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“Interplay between age, *APOE* ϵ 4 and the metabolome in plasma and brain in Alzheimer’s disease”

ROSMAP brain tissue homogenization

Approximately 100 mg (wet tissue weight) of brain tissue (DLPFC) was homogenized in 8 M urea lysis buffer (8 M urea, 10 mM Tris, 100 mM NaHPO₄, pH 8.5) with HALT protease and phosphatase inhibitor cocktail (Thermo Fisher Scientific) using a Bullet Blender (NextAdvance). Each Rino sample tube (NextAdvance) was supplemented with ~100 μ l of stainless steel beads (0.9 to 2.0 mm blend, NextAdvance) and 500 μ l of lysis buffer. Tissues were added immediately after excision and samples were then placed into the bullet blender at 4 °C. The samples were homogenized for two full 5-min cycles and the lysates were transferred to new Eppendorf Lobind tubes. Each sample was then sonicated for three cycles consisting of 5 s of active sonication at 30% amplitude, followed by 15 s on ice. Samples were then centrifuged for 5 min at 15,000g and the supernatant was transferred to a new tube. Protein concentration was determined by bicinchoninic acid assay (Pierce). For protein digestion, 100 μ g of each sample was aliquoted and volumes were normalized with additional lysis buffer. An equal amount of protein from each sample was aliquoted and digested in parallel to serve as the global pooled internal standard (GIS) in each TMT batch, as described below. Samples were reduced with 1 mM dithiothreitol at room temperature for 30 min, followed by 5 mM iodoacetamide alkylation in the dark for another 30 min. Lysyl endopeptidase (Wako) at 1:100 dilution (w/w) was added and digestion was allowed to proceed overnight. Samples were then diluted sevenfold with 50 mM ammonium bicarbonate. Trypsin (Promega) was added at 1:50 dilution (w/w) and digestion was carried out for another 16 h. The peptide solutions were acidified to a final concentration of 1% (vol/vol) formic acid (FA) and 0.1% (vol/vol) trifluoroacetic acid (TFA), and desalted with a 30-mg HLB column (Oasis). Each HLB column was first rinsed with 1 ml of methanol, washed with 1 ml 50% (vol/vol) acetonitrile (ACN) and equilibrated with 2 \times 1 ml 0.1% (vol/vol) TFA. The samples were loaded onto the column and washed with 2 \times 1 ml 0.1% (vol/vol) TFA. Elution was performed with two volumes of 0.5 ml of 50% (vol/vol) CAN (1).

Metabolomics quantification in ROSMAP

Sample Accessioning: Following receipt, samples were inventoried and immediately stored at -80°C. Each sample received was accessioned into the Metabolon LIMS system and was

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assigned by the LIMS a unique identifier that was associated with the original source identifier only. This identifier was used to track all sample handling, tasks, results, etc. The samples (and all derived aliquots) were tracked by the LIMS system. All portions of any sample were automatically assigned their own unique identifiers by the LIMS when a new task was created; the relationship of these samples was also tracked. All samples were maintained at -80oC until processed.

Sample Preparation: Samples were prepared using the automated MicroLab STAR® system from Hamilton Company. Several recovery standards were added prior to the first step in the extraction process for QC purposes. To remove protein, dissociate small molecules bound to protein or trapped in the precipitated protein matrix, and to recover chemically diverse metabolites, proteins were precipitated with methanol under vigorous shaking for 2 min (Glen Mills GenoGrinder 2000) followed by centrifugation. The resulting extract was divided into five fractions: two for analysis by two separate reverse phase (RP)/UPLC-MS/MS methods with positive ion mode electrospray ionization (ESI), one for analysis by RP/UPLC-MS/MS with negative ion mode ESI, one for analysis by HILIC/UPLC-MS/MS with negative ion mode ESI, and one sample was reserved for backup. Samples were placed briefly on a TurboVap® (Zymark) to remove the organic solvent. The sample extracts were stored overnight under nitrogen before preparation for analysis.

QA/QC: Several types of controls were analyzed in concert with the experimental samples: a pooled matrix sample generated by taking a small volume of each experimental sample (or alternatively, use of a pool of well-characterized human plasma) served as a technical replicate throughout the data set; extracted water samples served as process blanks; and a cocktail of QC standards that were carefully chosen not to interfere with the measurement of endogenous compounds were spiked into every analyzed sample, allowed instrument performance monitoring and aided chromatographic alignment. Tables 1 and 2 describe these QC samples and standards. Instrument variability was determined by calculating the median relative standard deviation (RSD) for the standards that were added to each sample prior to injection into the mass spectrometers. Overall process variability was determined by calculating the median RSD for all endogenous metabolites (i.e., non-instrument standards) present in 100% of the pooled matrix samples. Experimental samples were randomized across the platform run with QC samples spaced evenly among the injections.

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Ultrahigh Performance Liquid Chromatography-Tandem Mass Spectroscopy (UPLC-MS/MS): All methods utilized a Waters ACQUITY ultra-performance liquid chromatography (UPLC) and a Thermo Scientific Q-Exactive high resolution/accurate mass spectrometer interfaced with a heated electrospray ionization (HESI-II) source and Orbitrap mass analyzer operated at 35,000 mass resolution. The sample extract was dried then reconstituted in solvents compatible to each of the four methods. Each reconstitution solvent contained a series of standards at fixed concentrations to ensure injection and chromatographic consistency. One aliquot was analyzed using acidic positive ion conditions, chromatographically optimized for more hydrophilic compounds. In this method, the extract was gradient eluted from a C18 column (Waters UPLC BEH C18-2.1x100 mm, 1.7 μ m) using water and methanol, containing 0.05% perfluoropentanoic acid (PFPA) and 0.1% formic acid (FA). Another aliquot was also analyzed using acidic positive ion conditions, however it was chromatographically optimized for more hydrophobic compounds. In this method, the extract was gradient eluted from the same afore mentioned C18 column using methanol, acetonitrile, water, 0.05% PFPA and 0.01% FA and was operated at an overall higher organic content. Another aliquot was analyzed using basic negative ion optimized conditions using a separate dedicated C18 column. The basic extracts were gradient eluted from the column using methanol and water, however with 6.5mM Ammonium Bicarbonate at pH 8. The fourth aliquot was analyzed via negative ionization following elution from a HILIC column (Waters UPLC BEH Amide 2.1x150 mm, 1.7 μ m) using a gradient consisting of water and acetonitrile with 10mM Ammonium Formate, pH 10.8. The MS analysis alternated between MS and data-dependent MS_n scans using dynamic exclusion. The scan range varied slightly between methods but covered 70-1000 m/z. Raw data files are archived and extracted as described below.

Bioinformatics: The informatics system consisted of four major components, the Laboratory Information Management System (LIMS), the data extraction and peak-identification software, data processing tools for QC and compound identification, and a collection of information interpretation and visualization tools for use by data analysts. The hardware and software foundations for these informatics components were the LAN backbone, and a database server running Oracle 10.2.0.1 Enterprise Edition.

LIMS: The purpose of the Metabolon LIMS system was to enable fully auditable laboratory automation through a secure, easy to use, and highly specialized system. The scope of the

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Metabolon LIMS system encompasses sample accessioning, sample preparation and instrumental analysis and reporting and advanced data analysis. All of the subsequent software systems are grounded in the LIMS data structures. It has been modified to leverage and interface with the in-house information extraction and data visualization systems, as well as third party instrumentation and data analysis software.

Data Extraction and Compound Identification: Raw data was extracted, peak-identified and QC processed using Metabolon's hardware and software. These systems are built on a web-service platform utilizing Microsoft's .NET technologies, which run on high-performance application servers and fiber-channel storage arrays in clusters to provide active failover and load-balancing. Compounds were identified by comparison to library entries of purified standards or recurrent unknown entities. Metabolon maintains a library based on authenticated standards that contains the retention time/index (RI), mass to charge ratio (m/z), and chromatographic data (including MS/MS spectral data) on all molecules present in the library. Furthermore, biochemical identifications are based on three criteria: retention index within a narrow RI window of the proposed identification, accurate mass match to the library +/- 10 ppm, and the MS/MS forward and reverse scores between the experimental data and authentic standards. The MS/MS scores are based on a comparison of the ions present in the experimental spectrum to the ions present in the library spectrum. While there may be similarities between these molecules based on one of these factors, the use of all three data points can be utilized to distinguish and differentiate biochemicals. More than 3300 commercially available purified standard compounds have been acquired and registered into LIMS for analysis on all platforms for determination of their analytical characteristics. Additional mass spectral entries have been created for structurally unnamed biochemicals, which have been identified by virtue of their recurrent nature (both chromatographic and mass spectral). These compounds have the potential to be identified by future acquisition of a matching purified standard or by classical structural analysis.

Curation: A variety of curation procedures were carried out to ensure that a high quality data set was made available for statistical analysis and data interpretation. The QC and curation processes were designed to ensure accurate and consistent identification of true chemical entities, and to remove those representing system artifacts, mis-assignments, and background noise. Metabolon data analysts use proprietary visualization and interpretation software to

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confirm the consistency of peak identification among the various samples. Library matches for each compound were checked for each sample and corrected if necessary.

Metabolite Quantification and Data Normalization: Peaks were quantified using area-under-the-curve. For studies spanning multiple days, a data normalization step was performed to correct variation resulting from instrument inter-day tuning differences. Essentially, each compound was corrected in run-day blocks by registering the medians to equal one (1.00) and normalizing each data point proportionately.

For studies that did not require more than one day of analysis, no normalization is necessary, other than for purposes of data visualization. In certain instances, biochemical data may have been normalized to an additional factor (e.g., cell counts, total protein as determined by Bradford assay, osmolality, etc.) to account for differences in metabolite levels due to differences in the amount of material present in each sample

Proteomics quantification in ROSMAP

Isobaric TMT peptide labeling of ROS/MAP brain tissues

Before TMT labeling, individuals were randomized by covariates (such as age, sex, PMI and diagnosis), into 50 total batches (eight individuals per batch). Peptides from each individual ($n = 400$) and the GIS pooled standard ($n = 100$) were labeled using the TMT 10-plex kit (Thermo Fisher Scientific, 90406). In each batch, TMT channels 126 and 131 were used to label GIS standards, while the eight middle TMT channels were reserved for individual samples following randomization. Labeling was performed as previously described (2, 3). Briefly, each sample (containing 100 μg of peptides) was resuspended in 100 mM triethylammonium bicarbonate (TEAB) buffer (100 μl). The TMT labeling reagents were equilibrated to room temperature and anhydrous ACN (256 μl) was added to each reagent channel. Each channel was gently vortexed for 5 min and 41 μl from each TMT channel was transferred to the peptide solutions and allowed to incubate for 1 h at room temperature. The reaction was quenched with 5% (vol/vol) hydroxylamine (8 μl) (Pierce). All ten channels were combined and dried by SpeedVac (LabConco) to approximately 150 μl and diluted with 1 ml of 0.1% (vol/vol) TFA, then acidified to a final concentration of 1% (vol/vol) FA and 0.1% (vol/vol) TFA. Peptides were desalted with a 200-mg C18 Sep-Pak column (Waters). Each Sep-Pak column was activated with 3 ml of methanol, washed with 3 ml of 50% (vol/vol) ACN and equilibrated with 2×3 ml of 0.1% TFA. The samples were loaded and

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each column was washed with 2×3 ml 0.1% (vol/vol) TFA, followed by 2 ml of 1% (vol/vol) FA. Elution was performed with two volumes of 1.5 ml of 50% (vol/vol) ACN. The eluates were then dried to completeness using a SpeedVac.

TMT-MS of ROS/MAP brain tissues

All fractions were resuspended in an equal volume of loading buffer (0.1% FA, 0.03% TFA, 1% ACN) and analyzed by liquid chromatography coupled to tandem MS essentially as described (4), with slight modifications. Peptide eluents were separated on a self-packed C18 (1.9 μm , provided by Dr Maisch) fused silica column (25 cm \times 75 μM internal diameter; New Objective) by an Dionex UltiMate 3000 RSLCnano liquid chromatography system (Thermo Fisher Scientific) and monitored on an Orbitrap Fusion mass spectrometer (Thermo Fisher Scientific). Sample elution was performed over a 180-min gradient with flow rate at 225 nl min^{-1} . The gradient was from 3% to 7% buffer B over 5 min, then 7% to 30% over 140 min, then 30% to 60% over 5 min, then 60% to 99% over 2 min, then held constantly at 99% solvent B for 8 min and then back to 1% B for an additional 20 min to equilibrate the column. Buffer A was water with 0.1% (vol/vol) FA and buffer B was 80% (vol/vol) acetonitrile in water with 0.1% (vol/vol) FA. The mass spectrometer was set to acquire in data-dependent mode using the top speed workflow with a cycle time of 3 s. Each cycle consisted of one full scan followed by as many MS/MS (MS2) scans that could fit within the time window. The full scan (MS1) was performed with an m/z range of 350–1,500 at 120,000 resolution (at 200 m/z) with AGC set at 4×10^5 and maximum injection time of 50 ms. The most intense ions were selected for higher energy collision-induced dissociation at 38% collision energy with an isolation of 0.7 m/z , a resolution of 30,000, an AGC setting of 5×10^4 and a maximum injection time of 100 ms. Five of the 50 TMT batches were run on the Orbitrap Fusion mass spectrometer using the synchronous precursor selection-based (SPS)-MS3 method as previously described (3).

TMT ROSMAP database searches and protein quantification

All RAW files (1,200 RAW files generated from 50 TMT 10-plexes) were analyzed using the Proteome Discoverer suite (v.2.3, Thermo Fisher Scientific). MS2 spectra were searched against the UniProtKB human proteome database containing both Swiss-Prot and TrEMBL human reference protein sequences (90,411 target sequences downloaded on 21 April 2015), plus 245 contaminant proteins. The Sequest HT search engine was used and parameters were

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specified as follows: fully tryptic specificity, maximum of two missed cleavages, minimum peptide length of six, fixed modifications for TMT tags on lysine residues and peptide N-termini (+229.162932 Da) and carbamidomethylation of cysteine residues (+57.02146 Da), variable modifications for oxidation of methionine residues (+15.99492 Da) and deamidation of asparagine and glutamine (+0.984 Da), precursor mass tolerance of 20 ppm and a fragment mass tolerance of 0.05 Da for MS2 spectra collected in the Orbitrap (0.5 Da for the MS2 from the SPS-MS3 batches). Percolator was used to filter peptide spectral matches and peptides to an FDR <1%. Following spectral assignment, peptides were assembled into proteins and were further filtered based on the combined probabilities of their constituent peptides to a final FDR of 1%. In cases of redundancy, shared peptides were assigned to the protein sequence in adherence with the principles of parsimony. Reporter ions were quantified from MS2 or MS3 scans using an integration tolerance of 20 ppm with the most confident centroid setting (1).

References

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Supplementary Figure legends

Supplementary Figure 1: Common and unique metabolites associated with dementia, AD and VAD.

Supplementary Figure 2: Results of sensitivity analysis excluding all cardio-vascular and kidney pathologies. Z-scores from association analysis are plotted.

Supplementary Figure 3: Leave one out analysis in Mendelian Randomisation (MR). Last two variants (APOE locus) explain the significant MR.

Supplementary Figure 4: β -hydroxybutyrate levels over age in across different APOE genotypes. Sensitivity analysis excluding all prevalent and incident patients of non-communicable diseases. All differences are significant except for the age range 67-73.

Supplementary Figure 5: Results of protein pathway analysis in REACTOME. Overlapping pathways with APOE are shown.

Supplementary Figure 6: Results of protein pathway analysis in KEGG. Overlapping pathways with APOE are shown.

Supplementary Figure 7: Enriched cell components. Overlapping cellular components with APOE are shown.

Supplementary Table 1: Results of association analysis of metabolites with dementia, AD and VAD

Metabolite	Dementia						AD						VAD					
	Beta	HR	SE	lower	upper	FDR	Beta	HR	SE	lower	upper	FDR	Beta	HR	SE	lower	upper	FDR
valine	-0.7716	0.4623	0.1156	0.3685	0.5798	2.15E-09	-0.9556	0.3846	0.1679	0.2768	0.5344	1.87E-06	-0.6632	0.5152	0.2249	0.3315	0.8007	2.39E-02
free_cholesterol_in_very_large_hdl	0.5337	1.7052	0.0738	1.4755	1.9707	8.36E-11	0.6048	1.8309	0.1080	1.4815	2.2628	1.87E-06	0.7614	2.1413	0.1436	1.6161	2.8372	1.96E-05
cholesterol_in_very_large_hdl	0.3510	1.4204	0.0551	1.2750	1.5825	8.23E-09	0.4007	1.4928	0.0815	1.2725	1.7512	4.99E-05	0.4689	1.5982	0.1059	1.2987	1.9667	2.73E-04
total_concentration_of_branched_chain_amino_acids_leucine_plus_isoleucine_plus_valine	-0.5517	0.5760	0.0998	0.4737	0.7004	6.90E-07	-0.6897	0.5017	0.1450	0.3776	0.6667	5.52E-05	-0.4538	0.6352	0.1938	0.4345	0.9287	6.88E-02
phospholipids_in_chylomicrons_and_extremely_large_vldl	-0.0384	0.9623	0.0112	0.9415	0.9837	2.17E-03	-0.0709	0.9315	0.0150	0.9046	0.9593	5.52E-05	-0.0093	0.9907	0.0238	0.9455	1.0380	8.36E-01
triglycerides_in_very_large_vldl	-0.0932	0.9110	0.0189	0.8779	0.9454	7.81E-06	-0.1214	0.8857	0.0252	0.8430	0.9305	5.52E-05	-0.0455	0.9555	0.0414	0.8810	1.0364	4.55E-01
triglycerides_in_small_vldl	-0.3118	0.7321	0.0576	0.6540	0.8196	1.17E-06	-0.3926	0.6753	0.0830	0.5739	0.7946	5.52E-05	-0.1790	0.8361	0.1131	0.6698	1.0437	2.33E-01
concentration_of_very_large_hdl_particle	0.3627	1.4371	0.0597	1.2785	1.6155	4.26E-08	0.4084	1.5044	0.0875	1.2673	1.7858	6.54E-05	0.5137	1.6714	0.1147	1.3349	2.0927	2.58E-04
total_lipids_in_very_large_hdl	0.3188	1.3755	0.0493	1.2487	1.5152	5.97E-09	0.3360	1.3994	0.0728	1.2134	1.6138	7.39E-05	0.4302	1.5376	0.0945	1.2775	1.8506	2.58E-04
average_diameter_for_vldl_particles	-3.9112	0.0200	0.6737	0.0053	0.0750	1.84E-07	-4.4348	0.0119	0.9903	0.0017	0.0826	1.29E-04	-3.0455	0.0476	1.2779	0.0039	0.5822	6.42E-02
triglycerides_to_phosphoglycerides_ratio	-0.2680	0.7649	0.0590	0.6814	0.8587	3.30E-05	-0.3799	0.6840	0.0854	0.5785	0.8086	1.36E-04	-0.1572	0.8545	0.1151	0.6820	1.0707	3.18E-01
triglycerides_in_small_hdl	-0.3344	0.7157	0.0643	0.6310	0.8119	2.42E-06	-0.4039	0.6677	0.0912	0.5584	0.7984	1.36E-04	-0.2284	0.7958	0.1291	0.6179	1.0249	1.74E-01
concentration_of_chylomicrons_and_extremely_large_vldl_particles	-0.0509	0.9503	0.0154	0.9221	0.9794	2.82E-03	-0.0935	0.9107	0.0213	0.8735	0.9496	1.53E-04	-0.0017	0.9983	0.0317	0.9382	1.0623	9.87E-01
triglycerides_in_vldl	-0.2068	0.8132	0.0418	0.7493	0.8825	7.44E-06	-0.2625	0.7692	0.0607	0.6829	0.8663	1.87E-04	-0.0857	0.9178	0.0809	0.7832	1.0756	4.66E-01
triglycerides_in_medium_vldl	-0.2649	0.7673	0.0472	0.6996	0.8416	4.76E-07	-0.2869	0.7506	0.0673	0.6579	0.8564	2.32E-04	-0.1527	0.8584	0.0949	0.7128	1.0338	2.24E-01
total_lipids_in_very_large_vldl	-0.1179	0.8887	0.0259	0.8448	0.9350	3.23E-05	-0.1556	0.8559	0.0367	0.7964	0.9198	2.46E-04	-0.0401	0.9607	0.0523	0.8672	1.0643	6.35E-01
free_cholesterol_in_chylomicrons_and_extremely_large_vldl	-0.0702	0.9322	0.0215	0.8936	0.9724	3.26E-03	-0.1264	0.8813	0.0301	0.8308	0.9349	2.74E-04	0.0084	1.0085	0.0442	0.9248	1.0998	9.30E-01
triglycerides_in_large_vldl	-0.1723	0.8417	0.0320	0.7905	0.8962	1.26E-06	-0.1874	0.8291	0.0451	0.7589	0.9058	3.16E-04	-0.0956	0.9088	0.0667	0.7975	1.0358	2.97E-01
total_lipids_in_chylomicrons_and_extremely_large_vldl	-0.0487	0.9525	0.0177	0.9200	0.9861	1.44E-02	-0.1012	0.9038	0.0249	0.8608	0.9489	4.21E-04	0.0112	1.0113	0.0358	0.9427	1.0848	8.63E-01
total_triglycerides	-0.2387	0.7877	0.0520	0.7114	0.8722	2.95E-05	-0.3025	0.7389	0.0758	0.6369	0.8573	5.68E-04	-0.0774	0.9255	0.1001	0.7606	1.1262	6.35E-01
triglycerides_in_chylomicrons_and_extremely_large_vldl	-0.0170	0.9831	0.0087	0.9665	1.0000	9.18E-02	-0.0452	0.9558	0.0114	0.9347	0.9775	6.27E-04	0.0024	1.0024	0.0182	0.9673	1.0387	9.58E-01
sphingomyelins	0.4705	1.6007	0.1493	1.1945	2.1451	4.53E-03	0.8572	2.3567	0.2183	1.5362	3.6154	6.46E-04	1.0282	2.7960	0.2888	1.5874	4.9248	3.55E-03
total_lipids_in_large_vldl	-0.1757	0.8389	0.0354	0.7826	0.8992	7.44E-06	-0.2006	0.8182	0.0510	0.7404	0.9043	6.46E-04	-0.0831	0.9203	0.0699	0.8024	1.0554	4.03E-01
leucine	-0.3890	0.6777	0.0823	0.5767	0.7964	1.81E-05	-0.4664	0.6272	0.1194	0.4963	0.7926	6.46E-04	-0.3568	0.6999	0.1602	0.5113	0.9581	8.18E-02
concentration_of_very_large_vldl_particle	-0.1144	0.8919	0.0250	0.8493	0.9366	2.95E-05	-0.1385	0.8707	0.0354	0.8124	0.9332	6.46E-04	-0.0515	0.9498	0.0507	0.8599	1.0492	4.90E-01
x3_hydroxybutyrate	0.0976	1.1025	0.0282	1.0432	1.1652	2.08E-03	0.1594	1.1727	0.0413	1.0816	1.2715	7.18E-04	0.1473	1.1587	0.0583	1.0336	1.2989	5.18E-02
free_cholesterol_in_idl	0.2933	1.3408	0.0877	1.1291	1.5922	2.72E-03	0.5002	1.6490	0.1295	1.2793	2.1254	7.18E-04	0.7148	2.0438	0.1687	1.4683	2.8449	4.88E-04
concentration_of_large_vldl_particle	-0.1678	0.8455	0.0354	0.7889	0.9061	1.69E-05	-0.1894	0.8274	0.0509	0.7489	0.9142	1.21E-03	-0.0733	0.9293	0.0699	0.8103	1.0659	4.69E-01
cholesterol_in_chylomicrons_and_extremely_large_vldl	-0.0649	0.9371	0.0222	0.8973	0.9787	8.98E-03	-0.1141	0.8922	0.0312	0.8392	0.9484	1.51E-03	0.0131	1.0132	0.0451	0.9275	1.1067	8.67E-01
triglycerides_in_medium_hdl	-0.2610	0.7703	0.0606	0.6841	0.8674	9.11E-05	-0.3163	0.7288	0.0868	0.6148	0.8640	1.54E-03	-0.1582	0.8536	0.1197	0.6752	1.0793	3.33E-01
cholesterol_in_idl	0.2377	1.2684	0.0884	1.0666	1.5083	1.69E-02	0.4728	1.6045	0.1305	1.2423	2.0723	1.62E-03	0.6167	1.8528	0.1697	1.3286	2.5839	3.10E-03
free_cholesterol_in_large_vldl	-0.1530	0.8581	0.0334	0.8037	0.9162	2.95E-05	-0.1689	0.8446	0.0479	0.7689	0.9278	2.29E-03	-0.0636	0.9384	0.0670	0.8229	1.0702	5.22E-01
cholesteryl_esters_in_idl	0.2123	1.2365	0.0875	1.0416	1.4680	3.20E-02	0.4515	1.5706	0.1293	1.2190	2.0236	2.50E-03	0.5663	1.7618	0.1678	1.2679	2.4480	6.37E-03
average_diameter_for_hdl_particles	5.4519	233.2012	1.1441	24.7688	2.20E+03	1.62E-05	5.5586	259.4480	1.6397	10.4317	6.45E+03	3.54E-03	5.9461	382.2510	2.2556	4.5956	3.18E+04	4.65E-02
triglycerides_in_hdl	-0.2570	0.7733	0.0676	0.6773	0.8829	6.88E-04	-0.3197	0.7264	0.0977	0.5998	0.8797	5.25E-03	-0.1272	0.8806	0.1322	0.6796	1.1410	5.18E-01
concentration_of_idl_particles	0.2385	1.2693	0.0930	1.0578	1.5233	2.26E-02	0.4408	1.5540	0.1354	1.1917	2.0263	5.41E-03	0.7881	2.1991	0.1796	1.5466	3.1269	2.81E-04
total_lipids_in_idl	0.2470	1.2801	0.0982	1.0559	1.5520	2.57E-02	0.4666	1.5945	0.1441	1.2022	2.1148	5.59E-03	0.7254	2.0656	0.1890	1.4261	2.9917	1.94E-03
free_cholesterol_in_small_idl	0.1445	1.1555	0.0776	0.9924	1.3454	1.12E-01	0.3793	1.4612	0.1203	1.1544	1.8496	7.11E-03	0.4029	1.4961	0.1569	1.1000	2.0348	4.93E-02

cholesterol_in_large_hdl	0.1431	1.1539	0.0389	1.0691	1.2453	1.04E-03	0.1853	1.2036	0.0587	1.0729	1.3502	7.11E-03	0.1615	1.1752	0.0729	1.0187	1.3559	8.18E-02
free_cholesterol_in_very_large_vldl	-0.0910	0.9130	0.0267	0.8665	0.9620	2.23E-03	-0.1183	0.8884	0.0377	0.8251	0.9567	7.11E-03	-0.0007	0.9993	0.0548	0.8975	1.1125	9.94E-01
total_lipids_in_large_hdl	0.1844	1.2025	0.0498	1.0906	1.3259	9.76E-04	0.2292	1.2576	0.0732	1.0896	1.4516	7.11E-03	0.2099	1.2336	0.0953	1.0235	1.4868	8.18E-02
cholesteryl_esters_in_large_hdl	0.1336	1.1430	0.0382	1.0605	1.2319	1.88E-03	0.1815	1.1991	0.0578	1.0706	1.3429	7.11E-03	0.1412	1.1517	0.0713	1.0015	1.3245	1.22E-01
triglycerides_in_very_small_vldl	-0.2249	0.7986	0.0742	0.6905	0.9236	6.55E-03	-0.3345	0.7157	0.1075	0.5797	0.8836	7.47E-03	0.0385	1.0393	0.1444	0.7831	1.3793	8.82E-01
isoleucine	-0.1835	0.8324	0.0638	0.7346	0.9432	1.03E-02	-0.2853	0.7518	0.0922	0.6276	0.9006	7.50E-03	-0.0385	0.9622	0.1248	0.7534	1.2290	8.63E-01
phospholipids_in_very_large_vldl	-0.0538	0.9476	0.0162	0.9180	0.9781	2.76E-03	-0.0694	0.9329	0.0224	0.8929	0.9748	7.50E-03	-0.0127	0.9874	0.0344	0.9229	1.0563	8.44E-01
cholesteryl_esters_in_chylomicrons_and_extremely_large_vldl	-0.0545	0.9470	0.0212	0.9084	0.9872	2.26E-02	-0.0924	0.9117	0.0300	0.8597	0.9669	7.70E-03	0.0148	1.0149	0.0429	0.9330	1.1040	8.54E-01
cholesterol_in_large_vldl	-0.1463	0.8639	0.0358	0.8053	0.9267	2.38E-04	-0.1581	0.8537	0.0515	0.7718	0.9444	7.82E-03	-0.0461	0.9549	0.0720	0.8292	1.0997	6.87E-01
free_cholesterol_in_ldl	0.1228	1.1306	0.0802	0.9662	1.3231	2.02E-01	0.3746	1.4544	0.1230	1.1428	1.8510	8.35E-03	0.3980	1.4888	0.1591	1.0900	2.0335	5.19E-02
phospholipids_in_large_vldl	-0.0621	0.9398	0.0155	0.9117	0.9689	3.32E-04	-0.0653	0.9368	0.0216	0.8979	0.9774	8.74E-03	-0.0534	0.9480	0.0317	0.8910	1.0087	1.97E-01
phospholipids_in_ldl	0.2920	1.3391	0.1027	1.0950	1.6376	1.13E-02	0.4539	1.5745	0.1501	1.1732	2.1130	8.74E-03	0.8277	2.2880	0.1977	1.5530	3.3708	5.42E-04
phospholipids_in_small_hdl	-0.8122	0.4439	0.1545	0.3279	0.6009	1.94E-06	-0.6835	0.5048	0.2269	0.3236	0.7876	8.74E-03	-0.6209	0.5374	0.2948	0.3016	0.9577	9.75E-02
total_lipids_in_vldl	-0.1881	0.8285	0.0521	0.7481	0.9177	1.30E-03	-0.2262	0.7975	0.0759	0.6873	0.9255	9.51E-03	0.0131	1.0132	0.1009	0.8314	1.2348	9.58E-01
free_cholesterol_in_large_hdl	0.1484	1.1599	0.0381	1.0764	1.2499	4.87E-04	0.1712	1.1868	0.0576	1.0600	1.3287	9.61E-03	0.2082	1.2315	0.0726	1.0682	1.4197	2.83E-02
triglycerides_in_small_ldl	-0.2129	0.8082	0.0653	0.7111	0.9186	3.26E-03	-0.2791	0.7564	0.0961	0.6266	0.9132	1.17E-02	0.0321	1.0326	0.1236	0.8105	1.3157	8.82E-01
cholesterol_in_very_large_vldl	-0.1065	0.8989	0.0312	0.8456	0.9557	2.23E-03	-0.1294	0.8786	0.0447	0.8050	0.9589	1.17E-02	-0.0014	0.9986	0.0633	0.8820	1.1305	9.94E-01
cholesteryl_esters_in_very_large_hdl	0.2098	1.2334	0.0456	1.1279	1.3488	2.95E-05	0.1911	1.2106	0.0671	1.0615	1.3808	1.35E-02	0.3099	1.3633	0.0895	1.1439	1.6247	4.86E-03
total_lipids_in_small_hdl	-0.8449	0.4296	0.1581	0.3151	0.5856	1.29E-06	-0.6558	0.5190	0.2319	0.3295	0.8177	1.41E-02	-0.6761	0.5086	0.3023	0.2812	0.9198	8.18E-02
phospholipids_in_large_hdl	0.1763	1.1927	0.0528	1.0755	1.3228	2.75E-03	0.2183	1.2440	0.0775	1.0688	1.4480	1.43E-02	0.2135	1.2381	0.1018	1.0140	1.5115	9.83E-02
concentration_of_large_hdl_particle	0.1426	1.1533	0.0414	1.0635	1.2507	2.08E-03	0.1688	1.1838	0.0619	1.0486	1.3365	1.86E-02	0.1709	1.1864	0.0776	1.0190	1.3812	8.18E-02
cholesteryl_esters_in_large_vldl	-0.1324	0.8760	0.0372	0.8143	0.9423	1.54E-03	-0.1393	0.8700	0.0536	0.7832	0.9663	2.68E-02	-0.0251	0.9752	0.0752	0.8416	1.1301	8.54E-01
omega_3_fatty_acids	-0.2739	0.7604	0.0512	0.6878	0.8406	1.29E-06	-0.1934	0.8242	0.0751	0.7114	0.9548	2.76E-02	-0.0947	0.9096	0.1021	0.7447	1.1111	5.33E-01
total_lipids_in_small_vldl	-0.2286	0.7956	0.0674	0.6972	0.9079	2.32E-03	-0.2519	0.7773	0.0975	0.6421	0.9411	2.76E-02	0.0214	1.0216	0.1319	0.7888	1.3231	9.43E-01
phospholipids_in_small_ldl	0.1535	1.1659	0.1023	0.9541	1.4249	2.13E-01	0.3858	1.4708	0.1500	1.0962	1.9735	2.76E-02	0.6271	1.8722	0.1995	1.2664	2.7678	1.37E-02
cholesteryl_esters_in_very_large_vl	-0.1072	0.8983	0.0329	0.8422	0.9583	3.26E-03	-0.1201	0.8868	0.0473	0.8083	0.9729	2.97E-02	0.0048	1.0049	0.0675	0.8804	1.1469	9.87E-01
concentration_of_small_vldl_particle	-0.2169	0.8050	0.0653	0.7083	0.9148	2.77E-03	-0.2398	0.7868	0.0946	0.6537	0.9470	2.97E-02	0.0097	1.0098	0.1276	0.7864	1.2967	9.87E-01
omega_6_fatty_acids_to_omega_3_fatty_acids_ratio	0.2876	1.3332	0.0581	1.1898	1.4940	7.44E-06	0.2119	1.2361	0.0844	1.0477	1.4583	3.13E-02	0.1524	1.1646	0.1148	0.9301	1.4584	3.33E-01
clinical_ldl_cholesterol	0.0671	1.0694	0.0725	0.9277	1.2326	4.55E-01	0.2720	1.3126	0.1089	1.0604	1.6249	3.16E-02	0.3427	1.4087	0.1407	1.0691	1.8561	5.95E-02
phospholipids_in_large_ldl	0.0912	1.0955	0.0961	0.9075	1.3225	4.46E-01	0.3532	1.4237	0.1414	1.0790	1.8784	3.16E-02	0.4771	1.6114	0.1860	1.1191	2.3203	4.93E-02
cholesteryl_esters_in_very_small_vl	0.2620	1.2995	0.0816	1.1075	1.5248	3.73E-03	0.2975	1.3464	0.1194	1.0655	1.7015	3.18E-02	0.7169	2.0481	0.1571	1.5054	2.7863	2.58E-04
free_cholesterol_in_hdl	0.2185	1.2441	0.1028	1.0171	1.5218	6.56E-02	0.3667	1.4429	0.1492	1.0771	1.9330	3.43E-02	0.3642	1.4393	0.1984	0.9756	2.1236	1.52E-01
free_cholesterol_in_medium_ldl	0.0521	1.0535	0.0690	0.9203	1.2059	5.49E-01	0.2782	1.3207	0.1146	0.9205	1.6533	3.69E-02	0.2810	1.3244	0.1481	0.9908	1.7703	1.37E-01
total_esterified_cholesterol	0.1145	1.1214	0.1137	0.8974	1.4012	4.18E-01	0.4017	1.4944	0.1675	1.0761	2.0753	3.94E-02	0.5495	1.7324	0.2188	1.1282	2.6602	5.18E-02
hdl_cholesterol	0.1693	1.1844	0.1029	0.9680	1.4492	1.67E-01	0.3541	1.4249	0.1494	1.0631	1.9099	4.14E-02	0.1798	1.1970	0.1995	0.8095	1.7698	5.45E-01
free_cholesterol_in_large_ldl	0.1023	1.1077	0.0786	0.9495	1.2923	2.82E-01	0.2927	1.3401	0.1233	1.0523	1.7065	4.14E-02	0.4275	1.5334	0.1603	1.1201	2.0992	4.64E-02
phospholipids_in_vldl	-0.1577	0.8541	0.0545	0.7676	0.9504	9.90E-03	-0.1857	0.8306	0.0792	0.7111	0.9701	4.38E-02	0.0768	1.0798	0.1062	0.8769	1.3296	6.51E-01
cholesteryl_esters_in_hdl	0.1505	1.1624	0.1013	0.9531	1.4176	2.14E-01	0.3406	1.4058	0.1472	1.0534	1.8761	4.68E-02	0.1223	1.1301	0.1963	0.7692	1.6605	6.87E-01
monounsaturated_fatty_acids	-0.2193	0.8031	0.0798	0.6867	0.9391	1.44E-02	-0.2698	0.7635	0.1178	0.6061	0.9617	4.90E-02	0.0920	1.0963	0.1495	0.8179	1.4695	6.87E-01
total_cholesterol	0.1060	1.1118	0.1125	0.8919	1.3859	4.48E-01	0.3700	1.4477	0.1655	1.0467	2.0023	5.59E-02	0.5631	1.7561	0.2165	1.1488	2.6842	4.93E-02
phospholipids_in_ldl	0.0502	1.0515	0.0951	0.8726	1.2670	6.72E-01	0.3058	1.3577	0.1398	1.0324	1.7855	6.19E-02	0.4360	1.5466	0.1845	1.0772	2.2204	6.63E-02
total_lipids_in_large_ldl	0.0533	1.0548	0.0924	0.8801	1.2641	6.55E-01	0.2978	1.3469	0.1365	1.0307	1.7602	6.19E-02	0.4068	1.5021	0.1786	1.0584	2.1318	7.56E-02
cholesterol_in_large_ldl	0.0594	1.0612	0.0766	0.9133	1.2331	5.42E-01	0.2808	1.3242	0.1287	1.0290	1.7041	6.19E-02	0.3560	1.4275	0.1675	1.0280	1.9823	9.47E-02
phospholipids_in_very_large_hdl	0.1184	1.1257	0.0297	1.0621	1.1932	3.36E-04	0.0924	1.0968	0.0430	1.0082	1.1931	6.62E-02	0.2362	1.2665	0.0644	1.1162	1.4370	3.10E-03
polyunsaturated_fatty_acids_to_monounsaturated_fatty_acids_ratio	0.1294	1.1381	0.1144	0.9095	1.4242	3.61E-01	0.3621	1.4364	0.1705	1.0284	2.0063	6.98E-02	-0.0821	0.9212	0.2128	0.6070	1.3980	8.36E-01
total_lipids_in_medium_vldl	-0.1948	0.8230	0.0564	0.7369	0.9191	2.08E-03	-0.1731	0.8411	0.0824	0.7156	0.9885	7.32E-02	0.0067	1.0068	0.1092	0.8128	1.2470	9.87E-01
cholesterol_in_very_small_vldl	0.2401	1.2713	0.0851	1.0761	1.5020	1.19E-02	0.2590	1.2956	0.1241	1.0159	1.6524	7.47E-02	0.7359	2.0873	0.1641	1.5133	2.8791	2.58E-04

