1.46010830663 UC_NoMutation_Endoscopic_RemissionW8
38	KEGG	1.33417929945 UC_NoMutation_Endoscopic_RemissionW8
32	KEGG	1.33417929945 UC_NoMutation_Endoscopic_RemissionW8
22	KEGG	1.31272509873 UC_NoMutation_Endoscopic_RemissionW8
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211	KEGG	1.26812446123 UC_NoMutation_Endoscopic_RemissionW8
71	KEGG	1.25946284038 UC_NoMutation_Endoscopic_RemissionW8
27	KEGG	1.25946284038 UC_NoMutation_Endoscopic_RemissionW8
52	KEGG	1.25946284038 UC_NoMutation_Endoscopic_RemissionW8
54	KEGG	1.21799549786 UC_NoMutation_Endoscopic_RemissionW8
23	KEGG	1.19457270556 UC_NoMutation_Endoscopic_RemissionW8
163	KEGG	1.18104329563 UC_NoMutation_Endoscopic_RemissionW8
21	KEGG	1.16702666299 UC_NoMutation_Endoscopic_RemissionW8
27	KEGG	1.14302536174 UC_NoMutation_Endoscopic_RemissionW8
46	KEGG	1.14302536174 UC_NoMutation_Endoscopic_RemissionW8
53	KEGG	1.12895069462 UC_NoMutation_Endoscopic_RemissionW8
9	KEGG	1.12125771788 UC_NoMutation_Endoscopic_RemissionW8
36	KEGG	1.12125771788 UC_NoMutation_Endoscopic_RemissionW8
23	KEGG	1.0762517942 UC_NoMutation_Endoscopic_RemissionW8
50	KEGG	1.0734959081 UC_NoMutation_Endoscopic_RemissionW8
79	KEGG	1.0564625339 UC_NoMutation_Endoscopic_RemissionW8
37	KEGG	1.05368970767 UC_NoMutation_Endoscopic_RemissionW8
31	KEGG	1.02165890843 UC_NoMutation_Endoscopic_RemissionW8
6	KEGG	5.11563606171 UC_onlyMutation_Endoscopic_RemissionW8

Response_status

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Discloser Identifier: 474382

Disclosure Purpose: 24-05459

Summary of Interests

Company or Organization

Entity	Type	Interest Held By
AbbVie	Employment	Self

Title: Scientific Director
Additional Information: Dr Ali Abbasi was an employee of AbbVie at the time of study.

Position Description:

Additional Questions

1. Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?

No.

2. What is the manuscript title?

The Impact of Rare Disease Misdiagnosis or Underdiagnosis on Common Diseases in Clinical Cohorts

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Ammar Alsheikh

Discloser Identifier: 1185731

Disclosure Purpose: 24-05459

Summary of Interests

Company or Organization

Entity	Type	Interest Held By
AbbVie	Employment	Self
Title: Senior Scientist II Additional Information:		
AbbVie	Stock	Self
Additional Information:		

Additional Questions

1. **Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?**

No.

2. **What is the manuscript title?**

The Impact of Rare Disease Misdiagnosis or Underdiagnosis on Common Diseases in Clinical Cohorts

3. **Are you the corresponding author?**

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser

1253312

Identifier:

Disclosure

24-05459

Purpose:

Summary of Interests

Company or Organization

Entity	Type	Interest Held By
AbbVie, Inc.	Employment	Self
Title: Data Scientist III Additional Information:		Position Description: I am employed full-time as a data scientist by AbbVie, Inc.
Pfizer Inc.	Employment	Self
Title: Data Curator Additional Information: This employment ended prior to joining AbbVie		Position Description: I was employed as a data curator by Pfizer Inc

Additional Questions

1. Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?

No.

2. What is the manuscript title?

The Impact of Rare Disease Misdiagnosis or Underdiagnosis on Common Diseases in Clinical Cohorts

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Heath Guay

Discloser Identifier: 1185733

Disclosure Purpose: 24-05459

Summary of Interests

Company or Organization

Entity	Type	Interest Held By
AbbVie	Employment	Self
Title: Executive Director Additional Information:		Position Description: Head of Precision Medicine Immunology & Specialty Medicine
AbbVie	Stock	Self
Additional Information:		
AbbVie	Stock Option	Self
Additional Information:		

Additional Questions

1. **Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?**

No.

2. **What is the manuscript title?**

"The Impact of Rare Disease Misdiagnosis or Underdiagnosis on Common Diseases in Clinical Cohorts"

3. **Are you the corresponding author?**

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser

1185735

Identifier:

Disclosure

24-05459

Purpose:

Summary of Interests

Company or Organization

Entity	Type	Interest Held By
AbbVie, Inc.	Employment	Self
Title: Vice President Position Description: Lead Quantitative Medicine and Genomics (includes bioinformatics) Additional Information:		
AbbVie, Inc.	Stock	Self
Additional Information:		

Additional Questions

1. Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?

No.

2. What is the manuscript title?

The Impact of Rare Disease Misdiagnosis or Underdiagnosis on Common Diseases in Clinical Cohorts

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Benjamin Jacobs

Discloser 1253311
Identifier:

Disclosure 24-05459
Purpose:

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?

No.