creatinine	-0.0641	0.9379	0.1192	0.7424	1.1849	6.69E-01	-0.3655	0.6939	0.1787	0.4888	0.9848	8.16E-02	0.0753	1.0782	0.2217	0.6983	1.6648	8.54E-01
ldl_cholesterol	0.0258	1.0262	0.0728	0.8898	1.1835	7.57E-01	0.2396	1.2707	0.1266	0.9914	1.6286	1.15E-01	0.3251	1.3842	0.1653	1.0012	1.9137	1.24E-01
concentration_of_small_hdl_particle	-0.7681	0.4639	0.1576	0.3406	0.6317	9.86E-06	-0.4376	0.6456	0.2314	0.4102	1.0161	1.15E-01	-0.6884	0.5024	0.3025	0.2777	0.9089	7.56E-02
acetone	0.1818	1.1994	0.0701	1.0454	1.3761	2.12E-02	0.1849	1.2031	0.1012	0.9867	1.4670	1.29E-01	0.2739	1.3151	0.1362	1.0070	1.7174	1.15E-01
cholesteryl_esters_in_medium_vldl	0.0578	1.0595	0.0344	0.9904	1.1334	1.57E-01	0.1007	1.1060	0.0550	0.9930	1.2319	1.29E-01	0.1581	1.1713	0.0678	1.0255	1.3378	6.94E-02
total_lipids_in_ldl	0.0096	1.0096	0.0906	0.8453	1.2059	9.26E-01	0.2434	1.2756	0.1338	0.9814	1.6579	1.30E-01	0.3649	1.4404	0.1754	1.0213	2.0314	1.01E-01
phenylalanine	-0.0357	0.9650	0.0934	0.8036	1.1587	7.46E-01	-0.2438	0.7836	0.1352	0.6012	1.0214	1.33E-01	-0.0013	0.9987	0.1822	0.6988	1.4272	9.94E-01
total_free_cholesterol	0.0814	1.0848	0.1069	0.8797	1.3375	5.49E-01	0.2797	1.3228	0.1567	0.9730	1.7984	1.37E-01	0.5712	1.7704	0.2056	1.1831	2.6492	3.56E-02
cholesteryl_esters_in_large_ldl	0.0296	1.0301	0.0739	0.8911	1.1907	7.36E-01	0.2273	1.2552	0.1279	0.9768	1.6129	1.38E-01	0.3176	1.3739	0.1673	0.9897	1.9072	1.37E-01
free_cholesterol_in_vldl	-0.1349	0.8738	0.0565	0.7822	0.9761	3.50E-02	-0.1446	0.8654	0.0822	0.7366	1.0167	1.42E-01	0.1188	1.1261	0.1103	0.9073	1.3978	4.65E-01
triglycerides_in_medium_ldl	-0.1860	0.8302	0.0757	0.7158	0.9630	2.97E-02	-0.1905	0.8266	0.1110	0.6650	1.0274	1.54E-01	0.1012	1.1064	0.1433	0.8356	1.4651	6.55E-01
total_cholesterol_minus_hdl_c	0.0304	1.0309	0.0868	0.8696	1.2221	7.57E-01	0.2148	1.2396	0.1275	0.9654	1.5916	1.62E-01	0.4216	1.5244	0.1677	1.0974	2.1174	5.18E-02
triglycerides_in_ldl	-0.1405	0.8689	0.0891	0.7297	1.0347	1.90E-01	-0.2191	0.8032	0.1300	0.6226	1.0362	1.62E-01	0.2604	1.2974	0.1704	0.9291	1.8117	2.53E-01
total_fatty_acids	-0.2902	0.7481	0.1108	0.6021	0.9295	1.99E-02	-0.2719	0.7619	0.1631	0.5535	1.0489	1.66E-01	0.2218	1.2483	0.2080	0.8304	1.8766	4.66E-01
histidine	-0.1872	0.8293	0.1263	0.6474	1.0623	2.14E-01	-0.3028	0.7387	0.1835	0.5156	1.0585	1.70E-01	-0.1741	0.8402	0.2456	0.5192	1.3595	6.55E-01
citrate	0.1480	1.1595	0.1123	0.9305	1.4449	2.77E-01	0.2636	1.3016	0.1633	0.9451	1.7925	1.81E-01	0.1015	1.1069	0.2175	0.7227	1.6952	7.87E-01
cholesterol_in_small_ldl	0.0207	1.0210	0.0742	0.8828	1.1808	8.08E-01	0.2069	1.2298	0.1303	0.9527	1.5875	1.89E-01	0.3753	1.4555	0.1725	1.0379	2.0410	8.48E-02
cholesteryl_esters_in_small_hdl	-0.6679	0.5128	0.1447	0.3862	0.6809	2.91E-05	-0.3380	0.7132	0.2136	0.4692	1.0841	1.90E-01	-0.7099	0.4917	0.2759	0.2863	0.8444	4.93E-02
total_lipids_in_small_ldl	0.0180	1.0182	0.0954	0.8445	1.2276	8.70E-01	0.2197	1.2456	0.1398	0.9471	1.6384	1.92E-01	0.4469	1.5635	0.1849	1.0883	2.2462	5.97E-02
concentration_of_vldl_particles	-0.1488	0.8618	0.0703	0.7508	0.9891	6.64E-02	-0.1543	0.8570	0.1022	0.7014	1.0471	2.11E-01	0.1733	1.1892	0.1367	0.9098	1.5545	3.59E-01
glutamine	0.0747	1.0776	0.1373	0.8233	1.4104	6.69E-01	0.3059	1.3579	0.2028	0.9125	2.0207	2.11E-01	-0.1093	0.8964	0.2614	0.5371	1.4962	8.24E-01
cholesterol_in_small_hdl	-0.6909	0.5011	0.1551	0.3697	0.6792	4.86E-05	-0.3446	0.7085	0.2282	0.4529	1.1082	2.11E-01	-0.6496	0.5222	0.2969	0.2919	0.9345	8.36E-02
glycoprotein_acetyls	-0.1710	0.8428	0.1576	0.6189	1.1478	3.79E-01	-0.3404	0.7115	0.2294	0.4538	1.1155	2.20E-01	0.5795	1.7852	0.3052	0.9816	3.2466	1.37E-01
triglycerides_in_ldl	-0.1666	0.8465	0.0838	0.7183	0.9976	8.64E-02	-0.1788	0.8362	0.1226	0.6576	1.0634	2.28E-01	0.1850	1.2033	0.1587	0.8817	1.6422	4.15E-01
polyunsaturated_fatty_acids	-0.4814	0.6179	0.1397	0.4699	0.8125	2.08E-03	-0.2907	0.7478	0.2042	0.5011	1.1158	2.42E-01	0.1667	1.1814	0.2693	0.6969	2.0028	6.87E-01
cholesteryl_esters_in_ldl	-0.0023	0.9977	0.0628	0.8822	1.1283	9.77E-01	0.1750	1.1913	0.1252	0.9320	1.5226	2.51E-01	0.2837	1.3280	0.1641	0.9628	1.8317	1.85E-01
apolipoprotein_b	0.0553	1.0569	0.0953	0.8769	1.2738	6.55E-01	0.1905	1.2098	0.1387	0.9219	1.5878	2.60E-01	0.5403	1.7166	0.1846	1.1955	2.4647	2.45E-02
alanine	-0.3594	0.6981	0.0986	0.5754	0.8469	1.15E-03	-0.1952	0.8226	0.1433	0.6213	1.0893	2.63E-01	-0.4211	0.6563	0.1905	0.4518	0.9533	8.18E-02
glucose	0.1615	1.1753	0.0802	1.0043	1.3754	8.23E-02	0.1629	1.1769	0.1206	0.9292	1.4907	2.64E-01	0.2990	1.3485	0.1470	1.0109	1.7989	1.11E-01
concentration_of_large_ldl_particles	0.0856	1.0894	0.0929	0.9080	1.3071	4.55E-01	0.1834	1.2013	0.1354	0.9213	1.5663	2.64E-01	0.4759	1.6095	0.1797	1.1316	2.2893	4.65E-02
remnant_cholesterol_non_hdl_non_ldl_cholesterol	0.0484	1.0496	0.0834	0.8913	1.2360	6.55E-01	0.1617	1.1755	0.1220	0.9255	1.4929	2.74E-01	0.4863	1.6262	0.1610	1.1860	2.2298	1.98E-02
concentration_of_ldl_particles	0.0443	1.0453	0.0947	0.8682	1.2586	6.92E-01	0.1760	1.1925	0.1380	0.9098	1.5629	2.97E-01	0.4884	1.6296	0.1836	1.1371	2.3356	4.64E-02
phospholipids_in_medium_ldl	-0.0691	0.9332	0.0819	0.7949	1.0956	4.97E-01	0.1515	1.1636	0.1208	0.9183	1.4745	3.06E-01	0.2200	1.2461	0.1590	0.9124	1.7018	3.18E-01
total_lipids_in_hdl	0.0592	1.0610	0.1184	0.8413	1.3381	6.84E-01	0.2119	1.2360	0.1721	0.8821	1.7319	3.15E-01	0.1474	1.1589	0.2288	0.7401	1.8146	6.87E-01
linoleic_acid	-0.3064	0.7361	0.1105	0.5927	0.9141	1.37E-02	-0.1859	0.8303	0.1615	0.6050	1.1396	3.55E-01	0.0091	1.0092	0.2130	0.6648	1.5319	9.89E-01
phospholipids_in_small_vldl	-0.1432	0.8666	0.0684	0.7578	0.9910	6.96E-02	-0.1148	0.8915	0.0996	0.7334	1.0838	3.55E-01	0.1414	1.1519	0.1337	0.8864	1.4969	4.66E-01
cholesterol_in_medium_vldl	0.0185	1.0186	0.0501	0.9234	1.1237	7.52E-01	0.0846	1.0883	0.0749	0.9396	1.2605	3.65E-01	0.2352	1.2652	0.0973	1.0455	1.5309	5.97E-02
concentration_of_medium_ldl_parti	-0.0372	0.9635	0.0850	0.8157	1.1381	7.11E-01	0.1395	1.1498	0.1243	0.9012	1.4669	3.66E-01	0.3822	1.4655	0.1657	1.0592	2.0277	7.24E-02
concentration_of_medium_vldl_part	-0.1362	0.8727	0.0577	0.7794	0.9772	3.75E-02	-0.0919	0.9122	0.0846	0.7729	1.0766	3.81E-01	0.0981	1.1031	0.1123	0.8852	1.3747	5.62E-01
cholesterol_in_medium_ldl	-0.0290	0.9714	0.0528	0.8760	1.0772	6.69E-01	0.1206	1.1282	0.1109	0.9077	1.4022	3.81E-01	0.1999	1.2213	0.1464	0.9167	1.6272	3.18E-01
free_cholesterol_in_small_hdl	-0.5154	0.5973	0.1561	0.4399	0.8110	2.89E-03	-0.2438	0.7837	0.2296	0.4997	1.2290	3.94E-01	-0.2463	0.7817	0.2974	0.4364	1.4001	5.94E-01
saturated_fatty_acids	-0.1415	0.8680	0.0959	0.7192	1.0476	2.15E-01	-0.1480	0.8624	0.1417	0.6533	1.1385	4.01E-01	0.2763	1.3182	0.1782	0.9297	1.8692	2.45E-01
docosahexaenoic_acid	-0.2215	0.8013	0.0597	0.7129	0.9008	9.66E-04	-0.0924	0.9117	0.0890	0.7658	1.0855	4.02E-01	-0.1075	0.8981	0.1180	0.7127	1.1317	5.42E-01
free_cholesterol_in_very_small_vldl	0.1545	1.1671	0.0882	0.9819	1.3872	1.39E-01	0.1315	1.1405	0.1281	0.8873	1.4660	4.03E-01	0.6804	1.9746	0.1707	1.4132	2.7591	1.15E-03
triglycerides_in_large_ldl	-0.1333	0.8752	0.0891	0.7349	1.0423	2.13E-01	-0.1336	0.8749	0.1302	0.6779	1.1292	4.03E-01	0.2566	1.2925	0.1693	0.9276	1.8011	2.56E-01
concentration_of_small_ldl_particle	0.0139	1.0140	0.1020	0.8302	1.2384	9.07E-01	0.1505	1.1624	0.1483	0.8692	1.5545	4.05E-01	0.5486	1.7308	0.1980	1.1741	2.5515	3.56E-02
phospholipids_in_medium_hdl	-0.2458	0.7821	0.1119	0.6280	0.9739	5.55E-02	-0.1673	0.8459	0.1651	0.6121	1.1691	4.05E-01	-0.1567	0.8549	0.2135	0.5626	1.2991	6.51E-01
total_lipids_in_medium_ldl	-0.0825	0.9208	0.0793	0.7882	1.0757	4.04E-01	0.1145	1.1213	0.1174	0.8909	1.4113	4.26E-01	0.2111	1.2350	0.1538	0.9136	1.6695	3.18E-01
omega_6_fatty_acids	-0.3887	0.6779	0.1482	0.5071	0.9063	1.99E-02	-0.2061	0.8137	0.2162	0.5326	1.2432	4.37E-01	0.1958	1.2163	0.2856	0.6949	2.1291	6.62E-01

triglycerides_in_very_large_hdl	-0.0315	0.9689	0.0583	0.8643	1.0863	6.69E-01	-0.0802	0.9230	0.0854	0.7807	1.0912	4.43E-01	0.1430	1.1538	0.1115	0.9272	1.4357	3.54E-01
average_diameter_for_ldl_particles	13.7537	9.40E+05	5.8396	10.0578	8.79E+10	3.75E-02	7.8721	2623.0862	8.5148	0.0001	4.64E+10	4.49E-01	3.6753	39.4601	11.0744	0.0000	1.05E+11	8.54E-01
glycine	0.0107	1.0108	0.0209	0.9703	1.0530	6.78E-01	0.0311	1.0316	0.0340	0.9652	1.1027	4.51E-01	-0.0166	0.9835	0.0344	0.9193	1.0521	7.78E-01
hdl_cholesterol	-0.0824	0.9209	0.0615	0.8164	1.0389	2.70E-01	-0.0788	0.9242	0.0894	0.7756	1.1012	4.70E-01	0.2249	1.2522	0.1204	0.9890	1.5854	1.44E-01
phospholipids_in_medium_vldl	-0.0975	0.9071	0.0477	0.8262	0.9960	7.74E-02	-0.0631	0.9389	0.0727	0.8142	1.0827	4.70E-01	0.0984	1.1034	0.1026	0.9024	1.3492	5.18E-01
concentration_of_very_small_vldl_particles	0.1166	1.1237	0.0907	0.9407	1.3423	2.86E-01	0.1147	1.1216	0.1318	0.8662	1.4522	4.70E-01	0.6586	1.9322	0.1752	1.3707	2.7236	2.43E-03
cholesteryl_esters_in_small_hdl	-0.0148	0.9853	0.0611	0.8741	1.1106	8.33E-01	0.1093	1.1156	0.1246	0.8738	1.4242	4.70E-01	0.3178	1.3741	0.1678	0.9889	1.9093	1.37E-01
lactate	-0.2428	0.7844	0.0787	0.6723	0.9152	5.52E-03	-0.0970	0.9075	0.1145	0.7251	1.1359	4.77E-01	-0.2083	0.8120	0.1544	0.6000	1.0989	3.24E-01
triglycerides_in_large_hdl	-0.0530	0.9484	0.0554	0.8508	1.0572	4.45E-01	-0.0687	0.9336	0.0806	0.7972	1.0934	4.77E-01	0.0265	1.0269	0.1075	0.8318	1.2678	8.88E-01
apolipoprotein_b_to_apolipoprotein_a1_ratio	0.0706	1.0732	0.0814	0.9149	1.2589	4.84E-01	0.0987	1.1038	0.1180	0.8758	1.3911	4.81E-01	0.4096	1.5062	0.1589	1.1031	2.0566	4.93E-02
tyrosine	-0.1493	0.8613	0.0959	0.7137	1.0394	1.94E-01	-0.1090	0.8968	0.1393	0.6826	1.1782	5.15E-01	-0.0053	0.9947	0.1861	0.6907	1.4324	9.94E-01
cholesteryl_esters_in_small_vldl	-0.0830	0.9204	0.0620	0.8151	1.0393	2.70E-01	-0.0697	0.9327	0.0897	0.7823	1.1120	5.15E-01	0.1981	1.2190	0.1233	0.9574	1.5521	2.24E-01
phospholipids_in_hdl	-0.0033	0.9967	0.1207	0.7867	1.2627	9.78E-01	0.1172	1.1244	0.1758	0.7967	1.5868	5.91E-01	0.1158	1.1227	0.2328	0.7114	1.7720	7.72E-01
free_cholesterol_in_medium_hdl	-0.0373	0.9633	0.0788	0.8255	1.1241	6.92E-01	0.0771	1.0802	0.1215	0.8513	1.3706	6.11E-01	0.0257	1.0260	0.1521	0.7615	1.3823	9.43E-01
cholesterol_in_medium_hdl	-0.0540	0.9474	0.0872	0.7986	1.1240	6.35E-01	0.0862	1.0900	0.1384	0.8311	1.4296	6.16E-01	-0.0639	0.9381	0.1572	0.6893	1.2765	8.29E-01
cholesteryl_esters_in_medium_hdl	-0.0576	0.9440	0.0879	0.7945	1.1216	6.12E-01	0.0867	1.0906	0.1411	0.8271	1.4380	6.18E-01	-0.0846	0.9189	0.1534	0.6803	1.2411	7.35E-01
apolipoprotein_a1	-0.0980	0.9066	0.1465	0.6804	1.2081	6.05E-01	0.1286	1.1373	0.2134	0.7485	1.7278	6.23E-01	-0.0298	0.9707	0.2824	0.5581	1.6883	9.73E-01
cholesteryl_esters_in_medium_hdl	-0.0472	0.9539	0.0462	0.8714	1.0442	4.12E-01	0.0579	1.0597	0.1024	0.8669	1.2953	6.47E-01	0.1597	1.1732	0.1401	0.8914	1.5439	4.29E-01
total_phospholipids_in_lipoprotein_particles	-0.0672	0.9351	0.1423	0.7075	1.2358	6.92E-01	0.1152	1.1221	0.2089	0.7451	1.6898	6.54E-01	0.5180	1.6787	0.2714	0.9861	2.8577	1.37E-01
acetate	0.0282	1.0286	0.0215	0.9863	1.0728	2.77E-01	-0.0148	0.9854	0.0282	0.9323	1.0414	6.72E-01	0.1230	1.1309	0.0483	1.0287	1.2432	5.08E-02
cholesterol_in_small_vldl	-0.0763	0.9265	0.0643	0.8169	1.0509	3.34E-01	-0.0456	0.9554	0.0934	0.7956	1.1474	6.94E-01	0.2114	1.2354	0.1266	0.9640	1.5832	2.01E-01
total_lipids_in_medium_hdl	-0.1879	0.8287	0.1074	0.6714	1.0229	1.39E-01	-0.0750	0.9278	0.1584	0.6801	1.2656	7.01E-01	-0.1417	0.8679	0.2046	0.5812	1.2961	6.62E-01
acetate	0.0539	1.0554	0.0296	0.9959	1.1184	1.21E-01	0.0191	1.0193	0.0410	0.9405	1.1047	7.03E-01	0.0398	1.0406	0.0546	0.9350	1.1582	6.51E-01
total_lipids_in_very_small_vldl	0.1037	1.1093	0.0915	0.9272	1.3271	3.61E-01	0.0592	1.0610	0.1329	0.8177	1.3766	7.14E-01	0.6410	1.8983	0.1768	1.3424	2.6846	3.10E-03
total_cholines	-0.1392	0.8700	0.1444	0.6556	1.1546	4.43E-01	0.0851	1.0889	0.2121	0.7185	1.6501	7.44E-01	0.3367	1.4003	0.2759	0.8155	2.4046	3.86E-01
pyruvate	-0.0405	0.9604	0.0595	0.8546	1.0791	6.02E-01	0.0309	1.0314	0.0868	0.8701	1.2226	7.76E-01	-0.0064	0.9936	0.1195	0.7862	1.2558	9.87E-01
total_concentration_of_lipoprotein_particles	-0.2682	0.7648	0.1545	0.5649	1.0353	1.42E-01	0.0708	1.0734	0.2273	0.6875	1.6756	8.02E-01	-0.0874	0.9163	0.2954	0.5136	1.6348	8.67E-01
phosphatidylcholines	-0.2201	0.8025	0.1282	0.6242	1.0317	1.46E-01	-0.0595	0.9423	0.1886	0.6511	1.3637	8.02E-01	0.1499	1.1617	0.2442	0.7199	1.8747	6.87E-01
free_cholesterol_in_medium_vldl	-0.0722	0.9304	0.0529	0.8388	1.0320	2.63E-01	-0.0190	0.9812	0.0782	0.8418	1.1437	8.53E-01	0.1447	1.1557	0.1034	0.9437	1.4153	3.12E-01
phosphoglycerides	-0.2025	0.8167	0.1300	0.6330	1.0537	1.94E-01	-0.0426	0.9583	0.1914	0.6585	1.3946	8.59E-01	0.2471	1.2803	0.2474	0.7884	2.0791	4.97E-01
albumin	-0.6391	0.5278	0.2416	0.3287	0.8474	1.90E-02	0.0807	1.0840	0.3578	0.5376	2.1857	8.59E-01	-1.6261	0.1967	0.4561	0.0805	0.4809	3.55E-03
cholesteryl_esters_in_vldl	-0.0312	0.9693	0.0639	0.8552	1.0985	6.89E-01	-0.0177	0.9824	0.0929	0.8188	1.1787	8.79E-01	0.3056	1.3574	0.1251	1.0623	1.7344	5.95E-02
phospholipids_in_very_small_vldl	0.0985	1.1035	0.0887	0.9274	1.3131	3.70E-01	0.0207	1.0209	0.1288	0.7932	1.3141	8.98E-01	0.6276	1.8730	0.1717	1.3378	2.6224	3.10E-03
concentration_of_hdl_particles	-0.2787	0.7568	0.1456	0.5689	1.0068	1.01E-01	0.0245	1.0248	0.2140	0.6737	1.5589	9.25E-01	-0.2074	0.8127	0.2784	0.4710	1.4024	6.49E-01
degree_of_unsaturation	-0.7942	0.4520	0.3577	0.2242	0.9111	5.28E-02	-0.0619	0.9400	0.5260	0.3353	2.6356	9.25E-01	-0.4296	0.6508	0.6799	0.1717	2.4670	6.87E-01
total_lipids_in_lipoprotein_particles	-0.1308	0.8774	0.1190	0.6948	1.1079	3.74E-01	0.0182	1.0184	0.1747	0.7231	1.4341	9.28E-01	0.3967	1.4869	0.2267	0.9536	2.3186	1.79E-01
free_cholesterol_in_small_vldl	-0.0588	0.9429	0.0657	0.8290	1.0724	4.69E-01	0.0043	1.0043	0.0962	0.8317	1.2126	9.70E-01	0.2194	1.2453	0.1278	0.9694	1.5998	1.87E-01
concentration_of_medium_hdl_particles	-0.1080	0.8976	0.0842	0.7610	1.0587	2.86E-01	0.0037	1.0037	0.1391	0.7642	1.3184	9.79E-01	-0.0784	0.9246	0.1547	0.6828	1.2521	7.69E-01

Supplementary Table 2: Results of sensitivity analysis

Metabolite	Beta	HR	SE	Z	Pval	lower	upper	FDR
cholesterol_in_idl	0.948252	2.581194	0.190517	4.977256	6.45E-07	1.776856	3.749635	4.98E-05
cholesteryl_esters_in_idl	0.92968	2.533698	0.188982	4.919404	8.68E-07	1.749415	3.669583	4.98E-05
free_cholesterol_in_idl	0.941123	2.562857	0.188648	4.988768	6.08E-07	1.770707	3.709386	4.98E-05
free_cholesterol_in_large_ldl	0.881892	2.415466	0.183359	4.809643	1.51E-06	1.686263	3.460003	6.50E-05
sphingomyelins	1.434098	4.19586	0.30609	4.685214	2.80E-06	2.302907	7.644787	9.32E-05
free_cholesterol_in_very_large_hdl	0.715314	2.044829	0.153687	4.654363	3.25E-06	1.512999	2.763602	9.32E-05
free_cholesterol_in_idl	0.834571	2.303825	0.181698	4.593188	4.37E-06	1.613572	3.289355	9.39E-05
total_lipids_in_idl	0.954102	2.596339	0.206554	4.619148	3.85E-06	1.731978	3.892066	9.39E-05
valine	-1.03963	0.353586	0.233121	-4.45962	8.21E-06	0.223904	0.558377	0.000141
concentration_of_idl_particles	0.852666	2.345892	0.190701	4.471227	7.78E-06	1.614297	3.409044	0.000141
cholesterol_in_very_large_hdl	0.514401	1.672636	0.118848	4.328239	1.50E-05	1.325068	2.111371	0.000235
free_cholesterol_in_small_ldl	0.771746	2.16354	0.179251	4.305401	1.67E-05	1.522603	3.07428	0.000239
phospholipids_in_idl	0.913744	2.49364	0.213241	4.285029	1.83E-05	1.64181	3.787432	0.000242
cholesteryl_esters_in_very_large_hdl	0.44215	1.55605	0.106625	4.146763	3.37E-05	1.262594	1.917711	0.000414
clinical_ldl_cholesterol	0.652088	1.919545	0.16196	4.026233	5.67E-05	1.397455	2.636688	0.000609
phospholipids_in_large_ldl	0.816524	2.262621	0.202784	4.026575	5.66E-05	1.520555	3.366834	0.000609
triglycerides_in_chylomicrons_and_extremely_large_vldl	-0.06098	0.940846	0.015387	-3.96278	7.41E-05	0.912895	0.969652	0.000749
free_cholesterol_in_medium_ldl	0.672045	1.958239	0.17017	3.949264	7.84E-05	1.402868	2.733471	0.000749
phospholipids_in_small_ldl	0.835493	2.305951	0.214174	3.901008	9.58E-05	1.515462	3.508771	0.000867
cholesterol_in_large_ldl	0.728581	2.072138	0.187983	3.875777	0.000106	1.433531	2.995231	0.000914
concentration_of_very_large_hdl_particles	0.482191	1.61962	0.125353	3.846674	0.00012	1.266813	2.070683	0.000981
phospholipids_in_chylomicrons_and_extremely_large_vldl	-0.07458	0.928134	0.019665	-3.79253	0.000149	0.893042	0.964605	0.001084
total_lipids_in_large_ldl	0.749848	2.116677	0.196958	3.807141	0.000141	1.43881	3.113908	0.001084
total_lipids_in_very_large_hdl	0.401953	1.494741	0.106085	3.788963	0.000151	1.214133	1.840204	0.001084
total_esterified_cholesterol	0.909572	2.483258	0.241033	3.773634	0.000161	1.548296	3.982812	0.001107
phospholipids_in_ldl	0.751404	2.119974	0.199683	3.762988	0.000168	1.433377	3.135458	0.001111
concentration_of_chylomicrons_and_extremely_large_vldl_particles	-0.10469	0.900602	0.028572	-3.66417	0.000248	0.851555	0.952474	0.001581
total_cholesterol	0.866684	2.379009	0.237618	3.647382	0.000265	1.493259	3.790156	0.001627
average_diameter_for_vldl_particles	-5.25744	0.005209	1.448764	-3.62891	0.000285	0.000304	0.089108	0.001632
cholesteryl_esters_in_very_small_vldl	0.624951	1.868154	0.171867	3.636241	0.000277	1.333887	2.616412	0.001632
total_concentration_of_branched_chain_amino_acids_leucine_plus_isoleucine_plus_valine	-0.71729	0.488072	0.201012	-3.56841	0.000359	0.329141	0.723745	0.001993
free_cholesterol_in_chylomicrons_and_extremely_large_vldl	-0.14281	0.866916	0.040428	-3.53255	0.000412	0.800875	0.938403	0.002212
phospholipids_in_very_large_hdl	0.289567	1.335848	0.082769	3.498509	0.000468	1.135807	1.571122	0.002439
cholesteryl_esters_in_large_ldl	0.653782	1.922799	0.187443	3.487889	0.000487	1.331624	2.776426	0.002463
ldl_cholesterol	0.640224	1.896905	0.184588	3.468397	0.000524	1.321065	2.723748	0.002573
triglycerides_to_phosphoglycerides_ratio	-0.40833	0.66476	0.118623	-3.44225	0.000577	0.526858	0.838758	0.002756
total_lipids_in_chylomicrons_and_extremely_large_vldl	-0.11666	0.889885	0.034093	-3.42187	0.000622	0.832365	0.95138	0.002891

total_lipids_in_ldl	0.65687	1.928745	0.192665	3.409395	0.000651	1.322143	2.813657	0.002947
x3_hydroxybutyrate	0.183839	1.201823	0.054278	3.386971	0.000707	1.080534	1.336726	0.003095
triglycerides_in_very_large_vldl	-0.11861	0.888157	0.03507	-3.38195	0.00072	0.829159	0.951353	0.003095
cholesteryl_esters_in_medium_vldl	0.348736	1.417275	0.103405	3.37253	0.000745	1.157273	1.735691	0.003125
total_cholesterol_minus_hdl_c	0.60505	1.831344	0.183183	3.302984	0.000957	1.278923	2.62238	0.003918
cholesterol_in_very_small_vldl	0.578557	1.783463	0.176546	3.277082	0.001049	1.261791	2.520814	0.004195
total_free_cholesterol	0.729775	2.074614	0.224092	3.256593	0.001128	1.337181	3.218729	0.00431
concentration_of_large_ldl_particles	0.621491	1.861701	0.190829	3.256798	0.001127	1.280785	2.7061	0.00431
triglycerides_in_small_vldl	-0.3648	0.694339	0.11378	-3.20615	0.001345	0.555549	0.867803	0.005023
triglycerides_in_small_hdl	-0.38899	0.677738	0.121548	-3.20035	0.001373	0.534073	0.860049	0.005023
triglycerides_in_vldl	-0.26378	0.76814	0.085272	-3.09342	0.001979	0.649915	0.907871	0.00709
total_lipids_in_small_ldl	0.60536	1.831911	0.199565	3.033392	0.002418	1.238894	2.708786	0.008488
cholesterol_in_small_ldl	0.564657	1.758844	0.187357	3.01381	0.00258	1.218286	2.539251	0.008875
cholesteryl_esters_in_ldl	0.546981	1.728029	0.182731	2.993363	0.002759	1.207841	2.472248	0.009306
remnant_cholesterol_non_hdl_non_ldl_cholesterol	0.517886	1.678476	0.174225	2.972505	0.002954	1.192928	2.361653	0.00977
apolipoprotein_b	0.57785	1.782202	0.195133	2.961316	0.003063	1.215793	2.612487	0.009941
phospholipids_in_medium_ldl	0.513491	1.671115	0.173982	2.951411	0.003163	1.188264	2.350173	0.010076
triglycerides_in_large_vldl	-0.19891	0.819624	0.068086	-2.92143	0.003484	0.717232	0.936634	0.010896
concentration_of_ldl_particles	0.560151	1.750937	0.19457	2.878917	0.00399	1.195782	2.563828	0.012256
triglycerides_in_medium_hdl	-0.33517	0.715218	0.116754	-2.87071	0.004096	0.568928	0.899125	0.012359
average_diameter_for_ldl_particles	35.26283	2.06E+15	12.31683	2.86298	0.004197	67663.06	6.29E+25	0.012446
total_lipids_in_very_large_vldl	-0.14675	0.863512	0.051553	-2.84652	0.00442	0.780524	0.955324	0.012885
leucine	-0.46424	0.628615	0.165391	-2.8069	0.005002	0.454573	0.869292	0.014339
total_triglycerides	-0.29696	0.743076	0.10654	-2.78728	0.005315	0.60304	0.915631	0.014987
cholesterol_in_medium_vldl	0.319247	1.376091	0.115157	2.772268	0.005567	1.098057	1.724524	0.015277
cholesteryl_esters_in_large_hdl	0.241152	1.272715	0.08704	2.770583	0.005596	1.073105	1.509454	0.015277
cholesterol_in_large_hdl	0.243128	1.275232	0.088083	2.760227	0.005776	1.073033	1.515533	0.015523
free_cholesterol_in_large_hdl	0.240317	1.271653	0.088645	2.711012	0.006708	1.068843	1.512945	0.01775
cholesterol_in_chylomicrons_and_extremely_large_vldl	-0.11427	0.892015	0.042514	-2.68785	0.007191	0.820699	0.969528	0.018741
creatinine	-0.71174	0.490788	0.266381	-2.6719	0.007542	0.291173	0.827252	0.019362
concentration_of_very_large_vldl_particles	-0.12905	0.878932	0.04917	-2.62451	0.008677	0.798182	0.967852	0.021948
triglycerides_in_medium_vldl	-0.26273	0.768948	0.101883	-2.57876	0.009916	0.629758	0.938902	0.024717
total_lipids_in_medium_ldl	0.425549	1.530431	0.170064	2.502294	0.012339	1.096618	2.135857	0.030319
triglycerides_in_hdl	-0.33065	0.718455	0.133174	-2.48287	0.013033	0.553403	0.932732	0.030735
total_lipids_in_large_vldl	-0.17953	0.835664	0.072316	-2.48256	0.013044	0.725231	0.962913	0.030735
cholesterol_in_medium_ldl	0.40868	1.50483	0.16416	2.489517	0.012792	1.090822	2.075969	0.030735
concentration_of_large_hdl_particles	0.220871	1.247163	0.092716	2.382249	0.017207	1.039929	1.495694	0.039995
concentration_of_large_vldl_particles	-0.16725	0.845987	0.071905	-2.32601	0.020018	0.734782	0.974023	0.045304
cholesteryl_esters_in_small_ldl	0.424096	1.528208	0.182027	2.329848	0.019814	1.069647	2.183355	0.045304
polyunsaturated_fatty_acids_to_monounsaturated_fatty_acids_ratio	0.576744	1.780233	0.250285	2.304347	0.021203	1.090018	2.907502	0.047189

free_cholesterol_in_very_small_vldl	0.413249	1.511721	0.179606	2.300859	0.0214	1.06314	2.149576	0.047189
phospholipids_in_large_vldl	-0.06952	0.932841	0.030289	-2.29524	0.021719	0.879075	0.989896	0.047287
concentration_of_small_ldl_particles	0.473336	1.605341	0.20749	2.281245	0.022534	1.068935	2.410923	0.048448
apolipoprotein_b_to_apolipoprotein_a1_ratio	0.363079	1.437749	0.163366	2.222488	0.02625	1.043821	1.980343	0.055741
total_lipids_in_large_hdl	0.228432	1.256628	0.103555	2.205903	0.027391	1.025795	1.539405	0.057454
isoleucine	-0.2749	0.759651	0.125947	-2.18263	0.029063	0.593483	0.972345	0.060227
acetone	0.288379	1.334263	0.133288	2.163582	0.030496	1.027511	1.732593	0.062445
phospholipids_in_very_large_vldl	-0.06806	0.934203	0.031702	-2.14693	0.031799	0.877923	0.99409	0.063598
concentration_of_very_small_vldl_particles	0.396748	1.486981	0.184529	2.150052	0.031551	1.035699	2.134898	0.063598
phospholipids_in_small_hdl	-0.68437	0.504409	0.321379	-2.12948	0.033215	0.268673	0.94698	0.065666
free_cholesterol_in_hdl	0.432135	1.540544	0.205901	2.098755	0.035838	1.028989	2.306413	0.070048
concentration_of_medium_ldl_particles	0.363027	1.437675	0.175269	2.071259	0.038335	1.019698	2.026981	0.074085
average_diameter_for_hdl_particles	4.589641	98.45911	2.231504	2.056748	0.03971	1.241071	7811.155	0.075891
triglycerides_in_very_small_vldl	-0.29977	0.740992	0.14812	-2.02379	0.042991	0.554285	0.99059	0.081258
free_cholesterol_in_large_vldl	-0.13581	0.87301	0.06749	-2.01229	0.04419	0.764843	0.996475	0.082616
cholesteryl_esters_in_chylomicrons_and_extremely_large_vldl	-0.08248	0.92083	0.041361	-1.99412	0.046139	0.849127	0.998588	0.085332
free_cholesterol_in_very_large_vldl	-0.10608	0.899354	0.053793	-1.97199	0.048611	0.809361	0.999353	0.088948
hdl_cholesterol	0.388491	1.474754	0.206249	1.883607	0.059618	0.984375	2.209423	0.10769
cholesteryl_esters_in_medium_ldl	0.295485	1.343779	0.157172	1.880016	0.060106	0.987513	1.828574	0.10769
triglycerides_in_small_ldl	-0.2504	0.77849	0.13658	-1.83334	0.066751	0.595657	1.017444	0.118363
glutamine	0.52478	1.690087	0.289475	1.812871	0.069852	0.958314	2.980646	0.121526
free_cholesterol_in_small_vldl	0.250227	1.284317	0.138424	1.80769	0.070655	0.979142	1.684606	0.121526
phospholipids_in_large_hdl	0.195801	1.216285	0.10817	1.810127	0.070276	0.983923	1.503522	0.121526
cholesteryl_esters_in_hdl	0.3664	1.442532	0.203567	1.799899	0.071877	0.967941	2.149818	0.122404
total_lipids_in_very_small_vldl	0.322128	1.380062	0.186148	1.730499	0.083541	0.958185	1.987686	0.140834
total_lipids_in_small_hdl	-0.56596	0.567817	0.327889	-1.72606	0.084337	0.298613	1.079713	0.140834
total_phospholipids_in_lipoprotein_particles	0.502321	1.652552	0.29801	1.685585	0.091876	0.921486	2.963615	0.151948
citrate	0.362292	1.436619	0.226563	1.599078	0.109803	0.92149	2.239714	0.179868
total_lipids_in_lipoprotein_particles	0.397044	1.487421	0.250508	1.584955	0.112976	0.910335	2.430337	0.18332
cholesterol_in_large_vldl	-0.11343	0.89277	0.073568	-1.5418	0.123123	0.772892	1.031242	0.197918
total_lipids_in_vldl	-0.16559	0.847396	0.107997	-1.53326	0.125211	0.685739	1.047161	0.199411
alanine	-0.30183	0.739466	0.198381	-1.52145	0.128147	0.501253	1.090888	0.202213
free_cholesterol_in_medium_vldl	0.17659	1.193142	0.11644	1.516575	0.129374	0.949682	1.499016	0.202294
cholesterol_in_very_large_vldl	-0.0966	0.907917	0.064133	-1.50627	0.131997	0.800674	1.029524	0.204536
omega_6_fatty_acids_to_omega_3_fatty_acids_ratio	0.170923	1.1864	0.114282	1.495626	0.134751	0.948318	1.484254	0.206939
albumin	0.751335	2.119828	0.504408	1.489538	0.136346	0.788765	5.697098	0.207535
cholesteryl_esters_in_vldl	0.191404	1.210948	0.132338	1.446328	0.148085	0.934285	1.569537	0.223427
monounsaturated_fatty_acids	-0.24092	0.785906	0.169553	-1.4209	0.155345	0.563698	1.095707	0.229547
glycine	0.084819	1.08852	0.059809	1.418155	0.156145	0.968114	1.2239	0.229547
phospholipids_in_very_small_vldl	0.256355	1.292211	0.180536	1.419966	0.155617	0.907112	1.840796	0.229547

total_cholines	0.410524	1.507607	0.301228	1.362833	0.172935	0.835377	2.720785	0.252075
glucose	-0.26002	0.771033	0.207175	-1.25509	0.209445	0.513718	1.157233	0.302727
cholesterol_in_small_vldl	0.163027	1.177068	0.132186	1.233314	0.217458	0.908416	1.52517	0.31169
acetate	0.077299	1.080365	0.063697	1.213536	0.224925	0.953567	1.224022	0.319728
glycoprotein_acetyls	-0.36599	0.693509	0.31794	-1.15113	0.249677	0.371895	1.293252	0.352004
omega_3_fatty_acids	-0.11607	0.890415	0.103358	-1.12297	0.261452	0.727133	1.090363	0.36266
phospholipids_in_medium_hdl	-0.26078	0.770447	0.232016	-1.12399	0.261017	0.488934	1.214047	0.36266
cholesteryl_esters_in_large_vldl	-0.08143	0.921797	0.077771	-1.04705	0.295074	0.791474	1.073579	0.406022
cholesteryl_esters_in_very_large_vldl	-0.06827	0.934004	0.068998	-0.98952	0.322406	0.815864	1.069251	0.44011
total_concentration_of_lipoprotein_particles	0.311167	1.365017	0.320804	0.969958	0.332068	0.727895	2.559807	0.449729
cholesteryl_esters_in_small_vldl	0.111428	1.117873	0.126125	0.883475	0.37698	0.873042	1.431365	0.506567
total_lipids_in_hdl	0.208189	1.231446	0.237112	0.878023	0.379931	0.773723	1.959951	0.506575
phenylalanine	-0.15837	0.853538	0.184066	-0.86038	0.389582	0.59504	1.224333	0.515447
phospholipids_in_medium_vldl	0.09297	1.097429	0.114749	0.810203	0.417824	0.876399	1.374203	0.548593
phospholipids_in_vldl	-0.09041	0.913557	0.112848	-0.80116	0.423038	0.732284	1.139704	0.549998
concentration_of_small_vldl_particles	-0.10542	0.899948	0.132223	-0.79728	0.425289	0.694494	1.166181	0.549998
total_lipids_in_small_vldl	-0.10721	0.898337	0.136458	-0.78567	0.432064	0.687521	1.173795	0.554589
vldl_cholesterol	0.096531	1.101344	0.127419	0.75759	0.448697	0.857954	1.41378	0.571673
degree_of_unsaturation	0.541951	1.719359	0.746807	0.725692	0.468028	0.397817	7.431037	0.591918
phosphoglycerides	0.195131	1.21547	0.273541	0.713353	0.475628	0.711059	2.077701	0.597138
phospholipids_in_small_vldl	0.098432	1.103439	0.141505	0.695604	0.486677	0.836178	1.456122	0.606582
phosphatidylcholines	0.173718	1.18972	0.269458	0.644695	0.519125	0.701587	2.017475	0.629285
omega_6_fatty_acids	0.192761	1.212593	0.301572	0.639185	0.522702	0.671454	2.189847	0.629285
histidine	-0.16196	0.850477	0.253676	-0.63844	0.523184	0.517288	1.398274	0.629285
concentration_of_medium_vldl_particles	0.079422	1.082661	0.122529	0.648185	0.516865	0.851521	1.376542	0.629285
triglycerides_in_idl	-0.11638	0.89014	0.180398	-0.64511	0.518858	0.625034	1.267692	0.629285
concentration_of_small_hdl_particles	-0.20314	0.816166	0.327477	-0.62031	0.535052	0.429566	1.550697	0.63909
total_lipids_in_medium_hdl	-0.13585	0.872972	0.22195	-0.61208	0.540482	0.565036	1.348728	0.641124
triglycerides_in_large_hdl	-0.06437	0.937659	0.111246	-0.57862	0.562845	0.753967	1.166104	0.663078
triglycerides_in_medium_idl	-0.08661	0.917032	0.156973	-0.55177	0.581109	0.674169	1.247385	0.679937
acetoacetate	-0.01927	0.980918	0.036639	-0.52583	0.599006	0.912946	1.053951	0.696142
free_cholesterol_in_medium_hdl	0.089082	1.093171	0.173419	0.513682	0.607474	0.778168	1.535687	0.701246
concentration_of_hdl_particles	0.1506	1.162532	0.30096	0.5004	0.616794	0.644506	2.096923	0.707257
linoleic_acid	0.112274	1.118819	0.227424	0.493677	0.621534	0.716434	1.747203	0.707973
apolipoprotein_a1	0.139272	1.149437	0.294989	0.472126	0.636837	0.644748	2.049181	0.720631
cholesteryl_esters_in_small_hdl	-0.14058	0.868851	0.30367	-0.46295	0.643402	0.479139	1.57554	0.723301
total_fatty_acids	-0.10273	0.90237	0.2341	-0.43883	0.660782	0.570319	1.427746	0.738016
triglycerides_in_very_large_hdl	-0.05018	0.951062	0.121782	-0.41201	0.68033	0.749113	1.207453	0.754947
cholesterol_in_small_hdl	-0.10735	0.898211	0.323664	-0.33167	0.740138	0.476294	1.693877	0.816049
triglycerides_in_idl	-0.05137	0.94993	0.172319	-0.29809	0.765632	0.677663	1.331586	0.823054

phospholipids_in_hdl	0.073898	1.076697	0.242582	0.30463	0.760648	0.669279	1.732125	0.823054
total_lipids_in_medium_vldl	-0.03744	0.963257	0.119371	-0.3136	0.753822	0.762314	1.217168	0.823054
cholesterol_in_medium_hdl	0.059638	1.061452	0.196092	0.304131	0.761028	0.722747	1.558885	0.823054
polyunsaturated_fatty_acids	0.079121	1.082336	0.286024	0.276625	0.782068	0.617871	1.895948	0.835501
cholesteryl_esters_in_medium_hdl	0.050276	1.051561	0.199999	0.251379	0.801521	0.710551	1.556231	0.850997
concentration_of_medium_hdl_particles	-0.03679	0.963874	0.201428	-0.18267	0.855058	0.649479	1.43046	0.90227
free_cholesterol_in_vldl	-0.01921	0.980972	0.117392	-0.16365	0.870009	0.779351	1.234755	0.912448
pyruvate	-0.01802	0.982142	0.115858	-0.15553	0.876404	0.782629	1.232516	0.913585
triglycerides_in_large_ldl	0.022875	1.023139	0.181891	0.125763	0.89992	0.716323	1.461371	0.926863
free_cholesterol_in_small_hdl	0.04124	1.042102	0.326297	0.126387	0.899426	0.54975	1.975399	0.926863
concentration_of_vldl_particles	0.016622	1.016761	0.14426	0.115225	0.908266	0.766346	1.349004	0.929892
saturated_fatty_acids	-0.01732	0.982828	0.205829	-0.08415	0.932937	0.656561	1.471228	0.949498
tyrosine	-0.00576	0.994254	0.192228	-0.02998	0.976083	0.682138	1.44918	0.984159
lactate	-0.00427	0.995737	0.158077	-0.02703	0.978437	0.730448	1.357375	0.984159
docosahexaenoic_acid	-0.00068	0.999324	0.124293	-0.00544	0.995657	0.783263	1.274983	0.995657

Supplementary Table 3: Results of Metabolites' association with early endophenotypes of dementia

Metabolite	EVL		FDR		EVR		HVL		HVR		FACPL		FACPR		MDCPL		MDCPR		FI		RT		HGSL		HGSR												
	Beta	SE	Beta	SE	Beta	SE	Beta	SE	Beta	SE	Beta	SE	Beta	SE	Beta	SE	Beta	SE	Beta	SE	Beta	SE	Beta	SE	Beta	SE											
total_cholesterol	32.60	14.14	4.76E-02	37.47	13.22	1.02E-02	33.08	11.96	1.22E-02	36.43	12.63	7.97E-03	2.39E-03	1.29E-03	9.29E-02	1.78E-03	1.31E-03	2.28E-01	-4.82E-06	1.35E-06	4.33E-03	-3.02E-06	1.26E-06	3.26E-02	-0.0384	0.0430	5.42E-01	-3.1894	1.2875	2.32E-02	0.6115	0.0881	1.62E-11	0.6238	0.0885	5.23E-12	
total_cholesterol_minus_hdl_c	32.50	10.84	1.56E-02	37.77	10.13	8.53E-04	32.09	9.17	1.56E-03	35.69	9.69	8.77E-04	2.40E-03	9.86E-04	3.20E-02	2.08E-03	1.00E-03	5.77E-02	-3.58E-06	1.04E-06	4.33E-03	-2.71E-06	9.65E-07	1.50E-02	-0.0037	0.0332	9.45E-01	-3.5904	0.9916	1.03E-03	0.5137	0.0679	2.85E-13	0.5856	0.0681	6.60E-17	
remnant_cholesterol_non_hdl_non																																					
hdl_cholesterol	32.64	10.33	1.18E-02	37.51	9.66	5.52E-04	31.45	8.74	1.12E-03	35.88	9.23	4.75E-04	2.25E-03	9.40E-04	3.45E-02	2.18E-03	9.56E-04	3.80E-02	-3.41E-06	9.88E-07	4.33E-03	-2.62E-06	9.20E-07	1.41E-02	0.0173	0.0319	6.83E-01	-2.7522	0.9511	7.89E-03	0.4413	0.0651	4.72E-11	0.5181	0.0653	8.68E-15	
hdl_cholesterol	26.50	7.63	8.66E-03	30.60	7.13	2.81E-04	28.39	6.45	1.50E-04	31.11	6.82	1.18E-04	2.06E-03	6.93E-04	1.05E-02	2.41E-03	7.05E-04	2.51E-03	-2.05E-06	7.29E-07	1.32E-02	-2.18E-06	6.79E-07	7.04E-03	0.0198	0.0236	5.44E-01	-2.1364	0.7043	5.20E-03	0.2520	0.0482	4.28E-07	0.3521	0.0484	1.09E-12	
clinical_hdl_cholesterol	26.85	9.41	1.78E-02	29.61	8.80	2.49E-03	24.55	7.96	5.04E-03	27.26	8.41	3.32E-03	1.71E-03	8.57E-04	7.38E-02	1.08E-03	8.71E-04	2.73E-01	-2.92E-06	9.00E-07	5.92E-03	-1.93E-06	8.39E-07	3.90E-02	-0.0229	0.0281	5.46E-01	-3.1120	0.8416	1.87E-04	0.4773	0.0576	1.44E-15	0.5198	0.0578	3.08E-18	
hdl_cholesterol	29.57	10.81	2.07E-02	34.28	10.11	2.34E-03	29.66	9.14	3.21E-03	31.97	9.66	2.73E-03	2.32E-03	9.83E-04	3.65E-02	1.78E-03	9.99E-04	1.60E-01	-3.38E-06	1.03E-06	5.74E-03	-2.52E-06	9.63E-07	2.13E-02	-0.0303	0.0264	4.09E-01	-2.8212	0.8479	2.22E-03	0.4425	0.0581	2.15E-13	0.4866	0.0583	3.93E-16	
hdl_cholesterol	-13.71	13.27	3.73E-01	-20.32	12.41	1.45E-01	-10.37	11.23	4.25E-01	-14.22	11.86	2.88E-01	-1.58E-03	1.20E-03	2.43E-01	-2.48E-03	1.22E-03	1.05E-02	-1.70E-06	1.27E-06	2.54E-01	1.00E-06	1.18E-06	4.62E-01	-0.0791	0.0402	1.17E-01	2.5396	1.2068	5.74E-02	0.0551	0.0826	5.80E-01	-0.1466	0.0829	1.05E-01	
total_triglycerides	14.33	6.47	5.48E-02	16.73	6.05	1.21E-02	18.81	5.47	1.81E-03	18.33	5.78	3.89E-03	2.25E-03	5.88E-04	2.67E-03	3.06E-03	5.97E-04	1.02E-05	-9.92E-07	6.17E-07	1.72E-01	-1.86E-06	5.75E-07	7.04E-03	0.0267	0.0199	3.40E-01	-1.8103	0.5921	4.98E-03	-0.0400	0.0405	3.98E-01	0.0563	0.0407	2.09E-01	
triglycerides_in_vldl	12.55	5.28	4.34E-02	14.30	4.93	8.91E-03	16.93	4.46	6.18E-04	15.88	4.71	2.41E-03	1.79E-03	4.79E-04	3.13E-03	2.40E-03	4.87E-04	1.79E-05	-6.85E-07	5.04E-07	2.49E-01	-1.55E-06	4.69E-07	7.04E-03	0.0243	0.0163	2.82E-01	-1.7776	0.4833	8.60E-04	-0.0171	0.0331	6.66E-01	0.0699	0.0332	5.06E-02	
triglycerides_in_ldl	14.53	10.19	2.12E-01	23.89	9.53	2.28E-02	19.51	8.62	4.23E-02	22.09	9.11	2.63E-02	3.63E-03	9.26E-04	2.55E-03	4.90E-03	9.41E-04	8.46E-06	-2.97E-06	9.73E-07	9.08E-03	-2.97E-06	9.07E-07	7.04E-03	0.0060	0.0313	9.01E-01	-0.8968	0.9287	3.78E-01	-0.1567	0.0635	2.40E-02	-0.0875	0.0638	2.12E-01	
triglycerides_in_hdl	10.42	8.03	2.55E-01	8.84	7.51	2.83E-01	11.22	6.79	1.38E-01	13.23	7.18	1.00E-01	1.61E-03	7.30E-04	4.97E-02	2.49E-03	7.42E-04	2.79E-03	-9.27E-07	1.70E-07	3.12E-01	-1.09E-06	7.15E-07	1.70E-01	0.0188	0.0249	5.74E-01	-0.7910	0.7432	3.34E-01	-0.0792	0.0508	1.70E-01	-0.0201	0.0510	7.33E-01	
total_phospholipids_in_lipoprotein_particles	30.00	17.79	1.35E-01	33.56	16.64	6.72E-02	32.16	15.05	5.40E-02	32.28	15.91	6.57E-02	3.67E-03	1.62E-03	4.44E-02	4.05E-03	1.65E-03	2.53E-02	-6.02E-06	1.70E-06	4.33E-03	-4.12E-06	1.58E-06	2.22E-02	-0.0833	0.0540	2.64E-01	-1.9062	1.6233	2.85E-01	0.2768	0.1111	2.26E-02	0.2633	0.1115	2.73E-02	
phospholipids_in_vldl	22.48	6.85	1.04E-02	25.93	6.40	3.94E-04	25.23	5.79	1.55E-04	26.54	6.12	1.36E-04	2.22E-03	6.22E-04	4.71E-03	2.76E-03	6.32E-04	1.17E-04	-1.64E-06	6.54E-07	2.68E-02	-2.12E-06	6.09E-07	7.04E-03	0.0257	0.0211	3.80E-01	-2.0869	1.6301	2.31E-03	0.1173	0.0431	1.21E-02	0.2210	0.0433	7.34E-07	
phospholipids_in_ldl	32.73	11.83	1.99E-02	39.84	11.06	1.30E-03	31.16	10.00	4.60E-03	34.20	10.57	3.32E-03	2.22E-03	1.08E-03	2.21E-02	2.14E-03	1.09E-03	7.28E-02	-3.97E-06	1.13E-06	4.33E-03	-2.92E-06	1.05E-06	1.59E-02	-0.0311	0.0361	5.42E-01	-4.2517	1.6807	4.22E-04	0.5258	0.0740	5.48E-12	0.5926	0.0743	6.02E-15	
phospholipids_in_hdl	-11.40	15.12	5.31E-01	-20.35	14.14	1.90E-01	-11.94	12.79	4.22E-01	-18.39	13.51	2.31E-01	-4.28E-04	1.37E-03	7.96E-01	-4.75E-05	1.40E-03	7.84E-01	-2.31E-06	1.44E-06	1.73E-01	2.04E-07	1.34E-06	9.91E-01	-0.1041	0.0459	6.25E-02	2.8391	1.3763	2.32E-02	-0.2098	0.0942	4.35E-02	-0.3979	0.0945	4.91E-05	
total_esterified_cholesterol	31.47	14.34	5.62E-02	35.47	13.41	1.60E-02	30.99	12.13	2.08E-02	33.89	12.82	1.55E-02	2.22E-03	1.31E-03	1.24E-01	1.50E-03	1.33E-03	3.17E-01	-4.86E-06	1.37E-06	4.33E-03	-2.88E-06	1.28E-06	4.21E-02	-0.0546	0.0435	3.71E-01	-3.2234	1.3060	2.36E-02	0.6197	0.0894	1.65E-11	0.6176	0.0897	1.63E-11	
cholesterol_esters_in_vldl	27.38	7.89	8.66E-03	31.65	7.38	2.81E-04	28.23	6.68	1.83E-04	31.73	7.05	1.18E-04	1.84E-03	7.18E-04	2.33E-02	2.08E-03	7.30E-04	9.88E-03	-2.17E-06	7.54E-07	1.16E-02	-2.09E-06	7.03E-07	1.11E-02	0.0166	0.0245	6.12E-01	-1.9797	0.7294	1.28E-02	0.3050	0.0499	2.91E-09	0.3625	0.0501	7.92E-15	
cholesterol_esters_in_ldl	29.86	10.71	1.91E-02	35.30	10.02	1.63E-03	31.14	9.06	1.81E-03	33.21	9.58	1.84E-03	2.55E-03	9.75E-04	2.24E-02	2.17E-03	9.90E-04	4.67E-02	-3.39E-06	1.02E-06	5.51E-03	-2.72E-06	9.54E-07	1.41E-02	-0.0297	0.0299	4.09E-01	-2.8096	0.8337	1.99E-03	0.4136	0.0571	2.43E-12	0.4640	0.0573	2.54E-15	
cholesterol_esters_in_hdl	-12.97	13.11	3.96E-01	-20.75	12.26	1.31E-01	-10.55	11.09	4.14E-01	-14.86	11.72	1.61E-01	-1.77E-03	1.19E-03	1.83E-01	-3.27E-03	1.21E-03	3.86E-02	-2.50E-06	1.25E-06	3.13E-01	1.13E-06	1.16E-06	3.97E-01	-0.0970	0.0356	2.45E-02	2.4411	1.1898	3.34E-02	0.0665	0.0814	4.91E-01	-0.1331	0.0817	1.37E-01	
total_free_cholesterol	33.98	13.32	2.99E-02	40.58	12.46	3.40E-03	36.54	11.27	3.21E-03	40.76	11.91	2.06E-03	2.68E-03	1.21E-03	4.92E-02	2.33E-03	1.23E-03	3.37E-02	-4.53E-06	1.27E-06	4.33E-03	-3.20E-06	1.19E-06	1.79E-02	0.0022	0.0408	9.69E-01	-3.3401	1.2193	1.20E-02	0.5844	0.0834	1.07E-11	0.6325	0.0838	1.44E-13	
free_cholesterol_in_vldl	24.15	7.07	8.66E-03	27.63	6.61	3.17E-04	27.05	5.98	1.50E-04	28.66	6.32	1.18E-04	2.18E-03	6.43E-04	5.39E-03	2.64E-03	6.53E-04	8.55E-07	-1.80E-06	6.75E-07	1.85E-02	-2.17E-06	6.29E-07	7.04E-03	0.0224	0.0218	4.81E-01	-2.1938	0.6518	1.99E-03	0.1771	0.0446	1.67E-04	0.2815	0.0448	8.24E-10	
free_cholesterol_in_ldl	26.57	10.52	3.16E-02	27.98	9.84	1.02E-02	22.79	8.90	2.06E-02	25.29	9.40	1.37E-02	1.44E-03	9.57E-04	1.79E-01	5.24E-04	9.73E-04	6.51E-01	-2.92E-06	1.01E-06	1.13E-02	-1.67E-06	9.37E-07	1.08E-01	-0.0216	0.0248	5.42E-01	-2.4976	0.8062	4.59E-03	0.4518	0.0552	2.91E-15	0.4771	0.0554	6.22E-17	
free_cholesterol_in_hdl	-14.29	13.06	3.42E-01	-16.29	12.21	2.25E-01	-8.51	11.05	5.06E-01	-10.43	11.67	4.42E-01	-8.11E-04	1.19E-03	5.45E-01	-1.35E-03	1.21E-03	3.20E-01	-2.12E-06	1.25E-06	1.48E-01	4.92E-07	1.16E-06	7.27E-01	-0.0038	0.0397	9.52E-01	2.3280	1.1940	7.59E-02	0.0215	0.0817	8.40E-01	-0.1613	0.0820	6.90E-02	
total_lipids_in_lipoprotein_particles	35.00	14.88	4.59E-01	41.97	13.92	6.59E-03	40.79	12.59	3.21E-03	42.42	13.30	3.84E-03	4.11E-03	1.35E-03	9.07E-03	4.58E-03	1.38E-03	2.97E-03	-5.07E-06	1.42E-06	4.33E-03	-4.28E-06	1.33E-06	7.04E-03	-0.0255	0.0454	6.75E-01	-3.6568	1.3585	1.36E-02	0.3825	0.0930	9.27E-05	0.4591	0.0933	1.89E-06	
total_lipids_in_vldl	19.79	6.60	1.56E-02	22.96	6.17	8.53E-04	23.87	5.58	1.82E-04	24.24	5.90	2.4																									

isoleucine	17.99	7.84	4.76E-02	13.33	7.33	1.02E-01	13.12	6.63	7.42E-02	11.40	7.01	1.51E-01	1.95E-03	7.12E-04	1.70E-02	2.55E-03	7.24E-04	1.74E-03	-5.47E-07	7.48E-07	5.75E-01	-9.82E-07	6.97E-07	2.01E-01	0.1234	0.0251	6.76E-06	-2.5395	0.7260	1.45E-03	0.0077	0.0497	9.20E-01	0.0742	0.0499	1.76E-01
leucine	17.51	10.28	1.32E-01	16.86	9.62	1.17E-01	18.02	8.70	6.05E-02	12.65	9.19	2.27E-01	1.88E-03	9.35E-04	7.16E-02	2.39E-03	9.50E-04	2.31E-02	-1.05E-06	9.93E-07	3.73E-01	-1.51E-06	9.16E-07	1.37E-01	0.0848	0.0329	3.49E-02	-4.8973	0.9460	5.56E-06	0.3404	0.0648	3.75E-07	0.4183	0.0650	3.31E-01
valine	30.88	14.02	5.60E-02	27.50	13.11	5.77E-02	26.02	11.86	4.86E-02	20.21	12.53	1.54E-01	3.85E-03	1.27E-03	9.07E-03	4.69E-03	1.29E-03	1.26E-02	-3.23E-06	1.34E-06	1.41E-01	-2.71E-06	1.47E-02	0.4345	0.0438	6.47E-21	-8.9705	1.2858	1.30E-10	0.3020	0.0880	1.33E-03	0.5344	0.0884	3.73E-09	
phenylalanine	-3.71	11.39	7.81E-01	9.66	10.65	4.04E-01	3.23	9.63	7.69E-01	-6.76	10.18	5.77E-01	2.30E-03	1.04E-03	4.91E-02	2.11E-03	1.05E-03	6.66E-02	-5.36E-07	1.09E-06	7.18E-01	-4.87E-07	1.01E-06	7.05E-01	0.1013	0.0364	2.16E-02	-4.2039	1.0655	4.15E-04	-0.6286	0.0729	9.78E-17	-0.6297	0.0732	6.51E-17
tyrosine	-5.47	11.87	6.98E-01	4.99	11.10	6.97E-01	1.64	10.04	8.86E-01	-6.13	10.61	6.21E-01	3.31E-04	1.08E-03	7.96E-01	1.04E-03	1.09E-03	4.00E-01	-8.70E-07	1.13E-06	5.51E-01	-1.48E-06	1.05E-06	2.03E-01	0.2474	0.0372	3.93E-10	-8.5574	1.0948	4.69E-13	-0.4707	0.0750	1.05E-09	-0.4286	0.0752	2.94E-08
glucose	-5.58	11.71	6.90E-01	10.43	10.95	3.81E-01	4.88	9.91	6.65E-01	-8.48	10.47	4.86E-01	-1.23E-06	1.07E-03	9.99E-01	1.60E-04	1.08E-03	9.08E-01	1.15E-06	1.12E-06	1.04E-06	7.24E-01	-0.0075	0.0350	8.88E-01	0.0291	1.0185	9.77E-01	0.0767	0.0696	3.45E-01	0.1389	0.0699	6.66E-02		
lactate	-11.39	9.73	3.04E-01	-5.47	10.10	5.93E-01	-1.99	8.23	8.28E-01	-5.09	8.70	6.19E-01	1.10E-03	8.83E-04	2.71E-01	2.09E-03	8.98E-04	3.40E-02	3.93E-07	9.28E-07	7.56E-01	-8.66E-07	8.65E-07	3.83E-01	-0.0664	0.0289	5.05E-02	-4.4886	0.8961	1.18E-05	-0.0561	0.0613	4.36E-01	0.0652	0.0616	3.34E-01
pyruvate	-11.75	7.03	1.83E-01	-4.64	6.57	5.26E-01	-5.15	5.95	4.59E-01	-6.18	6.28	3.91E-01	4.68E-04	6.37E-04	5.17E-01	9.63E-04	6.47E-04	1.86E-02	1.31E-07	6.70E-07	7.27E-01	-4.29E-07	6.23E-07	5.60E-01	-0.0045	0.0180	8.77E-01	-1.3528	0.6493	5.98E-02	-0.2643	0.0445	7.79E-09	-0.1985	0.0446	1.78E-05
citrate	1.46	13.86	9.27E-01	15.95	12.96	2.66E-01	-3.09	11.72	8.16E-01	-7.33	12.39	6.19E-01	1.35E-03	1.26E-03	3.42E-01	1.80E-03	1.28E-03	2.14E-01	-4.70E-06	1.32E-06	4.33E-03	-3.42E-06	1.23E-06	1.59E-02	-0.0354	0.0430	5.46E-01	-0.2460	1.2838	1.50E-01	1.9950	0.0878	1.91E-112	1.9929	0.0881	2.26E-11
3 hydroxybutyrate	-4.92	2.66	1.01E-01	0.86	2.48	7.73E-01	-4.26	2.25	7.27E-02	-3.01	2.37	2.61E-01	4.28E-04	2.40E-04	1.06E-01	3.21E-04	1.24E-03	2.43E-01	-1.74E-07	2.53E-07	5.98E-01	-3.35E-08	2.35E-07	9.02E-01	-0.0631	0.0093	1.61E-10	1.2572	0.2591	2.35E-05	0.0014	0.0178	9.53E-01	0.0200	0.0178	3.16E-01
acetate	-0.23	3.29	9.50E-01	-0.84	3.08	8.24E-01	0.10	2.79	9.72E-01	0.78	2.95	8.19E-01	4.34E-04	2.96E-04	1.87E-01	4.39E-05	3.01E-04	9.00E-01	-1.78E-08	3.11E-07	9.77E-01	4.01E-07	2.90E-07	2.08E-01	0.0349	0.0122	1.79E-02	0.4175	0.3113	2.26E-01	0.0352	0.0213	1.46E-01	0.0532	0.0214	1.97E-02
acetoacetate	-1.43	2.11	5.71E-01	0.24	1.97	9.24E-01	-1.96	1.78	3.35E-01	-2.81	1.89	1.86E-01	2.17E-04	1.90E-04	3.09E-01	2.10E-04	1.93E-04	3.32E-01	-7.38E-08	2.00E-07	7.80E-01	1.35E-07	1.86E-07	5.39E-01	-0.0093	0.0067	3.32E-01	0.8524	0.2012	1.89E-04	-0.0391	0.0138	8.69E-03	-0.0476	0.0138	9.87E-04
acetone	-16.32	8.96	1.06E-01	-10.13	8.38	2.73E-01	-13.77	7.58	1.01E-01	-13.63	8.01	1.35E-01	8.45E-04	8.15E-04	3.56E-01	9.86E-04	8.28E-04	2.94E-01	-4.30E-07	8.56E-07	7.18E-01	2.47E-07	7.98E-07	8.04E-01	-0.0331	0.0271	3.80E-01	3.8071	0.8163	4.85E-05	0.0052	0.0559	9.53E-01	-0.0765	0.0561	2.14E-01
creatinine	-11.56	17.14	5.71E-01	-17.65	16.00	3.11E-01	24.11	14.51	1.36E-01	23.11	15.34	1.82E-01	3.75E-03	1.56E-03	3.39E-02	5.07E-03	1.58E-03	4.12E-03	-3.71E-06	1.64E-06	4.74E-02	-2.71E-06	1.53E-06	1.08E-01	0.0409	0.0496	5.46E-01	-10.4736	1.4762	6.94E-11	3.5833	0.1008	9.56E-274	-3.7005	0.1011	4.84E-317
albumin	-50.24	31.34	1.54E-01	-1.02	29.31	9.72E-01	70.08	26.51	1.68E-02	102.06	28.01	1.01E-03	-1.71E-03	2.86E-03	6.02E-01	-1.77E-03	2.90E-03	6.09E-01	-1.91E-06	3.00E-06	6.27E-01	1.25E-06	2.80E-06	7.18E-01	0.1970	0.0927	8.50E-02	-12.1627	2.8316	1.58E-04	5.8372	0.1935	1.24E-197	5.9416	0.1941	2.49E-203
glycoprotein acetyls	16.72	19.52	4.75E-01	20.08	18.26	3.11E-01	34.45	16.51	6.00E-02	29.63	17.45	1.35E-01	2.63E-03	1.77E-03	1.83E-01	3.91E-03	1.80E-03	4.89E-02	1.27E-06	1.86E-06	6.01E-01	-5.85E-07	1.74E-06	7.87E-01	-0.4617	0.0596	2.02E-13	12.3444	1.7866	1.68E-10	-2.4443	0.1221	2.28E-87	-2.2955	0.1226	1.71E-76
concentration_of_chylomicrons_and_extremely_large_vldl_particles	4.17	1.83	4.79E-02	3.16	1.71	9.75E-02	4.33	1.55	1.12E-02	4.20	1.64	1.88E-02	4.29E-04	1.67E-04	2.26E-02	5.59E-04	1.69E-04	3.16E-03	-1.26E-07	1.75E-07	5.80E-01	-3.62E-07	1.63E-07	4.50E-02	0.0030	0.0059	7.01E-01	-0.3527	0.1753	6.73E-02	-0.0247	0.0120	6.43E-02	0.0067	0.0120	6.35E-01
total_lipids_in_chylomicrons_and_extremely_large_vldl	4.58	2.18	6.49E-02	3.27	2.04	1.54E-01	5.24	1.85	9.99E-03	4.90	1.95	2.16E-02	4.77E-04	1.99E-04	3.39E-02	6.89E-04	2.02E-04	2.51E-03	-1.04E-07	2.09E-07	7.18E-01	-4.70E-07	1.94E-07	3.16E-02	-0.0008	0.0071	9.45E-01	-0.3933	0.2065	8.35E-02	-0.0314	0.0141	4.35E-02	0.0064	0.0142	6.99E-01
phospholipids_in_chylomicrons_and_extremely_large_vldl	2.59	1.31	7.90E-02	1.94	1.22	1.55E-01	2.57	1.11	3.61E-02	2.44	1.17	5.81E-02	2.26E-04	1.19E-04	8.61E-02	2.90E-04	1.21E-04	2.89E-02	-5.28E-08	1.25E-07	7.56E-01	-1.80E-07	1.16E-07	1.67E-01	-0.0010	0.0043	8.77E-01	-0.2610	0.1275	6.35E-02	-0.0160	0.0087	1.03E-01	0.0051	0.0088	6.21E-01
cholesterol_in_chylomicrons_and_extremely_large_vldl	6.39	2.67	4.33E-02	5.77	2.50	3.60E-02	8.13	2.26	1.12E-03	7.48	2.39	4.25E-03	6.90E-04	2.43E-04	1.38E-02	9.54E-04	2.47E-04	6.14E-04	-2.38E-07	2.55E-07	4.50E-01	-6.08E-07	2.38E-07	2.34E-02	-0.0161	0.0086	1.44E-01	-0.3992	0.2531	1.54E-01	-0.0272	0.0173	1.66E-01	0.0216	0.0174	2.63E-01
cholesterol_esters_in_chylomicrons_and_extremely_large_vldl	5.69	2.59	5.62E-02	5.83	2.43	2.97E-02	8.44	2.19	5.24E-04	7.57	2.32	3.15E-03	6.98E-04	2.36E-04	1.05E-02	9.53E-04	2.39E-04	4.26E-04	-2.66E-07	2.48E-07	3.73E-01	-6.03E-07	2.31E-07	2.13E-02	-0.0220	0.0083	3.03E-02	-0.3645	0.2455	1.79E-01	-0.0222	0.0168	2.45E-01	0.0244	0.0169	1.88E-01
free_cholesterol_in_chylomicrons_and_extremely_large_vldl	6.71	2.56	2.57E-02	5.41	2.40	4.02E-02	6.34	2.17	8.11E-03	6.35	2.29	1.09E-02	6.18E-04	2.33E-04	2.07E-02	8.62E-04	2.37E-04	1.22E-03	-1.65E-07	2.45E-07	6.01E-01	-4.99E-07	2.28E-07	4.72E-02	-0.0049	0.0083	6.65E-01	-0.4426	0.2436	9.93E-02	-0.0274	0.0167	1.47E-01	0.0178	0.0167	3.34E-01
triglycerides_in_chylomicrons_and_extremely_large_vldl	0.79	1.13	5.60E-01	-0.14	1.06	9.23E-01	1.80	0.95	8.81E-02	1.68	1.01	1.43E-01	1.32E-04	1.03E-04	2.52E-01	2.20E-04	1.04E-04	5.45E-02	-6.54E-08	1.08E-07	6.45E-01	-2.27E-07	1.00E-07	4.21E-02	-0.0002	0.0037	9.67E-01	-0.1653	0.1074	1.63E-01	-0.0133	0.0073	1.08E-01	0.0015	0.0074	8.46E-01
concentration_of_very_large_vldl_particles	9.03	3.20	1.81E-02	9.78	2.99	3.36E-03	10.63	2.71	4.13E-04	10.29	2.86	1.18E-03	8.98E-04	2.91E-04	8.86E-03	1.10E-03	2.96E-04	9.76E-04	-4.34E-07	3.06E-07	2.30E-01	-7.62E-07	2.85E-07	1.84E-02	0.0069	0.0100	6.11E-01	-1.1219	0.2996	7.39E-04	-0.0008	0.0205	9.67E-01	0.0538	0.0206	1.41E-02
total_lipids_in_very_large_vldl	9.15	3.36	2.07E-02	10.08	3.14	3.70E-03	11.63	2.84	2.36E-04	11.07	3.00	8.77E-04	9.39E-04	3.05E-04	8.86E-03	1.18E-03	3.10E-04	7.32E-04	-4.37E-07	3.21E-07	2.49E-01	-8.70E-07	2.99E-07	1.29E-02	0.0093	0.0105	5.42E-01	-1.2399	0.3129	3.99E-04	-0.0021	0.0214	1.63E-01	0.0577	0.0215	1.14E-02
phospholipids_in_very_large_vldl	6.14	2.15	1.78E-02	6.63	2.01	2.99E-03	6.19	1.82	1.99E-03	6.10	1.92	3.86E-03	4.17E-04	1.95E-04	5.75E-02	4.92E-04	1.98E-04	2.46E-02	-2.76E-07	2.05E-07	2.52E-01	-3.57E-07	1.91E-07	9.07E-02	0.0030	0.0068	7.39E-01	-0.6866	0.2025	1.93E-03	-0.0098	0.0139	5.55E-01	0.0436	0.0139	2.95E-03
cholesterol_in_very_large_vldl	13.76	4.06	8.66E-03	15.23	3.80	4.01E-04	15.17	3.43	1.50E-04	15.47	3.63	1.52E-04	1.16E-03	3.68E-04	8.15E-03	1.37E-03	3.74E-04	1.13E-03	-7.45E-07	3.87E-07	1.00E-01	-1.05E-06	3.60E-07	1.31E-02	-0.0010	0.0127	9.57E-01	-1.3082	0.3776	1.58E-03	0.0561	0.0258	4.97E-02	0.1262	0.0259	2.48E-06
cholesterol_esters_in_very_large_vldl	15.41	4.34	8.66E-03	17.54	4.06	2.81E-04	16.49	3.67	1.50E-04	16.93	3.88	1.34E-04	1.21E-03	3.93E-04	8.86E-03	1.36E-03	3.99E-04	2.53E-03	-8.59E-07	4.13E-07	7.23E-02	-1.08E-06	3.85E-07	1.51E-02	-0.0114	0.0135	5.44E-01	-1.3596	0.4036	1.99E-03	0.0857	0.0276	3.83E-03	0.1554	0.0277	4.95E-08
free_cholesterol_in_very_large_vldl	11.00	3.47																																		

total lipids in ldl	28.61	12.30	4.71E-02	32.66	11.50	1.02E-02	21.60	10.40	6.05E-02	27.09	10.99	2.41E-02	1.51E-03	1.12E-03	2.30E-01	7.86E-04	1.14E-03	5.61E-01	-4.12E-06	1.18E-06	4.33E-03	-2.09E-06	1.10E-06	8.56E-02	0.0185	0.0377	7.01E-01	-2.4228	1.1263	5.15E-02	0.5117	0.0771	1.14E-10	0.5092	0.0774	1.26E-10
phospholipids_in_ldl	29.29	12.80	4.76E-02	33.78	11.97	1.05E-02	23.50	10.42	4.99E-02	30.01	11.44	1.63E-02	1.31E-03	1.17E-03	3.17E-01	8.00E-04	1.18E-03	5.69E-01	-3.85E-06	1.22E-06	4.72E-03	-2.15E-06	1.14E-06	8.90E-02	0.0390	0.0394	4.95E-01	-2.1519	1.1731	9.71E-02	0.5334	0.0803	1.11E-10	0.5420	0.0806	4.77E-11
cholesterol_in_ldl	26.08	11.29	4.67E-02	28.03	10.56	1.59E-02	17.94	9.55	8.94E-02	22.62	10.09	4.13E-02	1.05E-03	1.03E-03	3.59E-01	9.70E-05	1.04E-03	9.37E-01	-1.58E-06	1.08E-06	5.27E-03	-1.58E-06	1.01E-06	1.59E-01	0.0095	0.0344	8.52E-01	-2.4210	1.0623	3.12E-02	0.5199	0.0702	1.02E-10	0.5069	0.0705	2.03E-12
cholesteryl_esters_in_ldl	25.54	11.19	4.76E-02	27.87	10.46	1.58E-02	17.39	9.46	8.71E-02	21.75	10.00	4.77E-02	1.26E-03	1.02E-03	2.73E-01	2.43E-04	1.03E-03	8.54E-01	-3.71E-06	1.07E-06	4.33E-03	-1.63E-06	9.96E-07	1.40E-01	0.0116	0.0341	8.13E-01	-2.6487	1.0171	1.69E-02	0.5000	0.0696	3.70E-12	0.4875	0.0699	8.91E-12
free_cholesterol_in_ldl	26.18	11.21	4.66E-02	26.61	10.48	2.10E-02	18.27	9.48	8.21E-02	23.66	10.02	3.07E-02	4.16E-04	1.02E-03	2.72E-01	-3.28E-04	1.04E-03	7.98E-01	-2.09E-06	1.07E-06	1.16E-02	-1.33E-06	9.99E-07	2.25E-01	0.0046	0.0342	9.36E-01	-1.6740	1.0174	1.37E-01	0.5477	0.0696	3.48E-14	0.5356	0.0699	6.22E-14
triglycerides_in_ldl	12.95	10.64	2.87E-01	21.60	9.95	4.95E-02	15.73	9.00	1.14E-01	19.88	9.51	5.81E-02	3.07E-03	9.67E-04	8.15E-03	4.36E-03	9.83E-04	9.92E-05	-2.74E-06	1.02E-06	1.70E-02	-2.58E-06	9.47E-07	1.75E-02	0.0395	0.0329	3.89E-01	-0.2422	0.9776	8.28E-01	-0.1927	0.0669	3.75E-03	0.4154	0.0671	5.06E-02
concentration_of_large_ldl_particles	32.71	11.54	1.80E-02	41.83	10.79	5.52E-04	33.80	9.76	1.76E-03	39.51	10.31	5.62E-04	2.47E-03	1.05E-03	3.67E-02	2.17E-03	1.07E-03	6.30E-02	-3.43E-06	1.10E-06	8.11E-03	-2.89E-06	1.03E-06	1.50E-02	0.0198	0.0354	6.75E-01	-3.7721	1.0525	1.14E-03	0.5124	0.0720	5.45E-12	0.6036	0.0723	3.93E-16
total lipids_in_large_ldl	30.20	11.59	2.61E-02	35.25	10.84	3.40E-03	28.59	9.81	8.27E-03	31.74	10.36	5.03E-03	2.24E-03	1.05E-03	5.85E-02	1.68E-03	1.07E-03	1.59E-01	-3.70E-06	1.11E-06	5.27E-03	-2.53E-06	1.03E-06	3.04E-02	-0.0257	0.0352	5.89E-01	-3.9001	1.0550	1.71E-04	0.5490	0.0722	2.27E-13	0.5919	0.0725	1.53E-15
phospholipids_in_large_ldl	32.62	12.00	2.07E-02	37.47	11.22	2.67E-03	29.32	10.15	8.86E-03	33.00	10.72	4.91E-03	2.20E-03	1.09E-03	7.13E-02	1.46E-03	1.11E-03	2.43E-01	-3.95E-06	1.15E-06	4.33E-03	-2.56E-06	1.07E-06	3.26E-02	-0.0501	0.0366	3.32E-01	-3.7603	1.0955	8.07E-03	0.5650	0.0750	3.51E-13	0.6111	0.0753	2.15E-15
cholesterol_in_large_ldl	28.52	10.96	2.61E-02	31.76	10.24	5.28E-03	26.35	9.27	9.99E-03	28.95	9.79	6.53E-03	1.85E-03	9.97E-04	9.29E-02	1.25E-03	1.01E-03	2.76E-01	-3.15E-06	1.05E-06	9.75E-03	-2.13E-06	9.76E-07	4.75E-02	-0.0206	0.0236	5.42E-01	-2.2295	0.7768	8.31E-03	0.3914	0.0532	1.13E-12	0.4143	0.0534	3.13E-14
cholesteryl_esters_in_large_ldl	28.70	10.94	2.57E-02	32.96	10.23	3.65E-03	27.65	9.25	6.79E-03	29.97	9.78	5.03E-03	2.06E-03	9.95E-04	6.60E-02	1.59E-03	1.01E-03	2.76E-01	-3.17E-06	1.05E-06	9.10E-03	-2.33E-06	9.74E-07	3.28E-02	-0.0150	0.0269	6.75E-01	-2.9842	0.8536	1.45E-03	0.4368	0.0584	5.19E-13	0.4700	0.0587	4.85E-15
free_cholesterol_in_large_ldl	25.78	10.34	3.39E-02	25.67	9.67	1.59E-02	19.28	8.74	4.76E-02	22.38	9.24	2.63E-02	9.48E-04	9.39E-04	3.66E-01	1.51E-04	9.55E-04	9.00E-01	-2.36E-06	9.87E-07	3.52E-02	-1.20E-06	9.20E-07	2.35E-01	-0.0206	0.0232	5.42E-01	-2.0124	0.7828	1.82E-02	0.4369	0.0536	3.66E-15	0.4476	0.0538	4.76E-16
triglycerides_in_large_ldl	12.99	10.76	2.90E-01	22.83	10.06	3.96E-02	16.38	9.10	1.04E-01	19.71	9.62	6.34E-02	3.63E-03	9.78E-04	3.20E-03	4.87E-03	9.94E-04	1.84E-05	-3.29E-06	1.03E-06	6.48E-03	-2.97E-06	9.58E-07	8.16E-03	-0.0012	0.0341	9.76E-01	-0.5615	0.9820	6.00E-01	-0.1843	0.0673	1.16E-02	-0.1328	0.0676	6.90E-02
concentration_of_medium_ldl_particles	29.30	10.44	1.84E-02	34.79	9.76	1.47E-03	35.15	8.83	3.49E-04	37.99	9.33	2.72E-04	2.60E-03	9.50E-04	1.70E-02	2.62E-02	2.62E-02	-3.05E-06	9.98E-07	9.08E-03	-3.02E-06	9.30E-07	7.04E-03	0.0158	0.0322	7.01E-01	-3.7171	0.9594	5.25E-04	0.4999	0.0657	2.22E-13	0.6048	0.0659	6.02E-19	
total lipids_in_medium_ldl	29.06	10.00	1.69E-02	35.87	9.35	6.34E-04	31.61	8.46	6.98E-04	33.08	8.94	8.77E-04	2.92E-03	9.10E-04	7.84E-03	2.66E-03	9.24E-04	9.41E-03	-3.32E-06	9.56E-07	4.33E-03	-2.89E-06	8.91E-07	7.04E-03	-0.0334	0.0304	4.33E-01	-4.0724	0.9116	8.53E-05	0.4203	0.0624	6.30E-11	0.5107	0.0627	1.68E-15
phospholipids_in_medium_ldl	30.34	10.26	1.67E-02	37.78	9.59	5.04E-04	30.79	8.68	1.33E-03	32.43	9.17	1.46E-03	2.94E-03	9.33E-04	8.15E-03	2.25E-03	9.48E-04	1.12E-02	-3.51E-06	9.80E-07	4.33E-03	-2.95E-06	9.13E-07	7.04E-03	-0.0413	0.0313	3.42E-01	-4.2586	0.9371	7.70E-05	0.4146	0.0641	3.29E-10	0.5003	0.0644	2.91E-14
cholesterol_in_medium_ldl	27.86	9.61	1.69E-02	33.46	8.98	8.53E-04	30.53	8.12	6.71E-04	31.79	8.59	8.77E-04	2.65E-03	8.74E-04	9.07E-03	2.28E-03	8.88E-04	2.04E-02	-3.05E-06	9.18E-07	5.40E-03	-2.65E-06	8.55E-07	8.16E-03	-0.0342	0.0245	3.31E-01	-2.9141	0.7741	7.00E-04	0.3783	0.0530	4.72E-12	0.4486	0.0532	2.43E-16
cholesteryl_esters_in_medium_ldl	27.17	9.24	1.69E-02	32.70	8.64	7.58E-04	30.82	7.81	3.95E-04	31.82	8.26	5.29E-04	2.75E-03	8.40E-04	6.89E-03	2.55E-03	8.54E-04	7.02E-03	-2.91E-06	8.83E-07	5.69E-03	-2.71E-06	8.23E-07	7.04E-03	-0.0326	0.0235	3.31E-01	-2.8491	0.7456	6.17E-04	0.3400	0.0511	1.03E-10	0.4188	0.0513	1.52E-15
free_cholesterol_in_medium_ldl	25.94	9.78	2.46E-02	29.64	9.15	3.49E-03	24.45	8.27	4.79E-03	26.13	8.74	5.97E-03	1.83E-03	8.90E-04	6.68E-02	1.04E-03	9.04E-04	3.07E-01	-9.83E-06	9.35E-07	9.10E-03	-1.93E-06	8.71E-07	4.50E-02	-0.0214	0.0235	3.57E-01	-2.7729	0.7478	8.16E-04	0.3972	0.0512	7.88E-14	0.4302	0.0514	3.52E-16
triglycerides_in_medium_ldl	14.94	9.29	1.53E-01	23.97	8.68	1.23E-02	21.65	7.85	1.24E-02	23.30	8.30	9.91E-03	3.51E-03	8.44E-04	2.55E-03	4.69E-03	8.57E-04	2.58E-06	-2.60E-06	8.87E-07	1.09E-02	-2.84E-06	8.26E-07	7.04E-03	0.0051	0.0285	9.04E-01	-1.1820	0.8436	2.07E-01	-0.1156	0.0577	7.26E-02	-0.0358	0.0579	6.07E-01
concentration_of_small_ldl_particles	36.20	12.52	1.69E-02	47.21	11.70	3.94E-04	44.65	10.58	1.83E-04	49.55	11.18	1.34E-04	3.36E-03	1.14E-03	1.06E-02	3.48E-03	1.16E-03	6.86E-03	-3.71E-06	1.20E-06	8.11E-03	-3.65E-06	1.11E-06	7.04E-03	0.0714	0.0384	1.44E-01	-4.2602	1.1455	8.00E-04	0.5601	0.0784	4.70E-12	0.6844	0.0787	3.30E-17
total lipids_in_small_ldl	32.86	11.92	2.01E-02	43.69	11.14	5.18E-04	36.55	10.08	1.06E-03	39.36	10.65	8.74E-04	3.51E-03	1.08E-03	7.47E-03	3.27E-03	1.10E-03	7.35E-03	-3.93E-06	1.14E-06	4.33E-03	-3.54E-06	1.06E-06	7.04E-03	0.0242	0.0363	6.16E-01	-4.7074	1.0836	1.42E-04	0.4852	0.0742	2.07E-10	0.5923	0.0745	7.26E-15
phospholipids_in_small_ldl	27.92	12.82	5.75E-02	41.86	11.98	1.79E-03	29.61	10.84	1.32E-02	33.30	11.46	5.77E-03	3.40E-03	1.17E-03	1.12E-02	2.93E-03	1.18E-03	2.49E-02	-3.91E-06	1.22E-06	6.48E-03	-3.41E-06	1.14E-06	1.06E-02	0.1034	0.0380	2.48E-02	-4.8021	1.1394	1.92E-04	0.4635	0.0780	7.82E-09	0.5404	0.0783	1.45E-11
cholesterol_in_small_ldl	32.35	11.12	1.69E-02	40.62	10.40	5.18E-04	38.00	9.94	5.66E-03	38.00	9.94	5.66E-03	3.07E-03	1.01E-03	9.07E-03	2.69E-03	1.10E-03	1.87E-02	-3.66E-06	1.06E-06	4.33E-03	-3.17E-06	9.90E-07	7.04E-03	-0.0222	0.0277	5.50E-01	-3.7778	0.8834	1.99E-03	0.4285	0.0605	6.44E-12	0.5407	0.0607	5.06E-16
cholesteryl_esters_in_small_ldl	33.42	10.84	1.43E-02	41.50	10.13	3.82E-04	37.80	9.16	2.21E-04	40.13	9.68	2.27E-04	3.33E-03	9.86E-04	5.39E-03	3.23E-03	1.00E-03	3.94E-03	-3.68E-06	1.04E-06	4.33E-03	-3.39E-06	9.65E-07	7.04E-03	-0.0318	0.0271	4.02E-01	-2.8462	0.8641	2.43E-03	0.3913	0.0592	1.33E-10	0.4799	0.0594	2.84E-15
free_cholesterol_in_small_ldl	21.65	10.15	6.30E-02	25.12	9.50	1.60E-02	20.56	8.59	3.08E-02	22.13	9.08	2.56E-02	1.55E-03	9.23E-04	1.28E-01	6.21E-04	9.38E-04	5.75E-01	-2.44E-06	9.70E-07	2.68E-02	-1.71E-06	9.04E-07	8.80E-02	0.0272	0.0236	4.09E-01	-3.1711	0.7340	1.92E-04	0.3685	0.0516	4.70E-12	0.4012	0.0518	3.32E-14
triglycerides_in_small_ldl	16.48	8.08	2.78E-02	22.34	7.56	7.78E-03	23.22	6.84	2.02E-03	23.92	7.22	2.37E-03	2.93E-03	7.34E-04	2.55E-03	4.10E-03	7.46E-04	2.58E-06	-1.67E-06	7.72E-07	5.91E-02	-2.44E-06	7.19E-07	7.04E-03	0.0333	0.0248	3.40E-01	-1.4903	0.7357	5.64E-02	-0.0811	0.0502	1.53E-01	0.4198	0.0504	7.33E-01
concentration_of_very_large_hdl_particles	-12.62	7.74	1.48E-01	-8.37	7.24	2.90E-01	0.57	6.55	9.36E-01	4.35	6.92	5.99E-01	-1.24E-03	7.03E-04	1.08E-01	-1.87E-03	7.14E-04	1.87E-02	-2.57E-07	7.38E-07	7.92E-01	1.05E-06	6.88E-07	1.71E-01	0.1550	0.0235	5.29E-10	1.4039	0.7040	6.96E-02	0.1647</					