2. What is the manuscript title?

Clinical Cohorts of Common Disease – Not What They Seem

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser Identifier: 1185729

Disclosure Purpose: 24-05459

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. **Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?**

No.

2. **What is the manuscript title?**

The Impact of Rare Disease Misdiagnosis or Underdiagnosis on Common Diseases in Clinical Cohorts

3. **Are you the corresponding author?**

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser Identifier: 1185730

Disclosure Purpose: 24-05459

Summary of Interests

Company or Organization

Entity	Type	Interest Held By
AbbVie	Employment	Self

Title:
Additional Information:

Position Description:

Additional Questions

1. Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?

No.

2. What is the manuscript title?

The Impact of Rare Disease Misdiagnosis or Underdiagnosis on Common Diseases in Clinical Cohorts

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser 1164307
Identifier:

Disclosure 24-05459
Purpose:

Summary of Interests

Company or Organization

Entity	Type	Interest Held By
AbbVie Inc.	Employment	Self
Title: Scientific Director, Precision Medicine Immunology Position Description: Head of gastroenterology group in precision medicine immunology Additional Information:		
AbbVie Inc.	Stock	Self
Additional Information:		
AbbVie Inc.	Stock Option	Self
Additional Information:		

Additional Questions

1. Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?

No.

2. What is the manuscript title?

The Impact of Rare Disease Misdiagnosis or Underdiagnosis on Common Diseases in Clinical Cohorts

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser Identifier: 1185727

Disclosure Purpose: 24-05459

Summary of Interests

Company or Organization

Entity	Type	Interest Held By
AbbVie Inc.	Employment	Self
Title: Principal Research Scientist Additional Information:		Position Description: Leads Human Genetics team responsible for genetic research that supports AbbVie's drug discovery and development pipeline.
AbbVie Inc.	Stock	Self
Additional Information:		

Additional Questions

1. Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?

No.

2. What is the manuscript title?

The Impact of Rare Disease Misdiagnosis or Underdiagnosis on Common Diseases in Clinical Cohorts

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser

854430

Identifier:

Disclosure

24-05459

Purpose:

Summary of Interests

Company or Organization

Entity	Type	Interest Held By
AbbVie	Employment	Self
Title: Director Position Description: Director in R & D Additional Information:		
AbbVie	Stock	Self
Additional Information:		

Additional Questions

1. Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?

No.

2. What is the manuscript title?

The Impact of Rare Disease Misdiagnosis or Underdiagnosis on Common Diseases in Clinical Cohorts

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser 741747
Identifier:

Disclosure 24-05459
Purpose:

Summary of Interests

Company or Organization

Entity	Type	Interest Held By
GlaxoSmithKline	Grant / Contract	Self
Recipient Name: Stephen Sawcer Grant / Contract Description: Fellowship Additional Information: Recipient Type: Individual Grant / Contract Purpose: Research		
HiberCell	Grant / Contract	Self
Recipient Name: Stephen Sawcer Grant / Contract Description: Grant Additional Information: Recipient Type: Individual Grant / Contract Purpose: Research		
Sanofi-Aventis	Other	Self
Category: Other Description: Speaker fee Additional Information:		

Additional Questions

1. Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?

No.

2. What is the manuscript title?

The Impact of Rare Disease Misdiagnosis or Underdiagnosis on Common Diseases in Clinical Cohorts

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Convey

Jóhann Sigurðsson

Discloser Identifier: 1185732

Disclosure Purpose: 24-05459

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. **Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?**

No.

2. **What is the manuscript title?**

The Impact of Rare Disease Misdiagnosis or Underdiagnosis on Common Diseases in Clinical Cohorts

3. **Are you the corresponding author?**

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser 1185736
Identifier:

Disclosure 24-05459
Purpose:

Summary of Interests

Company or Organization

Entity	Type	Interest Held By
AbbVie	Employment	Self
Title: Senior Scientific Director Position Description: •Translational research and drug discovery •Integration of genomic medicine to support clinical development •Clinical molecular diagnostics •Real World Data in clinical development and drug discovery Additional Information:		
AbbVie	Stock	Self
Additional Information:		

Additional Questions

1. Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?

No.

2. What is the manuscript title?

The Impact of Rare Disease Misdiagnosis or Underdiagnosis on Common Diseases in Clinical Cohorts

3. Are you the corresponding author?

Yes.

a. Please list the other authors' names here.

Fedik Rahimov, Benjamin M. Jacobs, John S. Lee, Naim A. Mahi, Andrew Blumenfeld, Ammar J. Alsheikh, Ali Abbasi, Mark Reppell, Valerie L. Pivorunas, Haukur J. Sigurðsson, Stephen Sawcer, Heath Guay, Jeffrey F. Waring, Howard J. Jacob, Nizar Smaoui

Certification

I certify that the information provided in this disclosure is complete and accurate.

Convey

Discloser 1185734
Identifier:

Disclosure 24-05459
Purpose:

Summary of Interests

Company or Organization

Entity	Type	Interest Held By
AbbVie	Employment	Self
Title: Senior Director Additional Information:		Position Description: Head of Genomics Research Center

Additional Questions

1. Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?

No.
2. What is the manuscript title?

The impact of rare disease misdiagnosis on common diseases in clinical cohorts
3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.