Supplementary Table 4: Results of MR analysis

Metabolite	method	Exposure: Metabolite Levels			Exposure: Alzheimer's disease				
		nsnp	b	se	pval	Nsnps	effect	se	p-val
3Hydroxybutyrate_levels	Inverse variance weighted	14	2.4999159	1.910119	0.1906106	19	0.025999	0.009446	0.005916
Average_diameter_for_HDL_particles	Inverse variance weighted	68	-0.1847789	0.243011	0.447031	19	-0.01812	0.010737	0.091511
Average_diameter_for_VLDL_particles	Inverse variance weighted	57	0.0860684	0.05115	0.0924373	19	-0.02527	0.019338	0.191346
Cholesterol_levels_in_IDL	Inverse variance weighted	52	0.4094006	0.210968	0.0523091	19	0.204253	0.083455	0.014387
Cholesterol_levels_in_chylomicrons_and_extremely_large_VLDL	Inverse variance weighted	48	0.1167867	0.069226	0.0915975	19	-0.04797	0.032058	0.134574
Cholesterol_levels_in_large_HDL	Inverse variance weighted	86	-0.0106923	0.056407	0.8496578	19	0.021688	0.015504	0.161874
Cholesterol_levels_in_large_VLDL	Inverse variance weighted	41	0.0325797	0.051615	0.5279054	19	0.034978	0.015428	0.023385
Cholesterol_levels_in_very_large_HDL	Inverse variance weighted	68	-0.0166358	0.081669	0.8385899	19	0.093352	0.03837	0.014977
Cholesterol_levels_in_very_large_VLDL	Inverse variance weighted	41	0.0468663	0.052721	0.3740263	19	0.034155	0.01479	0.020929
Cholesteryl_ester_levels_in_HDL	Inverse variance weighted	70	-0.1148236	0.2662	0.6662182	19	-0.0048	0.012192	0.693838
Cholesteryl_ester_levels_in_IDL	Inverse variance weighted	53	0.4046036	0.211802	0.0560954	19	0.207093	0.085265	0.015148
Cholesteryl_ester_levels_in_chylomicrons_and_extremely_large_VLDL	Inverse variance weighted	51	0.114002	0.067211	0.0898518	19	-0.03836	0.029032	0.186348
Cholesteryl_ester_levels_in_large_HDL	Inverse variance weighted	86	-0.1288234	0.166065	0.4379023	19	0.018181	0.014418	0.207318
Cholesteryl_ester_levels_in_large_VLDL	Inverse variance weighted	43	0.0428584	0.071125	0.5467894	19	0.045814	0.018558	0.013558
Cholesteryl_ester_levels_in_very_large_HDL	Inverse variance weighted	74	-0.0173279	0.07797	0.8241294	19	0.085436	0.035252	0.015368
Cholesteryl_ester_levels_in_very_large_VLDL	Inverse variance weighted	46	0.3451768	0.189429	0.0684252	19	0.054946	0.019805	0.005531
Cholesteryl_ester_levels_in_very_small_VLDL	Inverse variance weighted	48	0.1755732	0.178974	0.3265943	19	0.139886	0.057629	0.015209
Concentration_of_IDL_particles	Inverse variance weighted	42	0.3914031	0.239546	0.1022724	19	0.200399	0.080766	0.013093
Concentration_of_chylomicrons_and_extremely_large_VLDL_particles	Inverse variance weighted	47	0.1456189	0.079877	0.0682957	19	-0.04704	0.030243	0.11989
Concentration_of_large_HDL_particles	Inverse variance weighted	78	-0.0874778	0.177641	0.6224063	19	0.009376	0.01182	0.427634
Concentration_of_large_VLDL_particles	Inverse variance weighted	46	0.0568864	0.051339	0.2678336	19	0.014589	0.012625	0.247859
Concentration_of_small_VLDL_particles	Inverse variance weighted	49	0.2877786	0.174027	0.0981997	19	0.053284	0.018205	0.003424
Concentration_of_very_large_HDL_particles	Inverse variance weighted	71	-0.0133306	0.101658	0.8956713	19	0.081169	0.030732	0.008262
Concentration_of_very_large_VLDL_particles	Inverse variance weighted	48	0.0450824	0.054378	0.407068	19	0.000499	0.013858	0.971283
Free_cholesterol_levels_in_HDL	Inverse variance weighted	67	-0.1054836	0.201813	0.6011962	19	0.018965	0.015581	0.223532
Free_cholesterol_levels_in_IDL	Inverse variance weighted	48	0.349903	0.217667	0.107941	19	0.191953	0.076627	0.012244
Free_cholesterol_levels_in_LDL	Inverse variance weighted	40	0.5373092	0.247927	0.0302187	19	0.22953	0.089013	0.00992
Free_cholesterol_levels_in_chylomicrons_and_extremely_large_VLDL	Inverse variance weighted	45	0.1278089	0.07342	0.0817208	19	-0.05813	0.0351	0.097675
Free_cholesterol_levels_in_large_HDL	Inverse variance weighted	70	-0.0426492	0.044528	0.3381613	19	0.032016	0.018983	0.091693
Free_cholesterol_levels_in_large_LDL	Inverse variance weighted	50	0.4881246	0.217707	0.024954	19	0.220439	0.085404	0.009847
Free_cholesterol_levels_in_large_VLDL	Inverse variance weighted	44	0.0630033	0.052702	0.2319086	19	0.024275	0.013217	0.066263
Free_cholesterol_levels_in_medium_LDL	Inverse variance weighted	42	0.5763227	0.238499	0.0156725	19	0.229376	0.088268	0.009359
Free_cholesterol_levels_in_small_LDL	Inverse variance weighted	45	0.5601642	0.217477	0.0100026	19	0.260447	0.102637	0.011163
Free_cholesterol_levels_in_very_large_HDL	Inverse variance weighted	58	0.0629242	0.149823	0.6744926	19	0.115595	0.047495	0.01494
Free_cholesterol_levels_in_very_large_VLDL	Inverse variance weighted	46	0.0608493	0.055258	0.2708128	19	0.011212	0.013462	0.404924
HDL_cholesterol_levels	Inverse variance weighted	68	-0.0663905	0.216328	0.7589211	19	0.000688	0.012577	0.956361
Isoleucine_levels	Inverse variance weighted	9	0.3973722	0.126882	0.0017373	19	-0.0189	0.005527	0.000627
LDL_cholesterol_levels	Inverse variance weighted	40	0.5076082	0.253144	0.0449399	19	0.20752	0.078811	0.00846
Leucine_levels	Inverse variance weighted	13	0.1560853	0.10411	0.1338107	19	-0.01764	0.005401	0.001092

Monounsaturated_fatty_acid_levels	Inverse variance weighted	55	-0.0167358	0.05877	0.7758234	19	0.017093	0.013582	0.2082
Omega3_fatty_acid_levels	Inverse variance weighted	43	0.0092064	0.034398	0.7889727	19	0.018908	0.011079	0.087903
Phospholipid_levels_in_IDL	Inverse variance weighted	48	0.2971408	0.204233	0.1456942	19	0.182258	0.071149	0.010418
Phospholipid_levels_in_VLDL	Inverse variance weighted	42	0.3123074	0.19884	0.1162651	19	0.054611	0.019962	0.006224
Phospholipid_levels_in_chylomicrons_and_extremely_large_VLDL	Inverse variance weighted	47	0.1116186	0.078145	0.1531904	19	-0.05696	0.034794	0.101646
Phospholipid_levels_in_large_HDL	Inverse variance weighted	71	-0.1219099	0.230326	0.5966019	19	-0.00855	0.010897	0.432824
Phospholipid_levels_in_large_LDL	Inverse variance weighted	41	0.509933	0.251215	0.0423697	19	0.20773	0.08102	0.010349
Phospholipid_levels_in_large_VLDL	Inverse variance weighted	47	0.059572	0.050747	0.2404311	19	0.010538	0.012744	0.408301
Phospholipid_levels_in_small_HDL	Inverse variance weighted	46	0.0540576	0.07725	0.4840648	19	-0.06158	0.024181	0.010877
Phospholipid_levels_in_small_LDL	Inverse variance weighted	39	0.4999824	0.228427	0.028611	19	0.259255	0.09973	0.009334
Phospholipid_levels_in_very_large_VLDL	Inverse variance weighted	48	0.0507253	0.053113	0.3395573	19	0.005061	0.013746	0.712757
Ratio_of_omega6_fatty_acids_to_omega3_fatty_acids	Inverse variance weighted	25	-0.0465943	0.035995	0.195508	19	0.015544	0.015575	0.318278
Ratio_of_triglycerides_to_phosphoglycerides	Inverse variance weighted	61	0.0779151	0.081231	0.3374684	19	-0.03219	0.022338	0.149537
Sphingomyelin_levels	Inverse variance weighted	57	0.2789145	0.201142	0.1655462	19	0.139383	0.057073	0.014598
Total_concentration_of_branchedchain_amino_acids_leucine_isoleucine_valine	Inverse variance weighted	14	0.187337	0.099936	0.0608522	19	-0.02146	0.005569	0.000117
Total_esterified_cholesterol_levels	Inverse variance weighted	51	0.3752523	0.228215	0.1001163	19	0.16446	0.06403	0.010214
Total_lipid_levels_in_IDL	Inverse variance weighted	48	0.3457557	0.213785	0.1058117	19	0.194315	0.077887	0.012602
Total_lipid_levels_in_VLDL	Inverse variance weighted	43	0.0201751	0.060695	0.7395866	19	0.034367	0.015508	0.026683
Total_lipid_levels_in_chylomicrons_and_extremely_large_VLDL	Inverse variance weighted	45	0.1675	0.080984	0.0386101	19	-0.04811	0.030076	0.109666
Total_lipid_levels_in_large_HDL	Inverse variance weighted	77	-0.0845101	0.175969	0.6310464	19	0.003093	0.011461	0.787278
Total_lipid_levels_in_large_VLDL	Inverse variance weighted	47	0.0634888	0.053577	0.2360201	19	0.018095	0.013081	0.166568
Total_lipid_levels_in_small_HDL	Inverse variance weighted	41	0.0799984	0.074941	0.2857491	19	-0.03252	0.015957	0.041567
Total_lipid_levels_in_small_VLDL	Inverse variance weighted	50	0.2656371	0.164054	0.1054027	19	0.057967	0.019919	0.003613
Total_lipid_levels_in_very_large_HDL	Inverse variance weighted	61	-0.0280566	0.060303	0.6417439	19	0.06573	0.027381	0.01637
Total_lipid_levels_in_very_large_VLDL	Inverse variance weighted	47	0.0642061	0.058463	0.272104	19	-0.00038	0.013868	0.978168
Total_triglycerides_levels	Inverse variance weighted	50	0.0582116	0.053271	0.2745061	19	-0.01695	0.017992	0.346044
Triglyceride_levels_in_HDL	Inverse variance weighted	45	-0.0224878	0.067211	0.737936	19	-0.08896	0.042331	0.035585
Triglyceride_levels_in_VLDL	Inverse variance weighted	49	0.0565433	0.052337	0.2799754	19	-0.0129	0.016426	0.432118
Triglyceride_levels_in_chylomicrons_and_extremely_large_VLDL	Inverse variance weighted	45	0.1555667	0.076709	0.04256	19	-0.04551	0.027768	0.101245
Triglyceride_levels_in_large_VLDL	Inverse variance weighted	45	0.0938432	0.059632	0.1155573	19	0.010543	0.012417	0.395834
Triglyceride_levels_in_medium_HDL	Inverse variance weighted	42	-0.1826681	0.217293	0.4005422	19	-0.10669	0.046553	0.021917
Triglyceride_levels_in_medium_VLDL	Inverse variance weighted	43	0.0718347	0.054142	0.1845795	19	0.017291	0.013094	0.186662
Triglyceride_levels_in_small_HDL	Inverse variance weighted	48	0.0074075	0.052066	0.8868643	19	-0.05683	0.030863	0.065576
Triglyceride_levels_in_small_LDL	Inverse variance weighted	51	0.0127284	0.04972	0.797949	19	0.004844	0.017144	0.777505
Triglyceride_levels_in_small_VLDL	Inverse variance weighted	58	0.005075	0.054581	0.9259185	19	-0.03416	0.023044	0.138258
Triglyceride_levels_in_very_large_VLDL	Inverse variance weighted	55	0.0745541	0.052032	0.1519033	19	-0.01808	0.016785	0.281432
Triglyceride_levels_in_very_small_VLDL	Inverse variance weighted	59	-0.0232492	0.038751	0.5485291	19	-0.02957	0.025011	0.237165
Valine_levels	Inverse variance weighted	15	0.1668779	0.093683	0.074863	19	-0.02275	0.007267	0.001744

Supplementary Table 5: Results of MR: Pleiotropy

Metabolite	Exposure: Metabolite			Exposure: Alzheimer's			
	p-value	egger_intercept	se	pval	egger_intercept	se	pval
3Hydroxybutyrate_levels	0.0866034	-0.1059262	0.240789	0.667819	-0.0053565	0.002624	0.057035
Average_diameter_for_HDL_particles	0.0037419	-0.011045	0.020304	0.58828	0.0056362	0.003033	0.080503
Average_diameter_for_VLDL_particles	0.9981651	-0.0050923	0.004499	0.262555	0.0007166	0.005987	0.906132
Cholesterol_levels_in_IDL	2.50E-06	-0.0199088	0.021425	0.35723	-0.0207811	0.025405	0.424673
Cholesterol_levels_in_chylomicrons_and_extremely_large_VLDL	0.1525129	0.0049307	0.006301	0.437878	0.0033834	0.009897	0.736654
Cholesterol_levels_in_large_HDL	0.9465428	0.003944	0.004612	0.394856	0.0022441	0.004772	0.644159
Cholesterol_levels_in_large_VLDL	0.0000393	-0.0053251	0.005285	0.319845	-0.0052616	0.004607	0.269238
Cholesterol_levels_in_very_large_HDL	0.0019865	0.0075689	0.006944	0.279659	-0.0072766	0.01176	0.544266
Cholesterol_levels_in_very_large_VLDL	0.0000863	-0.006544	0.005332	0.227046	-0.0056206	0.004375	0.216127
Cholesteryl_ester_levels_in_HDL	0.1503739	-0.0054229	0.022396	0.809404	0.0071049	0.003362	0.049631
Cholesteryl_ester_levels_in_IDL	2.30E-06	-0.024312	0.021536	0.264215	-0.0210408	0.025966	0.428961
Cholesteryl_ester_levels_in_chylomicrons_and_extremely_large_VLDL	0.3474271	0.0048321	0.005857	0.413369	0.0021637	0.008979	0.812448
Cholesteryl_ester_levels_in_large_HDL	0.8050421	-0.0035582	0.013649	0.794963	0.0027223	0.004417	0.545874
Cholesteryl_ester_levels_in_large_VLDL	0.0000111	-0.0103366	0.007148	0.155774	-0.0060541	0.00556	0.29141
Cholesteryl_ester_levels_in_very_large_HDL	0.0035701	0.0081871	0.006426	0.206722	-0.006084	0.010824	0.581398
Cholesteryl_ester_levels_in_very_large_VLDL	0.0000019	-0.0214324	0.019356	0.27419	-0.0079048	0.00583	0.192859
Cholesteryl_ester_levels_in_very_small_VLDL	0.0000082	0.0070003	0.018248	0.70302	-0.0135619	0.017566	0.450673
Concentration_of_IDL_particles	1.20E-06	-0.0211033	0.02528	0.408805	-0.0216075	0.024506	0.390221
Concentration_of_chylomicrons_and_extremely_large_VLDL_particles	0.1315281	0.0047651	0.006966	0.497476	0.0034845	0.00933	0.713427
Concentration_of_large_HDL_particles	0.4162381	-0.0043805	0.014751	0.767303	0.003586	0.003557	0.327515
Concentration_of_large_VLDL_particles	0.0026251	-0.0051643	0.00501	0.308296	-0.0032196	0.003832	0.412507
Concentration_of_small_VLDL_particles	0.0000131	-0.0175142	0.018353	0.344817	-0.0067902	0.005396	0.225227
Concentration_of_very_large_HDL_particles	0.0054483	0.0028488	0.008534	0.739519	-0.0059584	0.009413	0.535168
Concentration_of_very_large_VLDL_particles	0.0558164	-0.0072273	0.005076	0.161224	-0.001906	0.004268	0.660802
Free_cholesterol_levels_in_HDL	0.6811744	-0.0040957	0.019108	0.83095	0.0035695	0.004749	0.462541
Free_cholesterol_levels_in_IDL	3.00E-06	-0.0159952	0.022923	0.488824	-0.0196093	0.023294	0.411579
Free_cholesterol_levels_in_LDL	8.00E-07	-0.0270387	0.025695	0.299313	-0.0245006	0.026982	0.376554
Free_cholesterol_levels_in_chylomicrons_and_extremely_large_VLDL	0.0555919	0.0023821	0.006601	0.719971	0.0048685	0.01081	0.658117
Free_cholesterol_levels_in_large_HDL	0.3721438	0.0009771	0.003814	0.79859	0.0008394	0.005878	0.888111
Free_cholesterol_levels_in_large_LDL	1.00E-06	-0.024349	0.020485	0.240428	-0.0231346	0.025905	0.384301
Free_cholesterol_levels_in_large_VLDL	0.0002547	-0.0035328	0.005265	0.505858	-0.004451	0.00395	0.275444
Free_cholesterol_levels_in_medium_LDL	0.0000005	-0.0254991	0.023173	0.277735	-0.0250516	0.026712	0.361453
Free_cholesterol_levels_in_small_LDL	0.0000008	-0.0270441	0.021346	0.211992	-0.0289771	0.03109	0.364361
Free_cholesterol_levels_in_very_large_HDL	0.0004856	0.0122792	0.013733	0.375067	-0.0112271	0.01447	0.448463
Free_cholesterol_levels_in_very_large_VLDL	0.0152384	-0.0039234	0.005129	0.448388	-0.0030355	0.004105	0.469696
HDL_cholesterol_levels	0.3180773	-0.0036198	0.018825	0.84811	0.0063338	0.003581	0.094866
Isoleucine_levels	0.4531053	0.0215517	0.018619	0.285028	-0.0002587	0.001665	0.878336
LDL_cholesterol_levels	0.0000004	-0.0283128	0.026341	0.28922	-0.0220597	0.023859	0.36812
Leucine_levels	0.2587126	0.0009428	0.011868	0.938109	-0.0003902	0.001627	0.813293

Monounsaturated_fatty_acid_levels	0.0078	-7.20E-05	0.005322	0.989252	-0.00141	0.004194	0.740819
Omega3_fatty_acid_levels	0.8996234	-0.0003017	0.004105	0.941776	0.0002404	0.003431	0.944949
Phospholipid_levels_in_IDL	0.0000021	-0.0047643	0.01988	0.81166	-0.0182025	0.021627	0.411659
Phospholipid_levels_in_VLDL	0.0000079	-0.0273453	0.022462	0.230581	-0.0068983	0.005955	0.262722
Phospholipid_levels_in_chylomicrons_and_extremely_large_VLDL	0.0626596	0.0007611	0.006802	0.911407	0.0045007	0.010723	0.679948
Phospholipid_levels_in_large_HDL	0.0530478	-0.0074132	0.02076	0.722114	0.0058698	0.003061	0.072113
Phospholipid_levels_in_large_LDL	0.0000006	-0.0242996	0.024839	0.333967	-0.0219303	0.024569	0.384535
Phospholipid_levels_in_large_VLDL	0.0062545	-0.0046437	0.005066	0.364172	-0.0028589	0.003886	0.471992
Phospholipid_levels_in_small_HDL	0.0051455	-0.0011933	0.007569	0.875436	0.0116966	0.006936	0.109971
Phospholipid_levels_in_small_LDL	0.0000004	-0.0325441	0.023605	0.176273	-0.0290993	0.030157	0.348112
Phospholipid_levels_in_very_large_VLDL	0.042181	-0.006791	0.004908	0.173125	-0.0024025	0.004218	0.576414
Ratio_of_omega6_fatty_acids_to_omega3_fatty_acids	0.0019008	-0.0064692	0.004909	0.200529	-0.0031036	0.004764	0.523449
Ratio_of_triglycerides_to_phosphoglycerides	0.475174	-0.0046172	0.007087	0.517227	0.0001922	0.00692	0.978166
Sphingomyelin_levels	0.0000115	0.0134014	0.02031	0.512113	-0.0118136	0.017464	0.50784
Total_concentration_of_branchedchain_amino_acids_leucine_isoleucine_valine	0.1173636	0.0022913	0.010358	0.828645	0.0008211	0.001714	0.638006
Total_esterified_cholesterol_levels	0.0000022	-0.0083297	0.023923	0.729191	-0.0150874	0.019519	0.450151
Total_lipid_levels_in_IDL	0.000002	-0.0130051	0.022257	0.561859	-0.0196723	0.023692	0.417848
Total_lipid_levels_in_VLDL	0.0001361	-0.0063646	0.005875	0.284954	-0.0047368	0.004665	0.324183
Total_lipid_levels_in_chylomicrons_and_extremely_large_VLDL	0.1221726	0.0087011	0.006789	0.206833	0.0036534	0.009274	0.698526
Total_lipid_levels_in_large_HDL	0.2312503	-0.0055107	0.015153	0.717133	0.004402	0.003386	0.210962
Total_lipid_levels_in_large_VLDL	0.0005641	-0.0036954	0.005003	0.46394	-0.0033637	0.003969	0.408539
Total_lipid_levels_in_small_HDL	0.2372156	0.006801	0.007203	0.350888	0.0079688	0.004551	0.097973
Total_lipid_levels_in_small_VLDL	0.0000059	-0.0134691	0.01729	0.439802	-0.006931	0.005939	0.25933
Total_lipid_levels_in_very_large_HDL	0.0237651	0.0068339	0.004975	0.174756	-0.004141	0.008425	0.629329
Total_lipid_levels_in_very_large_VLDL	0.0703555	-0.0060316	0.005379	0.268121	-0.0015578	0.004279	0.720321
Total_triglycerides_levels	0.800779	-0.005967	0.004679	0.208334	0.0008138	0.00557	0.885564
Triglyceride_levels_in_HDL	0.0013496	0.0056068	0.007021	0.428916	0.0101237	0.012887	0.442933
Triglyceride_levels_in_VLDL	0.4961778	-0.0046574	0.004555	0.311805	0.0003156	0.005087	0.951259
Triglyceride_levels_in_chylomicrons_and_extremely_large_VLDL	0.1178345	0.0074681	0.006385	0.248579	0.00358	0.008557	0.680916
Triglyceride_levels_in_large_VLDL	0.0020592	-0.0035734	0.005413	0.512639	-0.0022509	0.003808	0.562193
Triglyceride_levels_in_medium_HDL	0.0003526	0.0088705	0.023839	0.711784	0.0125826	0.014103	0.384736
Triglyceride_levels_in_medium_VLDL	0.0011402	-0.0037831	0.005288	0.478441	-0.0023288	0.004017	0.569713
Triglyceride_levels_in_small_HDL	0.0506968	-0.0018179	0.005443	0.739909	0.0045768	0.009497	0.636017
Triglyceride_levels_in_small_LDL	0.3076731	-0.0016944	0.00478	0.724479	-0.0015193	0.005298	0.77775
Triglyceride_levels_in_small_VLDL	0.2580095	-0.0057347	0.004794	0.236623	0.0031348	0.007099	0.66434
Triglyceride_levels_in_very_large_VLDL	0.6218147	-0.0029417	0.004475	0.513801	0.000673	0.005196	0.898477
Triglyceride_levels_in_very_small_VLDL	0.1879257	-0.0002438	0.003629	0.946679	0.0032678	0.007709	0.676959
Valine_levels	0.0480172	-0.0009095	0.010669	0.933364	0.0019652	0.002201	0.384402

Supplementary Table 6: Results for Steiger test for directionality in MR

Metabolite	Exposure: Metabolites				Exposure: Alzheimer's			
	snp_r2.exposure	snp_r2.outcome	correct_causal_direction	steiger_pval	snp_r2.exposure	snp_r2.outcome	correct_causal_direction	steiger_pval
3Hydroxybutyrate_levels	0.0097787	0.0152008	FALSE	6.00E-07	0.0394858	0.000655	TRUE	0
Average_diameter_for_HDL_particles	0.0718127	0.0172946	TRUE	0	0.0394858	0.00087	TRUE	0
Average_diameter_for_VLDL_particles	0.0906598	0.0014131	TRUE	0	0.0394858	0.0023493	TRUE	0
Cholesterol_levels_in_IDL	0.0527887	0.0155121	TRUE	0	0.0394858	0.0152054	TRUE	0
Cholesterol_levels_in_chylomicrons_and_extremely_large_VLDL	0.0760795	0.0016154	TRUE	0	0.0394858	0.0061635	TRUE	0
Cholesterol_levels_in_large_HDL	0.0946298	0.0036171	TRUE	0	0.0394858	0.0017154	TRUE	0
Cholesterol_levels_in_large_VLDL	0.0720762	0.0011096	TRUE	0	0.0394858	0.0016106	TRUE	0
Cholesterol_levels_in_very_large_HDL	0.0780306	0.0052408	TRUE	0	0.0394858	0.0118248	TRUE	0
Cholesterol_levels_in_very_large_VLDL	0.0719185	0.0010588	TRUE	0	0.0394858	0.0014976	TRUE	0
Cholesteryl_ester_levels_in_HDL	0.0795715	0.0175663	TRUE	0	0.0394858	0.0009291	TRUE	0
Cholesteryl_ester_levels_in_IDL	0.0509737	0.0155947	TRUE	0	0.0394858	0.015263	TRUE	0
Cholesteryl_ester_levels_in_chylomicrons_and_extremely_large_VLDL	0.0753105	0.0016114	TRUE	0	0.0394858	0.0049153	TRUE	0
Cholesteryl_ester_levels_in_large_HDL	0.0959873	0.0177732	TRUE	0	0.0394858	0.001451	TRUE	0
Cholesteryl_ester_levels_in_large_VLDL	0.0695716	0.0017215	TRUE	0	0.0394858	0.0023641	TRUE	0
Cholesteryl_ester_levels_in_very_large_HDL	0.0801888	0.0053237	TRUE	0	0.0394858	0.010108	TRUE	0
Cholesteryl_ester_levels_in_very_large_VLDL	0.0696099	0.0113692	TRUE	0	0.0394858	0.0028789	TRUE	0
Cholesteryl_ester_levels_in_very_small_VLDL	0.0635231	0.0131607	TRUE	0	0.0394858	0.0136461	TRUE	0
Concentration_of_IDL_particles	0.0489406	0.0156251	TRUE	0	0.0394858	0.0150876	TRUE	0
Concentration_of_chylomicrons_and_extremely_large_VLDL_particles	0.0715289	0.001825	TRUE	0	0.0394858	0.0055698	TRUE	0
Concentration_of_large_HDL_particles	0.0868754	0.0175596	TRUE	0	0.0394858	0.0009533	TRUE	0
Concentration_of_large_VLDL_particles	0.0754243	0.000997	TRUE	0	0.0394858	0.0009392	TRUE	0
Concentration_of_small_VLDL_particles	0.0750797	0.011526	TRUE	0	0.0394858	0.0025229	TRUE	0
Concentration_of_very_large_HDL_particles	0.0718062	0.008628	TRUE	0	0.0394858	0.0079873	TRUE	0
Concentration_of_very_large_VLDL_particles	0.0767908	0.0011226	TRUE	0	0.0394858	0.0010573	TRUE	0
Free_cholesterol_levels_in_HDL	0.0780521	0.0175191	TRUE	0	0.0394858	0.0016724	TRUE	0
Free_cholesterol_levels_in_IDL	0.0542249	0.0154072	TRUE	0	0.0394858	0.0149133	TRUE	0
Free_cholesterol_levels_in_LDL	0.045884	0.0153503	TRUE	0	0.0394858	0.0163195	TRUE	0
Free_cholesterol_levels_in_chylomicrons_and_extremely_large_VLDL	0.0731807	0.0015849	TRUE	0	0.0394858	0.0075774	TRUE	0
Free_cholesterol_levels_in_large_HDL	0.0830607	0.0017434	TRUE	0	0.0394858	0.0027009	TRUE	0
Free_cholesterol_levels_in_large_LDL	0.0489236	0.0155465	TRUE	0	0.0394858	0.0160427	TRUE	0
Free_cholesterol_levels_in_large_VLDL	0.0737584	0.0010063	TRUE	0	0.0394858	0.0011255	TRUE	0
Free_cholesterol_levels_in_medium_LDL	0.0452195	0.0155656	TRUE	0	0.0394858	0.0163606	TRUE	0
Free_cholesterol_levels_in_small_LDL	0.0502627	0.0155582	TRUE	0	0.0394858	0.0172688	TRUE	0
Free_cholesterol_levels_in_very_large_HDL	0.0712294	0.0133315	TRUE	0	0.0394858	0.0129965	TRUE	0
Free_cholesterol_levels_in_very_large_VLDL	0.0752313	0.0011394	TRUE	0	0.0394858	0.001022	TRUE	0
HDL_cholesterol_levels	0.0806412	0.0176491	TRUE	0	0.0394858	0.0009912	TRUE	0
Isoleucine_levels	0.0078613	0.0003247	TRUE	0	0.0394858	0.0002289	TRUE	0
LDL_cholesterol_levels	0.0442863	0.0155659	TRUE	0	0.0394858	0.0158129	TRUE	0
Leucine_levels	0.0115167	0.0003449	TRUE	0	0.0394858	0.0001957	TRUE	0
Monounsaturated_fatty_acid_levels	0.0709021	0.0014297	TRUE	0	0.0394858	0.0010475	TRUE	0
Omega3_fatty_acid_levels	0.0610033	0.0014866	TRUE	0	0.0394858	0.0008579	TRUE	0
Phospholipid_levels_in_IDL	0.0612168	0.0157686	TRUE	0	0.0394858	0.0149207	TRUE	0
Phospholipid_levels_in_VLDL	0.0682222	0.0114838	TRUE	0	0.0394858	0.0028977	TRUE	0
Phospholipid_levels_in_chylomicrons_and_extremely_large_VLDL	0.0748602	0.0018312	TRUE	0	0.0394858	0.0074781	TRUE	0
Phospholipid_levels_in_large_HDL	0.087022	0.0172332	TRUE	0	0.0394858	0.0008054	TRUE	0
Phospholipid_levels_in_large_LDL	0.0445228	0.0156273	TRUE	0	0.0394858	0.0155998	TRUE	0
Phospholipid_levels_in_large_VLDL	0.0768945	0.0010265	TRUE	0	0.0394858	0.0009216	TRUE	0
Phospholipid_levels_in_small_HDL	0.0471609	0.0017093	TRUE	0	0.0394858	0.0039986	TRUE	0

Phospholipid_levels_in_small_LDL	0.0519888	0.0152447	TRUE	0	0.0394858	0.0176914	TRUE	0
Phospholipid_levels_in_very_large_VLDL	0.0759859	0.0010674	TRUE	0	0.0394858	0.001038	TRUE	0
Ratio_of_omega6_fatty_acids_to_omega3_fatty_acids	0.0386138	0.0009933	TRUE	0	0.0394858	0.0014819	TRUE	0
Ratio_of_triglycerides_to_phosphoglycerides	0.0863447	0.0029879	TRUE	0	0.0394858	0.0032215	TRUE	0
Sphingomyelin_levels	0.0573889	0.0161188	TRUE	0	0.0394858	0.013953	TRUE	0
Total_concentration_of_branchedchain_amino_acids_leucine_isoleucine_vali	0.0133445	0.0002979	TRUE	0	0.0394858	0.0002978	TRUE	0
Total_esterified_cholesterol_levels	0.0478109	0.0161688	TRUE	0	0.0394858	0.0145837	TRUE	0
Total_lipid_levels_in_IDL	0.0551709	0.0154479	TRUE	0	0.0394858	0.015095	TRUE	0
Total_lipid_levels_in_VLDL	0.0730321	0.0013356	TRUE	0	0.0394858	0.0016142	TRUE	0
Total_lipid_levels_in_chylomicrons_and_extremely_large_VLDL	0.0693217	0.0019208	TRUE	0	0.0394858	0.0055203	TRUE	0
Total_lipid_levels_in_large_HDL	0.0896602	0.0172985	TRUE	0	0.0394858	0.0008678	TRUE	0
Total_lipid_levels_in_large_VLDL	0.0739015	0.0010621	TRUE	0	0.0394858	0.0010346	TRUE	0
Total_lipid_levels_in_small_HDL	0.0433926	0.0014581	TRUE	0	0.0394858	0.0015581	TRUE	0
Total_lipid_levels_in_small_VLDL	0.0737291	0.0133111	TRUE	0	0.0394858	0.0029813	TRUE	0
Total_lipid_levels_in_very_large_HDL	0.0700513	0.0026166	TRUE	0	0.0394858	0.0060536	TRUE	0
Total_lipid_levels_in_very_large_VLDL	0.075679	0.0011534	TRUE	0	0.0394858	0.0010553	TRUE	0
Total_triglycerides_levels	0.0764736	0.0010435	TRUE	0	0.0394858	0.0018344	TRUE	0
Triglyceride_levels_in_HDL	0.0771685	0.0019786	TRUE	0	0.0394858	0.0115088	TRUE	0
Triglyceride_levels_in_VLDL	0.0774706	0.0010021	TRUE	0	0.0394858	0.0015222	TRUE	0
Triglyceride_levels_in_chylomicrons_and_extremely_large_VLDL	0.0658709	0.0017005	TRUE	0	0.0394858	0.0047159	TRUE	0
Triglyceride_levels_in_large_VLDL	0.0726477	0.0011486	TRUE	0	0.0394858	0.0008878	TRUE	0
Triglyceride_levels_in_medium_HDL	0.0708394	0.0153432	TRUE	0	0.0394858	0.0130974	TRUE	0
Triglyceride_levels_in_medium_VLDL	0.0706573	0.001058	TRUE	0	0.0394858	0.0010166	TRUE	0
Triglyceride_levels_in_small_HDL	0.0824039	0.0010861	TRUE	0	0.0394858	0.0059997	TRUE	0
Triglyceride_levels_in_small_LDL	0.0827546	0.0012547	TRUE	0	0.0394858	0.0015827	TRUE	0
Triglyceride_levels_in_small_VLDL	0.0837519	0.0014776	TRUE	0	0.0394858	0.0031849	TRUE	0
Triglyceride_levels_in_very_large_VLDL	0.0795235	0.0012075	TRUE	0	0.0394858	0.0016447	TRUE	0
Triglyceride_levels_in_very_small_VLDL	0.0848285	0.0013095	TRUE	0	0.0394858	0.0035308	TRUE	0
Valine_levels	0.0188856	0.0004727	TRUE	0	0.0394858	0.0004371	TRUE	0

Supplementary Table 7: Distribution of BHBA over age in various APOE genotypes in UK Biobank

Age Group	APOE E4	Mean	SD	N	mean-diff	SE	T-test	p-value
(37,43)	0	-3.28198	0.935707	14882	Ref			
(37,43)	1	-3.22881	0.896696	5541	0.053171479	0.014281	3.723255	0.000197
(37,43)	2	-3.14434	0.816945	529	0.137645956	0.036338	3.787923	0.000152
(43,49)	0	-3.24298	0.932485	29452	Ref			
(43,49)	1	-3.18871	0.874627	10916	0.054266023	0.00998	5.437441	5.41E-08
(43,49)	2	-3.12528	0.848176	994	0.117698799	0.027446	4.288417	1.8E-05
(49,55)	0	-3.1773	0.91644	35085	Ref			
(49,55)	1	-3.14578	0.867465	12872	0.031514013	0.009077	3.471728	0.000517
(49,55)	2	-3.08532	0.760338	1179	0.091977196	0.022678	4.055832	5E-05
(55,61)	0	-3.11076	0.83245	47066	Ref			
(55,61)	1	-3.06289	0.79481	17282	0.047864398	0.007161	6.684211	2.32E-11
(55,61)	2	-3.02563	0.759692	1548	0.085125316	0.019686	4.324103	1.53E-05
(61,67)	0	-3.0368	0.80314	49523	Ref			
(61,67)	1	-2.9904	0.740777	17358	0.046395977	0.006681	6.944241	3.81E-12
(61,67)	2	-2.97442	0.736635	1438	0.062377219	0.019758	3.15707	0.001594
(67,73)	0	-2.98561	0.775256	13117	Ref			
(67,73)	1	-2.96893	0.712067	4337	0.016676755	0.012757	1.307306	0.191109
(67,73)	2	-2.91556	0.753565	330	0.070043867	0.042031	1.666478	0.095618

Supplementary Table 8: Distribution of BCAAs over age in various APOE genotypes in UK Biobank

Age Group	APOE E4	Valine			Leucine			Isoleucine								
		Mean	SE	N	T-test	P-value	Mean	SE	N	T-test	P-value	Mean	SE	N	T-test	P-value
(37,43)	0	0.205472	0.043741	15088	Ref		0.10363	0.028607	15100	Ref		0.0501103	0.017955	15097	Ref	
(37,43)	1	0.205335	0.04431	5632	0.200035	0.841453	0.103447	0.028533	5634	0.409390225	0.682253	0.0500467	0.017685	5634	0.229703	0.818322
(37,43)	2	0.20181	0.042091	538	1.980508	0.047646	0.101978	0.02751	538	1.366352225	0.171828	0.0490819	0.016993	538	1.37667	0.168614
(43,49)	0	0.207725	0.044881	29959	Ref		0.104319	0.029324	29992	Ref		0.0507496	0.018288	29990	Ref	
(43,49)	1	0.206295	0.043987	11088	2.910157	0.003612	0.103319	0.028689	11098	3.118050935	0.001821	0.0502108	0.017971	11098	2.685791	0.007236
(43,49)	2	0.20774	0.044932	1016	-0.00987	0.992122	0.10359	0.02832	1017	0.806608472	0.419892	0.0501704	0.017415	1017	1.041403	0.297689
(49,55)	0	0.210716	0.04395	35742	Ref		0.104922	0.029002	35777	Ref		0.0514299	0.018239	35775	Ref	
(49,55)	1	0.210965	0.044532	13084	-0.55059	0.581913	0.104754	0.029396	13093	0.560426527	0.575189	0.0514511	0.018466	13093	-0.11294	0.910081
(49,55)	2	0.208862	0.042548	1203	1.484623	0.137644	0.103549	0.028058	1204	1.667451816	0.095425	0.0508617	0.017861	1204	1.085083	0.277885
(55,61)	0	0.21218	0.043446	47949	Ref		0.104776	0.028958	47984	Ref		0.0515976	0.018315	47979	Ref	
(55,61)	1	0.211724	0.043022	17631	1.199549	0.230315	0.104119	0.028677	17640	2.597507818	0.00939	0.0513761	0.018213	17640	1.379404	0.16777
(55,61)	2	0.211866	0.045442	1581	0.270607	0.786693	0.103819	0.03027	1583	1.238992267	0.215348	0.0511606	0.019325	1583	0.886695	0.375243
(61,67)	0	0.211948	0.042453	50452	Ref		0.104093	0.028771	50472	Ref		0.0514163	0.018161	50471	Ref	
(61,67)	1	0.211246	0.042976	17673	1.87233	0.061161	0.103718	0.029183	17684	1.474454653	0.140359	0.0512608	0.018547	17683	0.964345	0.334873
(61,67)	2	0.210112	0.043094	1461	1.605789	0.10832	0.102989	0.029746	1462	1.400599872	0.161334	0.0511667	0.018948	1462	0.496971	0.619209
(67,73)	0	0.210845	0.041828	13345	Ref		0.103199	0.028456	13352	Ref		0.0513486	0.018102	13350	Ref	
(67,73)	1	0.209796	0.042505	4419	1.427601	0.153407	0.102467	0.028442	4423	1.482983692	0.138079	0.0509884	0.01814	4423	1.145342	0.252068
(67,73)	2	0.204715	0.04293	331	2.567908	0.010231	0.098461	0.02975	331	2.865179354	0.004168	0.0488144	0.017651	331	2.578731	0.009916

Supplementary Table 9: Proteomic signatures of APOE E4, BHBA and BCCAs in plasma

Protein	APOE E4				BHBA				Valine				Leucine				Isoleucine			
	Beta	SE	N	FDR	Beta	SE	N	FDR	Beta	SE	N	FDR	Beta	SE	N	FDR	Beta	SE	N	FDR
SNAP25	0.2981	0.0051	42120	0.00E+00	0.0887	0.0108	23217	6.99E-16	0.0049	0.0026	23575	8.58E-02	0.0036	0.0035	23590	3.52E-01	0.0001	0.0045	23589	9.88E-01
MENT	0.1405	0.0024	42580	0.00E+00	0.1520	0.0219	23496	1.16E-11	-0.1054	0.0053	23858	3.51E-85	-0.1053	0.0070	23871	3.68E-49	-0.1431	0.0090	23870	7.61E-55
APOE	-0.5052	0.0075	43602	0.00E+00	0.0329	0.0068	24051	2.82E-06	0.0057	0.0017	24424	9.37E-04	0.0000	0.0022	24439	9.88E-01	0.0081	0.0028	24438	6.35E-03
PLA2G7	0.1084	0.0037	49982	3.01E-186	0.0952	0.0131	28299	1.12E-12	0.0141	0.0032	28747	1.91E-05	0.0057	0.0042	28764	2.24E-01	-0.0029	0.0054	28763	6.52E-01
CSNK2A1	0.1052	0.0051	43455	1.27E-90	0.0373	0.0109	23960	1.17E-03	-0.0312	0.0027	24328	6.52E-31	-0.0293	0.0035	24343	3.20E-16	-0.0353	0.0045	24342	1.85E-14
PALM	0.0624	0.0037	43109	2.24E-62	0.0452	0.0156	23750	6.30E-03	0.0249	0.0038	24121	1.36E-10	0.0199	0.0050	24136	1.33E-04	0.0304	0.0065	24135	4.97E-06
ERN1	-0.0570	0.0043	43331	6.92E-37	-0.1251	0.0129	23884	1.34E-21	0.0626	0.0031	24254	1.57E-86	0.0539	0.0042	24269	1.74E-37	0.0795	0.0053	24268	5.84E-49
BPIFB2	-0.1037	0.0080	43453	5.16E-36	0.0399	0.0070	23944	3.74E-08	0.0368	0.0017	24316	2.79E-100	0.0337	0.0023	24331	1.04E-48	0.0438	0.0029	24330	6.26E-50
RP2	0.0600	0.0049	49744	2.20E-32	0.1025	0.0100	28212	1.11E-23	0.0268	0.0025	28661	2.95E-27	0.0267	0.0032	28678	3.74E-16	0.0354	0.0041	28677	5.72E-17
APOA2	0.0679	0.0056	43572	1.47E-31	0.1334	0.0100	24036	1.74E-39	-0.0689	0.0024	24408	3.27E-174	-0.0737	0.0032	24423	4.58E-114	-0.0951	0.0041	24422	3.98E-115
BRK1	0.0624	0.0052	48799	3.22E-31	0.0778	0.0095	27661	1.19E-15	0.0095	0.0023	28098	8.65E-05	0.0112	0.0031	28115	4.92E-04	0.0135	0.0040	28114	1.10E-03
CREG1	-0.0528	0.0045	49336	2.14E-29	-0.0464	0.0110	27958	5.25E-05	0.0532	0.0027	28397	5.99E-87	0.0478	0.0035	28414	4.63E-41	0.0603	0.0045	28413	1.86E-39
NAAA	-0.0735	0.0069	49352	2.51E-24	-0.0334	0.0071	27954	6.58E-06	-0.0013	0.0018	28396	5.04E-01	-0.0031	0.0023	28412	2.21E-01	-0.0021	0.0030	28411	5.47E-01
FGFBP1	0.0388	0.0038	50125	3.70E-22	-0.0166	0.0127	28423	2.47E-01	-0.0364	0.0031	28868	2.59E-31	-0.0438	0.0041	28885	2.67E-26	-0.0567	0.0052	28884	1.58E-26
SMPD1	-0.0539	0.0057	50168	5.45E-19	0.0283	0.0085	28387	1.66E-03	-0.0099	0.0021	28834	3.02E-06	-0.0174	0.0027	28851	4.39E-10	-0.0263	0.0035	28850	1.94E-13
CTSZ	-0.0340	0.0037	50013	1.18E-17	-0.1176	0.0129	28350	3.44E-19	0.0639	0.0031	28793	2.62E-90	0.0573	0.0041	28809	2.34E-42	0.0908	0.0053	28808	8.48E-64
PDGFC	-0.0302	0.0033	48785	2.78E-17	0.0592	0.0147	27677	1.15E-04	0.0588	0.0036	28109	7.88E-59	0.0593	0.0047	28125	6.46E-35	0.0708	0.0061	28124	2.72E-30
CD99L2	-0.0260	0.0029	49982	3.25E-17	0.2575	0.0165	28299	6.27E-53	0.0301	0.0041	28747	3.22E-13	0.0315	0.0054	28764	8.86E-09	0.0156	0.0069	28763	3.43E-02
CES1	-0.0867	0.0099	50102	3.98E-16	-0.0050	0.0049	28348	3.72E-01	0.0473	0.0012	28790	0.00E+00	0.0444	0.0015	28804	3.42E-177	0.0487	0.0020	28803	6.31E-129
MAN2B2	-0.0589	0.0068	43535	6.27E-16	-0.0198	0.0082	24011	2.56E-02	0.0245	0.0020	24384	1.56E-33	0.0222	0.0027	24399	1.78E-16	0.0199	0.0034	24398	1.18E-08
AGR3	0.0592	0.0069	48701	2.07E-15	-0.0373	0.0071	27648	3.25E-07	0.0433	0.0017	28079	1.02E-136	0.0418	0.0023	28093	1.45E-73	0.0674	0.0029	28092	1.42E-115
ANGPTL3	-0.0345	0.0041	50014	3.50E-15	-0.0719	0.0117	28386	2.45E-09	0.0176	0.0029	28825	1.92E-09	0.0205	0.0038	28841	1.31E-07	0.0328	0.0049	28840	4.21E-11
GFAP	0.0445	0.0053	48708	3.52E-15	0.0855	0.0093	27637	2.54E-19	-0.0373	0.0023	28067	1.01E-58	-0.0552	0.0030	28083	1.17E-73	-0.0669	0.0039	28082	1.48E-65
IL32	0.0412	0.0050	49907	1.58E-14	0.0196	0.0097	28300	6.35E-02	-0.0299	0.0024	28746	4.07E-36	-0.0359	0.0031	28762	2.86E-30	-0.0432	0.0040	28761	1.39E-26
SMPDL3A	-0.0604	0.0075	50105	9.90E-14	0.0103	0.0064	28399	1.51E-01	-0.0149	0.0016	28843	1.03E-20	-0.0152	0.0021	28859	5.39E-13	-0.0241	0.0027	28858	7.32E-19
HMOX2	0.0430	0.0054	48799	1.67E-13	0.0582	0.0092	27661	5.96E-10	0.0183	0.0023	28098	1.10E-15	0.0136	0.0030	28115	8.57E-06	0.0226	0.0038	28114	7.02E-09
IDUA	-0.0403	0.0054	50397	8.14E-12	-0.0470	0.0089	28576	3.45E-07	0.0477	0.0022	29025	8.67E-105	0.0448	0.0029	29042	1.20E-53	0.0561	0.0037	29041	5.39E-51
AGRP	0.0456	0.0061	50529	1.15E-11	-0.0388	0.0077	28636	1.23E-06	0.0623	0.0019	29090	5.56E-238	0.0675	0.0025	29107	1.18E-160	0.1036	0.0032	29106	9.91E-230
CPQ	-0.0301	0.0042	43456	7.28E-11	-0.0297	0.0134	24006	4.11E-02	0.0209	0.0033	24380	3.57E-10	0.0141	0.0043	24395	1.79E-03	0.0165	0.0056	24394	4.90E-03
HSD11B1	0.0342	0.0048	49907	7.72E-11	0.0226	0.0103	28300	4.28E-02	-0.0812	0.0025	28746	4.51E-232	-0.0818	0.0033	28762	1.29E-135	-0.0943	0.0042	28761	5.48E-109
VNN1	-0.0606	0.0085	43572	1.13E-10	0.0417	0.0065	24036	4.78E-10	0.0312	0.0016	24408	1.50E-83	0.0314	0.0021	24423	9.50E-49	0.0341	0.0027	24422	3.74E-35
TCTN3	-0.0242	0.0035	43535	2.29E-10	0.0454	0.0163	24011	8.97E-03	0.0608	0.0040	24384	6.27E-52	0.0431	0.0052	24399	6.83E-16	0.0423	0.0067	24398	9.05E-10
APOM	0.0226	0.0033	50096	3.78E-10	0.2664	0.0147	28410	1.05E-71	-0.0618	0.0036	28851	5.09E-65	-0.0781	0.0047	28867	7.48E-60	-0.1010	0.0061	28866	1.37E-60
CTSF	-0.0321	0.0046	50125	3.94E-10	-0.1426	0.0104	28423	1.45E-41	0.0130	0.0025	28868	5.77E-07	0.0118	0.0033	28885	7.23E-04	0.0188	0.0043	28884	2.45E-05
COQ7	-0.0351	0.0051	42387	4.65E-10	0.0240	0.0112	23360	4.90E-02	0.0131	0.0027	23719	3.06E-06	0.0045	0.0036	23733	2.62E-01	-0.0005	0.0046	23732	9.36E-01
GLB1	-0.0332	0.0048	49589	5.22E-10	-0.0851	0.0101	28083	1.40E-16	0.0427	0.0025	28527	1.72E-66	0.0391	0.0032	28543	8.09E-33	0.0403	0.0042	28542	1.75E-21
APOA1	-0.0214	0.0031	43602	5.82E-10	0.1242	0.0177	24051	6.34E-12	-0.0688	0.0043	24424	3.65E-56	-0.0879	0.0057	24439	1.41E-52	-0.1242	0.0073	24438	2.76E-63
PVR	0.0279	0.0043	50415	4.66E-09	0.0700	0.0113	28544	1.63E-09	0.0074	0.0028	28996	1.08E-02	0.0006	0.0036	29013	8.87E-01	0.0020	0.0047	29012	7.16E-01
CPM	-0.0285	0.0044	50173	6.49E-09	-0.0423	0.0110	28442	2.37E-04	0.0992	0.0026	28890	5.34E-302	0.0919	0.0035	28907	2.85E-148	0.0966	0.0045	28906	3.47E-99

CDHR2	-0.0586	0.0091	49744	1.03E-08	0.0207	0.0053	28212	2.10E-04	0.0477	0.0013	28661	2.75E-298	0.0464	0.0017	28678	2.72E-161	0.0513	0.0022	28677	1.78E-119
KRT18	-0.0633	0.0099	49744	1.07E-08	0.0326	0.0049	28212	9.95E-11	0.0304	0.0012	28661	2.19E-141	0.0318	0.0016	28678	1.26E-89	0.0385	0.0020	28677	8.05E-80
VWA1	-0.0316	0.0050	50324	2.12E-08	-0.1313	0.0096	28528	1.80E-41	0.0498	0.0023	28976	6.63E-100	0.0410	0.0031	28993	1.13E-39	0.0546	0.0039	28992	2.33E-42
FURIN	-0.0253	0.0043	50125	2.19E-07	-0.1318	0.0113	28423	1.32E-30	0.1246	0.0027	28868	0.00E+00	0.1151	0.0036	28885	5.38E-222	0.1300	0.0046	28884	9.91E-171
CCN1	0.0519	0.0088	49661	2.38E-07	-0.0279	0.0055	28165	1.14E-06	0.0382	0.0013	28613	9.32E-175	0.0383	0.0018	28630	8.28E-101	0.0582	0.0023	28629	2.66E-141
IGSF9	-0.0626	0.0106	43535	2.38E-07	0.0110	0.0053	24011	5.66E-02	0.0501	0.0013	24384	0.00E+00	0.0487	0.0017	24399	3.65E-181	0.0589	0.0022	24398	2.70E-160
PAG1	0.0386	0.0066	49059	3.46E-07	0.0126	0.0075	27799	1.32E-01	0.0346	0.0018	28234	2.15E-77	0.0370	0.0024	28248	2.38E-51	0.0598	0.0031	28247	7.00E-81
PLA2G10	-0.0404	0.0070	49589	4.93E-07	-0.1585	0.0069	28083	6.75E-113	0.0053	0.0017	28527	2.85E-03	0.0078	0.0023	28543	8.94E-04	0.0509	0.0029	28542	4.11E-68
C19orf12	-0.0436	0.0076	48799	7.48E-07	0.0449	0.0065	27661	1.40E-11	0.0322	0.0016	28098	9.03E-91	0.0307	0.0021	28115	4.10E-48	0.0358	0.0027	28114	1.37E-39
FCAMR	-0.0499	0.0088	43535	8.57E-07	-0.0529	0.0064	24011	3.26E-16	0.0457	0.0015	24384	1.08E-190	0.0425	0.0020	24399	2.09E-94	0.0545	0.0026	24398	4.38E-94
TREM2	-0.0342	0.0062	49941	1.96E-06	0.0476	0.0078	28321	3.22E-09	0.0030	0.0019	28766	1.51E-01	-0.0033	0.0025	28782	2.38E-01	-0.0014	0.0032	28781	7.09E-01
C9	-0.0332	0.0061	43572	2.39E-06	0.1672	0.0092	24036	1.44E-71	-0.0595	0.0022	24408	9.27E-153	-0.0633	0.0030	24423	3.74E-99	-0.0719	0.0038	24422	1.47E-77
ACY1	-0.0410	0.0075	49984	2.70E-06	0.0515	0.0064	28340	4.82E-15	0.0705	0.0015	28785	0.00E+00	0.0699	0.0020	28801	2.29E-255	0.0796	0.0026	28800	7.36E-200
IL18R1	-0.0219	0.0040	50529	3.01E-06	0.0232	0.0119	28636	7.70E-02	0.0853	0.0029	29090	1.94E-187	0.0720	0.0038	29107	4.25E-77	0.0949	0.0049	29106	6.05E-81
CD34	0.0151	0.0028	50255	3.21E-06	-0.0857	0.0171	28445	1.29E-06	-0.0427	0.0042	28896	6.87E-24	-0.0373	0.0055	28913	3.16E-11	-0.0633	0.0071	28912	1.87E-18
IFNGR2	-0.0330	0.0061	49589	3.21E-06	-0.0303	0.0080	28083	3.06E-04	0.0327	0.0020	28527	1.76E-61	0.0306	0.0026	28543	1.58E-31	0.0418	0.0033	28542	2.08E-35
GUSB	-0.0401	0.0074	50201	3.22E-06	0.0521	0.0065	28460	6.05E-15	0.0565	0.0016	28906	8.29E-277	0.0536	0.0021	28921	3.03E-143	0.0666	0.0027	28920	1.03E-133
TFPI	0.0197	0.0037	49854	3.79E-06	0.2170	0.0131	28307	5.97E-60	0.0353	0.0032	28745	1.94E-27	0.0287	0.0042	28760	3.17E-11	0.0347	0.0054	28759	5.31E-10
THBS2	-0.0231	0.0043	49982	4.71E-06	-0.0126	0.0112	28299	3.29E-01	0.0243	0.0027	28747	1.67E-18	0.0081	0.0036	28764	3.49E-02	0.0223	0.0046	28763	2.65E-06
NCS1	0.0175	0.0033	50397	4.77E-06	-0.1793	0.0146	28576	1.29E-33	0.0319	0.0036	29025	1.35E-18	0.0243	0.0047	29042	4.83E-07	0.0474	0.0060	29041	1.51E-14
PDZK1	-0.0276	0.0052	42274	6.18E-06	0.0053	0.0110	23352	6.98E-01	0.0528	0.0027	23710	2.66E-84	0.0474	0.0035	23723	1.28E-39	0.0588	0.0046	23722	4.48E-37
FAM20A	-0.0178	0.0034	43535	8.35E-06	0.0185	0.0165	24011	3.28E-01	0.0856	0.0040	24384	4.39E-100	0.0667	0.0053	24399	1.57E-35	0.0743	0.0068	24398	6.22E-27
CLEC4A	0.0209	0.0041	49907	1.39E-05	0.0296	0.0119	28300	2.06E-02	-0.0418	0.0029	28746	7.61E-46	-0.0451	0.0038	28762	3.67E-31	-0.0650	0.0049	28761	6.69E-39
ENPP7	-0.0519	0.0101	48428	1.41E-05	-0.0003	0.0050	27494	9.69E-01	0.0196	0.0012	27926	1.15E-58	0.0167	0.0016	27942	3.32E-25	0.0157	0.0020	27941	3.65E-14
LGALS3BP	-0.0184	0.0036	43602	1.97E-05	0.0904	0.0155	24051	1.42E-08	0.0623	0.0038	24424	7.97E-60	0.0542	0.0050	24439	9.20E-27	0.0701	0.0064	24438	5.79E-27
SPON2	-0.0206	0.0041	49746	2.01E-05	-0.0889	0.0118	28184	1.60E-13	-0.0362	0.0029	28624	1.41E-35	-0.0544	0.0038	28640	9.11E-46	-0.0697	0.0049	28639	1.81E-45
CTSO	-0.0180	0.0036	50529	2.16E-05	0.1527	0.0133	28636	1.27E-29	0.0691	0.0032	29090	3.85E-99	0.0548	0.0043	29107	1.46E-36	0.0740	0.0055	29106	3.24E-40
CALCA	-0.0364	0.0072	49507	2.16E-05	0.0304	0.0068	28030	1.48E-05	0.0251	0.0016	28473	2.83E-51	0.0247	0.0022	28489	3.36E-29	0.0349	0.0028	28488	7.37E-35
DCTN2	0.0541	0.0109	49744	2.86E-05	0.0070	0.0044	28212	1.57E-01	0.0064	0.0011	28661	7.11E-09	0.0083	0.0014	28678	1.03E-08	0.0114	0.0018	28677	1.06E-09
PRCP	-0.0188	0.0038	50279	3.03E-05	-0.0304	0.0127	28508	2.64E-02	0.0788	0.0031	28955	5.30E-142	0.0681	0.0041	28971	2.20E-61	0.0732	0.0052	28970	2.94E-43
AFM	-0.0116	0.0024	43602	4.37E-05	0.0577	0.0237	24051	2.39E-02	0.1905	0.0057	24424	6.07E-240	0.1880	0.0075	24439	1.28E-133	0.2100	0.0097	24438	8.03E-101
CTBS	-0.0152	0.0031	42944	4.37E-05	0.0283	0.0180	23753	1.60E-01	0.0657	0.0044	24119	7.33E-49	0.0545	0.0059	24134	5.74E-20	0.0646	0.0075	24133	3.76E-17
NPY	0.0372	0.0076	50397	4.63E-05	-0.0610	0.0062	28576	8.15E-22	0.0586	0.0015	29025	0.00E+00	0.0589	0.0020	29042	1.76E-188	0.0796	0.0025	29041	1.98E-208
LTBP3	-0.0309	0.0064	48785	4.89E-05	0.0425	0.0078	27677	1.18E-07	0.0135	0.0019	28109	3.21E-12	0.0103	0.0025	28125	7.04E-05	0.0185	0.0032	28124	2.32E-08
HAO1	-0.0729	0.0151	50397	5.03E-05	-0.0065	0.0032	28576	6.14E-02	0.0217	0.0008	29025	3.61E-172	0.0207	0.0010	29042	9.72E-91	0.0236	0.0013	29041	3.24E-71
ADH1B	-0.0434	0.0091	42580	6.55E-05	0.0164	0.0063	23496	1.52E-02	0.0441	0.0015	23858	1.79E-179	0.0416	0.0020	23871	5.15E-92	0.0509	0.0026	23870	2.00E-83
PTS	-0.0319	0.0067	48575	6.55E-05	0.0023	0.0075	27534	8.07E-01	0.0414	0.0018	27971	2.57E-111	0.0346	0.0024	27988	1.74E-45	0.0477	0.0031	27987	3.80E-52
CDCP1	-0.0291	0.0061	49589	6.74E-05	0.0174	0.0080	28083	4.58E-02	0.0144	0.0020	28527	5.00E-13	0.0107	0.0026	28543	5.63E-05	0.0198	0.0033	28542	5.03E-09
SUMF2	0.0291	0.0061	50415	7.47E-05	0.0793	0.0079	28544	6.38E-23	0.0300	0.0019	28996	1.56E-53	0.0317	0.0025	29013	7.59E-35	0.0259	0.0033	29012	8.63E-15
FTCD	-0.0489	0.0103	43342	7.48E-05	0.0202	0.0055	23893	4.43E-04	0.0452	0.0013	24264	3.05E-253	0.0432	0.0017	24279	1.37E-132	0.0523	0.0022	24278	1.45E-117
PON2	-0.0193	0.0041	49059	8.23E-05	0.0981	0.0121	27799	2.42E-15	0.0421	0.0030	28234	6.35E-45	0.0459	0.0039	28248	3.51E-31	0.0450	0.0050	28247	1.21E-18
DPP7	-0.0328	0.0069	49578	8.56E-05	0.1009	0.0070	28150	9.29E-46	0.0085	0.0017	28592	1.22E-06	0.0080	0.0022	28607	6.37E-04	0.0077	0.0029	28606	1.17E-02
CDHR5	-0.0217	0.0046	49984	9.20E-05	-0.0011	0.0104	28340	9.36E-01	0.0608	0.0025	28785	6.67E-125	0.0581	0.0033	28801	3.20E-66	0.0782	0.0043	28800	2.25E-72

PCBD1	-0.0266	0.0057	42498	9.27E-05	0.0701	0.0101	23480	1.17E-11	0.0597	0.0024	23842	5.38E-129	0.0556	0.0032	23855	1.31E-64	0.0676	0.0042	23854	8.03E-58
GSTA1	-0.0488	0.0104	49907	1.01E-04	0.0231	0.0046	28291	1.52E-06	0.0434	0.0011	28735	0.00E+00	0.0425	0.0015	28750	5.93E-179	0.0508	0.0019	28749	2.16E-154
AGXT	-0.0418	0.0090	49984	1.14E-04	-0.0095	0.0054	28340	1.11E-01	0.0326	0.0013	28785	8.25E-137	0.0294	0.0017	28801	1.31E-64	0.0374	0.0022	28800	2.96E-63
ITGA2	0.0181	0.0039	42580	1.24E-04	-0.0216	0.0145	23496	1.85E-01	0.0105	0.0036	23858	5.03E-03	0.0146	0.0047	23871	3.25E-03	-0.0064	0.0061	23870	3.49E-01
COL28A1	0.0404	0.0088	42343	1.33E-04	-0.0518	0.0066	23314	1.20E-14	0.0154	0.0016	23671	3.84E-21	0.0170	0.0021	23685	3.51E-15	0.0202	0.0027	23684	3.66E-13
MFGE8	0.0234	0.0051	49982	1.50E-04	-0.1149	0.0095	28299	1.11E-32	0.0956	0.0023	28747	0.00E+00	0.0924	0.0030	28764	3.03E-202	0.1384	0.0038	28763	1.00E-275
VGF	-0.0161	0.0035	43455	1.62E-04	0.0437	0.0160	23960	1.06E-02	-0.0797	0.0039	24328	2.04E-91	-0.1058	0.0051	24343	1.44E-92	-0.1208	0.0066	24342	3.20E-73
KYNU	-0.0246	0.0054	50529	1.66E-04	0.0623	0.0089	28636	9.68E-12	0.0621	0.0022	29090	1.21E-178	0.0587	0.0028	29107	2.33E-92	0.0640	0.0037	29106	1.38E-66
HNMT	-0.0255	0.0057	49354	2.31E-04	0.0961	0.0086	27953	5.83E-28	0.0282	0.0021	28394	2.87E-40	0.0255	0.0028	28410	1.37E-19	0.0282	0.0036	28409	8.89E-15
IGFBPL1	-0.0176	0.0039	49984	2.31E-04	-0.0270	0.0122	28340	4.23E-02	0.0249	0.0030	28785	1.66E-16	0.0138	0.0039	28801	7.15E-04	0.0324	0.0050	28800	3.11E-10
IFI30	-0.0212	0.0047	42287	2.42E-04	0.1169	0.0123	23333	8.76E-21	0.0362	0.0030	23699	1.19E-32	0.0303	0.0040	23714	6.77E-14	0.0598	0.0051	23713	7.55E-31
ADAMTSL2	-0.0176	0.0040	43537	2.59E-04	0.0485	0.0141	24024	1.10E-03	0.0754	0.0034	24398	1.05E-105	0.0632	0.0045	24413	4.07E-43	0.0793	0.0058	24412	3.64E-41
SIGLEC7	-0.0149	0.0033	49984	2.63E-04	0.1100	0.0145	28340	1.02E-13	0.0705	0.0035	28785	8.24E-88	0.0581	0.0046	28801	4.20E-35	0.0670	0.0060	28800	1.83E-28
ADH4	-0.0458	0.0103	49059	2.90E-04	-0.0085	0.0048	27799	1.06E-01	0.0471	0.0011	28234	0.00E+00	0.0469	0.0015	28248	6.45E-206	0.0561	0.0019	28247	6.13E-178
SORD	-0.0356	0.0081	50168	3.04E-04	0.0309	0.0060	28453	5.58E-07	0.0346	0.0014	28898	2.43E-124	0.0336	0.0019	28915	1.36E-67	0.0360	0.0025	28914	2.07E-47
PLA2G15	-0.0139	0.0031	50125	3.22E-04	0.0690	0.0154	28423	1.61E-05	0.0252	0.0038	28868	3.87E-11	0.0128	0.0049	28885	1.40E-02	0.0177	0.0063	28884	8.22E-03
GGH	-0.0185	0.0042	49135	3.39E-04	0.0799	0.0116	27869	2.02E-11	0.0453	0.0028	28307	6.68E-56	0.0422	0.0038	28322	1.85E-28	0.0676	0.0048	28321	1.93E-43
PSAP	-0.0143	0.0033	43128	3.77E-04	0.2098	0.0170	23852	1.16E-33	0.0103	0.0042	24226	2.03E-02	0.0128	0.0055	24241	3.09E-02	0.0221	0.0071	24240	3.08E-03
GHLR	0.0423	0.0097	49984	3.86E-04	0.0756	0.0050	28340	5.90E-51	-0.0208	0.0012	28785	7.21E-65	-0.0236	0.0016	28801	4.12E-48	-0.0306	0.0020	28800	4.31E-49
DCXR	-0.0277	0.0064	50125	3.86E-04	0.0125	0.0076	28423	1.40E-01	0.0549	0.0018	28868	1.26E-193	0.0521	0.0024	28885	1.96E-100	0.0558	0.0031	28884	7.56E-70
FBP1	-0.0375	0.0086	49984	4.06E-04	0.0177	0.0056	28340	3.02E-03	0.0268	0.0014	28785	4.28E-84	0.0250	0.0018	28801	1.04E-42	0.0284	0.0023	28800	1.52E-33
FBLN2	-0.0159	0.0037	43537	4.06E-04	-0.0015	0.0152	24024	9.41E-01	0.0001	0.0037	24398	9.88E-01	-0.0158	0.0049	24413	2.17E-03	-0.0010	0.0063	24412	8.95E-01
ARSA	-0.0229	0.0053	49982	4.68E-04	0.0241	0.0091	28299	1.35E-02	0.0378	0.0022	28747	1.44E-63	0.0356	0.0029	28764	4.35E-33	0.0378	0.0038	28763	7.39E-23
GHR	-0.0153	0.0036	42580	5.00E-04	-0.0993	0.0160	23496	1.57E-09	0.1574	0.0038	23858	0.00E+00	0.1643	0.0051	23871	1.21E-222	0.1855	0.0066	23870	2.90E-171
NOMO1	-0.0121	0.0028	49982	5.15E-04	0.0690	0.0171	28299	1.07E-04	0.0955	0.0041	28747	5.40E-115	0.0789	0.0055	28764	9.58E-46	0.0853	0.0071	28763	1.24E-32
ITGA11	0.0173	0.0040	49907	5.28E-04	-0.1381	0.0120	28300	8.31E-30	-0.0271	0.0029	28746	7.64E-20	-0.0160	0.0039	28762	6.25E-05	-0.0357	0.0050	28761	2.11E-12
TPP1	-0.0228	0.0054	49621	5.63E-04	0.1372	0.0090	28161	1.68E-50	0.0302	0.0022	28604	4.73E-42	0.0273	0.0029	28620	1.69E-20	0.0349	0.0037	28619	3.37E-20
TNFSF12	0.0141	0.0033	50529	5.88E-04	0.1171	0.0144	28636	1.41E-15	-0.0033	0.0035	29090	4.06E-01	0.0016	0.0046	29107	7.80E-01	-0.0076	0.0060	29106	2.52E-01
CLSTN2	-0.0191	0.0045	50529	5.88E-04	-0.0049	0.0105	28636	7.11E-01	0.0113	0.0026	29090	2.06E-05	0.0159	0.0034	29107	5.27E-06	0.0350	0.0044	29106	3.30E-15
ITGA5	-0.0128	0.0030	49982	5.92E-04	0.0994	0.0160	28299	1.49E-09	0.0824	0.0039	28747	8.71E-98	0.0710	0.0051	28764	1.92E-42	0.0912	0.0066	28763	3.08E-42
FUOM	-0.0319	0.0076	42580	6.37E-04	0.0232	0.0076	23496	3.83E-03	0.0472	0.0018	23858	2.50E-143	0.0445	0.0024	23871	2.23E-73	0.0533	0.0031	23870	4.09E-64
VSNL1	0.0182	0.0043	43426	7.08E-04	0.0056	0.0130	23934	7.29E-01	0.0365	0.0032	24305	2.26E-30	0.0348	0.0042	24320	1.94E-16	0.0344	0.0053	24319	3.04E-10
IGSF3	-0.0180	0.0043	49744	8.10E-04	-0.0932	0.0111	28212	1.77E-16	0.0833	0.0027	28661	6.80E-210	0.0683	0.0035	28678	1.37E-81	0.0977	0.0045	28677	1.04E-100
PRAP1	-0.0214	0.0052	43537	8.77E-04	-0.1396	0.0107	24024	5.97E-38	0.1338	0.0025	24398	0.00E+00	0.1485	0.0033	24413	0.00E+00	0.2043	0.0042	24412	0.00E+00
ELN	0.0164	0.0040	43535	1.14E-03	-0.0673	0.0139	24011	2.89E-06	0.0227	0.0034	24384	5.27E-11	0.0174	0.0045	24399	1.87E-04	0.0418	0.0058	24398	1.27E-12
SELPLG	-0.0135	0.0033	49907	1.25E-03	-0.0596	0.0147	28300	9.81E-05	0.0904	0.0035	28746	4.43E-140	0.0933	0.0047	28762	3.88E-86	0.1148	0.0060	28761	4.77E-79
KRT8	-0.0332	0.0082	42120	1.31E-03	0.0318	0.0069	23217	1.00E-05	0.0181	0.0017	23575	2.44E-26	0.0157	0.0022	23590	5.31E-12	0.0180	0.0029	23589	8.89E-10
UPB1	-0.0444	0.0110	43535	1.41E-03	-0.0087	0.0051	24011	1.24E-01	0.0418	0.0012	24384	1.08E-251	0.0409	0.0016	24399	2.17E-137	0.0473	0.0021	24398	4.49E-111
PIGR	-0.0182	0.0045	49343	1.45E-03	0.0715	0.0109	27983	1.45E-10	0.0037	0.0027	28430	2.01E-01	-0.0031	0.0035	28446	4.30E-01	0.0015	0.0045	28445	7.79E-01
SPARCL1	0.0128	0.0032	50009	1.45E-03	-0.0392	0.0152	28348	1.58E-02	-0.0355	0.0037	28789	3.04E-21	-0.0387	0.0049	28805	7.32E-15	-0.0465	0.0063	28804	3.96E-13
SNCA	0.0528	0.0133	42580	1.60E-03	0.0384	0.0043	23496	1.36E-18	0.0120	0.0010	23858	1.11E-29	0.0097	0.0014	23871	6.78E-12	0.0110	0.0018	23870	1.59E-09
PTH	0.0376	0.0094	42343	1.63E-03	-0.0010	0.0061	23314	8.98E-01	0.0339	0.0015	23671	2.04E-113	0.0302	0.0020	23685	5.37E-52	0.0524	0.0025	23684	3.43E-94
ASS1	-0.0362	0.0091	42109	1.64E-03	0.0084	0.0063	23248	2.42E-01	0.0314	0.0015	23603	2.12E-90	0.0278	0.0020	23617	2.67E-41	0.0244	0.0026	23616	6.56E-20

GSTA3	-0.0370	0.0093	48785	1.70E-03	0.0138	0.0053	27677	1.48E-02	0.0449	0.0013	28109	5.97E-267	0.0438	0.0017	28125	6.54E-145	0.0514	0.0022	28124	1.21E-120
NTRK3	0.0103	0.0026	50415	2.21E-03	-0.0556	0.0181	28544	3.67E-03	-0.0930	0.0044	28996	2.94E-97	-0.1103	0.0058	29013	4.20E-79	-0.1462	0.0074	29012	4.70E-84
TNFSF10	-0.0117	0.0030	50529	2.21E-03	0.0148	0.0159	28636	4.26E-01	0.0421	0.0039	29090	1.17E-26	0.0309	0.0051	29107	3.80E-09	0.0439	0.0066	29106	7.85E-11
CXCL10	-0.0303	0.0078	50189	2.22E-03	0.0475	0.0062	28442	4.54E-14	0.0164	0.0015	28888	8.63E-27	0.0098	0.0020	28904	1.72E-06	0.0085	0.0026	28903	1.57E-03
CES3	0.0318	0.0082	49744	2.46E-03	0.0106	0.0059	28212	1.05E-01	0.0294	0.0014	28661	1.37E-90	0.0309	0.0019	28678	3.09E-58	0.0342	0.0024	28677	3.21E-43
CLEC10A	0.0163	0.0042	49589	2.51E-03	0.0800	0.0116	28083	1.36E-11	-0.0246	0.0028	28527	1.11E-17	-0.0216	0.0037	28543	1.55E-08	-0.0202	0.0048	28542	4.70E-05
CLEC11A	-0.0213	0.0055	49900	2.54E-03	0.0792	0.0087	28246	5.60E-19	0.0039	0.0021	28693	8.56E-02	-0.0017	0.0028	28710	6.17E-01	-0.0012	0.0036	28709	7.85E-01
TMPRSS15	0.0406	0.0105	49744	2.56E-03	-0.1475	0.0045	28212	1.28E-226	0.0579	0.0011	28661	0.00E+00	0.0657	0.0014	28678	0.00E+00	0.1014	0.0018	28677	0.00E+00
SGSH	-0.0247	0.0064	42810	2.73E-03	0.0163	0.0088	23673	9.41E-02	0.0187	0.0022	24044	1.05E-17	0.0153	0.0028	24059	1.47E-07	0.0180	0.0037	24058	1.85E-06
ASGR1	-0.0141	0.0037	49589	2.81E-03	0.1516	0.0131	28083	7.06E-30	0.0677	0.0032	28527	2.15E-97	0.0735	0.0042	28543	2.07E-66	0.0858	0.0054	28542	6.42E-55
CD80	-0.0149	0.0039	43535	2.92E-03	0.0574	0.0143	24011	1.18E-04	0.0216	0.0035	24384	1.24E-09	0.0113	0.0046	24399	2.16E-02	0.0271	0.0059	24398	9.13E-06
RBP5	-0.0265	0.0070	49744	3.17E-03	0.0728	0.0069	28212	7.56E-25	0.0380	0.0017	28661	7.68E-111	0.0346	0.0022	28678	1.95E-53	0.0349	0.0029	28677	2.97E-33
COL5A1	-0.0173	0.0046	42580	3.19E-03	0.0219	0.0125	23496	1.13E-01	0.0192	0.0031	23858	5.77E-10	0.0125	0.0040	23871	3.15E-03	0.0245	0.0052	23870	4.19E-06
CD163	-0.0194	0.0051	50176	3.31E-03	0.0094	0.0094	28453	3.85E-01	0.0356	0.0023	28897	1.30E-53	0.0270	0.0030	28913	1.30E-18	0.0450	0.0039	28912	2.81E-30
SUOX	-0.0273	0.0073	43455	3.82E-03	0.0520	0.0077	23960	5.85E-11	0.0351	0.0019	24328	4.87E-76	0.0363	0.0025	24343	4.12E-47	0.0391	0.0032	24342	1.84E-33
F7	-0.0134	0.0036	50098	3.94E-03	0.0220	0.0134	28405	1.40E-01	0.0787	0.0032	28849	1.99E-127	0.0664	0.0043	28864	1.07E-52	0.0752	0.0055	28863	3.70E-41
SERPINA9	-0.0310	0.0083	49512	4.20E-03	-0.0738	0.0059	28094	3.22E-35	0.0163	0.0014	28543	1.62E-29	0.0136	0.0019	28560	1.47E-12	0.0192	0.0024	28559	7.85E-15
DCBLD2	0.0148	0.0040	50125	4.68E-03	-0.0356	0.0120	28423	5.26E-03	-0.0336	0.0029	28868	1.08E-29	-0.0360	0.0039	28885	5.39E-20	-0.0418	0.0050	28884	1.65E-16
EFNA1	-0.0119	0.0033	49900	5.12E-03	0.2997	0.0144	28250	8.09E-94	-0.0358	0.0035	28697	1.78E-23	-0.0384	0.0047	28714	5.92E-16	-0.0600	0.0060	28713	8.84E-23
ECHDC3	-0.0315	0.0086	43535	5.12E-03	0.0127	0.0065	24011	7.65E-02	0.0259	0.0016	24384	3.42E-59	0.0223	0.0021	24399	7.35E-26	0.0275	0.0027	24398	5.38E-24
ADGRG1	-0.0299	0.0082	49744	5.12E-03	0.0037	0.0059	28212	6.05E-01	0.0259	0.0014	28661	3.50E-71	0.0229	0.0019	28678	1.47E-32	0.0307	0.0024	28677	2.90E-35
MTSS1	0.0472	0.0129	43346	5.12E-03	0.0002	0.0044	23893	9.72E-01	0.0194	0.0011	24266	7.64E-73	0.0205	0.0014	24281	3.10E-47	0.0274	0.0018	24280	6.71E-51
APOF	0.0130	0.0036	43572	5.33E-03	0.2209	0.0160	24036	4.81E-42	-0.1032	0.0039	24408	1.56E-151	-0.1142	0.0051	24423	1.23E-106	-0.1401	0.0066	24422	4.00E-97
HJV	-0.0187	0.0051	43455	5.33E-03	-0.0257	0.0108	23960	2.77E-02	0.0473	0.0026	24328	2.27E-70	0.0464	0.0035	24343	2.42E-39	0.0526	0.0045	24342	7.24E-31
ITGBL1	-0.0155	0.0042	43537	5.33E-03	0.0286	0.0131	24024	4.48E-02	0.0375	0.0032	24398	3.68E-31	0.0276	0.0042	24413	1.46E-10	0.0501	0.0054	24412	1.09E-19
COL18A1	-0.0100	0.0027	50190	5.35E-03	0.3541	0.0174	28420	5.52E-90	0.0203	0.0043	28862	3.38E-06	0.0120	0.0056	28876	4.64E-02	0.0320	0.0072	28875	1.78E-05
GOLM2	-0.0098	0.0027	50415	5.45E-03	0.1973	0.0176	28544	3.96E-28	0.0867	0.0043	28996	7.14E-89	0.0796	0.0057	29013	8.77E-44	0.1055	0.0073	29012	1.94E-46
AP2B1	0.0202	0.0056	42343	5.72E-03	0.0437	0.0103	23314	4.81E-05	0.0249	0.0025	23671	2.17E-22	0.0284	0.0033	23685	5.21E-17	0.0351	0.0043	23684	7.93E-16
SKAP1	0.0311	0.0086	49507	5.89E-03	-0.0620	0.0057	28030	5.52E-27	0.0276	0.0014	28473	4.61E-87	0.0264	0.0018	28489	2.97E-46	0.0482	0.0023	28488	1.82E-92
CDH2	-0.0153	0.0043	49984	5.89E-03	0.0464	0.0114	28340	9.10E-05	0.0555	0.0028	28785	3.41E-88	0.0444	0.0036	28801	2.76E-33	0.0563	0.0047	28800	2.75E-32
AKR7L	-0.0287	0.0081	42274	7.03E-03	0.0095	0.0072	23352	2.43E-01	0.0269	0.0018	23710	3.53E-52	0.0248	0.0023	23723	5.81E-26	0.0274	0.0030	23722	1.53E-19
CRHBP	-0.0118	0.0033	49941	7.39E-03	-0.0093	0.0144	28321	5.91E-01	0.0535	0.0035	28766	6.61E-51	0.0415	0.0046	28782	1.57E-18	0.0474	0.0060	28781	8.28E-15
SULT2A1	-0.0233	0.0066	49907	7.83E-03	0.1624	0.0073	28300	1.89E-106	0.0187	0.0018	28746	5.59E-25	0.0176	0.0024	28762	2.32E-13	0.0192	0.0030	28761	5.53E-10
CBS	-0.0206	0.0059	42387	7.98E-03	-0.0080	0.0098	23360	4.88E-01	0.0416	0.0024	23719	1.02E-66	0.0366	0.0031	23733	2.12E-30	0.0402	0.0040	23732	1.89E-22
HS3ST3B1	-0.0154	0.0044	49744	8.00E-03	0.1127	0.0111	28212	1.59E-23	0.0609	0.0027	28661	4.62E-111	0.0702	0.0035	28678	2.76E-85	0.1181	0.0045	28677	4.62E-146
RARRES1	0.0134	0.0038	48785	8.33E-03	0.0140	0.0129	27677	3.44E-01	0.0224	0.0032	28109	3.05E-12	0.0238	0.0042	28125	2.38E-08	0.0427	0.0053	28124	4.69E-15
IL1RAP	0.0182	0.0052	49982	8.73E-03	0.0511	0.0093	28299	1.16E-07	-0.0322	0.0023	28747	2.96E-44	-0.0341	0.0030	28764	6.75E-29	-0.0404	0.0039	28763	9.18E-25
ADGRD1	-0.0158	0.0045	42580	8.97E-03	0.0857	0.0127	23496	4.50E-11	0.0397	0.0031	23858	6.61E-37	0.0284	0.0041	23871	8.36E-12	0.0321	0.0052	23870	2.34E-09
TNFRSF11B	-0.0118	0.0034	49941	8.97E-03	0.0180	0.0142	28321	2.64E-01	-0.0237	0.0035	28766	1.92E-11	-0.0557	0.0045	28782	1.44E-33	-0.0659	0.0058	28781	1.61E-28
FGF21	-0.0502	0.0145	50324	9.27E-03	0.0091	0.0034	28528	1.17E-02	-0.0070	0.0008	28976	2.77E-17	-0.0129	0.0011	28993	8.60E-33	-0.0092	0.0014	28992	5.78E-11
DEFB4A_DEF4B	0.0595	0.0172	49272	9.65E-03	-0.0122	0.0028	27916	3.86E-05	0.0128	0.0007	28355	7.13E-75	0.0126	0.0009	28372	2.68E-42	0.0197	0.0012	28371	7.19E-62
CSF1	-0.0111	0.0032	50189	9.65E-03	0.0498	0.0149	28442	1.48E-03	0.0072	0.0036	28888	6.46E-02	-0.0006	0.0048	28904	9.20E-01	0.0420	0.0062	28903	2.41E-11
ENPP5	0.0170	0.0050	50189	1.01E-02	-0.0283	0.0097	28442	6.05E-03	-0.0056	0.0024	28888	2.52E-02	-0.0037	0.0031	28904	2.88E-01	-0.0116	0.0040	28903	6.44E-03

CFB	-0.0140	0.0041	42820	1.02E-02	0.2984	0.0139	23641	9.45E-100	0.0655	0.0034	24011	1.20E-79	0.0592	0.0045	24026	7.80E-38	0.0769	0.0058	24025	1.33E-38
SNAPIN	0.0229	0.0067	43455	1.04E-02	0.0084	0.0084	23960	3.89E-01	0.0358	0.0020	24328	3.69E-67	0.0433	0.0027	24343	1.97E-56	0.0539	0.0035	24342	3.93E-53
GZMB	-0.0260	0.0076	49907	1.04E-02	0.0595	0.0064	28300	1.09E-19	0.0024	0.0016	28746	1.53E-01	0.0027	0.0021	28762	2.35E-01	-0.0110	0.0027	28761	6.52E-05
C1RL	-0.0079	0.0023	43527	1.04E-02	0.2086	0.0244	24011	5.68E-17	0.0598	0.0060	24384	6.51E-23	0.0445	0.0079	24399	3.87E-08	0.0716	0.0102	24398	5.37E-12
ARAF	0.0261	0.0077	42740	1.14E-02	0.0177	0.0074	23551	2.57E-02	0.0160	0.0018	23912	3.60E-18	0.0183	0.0024	23927	5.55E-14	0.0197	0.0031	23926	3.98E-10
IGFBP3	-0.0116	0.0034	50176	1.17E-02	0.0284	0.0141	28453	6.50E-02	0.0391	0.0034	28897	1.78E-29	0.0334	0.0045	28913	4.08E-13	0.0231	0.0058	28912	1.29E-04
GDF15	-0.0177	0.0052	50594	1.18E-02	0.1797	0.0089	28667	6.28E-88	0.0067	0.0022	29116	3.35E-03	0.0076	0.0029	29132	1.31E-02	0.0371	0.0037	29131	5.52E-23
GRN	-0.0096	0.0028	49742	1.18E-02	0.2168	0.0169	28173	1.56E-36	0.0251	0.0041	28620	2.56E-09	0.0197	0.0055	28637	5.18E-04	0.0367	0.0070	28636	3.54E-07
ISM1	-0.0155	0.0046	49907	1.21E-02	-0.1783	0.0105	28300	3.30E-63	0.0257	0.0026	28746	5.01E-23	0.0203	0.0034	28762	4.33E-09	0.0270	0.0043	28761	1.28E-09
ALDH1A1	-0.0217	0.0064	49982	1.21E-02	-0.0004	0.0077	28299	9.71E-01	0.0238	0.0019	28747	3.75E-36	0.0174	0.0025	28764	4.50E-12	0.0231	0.0032	28763	9.11E-13
TADA3	0.0151	0.0045	43331	1.23E-02	0.0813	0.0125	23884	1.99E-10	0.0341	0.0031	24254	2.40E-28	0.0381	0.0040	24269	1.27E-20	0.0438	0.0052	24268	1.03E-16
SCT	0.0177	0.0053	42343	1.35E-02	-0.0128	0.0107	23314	2.98E-01	0.0100	0.0026	23671	2.46E-04	-0.0022	0.0035	23685	5.95E-01	0.0086	0.0045	23684	7.62E-02
FSTL3	-0.0130	0.0039	49864	1.35E-02	-0.0059	0.0122	28223	6.97E-01	0.0159	0.0030	28667	1.61E-07	0.0065	0.0039	28683	1.32E-01	0.0202	0.0050	28682	1.13E-04
ARSB	-0.0215	0.0064	49744	1.35E-02	0.0896	0.0076	28212	2.84E-31	0.0250	0.0018	28661	6.19E-41	0.0277	0.0024	28678	3.62E-29	0.0307	0.0031	28677	5.31E-22
PPP2R5A	0.0452	0.0136	43346	1.38E-02	0.0330	0.0042	23893	7.55E-15	0.0113	0.0010	24266	6.28E-28	0.0131	0.0013	24281	7.07E-22	0.0156	0.0017	24280	6.70E-19
GRPEL1	-0.0234	0.0070	49744	1.40E-02	0.0723	0.0069	28212	1.27E-24	0.0228	0.0017	28661	8.47E-41	0.0201	0.0022	28678	3.97E-19	0.0265	0.0028	28677	7.02E-20
GLA	-0.0147	0.0044	42501	1.40E-02	0.0793	0.0130	23445	2.47E-09	0.0826	0.0031	23807	2.42E-149	0.0755	0.0042	23819	7.19E-72	0.0827	0.0054	23818	1.76E-52
APOA4	-0.0134	0.0040	43602	1.47E-02	-0.2053	0.0136	24051	3.84E-50	0.0207	0.0033	24424	1.24E-09	0.0173	0.0044	24439	1.58E-04	0.0375	0.0057	24438	1.03E-10
SSNA1	0.0195	0.0059	43346	1.47E-02	0.0611	0.0096	23893	4.68E-10	0.0238	0.0023	24266	1.27E-23	0.0243	0.0031	24281	9.79E-15	0.0309	0.0040	24280	2.16E-14
FGFBP3	0.0139	0.0042	43426	1.51E-02	0.1731	0.0134	23934	3.98E-37	0.0020	0.0033	24305	6.03E-01	-0.0036	0.0043	24320	4.65E-01	0.0028	0.0056	24319	6.73E-01
CHL1	0.0117	0.0036	50099	1.53E-02	0.0399	0.0134	28402	5.13E-03	-0.0551	0.0033	28846	2.74E-62	-0.0679	0.0043	28862	1.60E-54	-0.0787	0.0055	28861	1.32E-44
IGFBP7	-0.0115	0.0035	50594	1.53E-02	-0.0142	0.0137	28667	3.71E-01	0.0393	0.0033	29116	1.85E-31	0.0402	0.0044	29132	1.68E-19	0.0631	0.0056	29131	2.92E-28
SMAD1	0.0315	0.0096	48785	1.58E-02	0.0268	0.0052	27677	4.95E-07	0.0338	0.0013	28109	3.05E-157	0.0357	0.0017	28125	1.02E-100	0.0428	0.0021	28124	8.33E-88
FST	-0.0191	0.0058	50106	1.61E-02	0.2385	0.0081	28399	1.37E-185	0.0451	0.0020	28844	1.01E-110	0.0667	0.0026	28860	7.87E-140	0.0768	0.0034	28859	5.54E-112
CAPG	-0.0226	0.0069	49598	1.65E-02	0.0383	0.0071	28044	1.89E-07	0.0061	0.0017	28487	7.82E-04	0.0060	0.0023	28504	1.39E-02	0.0101	0.0029	28503	1.04E-03
PPP1R9B	0.0361	0.0111	50529	1.71E-02	0.0314	0.0043	28636	8.60E-13	0.0193	0.0010	29090	4.43E-74	0.0207	0.0014	29107	3.00E-49	0.0271	0.0018	29106	2.89E-51
VWF	-0.0276	0.0085	50594	1.71E-02	0.0317	0.0057	28667	5.91E-08	0.0052	0.0014	29116	3.05E-04	0.0012	0.0018	29132	5.77E-01	0.0070	0.0024	29131	4.91E-03
CLEC6A	-0.0180	0.0055	48785	1.71E-02	0.1481	0.0089	27677	1.52E-60	-0.0043	0.0022	28109	6.63E-02	-0.0040	0.0029	28125	2.10E-01	-0.0027	0.0037	28124	5.34E-01
CLEC3B	0.0081	0.0025	42594	1.80E-02	-0.1353	0.0233	23490	1.56E-08	0.0512	0.0057	23857	1.07E-18	0.0531	0.0076	23872	5.33E-12	0.0680	0.0097	23871	7.24E-12
SSC4D	-0.0466	0.0144	49910	1.80E-02	-0.0101	0.0034	28300	4.88E-03	0.0362	0.0008	28742	0.00E+00	0.0355	0.0011	28758	2.04E-237	0.0426	0.0014	28757	5.72E-207
LILRA5	-0.0127	0.0039	49910	1.82E-02	0.1874	0.0124	28300	5.85E-50	0.0185	0.0030	28742	2.37E-09	0.0123	0.0040	28758	3.55E-03	0.0312	0.0051	28757	3.46E-09
NOTCH2	0.0082	0.0026	43537	1.90E-02	0.0050	0.0219	24024	8.60E-01	-0.0486	0.0054	24398	4.70E-19	-0.0631	0.0071	24413	2.05E-18	-0.0867	0.0091	24412	8.70E-21
GBP1	-0.0241	0.0075	43345	1.93E-02	0.0634	0.0076	23906	2.74E-16	0.0152	0.0019	24276	8.26E-16	0.0117	0.0025	24291	3.94E-06	0.0210	0.0031	24290	6.90E-11
C2	-0.0087	0.0027	50096	1.93E-02	0.2564	0.0175	28410	2.68E-47	0.0615	0.0043	28851	1.05E-45	0.0465	0.0057	28867	6.70E-16	0.0582	0.0073	28866	4.26E-15
ACP5	-0.0122	0.0038	50201	1.94E-02	0.1080	0.0127	28460	6.65E-17	0.0290	0.0031	28906	2.05E-20	0.0190	0.0041	28921	5.83E-06	0.0260	0.0052	28920	1.38E-06
SPINK2	0.0141	0.0044	42580	1.96E-02	0.1135	0.0131	23496	1.90E-17	0.0028	0.0032	23858	4.34E-01	0.0066	0.0042	23871	1.56E-01	0.0091	0.0054	23870	1.29E-01
ANGPTL1	-0.0107	0.0034	49263	1.96E-02	-0.0287	0.0146	27906	7.34E-02	0.0355	0.0036	28345	6.45E-23	0.0379	0.0047	28359	1.98E-15	0.1124	0.0060	28358	7.84E-77
DNER	0.0098	0.0031	49859	2.01E-02	0.0046	0.0157	28251	8.17E-01	-0.0372	0.0038	28693	1.16E-21	-0.0447	0.0051	28709	3.46E-18	-0.0691	0.0065	28708	1.43E-25
NCAN	0.0146	0.0046	50415	2.05E-02	0.0385	0.0104	28544	4.29E-04	-0.0604	0.0025	28996	4.86E-123	-0.0800	0.0033	29013	3.09E-124	-0.1022	0.0043	29012	1.18E-122
ANGPT2	-0.0142	0.0045	50397	2.10E-02	0.0674	0.0107	28576	7.56E-10	0.0085	0.0026	29025	1.76E-03	-0.0056	0.0034	29042	1.39E-01	-0.0038	0.0044	29041	4.64E-01
RNASSET2	-0.0098	0.0031	50355	2.15E-02	0.0158	0.0154	28549	3.75E-01	0.0439	0.0038	28997	8.07E-31	0.0495	0.0049	29013	6.98E-23	0.0920	0.0063	29012	2.40E-46
IL2RA	-0.0150	0.0047	49635	2.25E-02	0.0899	0.0102	28095	8.20E-18	-0.0157	0.0025	28537	9.06E-10	-0.0153	0.0033	28552	7.10E-06	-0.0022	0.0042	28551	6.58E-01
RNF149	-0.0113	0.0036	42387	2.27E-02	0.0446	0.0160	23360	8.87E-03	-0.0047	0.0039	23719	2.79E-01	-0.0033	0.0052	23733	5.85E-01	0.0090	0.0067	23732	2.22E-01

CFHR4	0.0260	0.0082	43526	2.27E-02	0.0497	0.0067	23980	5.42E-13	-0.0058	0.0017	24352	7.95E-04	-0.0091	0.0022	24367	5.65E-05	-0.0085	0.0028	24366	3.93E-03
HPGDS	0.0137	0.0043	48785	2.28E-02	-0.0028	0.0113	27677	8.48E-01	0.0227	0.0028	28109	9.45E-16	0.0309	0.0037	28125	1.24E-16	0.0193	0.0047	28124	7.89E-05
CEACAM1	-0.0089	0.0029	50047	2.44E-02	0.1876	0.0174	28369	2.49E-26	0.0035	0.0043	28814	4.65E-01	-0.0232	0.0056	28831	6.35E-05	-0.0376	0.0072	28830	3.77E-07
MME	-0.0293	0.0094	49744	2.54E-02	-0.0021	0.0052	28212	7.42E-01	0.0312	0.0013	28661	4.42E-134	0.0288	0.0017	28678	2.02E-66	0.0289	0.0021	28677	8.05E-41
SERPIND1	-0.0105	0.0034	43518	2.56E-02	0.2463	0.0165	24001	1.18E-48	0.0822	0.0040	24373	6.72E-90	0.0649	0.0054	24388	7.64E-33	0.0852	0.0069	24387	3.39E-34
CD300LF	-0.0225	0.0073	50397	2.56E-02	0.0579	0.0066	28576	1.08E-17	-0.0043	0.0016	29025	1.23E-02	-0.0049	0.0021	29042	3.05E-02	-0.0011	0.0027	29041	7.27E-01
GZMA	-0.0126	0.0040	50529	2.56E-02	0.0146	0.0118	28636	2.77E-01	0.0608	0.0029	29090	1.79E-97	0.0736	0.0038	29107	1.77E-82	0.0963	0.0049	29106	2.79E-85
HEXIM1	0.0294	0.0095	49907	2.65E-02	0.0458	0.0050	28300	4.77E-19	0.0173	0.0012	28746	1.13E-43	0.0190	0.0016	28762	6.88E-31	0.0225	0.0021	28761	2.83E-26
CTSL	-0.0086	0.0028	49984	2.65E-02	0.0973	0.0172	28340	4.16E-08	0.0218	0.0042	28785	4.20E-07	0.0122	0.0055	28801	3.92E-02	0.0419	0.0071	28800	8.78E-09
SEMA3F	-0.0099	0.0032	49984	2.65E-02	0.0718	0.0150	28340	3.98E-06	0.0610	0.0037	28785	4.59E-61	0.0629	0.0048	28801	7.80E-38	0.1193	0.0062	28800	4.64E-81
PCARE	0.0300	0.0097	42120	2.67E-02	-0.0044	0.0060	23217	5.37E-01	-0.0001	0.0015	23575	9.51E-01	0.0000	0.0019	23590	9.98E-01	0.0006	0.0025	23589	8.41E-01
SLC1A4	-0.0182	0.0059	42343	2.68E-02	-0.0086	0.0098	23314	4.53E-01	0.0006	0.0024	23671	8.28E-01	0.0016	0.0032	23685	6.68E-01	0.0000	0.0041	23684	9.94E-01
GZMH	-0.0276	0.0090	49059	2.74E-02	0.0253	0.0055	27799	1.01E-05	0.0097	0.0014	28234	1.89E-12	0.0134	0.0018	28248	1.36E-13	0.0110	0.0023	28247	3.01E-06
KLB	0.0264	0.0086	48799	2.80E-02	-0.0124	0.0058	27661	4.80E-02	-0.0131	0.0014	28098	5.11E-20	-0.0141	0.0019	28115	9.02E-14	-0.0131	0.0024	28114	1.04E-07
GET3	0.0193	0.0063	43535	2.80E-02	0.0032	0.0089	24011	7.77E-01	0.0101	0.0022	24384	6.58E-06	0.0072	0.0029	24399	1.95E-02	0.0110	0.0037	24398	4.77E-03
CDKN1A	0.0378	0.0124	49744	2.87E-02	0.0302	0.0039	28212	6.02E-14	0.0245	0.0010	28661	2.01E-142	0.0261	0.0013	28678	7.11E-94	0.0321	0.0016	28677	1.76E-85
C1QTNF1	-0.0151	0.0049	50176	2.98E-02	0.0316	0.0098	28453	2.24E-03	0.0475	0.0024	28897	1.35E-86	0.0392	0.0031	28913	9.39E-35	0.0555	0.0040	28912	8.00E-42
OCLN	-0.0158	0.0052	43455	2.99E-02	0.1702	0.0108	23960	2.95E-54	0.0248	0.0026	24328	2.13E-20	0.0274	0.0035	24343	1.14E-14	0.0442	0.0045	24342	2.94E-22
MET1B	-0.0414	0.0136	49984	2.99E-02	-0.0062	0.0036	28340	1.16E-01	0.0161	0.0009	28785	4.41E-76	0.0148	0.0011	28801	2.20E-37	0.0161	0.0015	28800	3.31E-27
CNTF	0.0118	0.0039	42120	3.05E-02	0.0217	0.0149	23217	1.94E-01	-0.0074	0.0037	23575	5.91E-02	-0.0070	0.0048	23590	1.91E-01	-0.0076	0.0062	23589	2.70E-01
HLA_DRA	-0.0125	0.0041	49759	3.07E-02	-0.0202	0.0117	28194	1.21E-01	0.0053	0.0029	28638	8.38E-02	0.0014	0.0038	28654	7.55E-01	0.0027	0.0048	28653	6.35E-01
CD8A	-0.0173	0.0057	50415	3.10E-02	-0.0272	0.0084	28544	2.20E-03	0.0186	0.0021	28996	4.37E-19	0.0203	0.0027	29013	1.66E-13	0.0278	0.0035	29012	4.21E-15
GIMAP7	0.0111	0.0037	42580	3.10E-02	0.0156	0.0155	23496	3.84E-01	-0.0293	0.0038	23858	3.82E-14	-0.0364	0.0050	23871	1.11E-12	-0.0292	0.0065	23870	1.18E-05
ENPP2	-0.0094	0.0031	50594	3.16E-02	-0.1097	0.0152	28667	1.89E-12	0.0305	0.0037	29116	6.02E-16	0.0104	0.0049	29132	4.79E-02	0.0121	0.0063	29131	7.62E-02
PRSS53	-0.0132	0.0044	43426	3.19E-02	0.0234	0.0129	23934	1.02E-01	-0.0043	0.0032	24305	2.16E-01	-0.0087	0.0042	24320	5.15E-02	-0.0152	0.0054	24319	7.06E-03
HSPG2	-0.0094	0.0031	49611	3.20E-02	0.0423	0.0153	28153	9.59E-03	0.0300	0.0037	28590	2.96E-15	0.0332	0.0049	28605	3.90E-11	0.0513	0.0063	28604	1.87E-15
SCLY	-0.0172	0.0057	50251	3.32E-02	0.0568	0.0084	28487	4.56E-11	0.0543	0.0020	28934	2.53E-154	0.0543	0.0027	28951	1.96E-89	0.0600	0.0034	28950	2.91E-66
CCL25	0.0170	0.0057	50529	3.32E-02	0.0145	0.0084	28636	1.22E-01	0.0152	0.0021	29090	3.96E-13	0.0154	0.0027	29107	3.11E-08	0.0305	0.0035	29106	1.02E-17
ST3GAL1	-0.0147	0.0049	49744	3.44E-02	0.0647	0.0098	28212	1.21E-10	-0.0199	0.0024	28661	2.52E-16	-0.0271	0.0032	28678	3.09E-17	-0.0288	0.0041	28677	3.53E-12
AHSG	-0.0092	0.0031	43572	3.50E-02	0.1196	0.0181	24036	1.16E-10	0.0595	0.0044	24408	3.39E-40	0.0614	0.0059	24423	5.97E-25	0.0675	0.0075	24422	1.40E-18
HYOU1	0.0077	0.0026	50594	3.53E-02	0.1673	0.0184	28667	5.78E-19	0.0029	0.0045	29116	5.74E-01	0.0014	0.0059	29132	8.53E-01	-0.0042	0.0076	29131	6.48E-01
CTSD	-0.0144	0.0048	46736	3.60E-02	0.0323	0.0107	26397	4.21E-03	0.0530	0.0026	26809	1.47E-91	0.0497	0.0034	26824	1.25E-46	0.0610	0.0044	26823	1.21E-42
CEND1	0.0199	0.0067	42120	3.73E-02	0.0109	0.0086	23217	2.64E-01	-0.0173	0.0021	23575	7.21E-16	-0.0219	0.0028	23590	1.14E-14	-0.0249	0.0036	23589	9.71E-12
SERPINF1	-0.0097	0.0033	42943	3.90E-02	-0.0064	0.0173	23677	7.71E-01	0.1275	0.0042	24045	1.08E-199	0.1284	0.0055	24060	4.13E-116	0.1496	0.0071	24059	1.89E-95
GGT5	-0.0079	0.0027	49589	3.96E-02	0.0045	0.0182	28083	8.49E-01	-0.0008	0.0044	28527	8.83E-01	-0.0138	0.0058	28543	2.62E-02	-0.0029	0.0075	28542	7.43E-01
PLXNB2	-0.0081	0.0028	50352	4.02E-02	0.0333	0.0173	28555	7.95E-02	0.0706	0.0042	29002	5.56E-62	0.0494	0.0055	29017	1.84E-18	0.0665	0.0071	29016	4.70E-20
HGF	-0.0128	0.0044	50529	4.05E-02	0.2616	0.0109	28636	8.24E-125	0.0631	0.0027	29090	1.44E-121	0.0664	0.0035	29107	9.66E-78	0.0898	0.0045	29106	6.47E-86
GFRA1	-0.0098	0.0034	50324	4.06E-02	0.0513	0.0142	28528	5.54E-04	0.0397	0.0035	28976	1.14E-29	0.0338	0.0046	28993	3.54E-13	0.0618	0.0059	28992	3.68E-25
ENTPD5	-0.0072	0.0025	49059	4.16E-02	0.0651	0.0200	27799	2.02E-03	0.0022	0.0049	28234	6.99E-01	-0.0062	0.0064	28248	3.99E-01	0.0048	0.0083	28247	6.27E-01
LGALS9	-0.0115	0.0039	49947	4.19E-02	0.1539	0.0122	28320	2.30E-35	0.0423	0.0030	28764	1.06E-44	0.0313	0.0039	28779	5.30E-15	0.0547	0.0051	28778	2.04E-26
CD74	-0.0118	0.0041	50415	4.47E-02	0.0456	0.0117	28544	1.84E-04	0.0188	0.0029	28996	8.88E-11	0.0163	0.0038	29013	2.66E-05	0.0369	0.0048	29012	7.04E-14
NPC2	-0.0110	0.0038	42802	4.56E-02	0.1393	0.0148	23704	3.03E-20	0.0307	0.0036	24076	9.95E-17	0.0281	0.0048	24091	1.07E-08	0.0646	0.0062	24090	6.71E-25
IFNG	-0.0381	0.0132	49043	4.57E-02	0.0014	0.0038	27807	7.75E-01	0.0025	0.0009	28251	9.32E-03	0.0015	0.0012	28266	2.55E-01	0.0037	0.0016	28265	2.81E-02

CST3	-0.0097	0.0034	50092	4.67E-02	0.1123	0.0140	28392	4.28E-15	0.0432	0.0034	28834	1.19E-35	0.0446	0.0045	28850	2.47E-22	0.0746	0.0058	28849	8.37E-37
CDH1	-0.0133	0.0046	48328	4.67E-02	-0.0172	0.0107	27384	1.53E-01	0.0074	0.0026	27809	7.64E-03	0.0035	0.0035	27824	3.67E-01	-0.0003	0.0045	27823	9.52E-01
MTUS1	-0.0184	0.0065	42740	4.93E-02	0.0222	0.0088	23551	1.91E-02	0.0235	0.0022	23912	7.24E-27	0.0180	0.0029	23927	7.05E-10	0.0244	0.0037	23926	7.00E-11
FUT8	0.0190	0.0067	49589	5.20E-02	0.0613	0.0073	28083	1.25E-16	0.0101	0.0018	28527	3.12E-08	0.0123	0.0023	28543	2.89E-07	0.0140	0.0030	28542	6.49E-06
IL1RL2	0.0129	0.0045	49043	5.20E-02	-0.0294	0.0108	27807	1.10E-02	0.0300	0.0026	28251	3.39E-29	0.0256	0.0035	28266	5.00E-13	0.0384	0.0045	28265	4.08E-17
CLSTN3	-0.0100	0.0035	43426	5.20E-02	0.0398	0.0160	23934	2.06E-02	0.0699	0.0039	24305	1.27E-70	0.0643	0.0051	24320	6.60E-35	0.0978	0.0066	24319	2.11E-48
ULBP2	-0.0127	0.0045	49589	5.22E-02	0.0296	0.0108	28083	1.03E-02	-0.0020	0.0026	28527	4.99E-01	-0.0051	0.0035	28543	1.85E-01	0.0099	0.0045	28542	3.97E-02
LATS1	0.0277	0.0098	42274	5.24E-02	0.0427	0.0058	23352	9.40E-13	0.0279	0.0014	23710	4.13E-83	0.0288	0.0019	23723	4.20E-51	0.0352	0.0024	23722	3.10E-46
IFNLR1	-0.0122	0.0043	49907	5.27E-02	0.0173	0.0111	28300	1.65E-01	0.0407	0.0027	28746	5.55E-50	0.0332	0.0036	28762	5.51E-20	0.0346	0.0046	28761	1.52E-13
KDR	0.0084	0.0030	50125	5.48E-02	0.1648	0.0164	28423	4.31E-23	0.0636	0.0040	28868	7.16E-56	0.0586	0.0053	28885	6.35E-28	0.0486	0.0068	28884	2.42E-12
FUT3_FUT5	-0.0151	0.0054	50415	5.61E-02	0.1982	0.0088	28544	1.76E-108	-0.0126	0.0022	28996	1.32E-08	-0.0284	0.0029	29013	1.23E-22	-0.0243	0.0037	29012	1.08E-10
IL18BP	-0.0100	0.0036	50176	5.65E-02	0.0569	0.0134	28453	4.29E-05	-0.0098	0.0033	28897	4.01E-03	-0.0146	0.0043	28913	1.20E-03	-0.0020	0.0055	28912	7.64E-01
DCTN1	0.0211	0.0076	50397	5.83E-02	0.0153	0.0063	28576	2.43E-02	0.0188	0.0015	29025	1.28E-33	0.0183	0.0020	29042	8.81E-19	0.0251	0.0026	29041	3.37E-21
RBKS	-0.0167	0.0060	48808	5.94E-02	0.0002	0.0085	27677	9.89E-01	0.0148	0.0021	28114	3.00E-12	0.0067	0.0027	28130	2.14E-02	0.0156	0.0035	28129	1.71E-05
INHBC	-0.0145	0.0052	49982	5.95E-02	-0.0100	0.0093	28299	3.48E-01	0.0707	0.0022	28747	1.93E-213	0.0756	0.0030	28764	2.99E-140	0.1091	0.0038	28763	7.18E-177
SMAD2	0.0221	0.0080	43331	6.02E-02	0.0462	0.0070	23884	1.70E-10	0.0291	0.0017	24254	1.39E-62	0.0295	0.0023	24269	1.44E-37	0.0348	0.0029	24268	1.15E-31
SERPINA11	-0.0131	0.0047	50594	6.03E-02	-0.0202	0.0101	28667	6.75E-02	-0.0276	0.0025	29116	1.60E-28	-0.0396	0.0032	29132	1.50E-33	-0.0246	0.0042	29131	8.43E-09
YOD1	0.0203	0.0073	42109	6.11E-02	-0.0105	0.0080	23248	2.48E-01	0.0067	0.0020	23603	1.00E-03	0.0030	0.0026	23617	3.05E-01	0.0086	0.0033	23616	1.45E-02
SARG	0.0347	0.0126	43373	6.23E-02	0.0346	0.0045	23915	4.21E-14	0.0193	0.0011	24287	1.45E-68	0.0207	0.0014	24302	9.72E-46	0.0219	0.0019	24301	3.73E-31
NOS3	0.0172	0.0062	48799	6.29E-02	0.0155	0.0080	27661	7.48E-02	0.0331	0.0019	28098	1.61E-63	0.0285	0.0026	28115	6.36E-28	0.0482	0.0033	28114	4.14E-47
PTPRR	-0.0117	0.0043	43426	6.47E-02	0.0344	0.0131	23934	1.44E-02	-0.0786	0.0032	24305	8.09E-132	-0.1101	0.0042	24320	1.52E-148	-0.1264	0.0054	24319	1.46E-118
PRKRA	0.0214	0.0078	48785	6.60E-02	0.0220	0.0062	27677	8.03E-04	0.0302	0.0015	28109	1.11E-85	0.0278	0.0020	28125	4.93E-42	0.0359	0.0026	28124	2.09E-42
IL34	0.0113	0.0041	48720	6.62E-02	-0.0446	0.0119	27613	3.45E-04	0.0085	0.0029	28049	5.57E-03	0.0053	0.0039	28066	2.11E-01	0.0116	0.0050	28065	2.89E-02
ARHGEF12	0.0330	0.0121	49907	6.72E-02	0.0279	0.0040	28300	6.45E-12	0.0152	0.0010	28746	3.02E-54	0.0161	0.0013	28762	1.82E-35	0.0182	0.0016	28761	7.85E-28
BMPER	-0.0073	0.0027	42580	6.72E-02	0.0879	0.0215	23496	8.95E-05	0.0733	0.0053	23858	2.62E-43	0.0616	0.0069	23871	2.70E-18	0.1047	0.0089	23870	6.21E-31
SLAMF8	-0.0168	0.0062	48785	6.79E-02	0.0740	0.0080	27677	7.60E-20	-0.0059	0.0020	28109	3.80E-03	-0.0098	0.0026	28125	2.40E-04	-0.0177	0.0033	28124	2.05E-07
CTSB	-0.0169	0.0062	50030	6.79E-02	0.0621	0.0078	28336	6.53E-15	-0.0517	0.0019	28781	2.15E-162	-0.0555	0.0025	28795	4.87E-108	-0.0562	0.0032	28794	4.05E-67
SMAD3	0.0159	0.0059	43331	7.00E-02	0.0505	0.0096	23884	3.12E-07	0.0220	0.0023	24254	2.27E-20	0.0227	0.0031	24269	6.23E-13	0.0253	0.0040	24268	4.82E-10
TIMP1	-0.0090	0.0033	49438	7.20E-02	0.2281	0.0146	28046	1.40E-53	0.0352	0.0036	28481	2.36E-22	0.0378	0.0047	28496	3.14E-15	0.0606	0.0060	28495	6.17E-23
NEXN	0.0214	0.0079	43572	7.26E-02	0.0429	0.0070	24036	2.66E-09	0.0238	0.0017	24408	1.12E-42	0.0278	0.0023	24423	1.13E-33	0.0341	0.0029	24422	9.31E-31
PDGFRA	-0.0088	0.0033	49984	7.30E-02	-0.0442	0.0149	28340	5.11E-03	-0.0113	0.0036	28785	2.79E-03	-0.0252	0.0048	28801	2.43E-07	-0.0081	0.0061	28800	2.34E-01
STXBP3	0.0135	0.0050	48785	7.32E-02	0.0596	0.0098	27677	2.75E-09	0.0242	0.0024	28109	2.11E-23	0.0290	0.0032	28125	1.84E-19	0.0376	0.0041	28124	9.87E-20
REPS1	0.0119	0.0044	42274	7.35E-02	0.0083	0.0131	23352	6.01E-01	0.0107	0.0032	23710	1.41E-03	0.0081	0.0043	23723	7.89E-02	0.0117	0.0055	23722	4.70E-02
PCSK7	-0.0138	0.0052	43331	7.45E-02	-0.0183	0.0109	23884	1.32E-01	0.0154	0.0027	24254	1.67E-08	0.0125	0.0035	24269	6.58E-04	0.0110	0.0045	24268	2.26E-02
IL1R2	-0.0061	0.0023	49863	7.62E-02	0.0537	0.0211	28273	1.77E-02	0.0875	0.0051	28718	8.50E-64	0.0745	0.0068	28733	2.41E-27	0.0610	0.0087	28732	7.89E-12
ARHGAP1	0.0143	0.0054	48785	7.67E-02	0.0373	0.0092	27677	1.09E-04	0.0098	0.0023	28109	2.90E-05	0.0112	0.0030	28125	3.23E-04	0.0081	0.0038	28124	5.13E-02
CD48	-0.0091	0.0034	50106	7.82E-02	-0.0199	0.0139	28399	2.04E-01	0.0093	0.0034	28844	9.19E-03	0.0024	0.0045	28860	6.52E-01	0.0203	0.0058	28859	7.64E-04
NAGPA	-0.0067	0.0025	42580	8.05E-02	0.1130	0.0228	23496	1.61E-06	0.0873	0.0055	23858	1.22E-54	0.0691	0.0073	23871	1.83E-20	0.0626	0.0094	23870	8.45E-11
IGBP1	0.0186	0.0070	43455	8.08E-02	0.0508	0.0080	23960	6.90E-10	0.0084	0.0020	24328	3.34E-05	0.0069	0.0026	24343	1.20E-02	0.0114	0.0033	24342	1.05E-03
IGF2R	-0.0073	0.0027	49982	8.09E-02	0.1609	0.0177	28299	4.87E-19	0.0504	0.0043	28747	9.12E-31	0.0377	0.0057	28764	8.49E-11	0.0344	0.0073	28763	5.20E-06
LAMP3	-0.0173	0.0065	50446	8.15E-02	0.0455	0.0073	28610	1.31E-09	-0.0086	0.0018	29064	3.04E-06	-0.0068	0.0024	29081	6.57E-03	-0.0053	0.0030	29080	1.11E-01
AKR1B10	-0.0186	0.0070	42343	8.18E-02	0.0358	0.0081	23314	2.17E-05	0.0105	0.0020	23671	2.17E-07	0.0074	0.0026	23685	7.72E-03	0.0096	0.0034	23684	6.53E-03
BLOC1S3	0.0123	0.0047	43426	8.38E-02	0.0956	0.0119	23934	4.80E-15	0.0446	0.0029	24305	1.36E-51	0.0488	0.0038	24320	8.47E-36	0.0557	0.0049	24319	1.79E-28

PTGR1	-0.0255	0.0097	43535	8.38E-02	0.0219	0.0058	24011	3.11E-04	0.0343	0.0014	24384	3.82E-129	0.0338	0.0019	24399	4.53E-72	0.0385	0.0024	24398	6.11E-57
GYS1	0.0282	0.0107	49059	8.43E-02	0.0630	0.0045	27799	3.38E-42	0.0103	0.0011	28234	8.53E-20	0.0119	0.0015	28248	1.63E-15	0.0102	0.0019	28247	1.37E-07
LBP	-0.0180	0.0069	50176	8.62E-02	0.0778	0.0070	28453	3.99E-28	0.0054	0.0017	28897	2.42E-03	-0.0017	0.0022	28913	5.19E-01	-0.0007	0.0029	28912	8.52E-01
CLGN	-0.0134	0.0051	42343	8.62E-02	0.0064	0.0112	23314	6.38E-01	0.0167	0.0027	23671	2.35E-09	0.0122	0.0036	23685	1.29E-03	0.0204	0.0046	23684	2.19E-05
SCARF2	0.0087	0.0033	50415	8.62E-02	0.0059	0.0142	28544	7.43E-01	-0.0519	0.0035	28996	2.50E-49	-0.0634	0.0046	29013	1.73E-42	-0.0590	0.0059	29012	7.72E-23
EDN1	-0.0090	0.0034	42387	8.78E-02	0.1818	0.0167	23360	1.09E-26	0.0255	0.0041	23719	1.18E-09	0.0394	0.0054	23733	9.83E-13	0.0784	0.0070	23732	1.52E-28
CEACAM21	0.0259	0.0100	49907	8.78E-02	0.0148	0.0049	28300	4.10E-03	0.0008	0.0012	28746	5.32E-01	0.0018	0.0016	28762	2.99E-01	0.0030	0.0020	28761	1.72E-01
C1S	-0.0064	0.0024	43602	8.82E-02	0.1844	0.0230	24051	3.88E-15	0.0515	0.0056	24424	1.79E-19	0.0358	0.0074	24439	2.86E-06	0.0391	0.0095	24438	8.06E-05
SMAD5	-0.0062	0.0024	49744	8.88E-02	0.1909	0.0203	28212	2.81E-20	0.0839	0.0050	28661	3.72E-63	0.0779	0.0065	28678	5.12E-32	0.0810	0.0084	28677	2.54E-21
CHMP6	0.0168	0.0065	43535	8.88E-02	0.0619	0.0087	24011	2.72E-12	0.0412	0.0021	24384	3.72E-83	0.0406	0.0028	24399	1.04E-46	0.0455	0.0036	24398	7.84E-36
CD99	0.0058	0.0023	49982	8.98E-02	0.1849	0.0212	28299	1.06E-17	-0.0001	0.0052	28747	9.87E-01	0.0081	0.0068	28764	2.90E-01	-0.0149	0.0088	28763	1.21E-01
ADA2	-0.0128	0.0049	49689	8.98E-02	-0.0089	0.0098	28204	4.36E-01	0.0089	0.0024	28639	3.29E-04	0.0005	0.0032	28654	9.05E-01	0.0166	0.0041	28653	8.28E-05
CST1	-0.0311	0.0120	37810	9.10E-02	-0.0369	0.0053	20871	1.37E-11	0.0017	0.0013	21188	2.35E-01	0.0018	0.0017	21200	3.50E-01	0.0095	0.0022	21199	3.35E-05
COL6A3	-0.0110	0.0042	50594	9.11E-02	0.0514	0.0110	28667	6.95E-06	0.0245	0.0027	29116	2.72E-19	0.0222	0.0035	29132	9.95E-10	0.0357	0.0046	29131	1.63E-14
GALNT10	-0.0084	0.0033	49744	9.11E-02	0.1413	0.0150	28212	2.32E-20	0.0487	0.0037	28661	1.32E-39	0.0322	0.0048	28678	5.27E-11	0.0312	0.0062	28677	9.85E-07
ICAM1	-0.0089	0.0034	49771	9.36E-02	0.1152	0.0140	28265	9.28E-16	0.0220	0.0034	28701	3.24E-10	0.0137	0.0045	28716	4.06E-03	0.0248	0.0058	28715	3.84E-05
GAS6	-0.0075	0.0029	50272	9.38E-02	0.0447	0.0164	28495	1.06E-02	-0.0320	0.0040	28940	2.77E-15	-0.0474	0.0052	28954	6.92E-19	-0.0416	0.0068	28953	1.84E-09
RNASE6	-0.0092	0.0036	43263	9.39E-02	0.1759	0.0153	23920	1.30E-29	0.0316	0.0038	24291	1.11E-16	0.0359	0.0050	24306	1.27E-12	0.0695	0.0064	24305	8.04E-27
TNFRSF1B	-0.0109	0.0043	49982	9.63E-02	0.1039	0.0112	28299	7.54E-20	-0.0092	0.0027	28747	1.28E-03	-0.0112	0.0036	28764	2.98E-03	-0.0034	0.0046	28763	5.33E-01
BSG	0.0060	0.0024	50446	9.63E-02	-0.0721	0.0199	28610	5.49E-04	0.0002	0.0049	29064	9.75E-01	-0.0049	0.0064	29081	5.06E-01	0.0292	0.0083	29080	6.96E-04
SYT1	0.0114	0.0045	43426	9.63E-02	0.0674	0.0124	23934	1.49E-07	-0.0509	0.0030	24305	1.41E-61	-0.0704	0.0040	24320	1.27E-67	-0.0844	0.0051	24319	5.94E-59
PON1	-0.0077	0.0030	43572	9.97E-02	0.0300	0.0185	24036	1.45E-01	-0.0255	0.0045	24408	3.85E-08	-0.0306	0.0060	24423	6.34E-07	-0.0603	0.0077	24422	1.45E-14
USP8	0.0282	0.0111	49059	1.01E-01	0.0454	0.0044	27799	4.87E-24	0.0172	0.0011	28234	1.30E-56	0.0199	0.0014	28248	1.05E-43	0.0204	0.0018	28247	3.48E-28
CEP43	0.0204	0.0080	48665	1.01E-01	0.0553	0.0061	27596	8.56E-19	0.0234	0.0015	28028	3.63E-54	0.0231	0.0020	28042	7.40E-31	0.0260	0.0025	28041	6.00E-24
ADM	-0.0089	0.0035	50397	1.01E-01	0.0631	0.0137	28576	8.84E-06	0.0620	0.0033	29025	4.43E-75	0.0669	0.0044	29042	9.50E-51	0.1172	0.0056	29041	1.17E-93
LAG3	-0.0120	0.0047	49744	1.01E-01	0.0176	0.0103	28212	1.24E-01	0.0147	0.0025	28661	8.82E-09	0.0092	0.0033	28678	8.39E-03	0.0161	0.0042	28677	2.77E-04
AMOT	-0.0119	0.0047	42580	1.01E-01	0.0159	0.0122	23496	2.49E-01	0.0431	0.0030	23858	1.41E-46	0.0302	0.0039	23871	4.35E-14	0.0443	0.0050	23870	7.66E-18
DDC	-0.0143	0.0056	49910	1.02E-01	-0.1145	0.0086	28300	5.84E-39	0.0015	0.0021	28742	5.41E-01	-0.0092	0.0028	28758	1.48E-03	-0.0131	0.0036	28757	4.03E-04
TNFRSF10B	-0.0120	0.0048	49589	1.02E-01	0.0771	0.0105	28083	5.69E-13	0.0109	0.0026	28527	3.37E-05	0.0106	0.0034	28543	2.57E-03	0.0251	0.0043	28542	1.54E-08
LGALS7_LGALS7B	0.0123	0.0049	49824	1.02E-01	0.0505	0.0099	28183	8.64E-07	-0.0068	0.0024	28627	7.31E-03	-0.0061	0.0032	28644	7.95E-02	0.0105	0.0041	28643	1.66E-02
IL10RB	-0.0086	0.0034	50189	1.02E-01	0.0287	0.0139	28442	5.91E-02	0.0195	0.0034	28888	2.12E-08	0.0149	0.0045	28904	1.54E-03	0.0289	0.0058	28903	1.18E-06
CTSE	-0.0152	0.0060	42580	1.04E-01	-0.1454	0.0095	23496	1.57E-51	0.0472	0.0023	23858	7.59E-90	0.0446	0.0031	23871	1.72E-46	0.1016	0.0039	23870	2.00E-145
ADGRG2	0.0081	0.0032	49984	1.05E-01	-0.0477	0.0150	28340	2.57E-03	-0.0711	0.0036	28785	2.82E-83	-0.0731	0.0048	28801	4.65E-51	-0.1050	0.0062	28800	1.62E-63
ATXN3	0.0182	0.0073	43426	1.07E-01	0.0280	0.0078	23934	6.48E-04	0.0005	0.0019	24305	8.31E-01	-0.0032	0.0025	24320	2.56E-01	-0.0006	0.0032	24319	8.71E-01
AP3S2	0.0137	0.0055	43426	1.08E-01	0.0566	0.0103	23934	9.61E-08	0.0448	0.0025	24305	1.05E-69	0.0479	0.0033	24320	4.30E-46	0.0588	0.0043	24319	2.97E-42
CEACAM6	-0.0120	0.0048	43537	1.12E-01	0.0659	0.0115	24024	2.74E-08	-0.0247	0.0028	24398	5.33E-18	-0.0286	0.0037	24413	4.35E-14	-0.0292	0.0048	24412	2.61E-09
NEO1	-0.0063	0.0026	43455	1.13E-01	-0.0339	0.0225	23960	1.79E-01	-0.0445	0.0055	24328	1.66E-15	-0.0616	0.0073	24343	7.59E-17	-0.0748	0.0093	24342	3.72E-15
CPA1	-0.0172	0.0069	50594	1.14E-01	0.0059	0.0069	28667	4.65E-01	0.0173	0.0017	29116	1.64E-24	0.0210	0.0022	29132	4.95E-21	0.0294	0.0028	29131	1.72E-24
SFTPA1	-0.0164	0.0066	48785	1.15E-01	0.0167	0.0074	27677	3.62E-02	-0.0035	0.0018	28109	6.70E-02	-0.0041	0.0024	28125	1.21E-01	-0.0046	0.0031	28124	1.75E-01
NT5E	-0.0161	0.0065	50125	1.15E-01	0.0267	0.0074	28423	5.54E-04	0.0255	0.0018	28868	1.73E-44	0.0163	0.0024	28885	1.72E-11	0.0214	0.0031	28884	6.60E-12
LRP1	0.0076	0.0031	49744	1.17E-01	-0.0233	0.0158	28212	1.88E-01	-0.0869	0.0038	28661	8.25E-112	-0.1251	0.0050	28678	1.28E-133	-0.1492	0.0065	28677	4.36E-115
BOLA2_BOLA2B	0.0157	0.0064	42387	1.17E-01	0.0390	0.0091	23360	3.56E-05	-0.0030	0.0022	23719	2.24E-01	-0.0049	0.0029	23733	1.28E-01	-0.0042	0.0038	23732	3.22E-01
APOD	0.0124	0.0050	41644	1.17E-01	0.0494	0.0114	22922	3.17E-05	-0.0674	0.0028	23273	1.51E-127	-0.0752	0.0037	23286	3.69E-91	-0.0882	0.0047	23285	6.71E-76

HMOX1	-0.0136	0.0055	49426	1.19E-01	0.0338	0.0089	28044	2.73E-04	-0.0105	0.0022	28482	2.25E-06	-0.0184	0.0028	28497	2.30E-10	-0.0313	0.0037	28496	4.40E-17
FOXO1	0.0242	0.0098	49907	1.19E-01	0.0354	0.0049	28300	1.45E-12	0.0157	0.0012	28746	1.13E-38	0.0163	0.0016	28762	1.91E-24	0.0180	0.0020	28761	2.45E-18
KLRB1	-0.0109	0.0044	50529	1.19E-01	-0.0891	0.0107	28636	3.43E-16	0.0407	0.0026	29090	1.67E-53	0.0502	0.0034	29107	6.32E-47	0.0710	0.0044	29106	1.76E-56
PRSS8	-0.0124	0.0050	49781	1.20E-01	-0.0232	0.0096	28219	2.54E-02	0.0330	0.0023	28660	1.91E-44	0.0336	0.0031	28675	6.05E-27	0.0291	0.0040	28674	6.80E-13
SRPK2	0.0240	0.0098	49907	1.21E-01	0.0459	0.0049	28300	5.18E-20	0.0215	0.0012	28746	3.90E-70	0.0227	0.0016	28762	2.47E-45	0.0293	0.0020	28761	7.97E-46
FNDC1	-0.0133	0.0054	43426	1.21E-01	-0.0247	0.0104	23934	2.71E-02	0.0336	0.0025	24305	2.42E-39	0.0423	0.0033	24320	6.74E-36	0.0485	0.0043	24319	9.26E-29
NTproBNP	0.0290	0.0118	49984	1.21E-01	-0.0059	0.0041	28340	1.94E-01	-0.0186	0.0010	28785	1.51E-77	-0.0220	0.0013	28801	3.48E-63	-0.0222	0.0017	28800	3.30E-39
CD4	0.0085	0.0035	49825	1.21E-01	0.0513	0.0137	28250	3.51E-04	0.0851	0.0033	28696	2.74E-141	0.0837	0.0044	28712	4.74E-79	0.1266	0.0056	28711	2.92E-109
GIT1	0.0275	0.0113	42274	1.22E-01	0.0294	0.0050	23352	1.45E-08	0.0152	0.0012	23710	6.75E-34	0.0160	0.0016	23723	6.40E-22	0.0189	0.0021	23722	1.27E-18
SIT1	0.0162	0.0066	49043	1.22E-01	-0.0654	0.0074	27807	4.53E-18	0.0384	0.0018	28251	1.70E-98	0.0442	0.0024	28266	1.38E-75	0.0679	0.0030	28265	1.55E-107
PILRA	-0.0120	0.0049	49982	1.22E-01	0.0751	0.0097	28299	4.51E-14	0.0041	0.0024	28747	1.06E-01	0.0005	0.0031	28764	8.90E-01	0.0098	0.0040	28763	2.27E-02
LRCH4	0.0196	0.0080	42109	1.23E-01	0.0479	0.0072	23248	8.22E-11	0.0305	0.0018	23603	4.08E-66	0.0316	0.0023	23617	5.22E-41	0.0457	0.0030	23616	1.20E-51
IGDCC3	0.0137	0.0056	42120	1.23E-01	0.0143	0.0104	23217	2.22E-01	-0.0012	0.0025	23575	6.81E-01	-0.0015	0.0033	23590	7.10E-01	-0.0018	0.0043	23589	7.31E-01
CFI	-0.0061	0.0025	43602	1.23E-01	0.2236	0.0224	24051	1.17E-22	0.1629	0.0054	24424	1.68E-193	0.1476	0.0072	24439	3.68E-91	0.1873	0.0093	24438	8.06E-89
CXADR	-0.0143	0.0059	49907	1.25E-01	0.0031	0.0082	28300	7.66E-01	0.0087	0.0020	28746	2.42E-05	0.0021	0.0026	28762	4.80E-01	0.0038	0.0034	28761	3.24E-01
NDST1	0.0172	0.0071	43331	1.25E-01	0.0144	0.0079	23884	1.02E-01	0.0014	0.0020	24254	5.37E-01	-0.0003	0.0026	24269	9.33E-01	0.0002	0.0033	24268	9.66E-01
ESM1	0.0099	0.0041	49941	1.25E-01	0.0038	0.0119	28321	8.02E-01	-0.0497	0.0029	28766	1.15E-64	-0.0469	0.0038	28782	1.15E-33	-0.0449	0.0049	28781	2.96E-19
KHK	-0.0181	0.0075	42387	1.26E-01	0.0397	0.0076	23360	4.91E-07	0.0512	0.0019	23719	2.03E-163	0.0510	0.0025	23733	3.07E-93	0.0607	0.0032	23732	4.16E-80
VCAN	0.0084	0.0035	50415	1.26E-01	0.0508	0.0138	28544	4.36E-04	-0.0567	0.0034	28996	1.15E-62	-0.0643	0.0044	29013	1.16E-46	-0.0732	0.0057	29012	7.48E-37
CNTN1	0.0076	0.0032	50594	1.26E-01	-0.1002	0.0150	28667	7.41E-11	-0.0197	0.0037	29116	1.63E-07	-0.0367	0.0048	29132	8.39E-14	-0.0518	0.0062	29131	3.01E-16
SH3GLB2	0.0188	0.0078	43426	1.27E-01	0.0309	0.0073	23934	4.69E-05	0.0031	0.0018	24305	1.11E-01	-0.0027	0.0024	24320	3.10E-01	0.0007	0.0030	24319	8.47E-01
IKBKG	0.0258	0.0107	49907	1.27E-01	0.0171	0.0045	28300	2.35E-04	0.0158	0.0011	28746	1.13E-46	0.0167	0.0014	28762	1.72E-30	0.0204	0.0018	28761	1.15E-27
MEGF10	0.0111	0.0046	49941	1.29E-01	-0.0359	0.0105	28321	1.14E-03	0.0020	0.0026	28766	4.94E-01	0.0002	0.0034	28782	9.60E-01	0.0009	0.0044	28781	8.71E-01
RIDA	-0.0144	0.0060	42580	1.29E-01	0.0870	0.0096	23496	7.08E-19	0.0304	0.0024	23858	1.78E-37	0.0231	0.0031	23871	2.92E-13	0.0263	0.0040	23870	1.20E-10
TAFAS	-0.0100	0.0042	49744	1.30E-01	0.0886	0.0115	28212	3.88E-14	-0.0220	0.0028	28661	9.12E-15	-0.0305	0.0037	28678	3.88E-16	-0.0339	0.0047	28677	2.44E-12
VPS37A	0.0223	0.0093	49744	1.32E-01	0.0204	0.0052	28212	1.73E-04	0.0286	0.0013	28661	5.81E-111	0.0308	0.0017	28678	3.79E-74	0.0382	0.0021	28677	3.45E-69
CRIM1	-0.0056	0.0023	50189	1.33E-01	0.2326	0.0203	28442	2.28E-29	-0.0565	0.0050	28888	2.65E-29	-0.0848	0.0065	28904	1.61E-37	-0.0807	0.0084	28903	4.13E-21
FAS	-0.0091	0.0038	50433	1.33E-01	-0.0797	0.0126	28587	6.55E-10	0.0253	0.0031	29035	5.52E-16	0.0052	0.0041	29050	2.54E-01	0.0082	0.0052	29049	1.54E-01
FAM13A	0.0187	0.0078	43346	1.33E-01	0.0682	0.0072	23893	8.48E-21	0.0149	0.0018	24266	7.31E-17	0.0170	0.0023	24281	6.65E-13	0.0200	0.0030	24280	5.45E-11
CEP85	0.0179	0.0075	48785	1.33E-01	0.0291	0.0065	27677	1.85E-05	0.0258	0.0016	28109	3.57E-57	0.0264	0.0021	28125	6.41E-35	0.0367	0.0027	28124	1.46E-40
CCT5	0.0126	0.0053	48785	1.34E-01	0.0579	0.0093	27677	1.25E-09	0.0115	0.0023	28109	9.05E-07	0.0109	0.0030	28125	5.02E-04	0.0148	0.0039	28124	2.27E-04
CPPED1	0.0186	0.0078	50415	1.34E-01	0.0441	0.0062	28544	4.45E-12	0.0070	0.0015	28996	7.31E-06	0.0065	0.0020	29013	1.89E-03	0.0088	0.0026	29012	1.14E-03
SERPINH1	0.0352	0.0148	42740	1.35E-01	0.0409	0.0038	23551	1.43E-25	0.0127	0.0009	23912	1.95E-40	0.0139	0.0012	23927	3.55E-28	0.0154	0.0016	23926	3.67E-21
F10	-0.0074	0.0031	43572	1.35E-01	0.1288	0.0178	24036	1.46E-12	0.0669	0.0043	24408	1.93E-52	0.0656	0.0057	24423	1.90E-29	0.0579	0.0074	24422	1.57E-14
CTRB1	-0.0152	0.0064	49982	1.35E-01	-0.0420	0.0076	28299	7.44E-08	0.0144	0.0019	28747	1.77E-14	0.0156	0.0024	28764	3.82E-10	0.0225	0.0031	28763	2.11E-12
TXNL1	0.0271	0.0114	42037	1.35E-01	-0.0173	0.0052	23186	1.43E-03	0.0036	0.0013	23543	6.22E-03	0.0052	0.0017	23558	3.09E-03	0.0061	0.0021	23557	6.94E-03
NEDD4L	0.0133	0.0056	42274	1.35E-01	0.0197	0.0102	23352	7.72E-02	0.0014	0.0025	23710	6.15E-01	-0.0004	0.0033	23723	9.29E-01	-0.0007	0.0042	23722	8.90E-01
THY1	-0.0081	0.0034	50415	1.35E-01	0.0093	0.0139	28544	5.77E-01	0.0119	0.0034	28996	7.16E-04	-0.0022	0.0045	29013	6.77E-01	0.0231	0.0057	29012	1.02E-04
CLIP2	0.0312	0.0131	49907	1.36E-01	0.0369	0.0037	28300	6.30E-23	0.0144	0.0009	28746	1.16E-56	0.0152	0.0012	28762	8.82E-37	0.0178	0.0015	28761	1.09E-30
MAPK9	0.0118	0.0050	49907	1.36E-01	0.0893	0.0097	28300	1.61E-19	0.0289	0.0024	28746	1.86E-33	0.0281	0.0031	28762	8.10E-19	0.0375	0.0040	28761	4.04E-20
B2M	-0.0087	0.0037	43602	1.36E-01	0.1194	0.0155	24051	5.67E-14	0.0087	0.0038	24424	3.23E-02	0.0121	0.0050	24439	2.38E-02	0.0335	0.0065	24438	4.89E-07
MYCBP2	0.0182	0.0077	43455	1.36E-01	0.0367	0.0073	23960	1.00E-06	0.0154	0.0018	24328	1.29E-17	0.0163	0.0023	24343	9.90E-12	0.0266	0.0030	24342	4.01E-18
DKK3	-0.0081	0.0034	50594	1.36E-01	0.0325	0.0139	28667	3.09E-02	-0.0638	0.0034	29116	6.20E-78	-0.0865	0.0044	29132	1.93E-82	-0.0944	0.0057	29131	1.25E-59

CXCL9	-0.0180	0.0076	50189	1.39E-01	0.0621	0.0063	28442	2.82E-22	-0.0060	0.0015	28888	1.56E-04	-0.0055	0.0020	28904	1.08E-02	-0.0013	0.0026	28903	6.72E-01
DNAJB8	0.0156	0.0066	49059	1.40E-01	0.0343	0.0074	27799	8.56E-06	0.0084	0.0018	28234	5.96E-06	0.0088	0.0024	28248	4.32E-04	0.0094	0.0031	28247	3.54E-03
PRAME	0.0069	0.0029	41982	1.41E-01	0.0153	0.0202	23146	5.23E-01	-0.0077	0.0049	23506	1.47E-01	-0.0039	0.0065	23521	6.12E-01	-0.0061	0.0084	23520	5.33E-01
HHEX	0.0208	0.0089	43426	1.41E-01	0.0370	0.0063	23934	1.39E-08	0.0463	0.0015	24305	1.21E-196	0.0478	0.0020	24320	8.64E-120	0.0619	0.0026	24319	1.29E-121
HAVCR2	-0.0097	0.0041	49982	1.42E-01	0.0855	0.0115	28299	3.41E-13	-0.0073	0.0028	28747	1.42E-02	-0.0087	0.0037	28764	2.83E-02	0.0099	0.0048	28763	5.48E-02
CLTA	0.0127	0.0054	49059	1.42E-01	0.0639	0.0091	27799	5.76E-12	0.0186	0.0022	28234	1.12E-16	0.0184	0.0029	28248	6.64E-10	0.0248	0.0037	28247	1.09E-10
ITPR1	0.0186	0.0079	42387	1.42E-01	0.0421	0.0073	23360	1.66E-08	0.0174	0.0018	23719	5.00E-22	0.0185	0.0024	23733	1.11E-14	0.0204	0.0030	23732	4.32E-11
CCL2	-0.0145	0.0062	49505	1.42E-01	-0.0124	0.0080	28036	1.65E-01	0.0089	0.0020	28478	9.87E-06	0.0034	0.0026	28494	2.33E-01	0.0161	0.0033	28493	2.19E-06
PHOSPHO1	0.0081	0.0035	49589	1.42E-01	-0.0044	0.0139	28083	8.02E-01	0.0215	0.0034	28527	5.54E-10	0.0340	0.0045	28543	1.01E-13	0.0454	0.0058	28542	1.27E-14
CTSC	-0.0118	0.0050	49859	1.42E-01	-0.0048	0.0097	28313	6.87E-01	0.0232	0.0024	28757	3.21E-22	0.0147	0.0031	28773	4.63E-06	0.0168	0.0040	28772	5.36E-05
MAN1A2	-0.0070	0.0030	42387	1.42E-01	0.3024	0.0192	23360	2.33E-54	0.0471	0.0047	23719	9.06E-23	0.0259	0.0062	23733	6.40E-05	0.0310	0.0080	23732	2.05E-04
LYN	0.0230	0.0098	49744	1.42E-01	0.0594	0.0050	28212	4.07E-32	0.0214	0.0012	28661	7.72E-69	0.0232	0.0016	28678	5.11E-47	0.0248	0.0020	28677	7.10E-33
INPP5D	0.0157	0.0067	42387	1.42E-01	0.0049	0.0085	23360	6.33E-01	0.0281	0.0021	23719	7.47E-41	0.0270	0.0027	23733	2.75E-22	0.0438	0.0035	23732	1.24E-34
LDLRAP1	0.0261	0.0112	43455	1.44E-01	0.0515	0.0050	23960	9.16E-24	0.0182	0.0012	24328	1.92E-48	0.0185	0.0016	24343	2.35E-29	0.0185	0.0021	24342	3.77E-18
LEP	-0.0264	0.0113	49984	1.46E-01	-0.0311	0.0043	28340	1.07E-12	0.0435	0.0010	28785	0.00E+00	0.0394	0.0014	28801	1.20E-180	0.0505	0.0017	28800	3.83E-180
SIGLEC8	-0.0125	0.0054	42387	1.46E-01	0.0400	0.0106	23360	3.17E-04	0.0246	0.0026	23719	1.54E-20	0.0204	0.0034	23733	7.26E-09	0.0303	0.0044	23732	2.14E-11
PLEKHO1	0.0187	0.0080	43426	1.48E-01	0.0555	0.0070	23934	6.71E-15	0.0266	0.0017	24305	7.35E-54	0.0299	0.0022	24320	2.97E-39	0.0346	0.0029	24319	4.14E-32
ANKRD54	0.0155	0.0067	48785	1.50E-01	-0.0027	0.0075	27677	7.75E-01	-0.0005	0.0018	28109	8.21E-01	-0.0022	0.0024	28125	4.23E-01	0.0029	0.0031	28124	4.17E-01
CEACAM19	-0.0105	0.0045	43346	1.51E-01	0.0273	0.0125	23893	4.40E-02	-0.0029	0.0031	24266	3.89E-01	-0.0039	0.0040	24281	3.94E-01	0.0070	0.0052	24280	2.28E-01
INHBB	-0.0140	0.0061	42580	1.51E-01	0.1167	0.0094	23496	2.44E-34	-0.0094	0.0023	23858	7.54E-05	-0.0207	0.0030	23871	2.76E-11	-0.0119	0.0039	23870	3.90E-03
BANK1	0.0285	0.0123	49907	1.51E-01	0.0237	0.0039	28300	2.69E-09	0.0156	0.0009	28746	6.61E-60	0.0163	0.0012	28762	5.25E-38	0.0181	0.0016	28761	1.45E-28
IL13RA1	-0.0061	0.0026	49353	1.51E-01	0.1389	0.0185	27895	1.97E-13	0.0930	0.0045	28335	1.11E-92	0.0950	0.0059	28352	5.23E-56	0.1032	0.0077	28351	2.53E-40
DYNC1H1	0.0124	0.0054	43331	1.51E-01	0.0218	0.0105	23884	5.65E-02	0.0065	0.0026	24254	1.63E-02	0.0075	0.0034	24269	3.87E-02	0.0104	0.0043	24268	2.51E-02
B4GAT1	-0.0066	0.0029	49982	1.51E-01	0.2234	0.0168	28299	5.72E-39	-0.0639	0.0041	28747	3.05E-53	-0.0881	0.0054	28764	3.75E-58	-0.1346	0.0069	28763	1.22E-81
FLT3LG	-0.0090	0.0039	50529	1.51E-01	-0.1015	0.0122	28636	3.65E-16	0.0294	0.0030	29090	3.50E-22	0.0125	0.0039	29107	2.48E-03	0.0262	0.0051	29106	5.33E-07
TSC22D1	0.0176	0.0076	43455	1.51E-01	0.0479	0.0074	23960	2.29E-10	0.0201	0.0018	24328	2.54E-28	0.0241	0.0024	24343	1.43E-23	0.0269	0.0030	24342	4.32E-18
ARF6	0.0281	0.0122	43346	1.51E-01	0.0278	0.0046	23893	3.81E-09	0.0211	0.0011	24266	2.09E-77	0.0219	0.0015	24281	4.02E-48	0.0267	0.0019	24280	1.56E-43
ERBB2	-0.0068	0.0030	50125	1.51E-01	0.0973	0.0164	28423	8.18E-09	0.1064	0.0040	28868	4.84E-155	0.0995	0.0052	28885	1.78E-78	0.1092	0.0068	28884	2.20E-57
ALDH3A1	-0.0179	0.0078	49825	1.51E-01	0.0154	0.0063	28246	2.28E-02	0.0059	0.0015	28692	2.06E-04	0.0034	0.0020	28708	1.19E-01	0.0008	0.0026	28707	8.14E-01
PLTP	-0.0098	0.0043	50431	1.51E-01	-0.0172	0.0112	28554	1.71E-01	-0.0703	0.0027	29000	1.92E-144	-0.0819	0.0036	29015	4.23E-113	-0.0989	0.0046	29014	7.74E-100
PON3	-0.0084	0.0036	50189	1.51E-01	-0.0018	0.0133	28442	9.19E-01	-0.1105	0.0032	28888	5.13E-253	-0.1163	0.0042	28904	6.55E-161	-0.1592	0.0055	28903	1.40E-182
FGF19	0.0206	0.0090	50189	1.52E-01	-0.0618	0.0054	28442	1.32E-29	0.0239	0.0013	28888	1.27E-72	0.0303	0.0017	28904	2.71E-67	0.0560	0.0022	28903	5.44E-139
GPRC5C	-0.0148	0.0064	43331	1.52E-01	-0.0194	0.0087	23884	3.95E-02	0.0295	0.0021	24254	2.35E-43	0.0285	0.0028	24269	7.66E-24	0.0374	0.0036	24268	1.03E-24
PADI2	-0.0151	0.0066	49043	1.54E-01	0.0161	0.0076	27807	5.38E-02	0.0025	0.0019	28251	2.13E-01	0.0022	0.0024	28266	4.34E-01	0.0103	0.0031	28265	1.81E-03
RNASE10	0.0126	0.0055	42387	1.54E-01	-0.0243	0.0104	23360	3.13E-02	-0.0027	0.0026	23719	3.44E-01	-0.0016	0.0034	23733	7.00E-01	0.0021	0.0044	23732	6.84E-01
CHAC2	0.0159	0.0070	48785	1.58E-01	0.0348	0.0071	27677	2.05E-06	0.0055	0.0017	28109	2.59E-03	0.0056	0.0023	28125	2.25E-02	0.0056	0.0029	28124	8.09E-02
TPSD1	0.0096	0.0042	43455	1.59E-01	-0.0458	0.0132	23960	9.70E-04	0.0064	0.0032	24328	6.36E-02	0.0064	0.0043	24343	1.73E-01	0.0104	0.0055	24342	8.05E-02
CDHR1	0.0113	0.0050	48799	1.60E-01	-0.0405	0.0099	27661	9.11E-05	0.0254	0.0024	28098	7.30E-25	0.0223	0.0032	28115	8.87E-12	0.0198	0.0041	28114	3.20E-06
ITGB1BP2	0.0293	0.0129	49059	1.60E-01	0.0489	0.0038	27799	3.85E-36	0.0104	0.0009	28234	6.99E-28	0.0115	0.0012	28248	4.08E-20	0.0118	0.0016	28247	3.26E-13
CREBZF	0.0068	0.0030	41982	1.60E-01	-0.0392	0.0195	23146	6.54E-02	-0.0145	0.0048	23506	3.49E-03	-0.0098	0.0063	23521	1.56E-01	-0.0212	0.0081	23520	1.37E-02
TRIM21	0.0203	0.0090	49907	1.60E-01	0.0294	0.0054	28300	1.16E-07	0.0165	0.0013	28746	2.10E-35	0.0167	0.0017	28762	2.59E-21	0.0213	0.0022	28761	5.72E-21
PTPRF	-0.0075	0.0033	50594	1.60E-01	0.1397	0.0143	28667	7.05E-22	-0.0054	0.0035	29116	1.56E-01	-0.0112	0.0046	29132	2.20E-02	-0.0171	0.0059	29131	6.16E-03
OBP2B	0.0165	0.0073	49423	1.60E-01	0.0398	0.0067	28005	8.23E-09	-0.0202	0.0016	28447	8.41E-34	-0.0221	0.0022	28463	1.06E-23	-0.0237	0.0028	28462	5.90E-17

ENTR1	-0.0156	0.0069	42387	1.61E-01	0.0694	0.0083	23360	2.26E-16	0.0184	0.0020	23719	6.76E-19	0.0150	0.0027	23733	5.22E-08	0.0205	0.0035	23732	7.98E-09
NUMB	0.0219	0.0097	42274	1.61E-01	0.0443	0.0059	23352	2.58E-13	0.0289	0.0014	23710	8.98E-87	0.0305	0.0019	23723	1.70E-55	0.0354	0.0025	23722	1.19E-45
TNFRSF1A	-0.0081	0.0036	49982	1.62E-01	0.1970	0.0132	28299	1.25E-48	0.0135	0.0033	28747	5.59E-05	0.0144	0.0043	28764	1.31E-03	0.0333	0.0055	28763	3.30E-09
CXCL8	-0.0179	0.0079	49586	1.62E-01	0.0165	0.0062	28086	1.37E-02	-0.0060	0.0015	28530	1.34E-04	-0.0137	0.0020	28547	2.04E-11	-0.0141	0.0026	28546	9.83E-08
BECN1	0.0159	0.0071	42387	1.62E-01	0.0461	0.0081	23360	3.24E-08	0.0262	0.0020	23719	1.22E-38	0.0261	0.0026	23733	1.26E-22	0.0351	0.0034	23732	1.64E-24
TF	-0.0056	0.0025	43602	1.62E-01	0.1390	0.0227	24051	2.37E-09	0.0144	0.0056	24424	1.37E-02	0.0162	0.0073	24439	3.94E-02	0.0064	0.0094	24438	5.64E-01
CSF1R	-0.0104	0.0046	43572	1.62E-01	-0.0080	0.0120	24036	5.77E-01	0.0271	0.0029	24408	6.63E-20	0.0168	0.0039	24423	2.73E-05	0.0313	0.0050	24422	7.50E-10
DPP10	0.0093	0.0041	49907	1.62E-01	-0.0037	0.0117	28300	8.03E-01	-0.0348	0.0028	28746	1.16E-33	-0.0547	0.0037	28762	3.26E-47	-0.0577	0.0048	28761	3.96E-32
PNLIP	-0.0161	0.0071	43572	1.64E-01	-0.0677	0.0077	24036	1.11E-17	0.0218	0.0019	24408	1.38E-29	0.0229	0.0025	24423	2.77E-19	0.0352	0.0032	24422	6.48E-27
CXCL6	0.0199	0.0088	50529	1.64E-01	0.0118	0.0054	28636	4.46E-02	0.0241	0.0013	29090	2.61E-73	0.0233	0.0017	29107	5.38E-40	0.0273	0.0022	29106	1.95E-33
MYH7B	0.0113	0.0050	41982	1.64E-01	-0.0059	0.0115	23146	6.79E-01	-0.0020	0.0028	23506	5.39E-01	-0.0030	0.0037	23521	4.91E-01	-0.0058	0.0048	23520	2.80E-01
OPHN1	0.0281	0.0125	43426	1.64E-01	0.0307	0.0045	23934	2.22E-11	0.0143	0.0011	24305	4.43E-38	0.0154	0.0014	24320	6.87E-26	0.0161	0.0019	24319	2.12E-17
GLYR1	-0.0154	0.0068	43331	1.64E-01	-0.0124	0.0083	23884	1.84E-01	0.0030	0.0020	24254	1.79E-01	-0.0023	0.0027	24269	4.51E-01	0.0051	0.0035	24268	1.78E-01
EPCAM	-0.0251	0.0112	49942	1.64E-01	0.0027	0.0043	28324	6.03E-01	-0.0030	0.0011	28769	6.73E-03	-0.0065	0.0014	28785	6.82E-06	-0.0087	0.0018	28784	2.28E-06
TNFRSF10A	0.0088	0.0039	49589	1.67E-01	-0.0299	0.0124	28083	2.48E-02	0.0318	0.0030	28527	2.05E-25	0.0268	0.0040	28543	3.90E-11	0.0482	0.0051	28542	1.82E-20
TNC	0.0123	0.0055	50176	1.67E-01	0.0392	0.0088	28453	1.62E-05	-0.0186	0.0021	28897	1.10E-17	-0.0212	0.0028	28913	1.49E-13	-0.0118	0.0036	28912	1.97E-03
JAM2	0.0067	0.0030	50415	1.67E-01	-0.0841	0.0156	28544	1.65E-07	0.0096	0.0038	28996	1.71E-02	0.0085	0.0050	29013	1.23E-01	0.0144	0.0064	29012	3.68E-02
LSM1	0.0143	0.0064	48785	1.67E-01	0.0318	0.0077	27677	7.78E-05	0.0047	0.0019	28109	1.85E-02	0.0072	0.0025	28125	5.95E-03	0.0044	0.0032	28124	2.12E-01
CRELD1	-0.0100	0.0045	42580	1.67E-01	0.0649	0.0128	23496	8.37E-07	0.0552	0.0031	23858	1.07E-68	0.0514	0.0041	23871	8.01E-35	0.0638	0.0053	23870	1.66E-32
AGRN	-0.0090	0.0040	50189	1.67E-01	0.0869	0.0117	28442	4.08E-13	0.0418	0.0029	28888	3.71E-47	0.0405	0.0038	28904	4.53E-26	0.0574	0.0049	28903	2.32E-31
LACRT	0.0126	0.0057	43252	1.67E-01	-0.0201	0.0099	23829	6.16E-02	-0.0026	0.0024	24199	3.31E-01	-0.0019	0.0032	24214	6.19E-01	-0.0042	0.0041	24213	3.61E-01
SDC1	0.0102	0.0046	49984	1.67E-01	0.0028	0.0105	28340	8.37E-01	-0.0113	0.0026	28785	1.56E-05	-0.0271	0.0034	28801	2.13E-15	-0.0291	0.0043	28800	4.35E-11
CDH23	0.0068	0.0030	43426	1.69E-01	-0.0635	0.0185	23934	1.10E-03	-0.0160	0.0045	24305	6.53E-04	-0.0172	0.0060	24320	6.20E-03	-0.0184	0.0077	24319	2.44E-02
NCAM2	0.0072	0.0032	49982	1.69E-01	-0.0199	0.0150	28299	2.42E-01	-0.0807	0.0037	28747	1.01E-105	-0.0987	0.0048	28764	2.58E-91	-0.1195	0.0062	28763	5.42E-81
FLI1	0.0283	0.0128	48785	1.70E-01	0.0372	0.0039	27677	3.50E-21	0.0200	0.0009	28109	1.41E-97	0.0206	0.0012	28125	6.32E-60	0.0239	0.0016	28124	4.17E-49
EFNA4	-0.0079	0.0035	49505	1.70E-01	0.1211	0.0134	28036	6.04E-19	0.0133	0.0033	28478	7.95E-05	0.0135	0.0043	28494	2.89E-03	0.0382	0.0055	28493	1.70E-11
IL20RB	0.0107	0.0048	42274	1.70E-01	-0.0152	0.0119	23352	2.61E-01	-0.0003	0.0029	23710	9.40E-01	-0.0008	0.0039	23723	8.73E-01	-0.0023	0.0050	23722	6.99E-01
CDH15	-0.0150	0.0067	50333	1.70E-01	-0.0079	0.0071	28491	3.35E-01	0.0318	0.0017	28942	1.67E-73	0.0264	0.0023	28959	6.66E-30	0.0333	0.0029	28958	1.10E-28
CANT1	-0.0052	0.0024	49833	1.71E-01	0.2283	0.0204	28236	5.52E-28	0.0229	0.0050	28680	8.26E-06	0.0069	0.0066	28695	3.53E-01	-0.0029	0.0085	28694	7.83E-01
NOTCH3	0.0088	0.0040	50594	1.72E-01	-0.0618	0.0120	28667	5.63E-07	-0.0597	0.0029	29116	5.15E-92	-0.0740	0.0038	29132	1.37E-81	-0.0799	0.0049	29131	1.04E-57
CNDP1	-0.0118	0.0053	50176	1.72E-01	-0.0045	0.0091	28453	6.90E-01	0.0481	0.0022	28897	3.68E-104	0.0444	0.0029	28913	1.49E-51	0.0331	0.0037	28912	4.39E-18
INPPL1	0.0252	0.0114	49744	1.72E-01	0.0250	0.0042	28212	9.02E-09	0.0167	0.0010	28661	7.90E-58	0.0178	0.0014	28678	2.12E-38	0.0204	0.0017	28677	1.18E-30
ANGPTL7	-0.0093	0.0042	50397	1.73E-01	-0.2132	0.0113	28576	9.56E-77	0.0385	0.0028	29025	3.62E-43	0.0376	0.0036	29042	1.91E-24	0.0519	0.0047	29041	7.90E-28
TRIM5	0.0220	0.0100	49907	1.73E-01	0.0283	0.0048	28300	1.16E-08	0.0188	0.0012	28746	3.21E-56	0.0205	0.0016	28762	6.36E-39	0.0246	0.0020	28761	9.91E-34
MYH9	0.0286	0.0130	43537	1.74E-01	0.0282	0.0043	24024	1.89E-10	0.0207	0.0011	24398	1.03E-84	0.0237	0.0014	24413	1.11E-63	0.0291	0.0018	24412	1.87E-58
LPP	0.0168	0.0076	42109	1.75E-01	0.0488	0.0076	23248	3.62E-10	0.0220	0.0019	23603	1.28E-31	0.0255	0.0024	23617	1.51E-24	0.0250	0.0031	23616	7.16E-15
DEFB103A_DEFB103B	0.0104	0.0047	41952	1.76E-01	-0.0200	0.0124	23238	1.48E-01	0.0280	0.0030	23595	1.30E-19	0.0266	0.0040	23607	9.33E-11	0.0317	0.0052	23606	2.00E-09
CFH	-0.0067	0.0031	41084	1.80E-01	0.2086	0.0192	22829	1.81E-26	0.1347	0.0047	23191	1.48E-176	0.1245	0.0062	23206	2.07E-86	0.1559	0.0080	23205	7.01E-82
YTHDF3	0.0214	0.0098	49043	1.80E-01	0.0545	0.0050	27807	7.52E-27	0.0231	0.0012	28251	6.25E-79	0.0234	0.0016	28266	4.77E-47	0.0256	0.0021	28265	3.13E-34
RARRES2	-0.0130	0.0059	50261	1.80E-01	0.0972	0.0081	28487	8.04E-32	0.0664	0.0020	28931	1.23E-244	0.0668	0.0026	28947	6.23E-142	0.0880	0.0033	28946	3.57E-149
RNASE4	-0.0071	0.0032	42151	1.81E-01	0.3329	0.0175	23324	2.33E-78	0.0568	0.0043	23680	1.13E-38	0.0448	0.0057	23695	1.37E-14	0.0838	0.0073	23694	2.10E-29
IMPACT	0.0142	0.0065	43426	1.81E-01	0.0497	0.0087	23934	2.70E-08	0.0058	0.0021	24305	8.87E-03	0.0030	0.0028	24320	3.49E-01	0.0044	0.0036	24319	2.70E-01
GFRA2	0.0053	0.0024	49744	1.81E-01	0.0264	0.0201	28212	2.46E-01	-0.0143	0.0049	28661	5.14E-03	-0.0278	0.0065	28678	2.99E-05	-0.0127	0.0083	28677	1.67E-01

NPTXR	-0.0088	0.0040	49984	1.81E-01	-0.0008	0.0121	28340	9.60E-01	-0.0640	0.0029	28785	1.05E-103	-0.0922	0.0038	28801	4.46E-124	-0.1056	0.0050	28800	1.45E-98
PGF	-0.0066	0.0030	50529	1.81E-01	-0.0712	0.0153	28636	7.65E-06	0.0291	0.0038	29090	2.81E-14	0.0061	0.0050	29107	2.67E-01	-0.0011	0.0064	29106	8.84E-01
VCAM1	-0.0068	0.0031	50096	1.81E-01	0.0631	0.0153	28410	7.25E-05	-0.0302	0.0037	28851	1.45E-15	-0.0405	0.0049	28867	6.27E-16	-0.0340	0.0063	28866	1.71E-07
PROC	-0.0065	0.0030	50096	1.82E-01	0.1690	0.0161	28410	7.50E-25	0.0809	0.0039	28851	1.09E-92	0.0621	0.0052	28867	3.25E-32	0.0561	0.0067	28866	1.51E-16
MINK1	0.0231	0.0106	43426	1.82E-01	0.0534	0.0053	23934	2.77E-23	0.0184	0.0013	24305	3.37E-45	0.0189	0.0017	24320	9.27E-28	0.0206	0.0022	24319	2.77E-20
UMOD	0.0137	0.0063	50434	1.82E-01	-0.0117	0.0075	28599	1.65E-01	-0.0288	0.0018	29047	3.62E-54	-0.0346	0.0024	29063	2.84E-45	-0.0458	0.0031	29062	7.65E-48
CDC42BPB	0.0260	0.0120	43346	1.82E-01	0.0284	0.0047	23893	3.39E-09	0.0160	0.0011	24266	3.14E-43	0.0174	0.0015	24281	9.48E-30	0.0211	0.0019	24280	1.25E-26
CRISP2	0.0146	0.0067	50397	1.82E-01	-0.0007	0.0071	28576	9.43E-01	-0.0147	0.0018	29025	1.12E-16	-0.0187	0.0023	29042	1.22E-15	-0.0237	0.0030	29041	3.68E-15
CD300E	-0.0105	0.0049	50236	1.82E-01	0.1228	0.0098	28497	5.88E-35	0.0131	0.0024	28945	8.28E-08	0.0110	0.0032	28962	8.82E-04	0.0271	0.0041	28961	7.03E-11
BACH1	0.0186	0.0086	49907	1.82E-01	0.0291	0.0056	28300	4.07E-07	0.0162	0.0014	28746	6.78E-32	0.0171	0.0018	28762	7.98E-21	0.0206	0.0023	28761	1.77E-18
GPD1	-0.0142	0.0066	43331	1.82E-01	0.0430	0.0086	23884	1.38E-06	0.0638	0.0021	24254	2.96E-202	0.0659	0.0027	24269	6.51E-124	0.0788	0.0035	24268	3.24E-107
WFIKK2	0.0090	0.0042	50024	1.82E-01	0.0369	0.0116	28363	2.69E-03	-0.0680	0.0028	28808	4.66E-125	-0.0755	0.0037	28824	2.66E-89	-0.0851	0.0048	28823	1.11E-68
SLC39A14	0.0083	0.0038	48799	1.82E-01	0.0400	0.0128	27661	3.10E-03	-0.0332	0.0031	28098	1.12E-25	-0.0259	0.0041	28115	8.65E-10	-0.0319	0.0053	28114	4.64E-09
TP53INP1	0.0079	0.0036	49059	1.82E-01	0.0155	0.0137	27799	3.24E-01	-0.0092	0.0033	28234	8.28E-03	-0.0126	0.0044	28248	6.64E-03	-0.0232	0.0056	28247	7.52E-05
HIF1A	-0.0162	0.0075	42274	1.82E-01	-0.0021	0.0077	23352	8.29E-01	0.0006	0.0019	23710	7.94E-01	-0.0013	0.0025	23723	6.48E-01	0.0022	0.0032	23722	5.65E-01
GFRA3	0.0071	0.0033	49436	1.84E-01	-0.1355	0.0149	28023	4.99E-19	-0.0177	0.0037	28467	2.55E-06	-0.0227	0.0048	28483	4.85E-06	-0.0070	0.0062	28482	3.17E-01
ITGAV	0.0042	0.0019	50397	1.84E-01	-0.2428	0.0247	28576	4.30E-22	-0.0646	0.0060	29025	4.33E-26	-0.0493	0.0080	29042	1.30E-09	-0.0997	0.0102	29041	9.48E-22
PALM2	-0.0101	0.0047	43426	1.85E-01	0.1012	0.0120	23934	1.59E-16	0.0535	0.0029	24305	2.84E-73	0.0453	0.0039	24320	6.23E-31	0.0673	0.0050	24319	7.77E-41
GAS2	-0.0129	0.0060	42740	1.87E-01	0.0185	0.0094	23551	7.26E-02	0.0236	0.0023	23912	4.48E-24	0.0263	0.0030	23927	2.02E-17	0.0285	0.0039	23926	1.04E-12
MBL2	-0.0267	0.0124	42985	1.87E-01	0.0086	0.0046	23711	8.56E-02	-0.0114	0.0011	24082	8.09E-24	-0.0127	0.0015	24097	3.02E-17	-0.0137	0.0019	24096	2.14E-12
CA5A	-0.0233	0.0108	49059	1.88E-01	0.0177	0.0045	27799	1.74E-04	0.0262	0.0011	28234	1.26E-123	0.0267	0.0014	28248	8.68E-75	0.0339	0.0019	28247	6.23E-73
ALDH2	-0.0126	0.0059	43331	1.88E-01	-0.0001	0.0096	23884	9.92E-01	0.0146	0.0023	24254	8.58E-10	0.0150	0.0031	24269	2.19E-06	0.0234	0.0040	24268	7.54E-09
IL20	0.0123	0.0057	49043	1.89E-01	-0.0109	0.0087	27807	2.71E-01	-0.0008	0.0021	28251	7.53E-01	-0.0013	0.0028	28266	6.99E-01	-0.0019	0.0036	28265	6.54E-01
KIF20B	-0.0187	0.0087	42120	1.90E-01	0.0027	0.0067	23217	7.53E-01	0.0006	0.0016	23575	7.75E-01	0.0023	0.0022	23590	3.47E-01	0.0028	0.0028	23589	3.69E-01
CHP1	0.0180	0.0084	42120	1.91E-01	0.0020	0.0069	23217	8.24E-01	0.0011	0.0017	23575	5.71E-01	0.0032	0.0022	23590	2.03E-01	0.0014	0.0029	23589	6.92E-01
GFRAL	0.0155	0.0072	42144	1.92E-01	-0.0371	0.0080	23152	7.31E-06	0.0092	0.0020	23503	4.33E-06	0.0051	0.0026	23518	6.63E-02	0.0056	0.0033	23517	1.20E-01
PIK3IP1	-0.0067	0.0032	49982	1.95E-01	0.0281	0.0149	28299	8.66E-02	-0.0119	0.0037	28747	1.77E-03	-0.0103	0.0048	28764	4.56E-02	-0.0048	0.0062	28763	5.05E-01
ITIH3	0.0094	0.0044	50176	1.96E-01	0.2509	0.0108	28453	1.56E-115	-0.0695	0.0026	28897	9.27E-149	-0.0791	0.0035	28913	3.98E-111	-0.0721	0.0045	28912	3.72E-56
MAEA	0.0096	0.0045	48785	1.97E-01	-0.0222	0.0107	27677	5.79E-02	-0.0021	0.0026	28109	4.76E-01	-0.0026	0.0035	28125	5.12E-01	0.0055	0.0045	28124	2.73E-01
SPESP1	0.0073	0.0034	43535	1.98E-01	-0.0108	0.0162	24011	5.81E-01	0.0008	0.0040	24384	8.71E-01	-0.0026	0.0052	24399	6.77E-01	-0.0023	0.0067	24398	7.79E-01
ACP6	-0.0163	0.0077	50324	2.00E-01	0.0329	0.0062	28528	3.43E-07	0.0010	0.0015	28976	5.61E-01	-0.0002	0.0020	28993	9.39E-01	-0.0023	0.0026	28992	4.35E-01
S100A4	0.0139	0.0066	50125	2.00E-01	0.0677	0.0072	28423	4.88E-20	0.0177	0.0018	28868	5.96E-23	0.0174	0.0023	28885	2.96E-13	0.0179	0.0030	28884	5.95E-09
AAMDC	0.0129	0.0061	42387	2.01E-01	0.0589	0.0094	23360	8.61E-10	0.0229	0.0023	23719	9.79E-23	0.0263	0.0030	23733	1.63E-17	0.0251	0.0039	23732	3.12E-10
F3	0.0066	0.0031	50089	2.01E-01	-0.0020	0.0153	28398	9.19E-01	-0.0546	0.0037	28845	2.36E-47	-0.0657	0.0049	28862	1.24E-39	-0.0754	0.0063	28861	9.32E-32
CD274	-0.0083	0.0039	49589	2.03E-01	0.0992	0.0123	28083	2.57E-15	0.0059	0.0030	28527	6.56E-02	0.0006	0.0040	28543	9.11E-01	0.0046	0.0051	28542	4.35E-01
CCDC134	0.0118	0.0056	43331	2.03E-01	0.0731	0.0102	23884	2.02E-12	0.0195	0.0025	24254	1.10E-14	0.0203	0.0033	24269	1.32E-09	0.0200	0.0042	24268	4.25E-06
SEPTIN9	0.0070	0.0033	49744	2.03E-01	0.0644	0.0148	28212	3.00E-05	0.0330	0.0036	28661	2.41E-19	0.0348	0.0048	28678	8.54E-13	0.0488	0.0061	28677	6.50E-15
BRD1	0.0074	0.0035	42740	2.03E-01	-0.0285	0.0163	23551	1.13E-01	-0.0050	0.0040	23912	2.57E-01	0.0011	0.0053	23927	8.70E-01	-0.0027	0.0068	23926	7.35E-01
GM2A	-0.0094	0.0045	42477	2.06E-01	0.0395	0.0127	23527	3.44E-03	0.0001	0.0031	23894	9.71E-01	-0.0057	0.0041	23909	2.10E-01	0.0079	0.0053	23908	1.76E-01
LEO1	-0.0073	0.0035	43455	2.10E-01	0.0463	0.0165	23960	8.36E-03	0.0061	0.0040	24328	1.61E-01	0.0062	0.0053	24343	2.99E-01	0.0093	0.0068	24342	2.21E-01
FABP1	-0.0237	0.0113	49941	2.10E-01	0.1342	0.0042	28321	2.84E-221	-0.0018	0.0010	28766	1.00E-01	-0.0026	0.0014	28782	7.83E-02	-0.0056	0.0018	28781	2.49E-03
NFX1	0.0164	0.0079	42109	2.10E-01	0.0206	0.0073	23248	8.12E-03	0.0242	0.0018	23603	4.55E-41	0.0266	0.0024	23617	8.58E-29	0.0338	0.0030	23616	4.28E-28
INSR	-0.0040	0.0019	42274	2.10E-01	0.0802	0.0299	23352	1.20E-02	-0.0006	0.0073	23710	9.47E-01	-0.0255	0.0097	23723	1.29E-02	-0.0253	0.0124	23722	5.93E-02

APOB	0.0054	0.0026	43572	2.10E-01	0.0497	0.0218	24036	3.56E-02	0.0194	0.0054	24408	4.84E-04	0.0224	0.0071	24423	2.54E-03	0.0210	0.0091	24422	3.05E-02
MELTF	0.0070	0.0034	43535	2.10E-01	-0.0176	0.0167	24011	3.62E-01	-0.0036	0.0041	24384	4.32E-01	-0.0067	0.0054	24399	2.61E-01	-0.0051	0.0069	24398	5.29E-01
PTPRM	-0.0059	0.0028	49825	2.11E-01	-0.0422	0.0171	28267	2.23E-02	0.0538	0.0042	28711	4.62E-37	0.0437	0.0055	28727	6.61E-15	0.0499	0.0071	28726	5.42E-12
CXCL5	0.0278	0.0134	49822	2.12E-01	0.0213	0.0037	28253	1.48E-08	0.0144	0.0009	28694	2.26E-57	0.0149	0.0012	28710	3.76E-36	0.0147	0.0015	28709	1.34E-21
KLRF1	-0.0106	0.0051	42274	2.12E-01	-0.0220	0.0114	23352	7.89E-02	0.0248	0.0028	23710	2.70E-18	0.0263	0.0037	23723	3.25E-12	0.0313	0.0048	23722	1.41E-10
CD14	-0.0099	0.0048	48985	2.14E-01	0.2259	0.0101	27849	5.67E-107	-0.0133	0.0025	28279	2.15E-07	-0.0211	0.0033	28293	3.87E-10	-0.0068	0.0042	28292	1.42E-01
SUSD2	-0.0071	0.0034	49982	2.14E-01	0.0769	0.0141	28299	1.32E-07	-0.0602	0.0034	28747	6.62E-67	-0.0730	0.0045	28764	5.95E-57	-0.0889	0.0058	28763	3.38E-51
SPINK1	-0.0101	0.0049	49982	2.14E-01	0.0354	0.0098	28299	5.34E-04	-0.0010	0.0024	28747	7.12E-01	0.0009	0.0031	28764	8.16E-01	0.0234	0.0040	28763	1.62E-08
GMPR	0.0120	0.0058	50529	2.14E-01	0.0075	0.0083	28636	4.38E-01	0.0064	0.0020	29090	2.34E-03	0.0058	0.0027	29107	4.15E-02	0.0088	0.0034	29106	1.62E-02
SORCS2	-0.0085	0.0041	48785	2.14E-01	-0.0105	0.0119	27677	4.51E-01	-0.0115	0.0029	28109	1.33E-04	-0.0157	0.0039	28125	8.56E-05	-0.0031	0.0050	28124	5.97E-01
REST	0.0084	0.0040	41982	2.14E-01	0.0026	0.0145	23146	8.93E-01	-0.0055	0.0036	23506	1.55E-01	-0.0081	0.0047	23521	1.17E-01	-0.0135	0.0060	23520	3.78E-02
DNAJA2	0.0197	0.0095	50371	2.15E-01	0.0447	0.0050	28558	2.41E-18	0.0228	0.0012	29011	1.13E-75	0.0231	0.0016	29027	6.29E-45	0.0278	0.0021	29026	1.50E-39
ARNTL	0.0123	0.0060	42109	2.15E-01	-0.0084	0.0097	23248	4.63E-01	0.0024	0.0024	23603	3.62E-01	0.0046	0.0031	23617	1.84E-01	0.0021	0.0040	23616	6.63E-01
MZB1	-0.0126	0.0061	50107	2.17E-01	0.0740	0.0079	28406	3.23E-20	0.0087	0.0019	28852	1.26E-05	0.0062	0.0025	28868	2.17E-02	0.0161	0.0033	28867	1.71E-06
PSRC1	0.0142	0.0069	48785	2.20E-01	0.0198	0.0072	27677	1.01E-02	0.0386	0.0017	28109	1.26E-105	0.0404	0.0023	28125	7.39E-67	0.0517	0.0030	28124	2.92E-66
YAP1	-0.0067	0.0033	43426	2.20E-01	0.2454	0.0172	23934	5.93E-45	0.0136	0.0042	24305	1.85E-03	0.0050	0.0056	24320	4.35E-01	0.0341	0.0071	24319	3.55E-06
GOPC	0.0241	0.0117	49907	2.20E-01	0.0436	0.0041	28300	2.42E-25	0.0150	0.0010	28746	2.12E-49	0.0157	0.0013	28762	1.79E-31	0.0161	0.0017	28761	2.35E-20
TCOF1	-0.0075	0.0036	43535	2.20E-01	0.0426	0.0156	24011	1.05E-02	0.0367	0.0038	24384	1.84E-21	0.0273	0.0050	24399	1.25E-07	0.0489	0.0065	24398	1.29E-13
TPPP3	0.0094	0.0046	48799	2.20E-01	0.0091	0.0109	27661	4.77E-01	0.0083	0.0027	28098	3.14E-03	0.0083	0.0035	28115	2.76E-02	0.0051	0.0045	28114	3.23E-01
TPPP2	0.0186	0.0091	42740	2.20E-01	-0.0065	0.0063	23551	3.70E-01	-0.0009	0.0015	23912	6.03E-01	-0.0014	0.0020	23927	5.58E-01	-0.0015	0.0026	23926	6.29E-01
DNAJB2	0.0130	0.0063	42580	2.20E-01	0.0389	0.0091	23496	4.21E-05	0.0005	0.0022	23858	8.47E-01	-0.0020	0.0030	23871	5.65E-01	0.0038	0.0038	23870	3.77E-01
BCL2L15	-0.0138	0.0067	42274	2.21E-01	0.0616	0.0088	23352	8.93E-12	0.0031	0.0022	23710	1.84E-01	0.0005	0.0029	23723	8.84E-01	0.0133	0.0037	23722	5.28E-04
CXCL12	0.0095	0.0046	49043	2.21E-01	0.1437	0.0106	27807	7.44E-41	-0.0303	0.0026	28251	6.81E-31	-0.0405	0.0034	28266	8.61E-32	-0.0462	0.0044	28265	3.31E-25
EDF1	0.0162	0.0079	43455	2.21E-01	0.0448	0.0072	23960	1.63E-09	0.0136	0.0018	24328	4.00E-14	0.0163	0.0023	24343	7.75E-12	0.0174	0.0030	24342	1.65E-08
VSIG10L	0.0078	0.0038	42109	2.21E-01	0.0294	0.0152	23248	7.79E-02	-0.0130	0.0037	23603	7.84E-04	-0.0087	0.0049	23617	1.05E-01	-0.0112	0.0063	23616	1.03E-01
HIP1R	-0.0104	0.0051	43344	2.23E-01	0.0459	0.0113	23878	9.71E-05	0.0236	0.0028	24249	4.00E-17	0.0144	0.0036	24264	1.45E-04	0.0384	0.0047	24263	8.44E-16
HLA_A	-0.0076	0.0037	43455	2.23E-01	0.0214	0.0151	23960	2.08E-01	0.0008	0.0037	24328	8.56E-01	0.0019	0.0049	24343	7.50E-01	0.0059	0.0063	24342	4.09E-01
YES1	0.0270	0.0132	49744	2.23E-01	0.0364	0.0037	28212	1.46E-22	0.0190	0.0009	28661	6.08E-99	0.0199	0.0012	28678	5.07E-63	0.0230	0.0015	28677	5.80E-51
NGRN	0.0052	0.0025	43426	2.23E-01	0.1424	0.0221	23934	3.62E-10	0.0554	0.0054	24305	6.25E-24	0.0614	0.0072	24320	3.23E-17	0.0890	0.0092	24319	1.81E-21
SDHB	-0.0156	0.0077	43346	2.25E-01	0.0449	0.0072	23893	1.37E-09	0.0149	0.0018	24266	6.75E-17	0.0131	0.0023	24281	3.74E-08	0.0128	0.0030	24280	3.28E-05
VPS53	0.0183	0.0090	49744	2.25E-01	0.0453	0.0054	28212	2.19E-16	0.0226	0.0013	28661	2.54E-64	0.0236	0.0017	28678	4.90E-41	0.0278	0.0022	28677	1.38E-34
CDC27	0.0144	0.0071	48785	2.25E-01	0.0278	0.0069	27677	1.16E-04	0.0222	0.0017	28109	2.11E-38	0.0245	0.0022	28125	4.22E-27	0.0321	0.0029	28124	4.44E-28
CX3CL1	0.0078	0.0039	49589	2.25E-01	0.0470	0.0126	28083	3.55E-04	-0.0691	0.0031	28527	9.33E-111	-0.0812	0.0040	28543	2.88E-88	-0.0803	0.0052	28542	1.53E-52
SYTL4	0.0170	0.0084	43535	2.26E-01	0.0529	0.0067	24011	9.84E-15	0.0219	0.0016	24384	3.47E-40	0.0250	0.0022	24399	3.26E-30	0.0299	0.0028	24398	3.32E-26
AMOTL2	0.0113	0.0056	43172	2.27E-01	0.0325	0.0102	23805	2.46E-03	0.0192	0.0025	24174	3.58E-14	0.0229	0.0033	24189	8.68E-12	0.0289	0.0042	24188	2.11E-11
NFKBIE	0.0116	0.0057	48785	2.28E-01	0.0582	0.0085	27677	2.43E-11	0.0318	0.0021	28109	1.82E-51	0.0334	0.0028	28125	4.85E-33	0.0433	0.0035	28124	1.92E-33
C1QTNF6	-0.0074	0.0036	43455	2.28E-01	-0.0034	0.0154	23960	8.65E-01	0.0164	0.0038	24328	2.30E-05	0.0138	0.0050	24343	8.35E-03	0.0186	0.0064	24342	5.62E-03
FAM3C	-0.0069	0.0034	49910	2.29E-01	0.1002	0.0139	28300	2.01E-12	-0.0025	0.0034	28742	5.18E-01	-0.0228	0.0045	28758	7.84E-07	-0.0072	0.0058	28757	2.67E-01
CA3	0.0144	0.0071	50512	2.29E-01	-0.0053	0.0069	28612	5.19E-01	-0.0216	0.0017	29059	3.80E-37	-0.0219	0.0022	29075	1.24E-22	-0.0196	0.0028	29074	1.57E-11
PTPRH	0.0113	0.0056	43346	2.29E-01	-0.0121	0.0100	23893	2.88E-01	0.0161	0.0025	24266	1.16E-10	0.0111	0.0032	24281	9.98E-04	0.0142	0.0042	24280	1.04E-03
SOD1	0.0115	0.0057	48981	2.31E-01	0.0679	0.0087	27720	2.41E-14	-0.0029	0.0021	28152	2.18E-01	-0.0057	0.0028	28168	6.07E-02	-0.0038	0.0036	28167	3.49E-01
DARS1	0.0170	0.0084	49507	2.31E-01	0.0432	0.0058	28030	1.96E-13	0.0103	0.0014	28473	5.97E-13	0.0114	0.0019	28489	1.73E-09	0.0109	0.0024	28488	8.95E-06
TGFBI	-0.0063	0.0031	49688	2.31E-01	0.0932	0.0156	28235	5.61E-09	0.0537	0.0038	28671	1.87E-44	0.0397	0.0050	28686	7.00E-15	0.0437	0.0064	28685	3.16E-11

EFEMP1	-0.0074	0.0037	50094	2.31E-01	0.0649	0.0131	28422	1.55E-06	-0.0388	0.0032	28865	2.79E-33	-0.0600	0.0042	28881	3.53E-45	-0.0438	0.0054	28880	1.91E-15
SEPTIN3	0.0173	0.0086	43455	2.31E-01	0.0185	0.0065	23960	7.62E-03	-0.0006	0.0016	24328	7.69E-01	-0.0064	0.0021	24343	3.62E-03	-0.0040	0.0027	24342	1.86E-01
KIR2DL2	-0.0200	0.0099	43331	2.31E-01	0.0055	0.0057	23884	4.04E-01	-0.0065	0.0014	24254	5.36E-06	-0.0058	0.0018	24269	2.54E-03	-0.0070	0.0024	24268	5.06E-03
CSF2RA	-0.0142	0.0071	49589	2.31E-01	0.0020	0.0069	28083	8.24E-01	0.0046	0.0017	28527	8.93E-03	0.0034	0.0022	28543	1.63E-01	0.0055	0.0029	28542	7.73E-02
SYAP1	0.0132	0.0066	42580	2.32E-01	0.1063	0.0086	23496	6.32E-34	0.0298	0.0021	23858	2.22E-44	0.0281	0.0028	23871	3.02E-23	0.0308	0.0036	23870	3.08E-17
IL18	-0.0109	0.0054	49773	2.32E-01	0.1023	0.0090	28207	4.23E-29	0.0236	0.0022	28647	2.57E-26	0.0258	0.0029	28663	2.02E-18	0.0355	0.0037	28662	6.76E-21
MTSS2	0.0229	0.0114	43331	2.32E-01	0.0322	0.0049	23884	1.82E-10	0.0178	0.0012	24254	2.44E-48	0.0187	0.0016	24269	4.91E-31	0.0206	0.0020	24268	4.52E-23
UROD	0.0160	0.0080	42580	2.32E-01	0.0416	0.0071	23496	1.46E-08	0.0075	0.0018	23858	3.35E-05	0.0076	0.0023	23871	1.59E-03	0.0083	0.0030	23870	8.21E-03
NFKB1	0.0171	0.0085	42109	2.32E-01	0.0372	0.0067	23248	7.15E-08	0.0220	0.0016	23603	5.83E-40	0.0224	0.0022	23617	2.38E-24	0.0274	0.0028	23616	5.00E-22
DNAJB1	0.0204	0.0102	49744	2.32E-01	0.0260	0.0048	28212	1.24E-07	0.0200	0.0012	28661	6.21E-65	0.0197	0.0015	28678	1.18E-36	0.0260	0.0020	28677	1.03E-38
PITHD1	0.0183	0.0091	41908	2.32E-01	-0.0144	0.0064	23101	3.88E-02	-0.0018	0.0016	23461	3.10E-01	-0.0024	0.0021	23476	3.09E-01	-0.0039	0.0027	23475	1.93E-01
PHLDB2	0.0212	0.0106	41982	2.33E-01	0.0017	0.0055	23146	8.11E-01	0.0003	0.0013	23506	8.77E-01	-0.0001	0.0018	23521	9.72E-01	-0.0011	0.0023	23520	6.74E-01
BAG6	0.0085	0.0043	49059	2.34E-01	0.0486	0.0115	27799	5.00E-05	0.0318	0.0028	28234	6.80E-29	0.0280	0.0037	28248	1.21E-13	0.0422	0.0048	28247	3.21E-18
PILRB	-0.0133	0.0066	49984	2.34E-01	0.0500	0.0072	28340	1.38E-11	0.0018	0.0018	28785	3.74E-01	-0.0008	0.0023	28801	7.72E-01	0.0056	0.0030	28800	8.44E-02
APOH	-0.0082	0.0041	49982	2.42E-01	0.0781	0.0117	28299	6.64E-11	-0.0033	0.0029	28747	2.94E-01	-0.0039	0.0038	28764	3.52E-01	-0.0145	0.0048	28763	4.46E-03
NAGA	-0.0133	0.0067	42192	2.43E-01	-0.0013	0.0086	23302	9.05E-01	0.0067	0.0021	23659	2.44E-03	0.0071	0.0028	23672	1.71E-02	0.0037	0.0036	23671	3.69E-01
PACS2	0.0142	0.0072	42109	2.46E-01	0.0498	0.0080	23248	1.41E-09	0.0197	0.0020	23603	3.30E-23	0.0211	0.0026	23617	1.22E-15	0.0232	0.0033	23616	8.93E-12
HRG	-0.0072	0.0036	43366	2.50E-01	0.1100	0.0157	23928	6.80E-02	0.0366	0.0038	24299	5.02E-21	0.0225	0.0051	24314	1.66E-05	0.0291	0.0065	24313	1.53E-05
STC2	0.0060	0.0030	49913	2.50E-01	0.0293	0.0159	28253	9.44E-02	-0.0117	0.0039	28701	4.11E-03	-0.0164	0.0051	28718	2.25E-03	-0.0234	0.0066	28717	6.69E-04
GMPR2	0.0152	0.0077	42580	2.50E-01	0.0595	0.0074	23496	2.36E-15	0.0120	0.0018	23858	6.55E-11	0.0123	0.0024	23871	4.60E-07	0.0137	0.0031	23870	1.57E-05
CRELD2	0.0119	0.0060	50106	2.53E-01	0.0824	0.0079	28399	2.52E-24	0.0221	0.0020	28844	4.79E-29	0.0249	0.0026	28860	1.37E-21	0.0271	0.0033	28859	8.20E-16
MDH1	0.0092	0.0047	43330	2.54E-01	0.0791	0.0120	23942	1.50E-10	0.0117	0.0030	24313	1.25E-04	0.0122	0.0039	24328	2.85E-03	0.0170	0.0050	24327	1.20E-03
ARHGEF1	0.0202	0.0103	43426	2.54E-01	0.0527	0.0054	23934	1.03E-21	0.0194	0.0013	24305	6.25E-48	0.0194	0.0017	24320	7.10E-28	0.0220	0.0022	24319	4.91E-22
FKBPL	0.0132	0.0068	43346	2.54E-01	0.0597	0.0083	23893	1.75E-12	0.0174	0.0020	24266	2.87E-17	0.0184	0.0027	24281	1.81E-11	0.0210	0.0034	24280	2.40E-09
BCR	0.0208	0.0106	49907	2.54E-01	0.0312	0.0045	28300	1.68E-11	0.0179	0.0011	28746	8.06E-58	0.0183	0.0015	28762	2.66E-35	0.0202	0.0019	28761	1.97E-26
KAZN	0.0236	0.0121	43346	2.54E-01	0.0293	0.0046	23893	6.44E-10	0.0166	0.0011	24266	8.39E-48	0.0176	0.0015	24281	2.93E-31	0.0198	0.0019	24280	3.55E-24
IL17F	-0.0173	0.0088	49043	2.54E-01	0.0000	0.0056	27807	9.95E-01	0.0019	0.0014	28251	1.97E-01	0.0037	0.0018	28266	5.62E-02	0.0050	0.0023	28265	4.41E-02
FKBP7	0.0107	0.0055	48717	2.55E-01	0.0560	0.0089	27608	1.02E-09	0.0157	0.0022	28044	1.87E-12	0.0180	0.0029	28061	1.07E-09	0.0201	0.0037	28060	1.45E-07
UXS1	-0.0118	0.0061	48785	2.55E-01	-0.0049	0.0081	27677	6.23E-01	0.0097	0.0020	28109	2.30E-06	0.0151	0.0026	28125	2.18E-08	0.0252	0.0034	28124	3.39E-13
FCRL6	-0.0153	0.0078	49907	2.57E-01	-0.0336	0.0062	28300	1.24E-07	0.0050	0.0015	28746	1.55E-03	0.0076	0.0020	28762	2.51E-04	0.0104	0.0026	28761	8.19E-05
RAB3GAP1	0.0128	0.0066	42120	2.57E-01	0.0075	0.0088	23217	4.68E-01	0.0073	0.0022	23575	1.08E-03	0.0092	0.0029	23590	2.02E-03	0.0079	0.0037	23589	4.54E-02
SERPINI1	-0.0067	0.0035	42501	2.58E-01	0.0635	0.0165	23445	2.24E-04	-0.0032	0.0040	23807	4.85E-01	-0.0171	0.0053	23819	2.19E-03	-0.0088	0.0068	23818	2.50E-01
PBK	0.0068	0.0035	41982	2.60E-01	-0.0287	0.0168	23146	1.23E-01	-0.0309	0.0041	23506	1.26E-13	-0.0295	0.0054	23521	1.13E-07	-0.0347	0.0070	23520	1.25E-06
IL3	0.0134	0.0069	41982	2.60E-01	0.0166	0.0084	23146	7.17E-02	-0.0033	0.0021	23506	1.46E-01	-0.0029	0.0027	23521	3.52E-01	-0.0050	0.0035	23520	1.95E-01
ITPRIP	-0.0102	0.0053	42120	2.60E-01	-0.0114	0.0112	23217	3.76E-01	-0.0088	0.0027	23575	2.09E-03	-0.0111	0.0036	23590	3.45E-03	-0.0161	0.0046	23589	8.71E-04
ENOX2	0.0062	0.0032	42109	2.60E-01	0.0041	0.0181	23248	8.61E-01	0.0305	0.0044	23603	1.21E-11	0.0315	0.0058	23617	1.44E-07	0.0454	0.0075	23616	3.49E-09
PDIA2	0.0089	0.0046	41982	2.60E-01	-0.0097	0.0126	23146	5.14E-01	-0.0039	0.0031	23506	2.43E-01	-0.0053	0.0041	23521	2.40E-01	-0.0034	0.0052	23520	5.83E-01
EPHA2	-0.0069	0.0036	48183	2.63E-01	-0.0181	0.0139	27244	2.47E-01	-0.0191	0.0034	27680	2.97E-08	-0.0219	0.0045	27696	1.73E-06	-0.0034	0.0057	27695	6.19E-01
CPLX2	0.0069	0.0036	41982	2.63E-01	0.0403	0.0168	23146	2.58E-02	-0.0223	0.0041	23506	8.73E-08	-0.0250	0.0054	23521	6.35E-06	-0.0292	0.0069	23520	4.56E-05
RABGAP1L	0.0136	0.0071	49043	2.65E-01	0.0470	0.0070	27807	6.97E-11	0.0070	0.0017	28251	7.78E-05	0.0048	0.0023	28266	4.94E-02	0.0055	0.0029	28265	7.92E-02
NPPB	0.0295	0.0153	49059	2.65E-01	-0.0154	0.0032	27799	3.66E-06	-0.0069	0.0008	28234	3.61E-18	-0.0081	0.0010	28248	1.32E-14	-0.0082	0.0013	28247	1.61E-09
DENR	0.0125	0.0065	42274	2.68E-01	0.0318	0.0087	23352	4.92E-04	0.0082	0.0022	23710	2.33E-04	0.0101	0.0028	23723	6.29E-04	0.0070	0.0036	23722	7.54E-02
AGBL2	0.0199	0.0104	42120	2.68E-01	-0.0041	0.0056	23217	5.37E-01	0.0037	0.0014	23575	1.08E-02	0.0036	0.0018	23590	6.36E-02	0.0034	0.0023	23589	1.87E-01

ACVRL1	-0.0057	0.0030	49505	2.69E-01	0.1908	0.0161	28036	2.87E-31	-0.0089	0.0040	28478	3.31E-02	-0.0098	0.0052	28494	8.10E-02	0.0036	0.0067	28493	6.49E-01
DDAH1	-0.0100	0.0052	49744	2.71E-01	0.1516	0.0094	28212	7.91E-57	0.0332	0.0023	28661	2.98E-46	0.0353	0.0030	28678	1.19E-30	0.0414	0.0039	28677	1.22E-25
DYNLT3	0.0097	0.0050	43331	2.72E-01	0.0573	0.0112	23884	7.80E-07	0.0275	0.0028	24254	5.47E-23	0.0343	0.0036	24269	1.44E-20	0.0407	0.0047	24268	1.02E-17
BIRC2	0.0140	0.0073	48785	2.74E-01	0.0397	0.0067	27677	9.16E-09	0.0253	0.0016	28109	3.54E-52	0.0266	0.0022	28125	1.62E-33	0.0296	0.0028	28124	2.17E-25
GNAS	0.0191	0.0100	43455	2.75E-01	0.0102	0.0056	23960	9.51E-02	0.0120	0.0014	24328	3.34E-18	0.0132	0.0018	24343	4.74E-13	0.0155	0.0023	24342	5.55E-11
CXCL13	0.0135	0.0071	50415	2.77E-01	0.0365	0.0069	28544	2.52E-07	0.0116	0.0017	28996	1.20E-11	0.0068	0.0022	29013	3.18E-03	0.0201	0.0028	29012	4.67E-12
MMP8	0.0164	0.0086	50331	2.79E-01	0.1390	0.0056	28491	1.09E-133	-0.0001	0.0014	28942	9.62E-01	0.0020	0.0018	28959	3.40E-01	-0.0029	0.0023	28958	2.65E-01
ANXA1	-0.0097	0.0051	42342	2.79E-01	0.0510	0.0116	23401	2.48E-05	0.0081	0.0029	23763	6.92E-03	0.0065	0.0038	23776	1.12E-01	0.0191	0.0048	23775	1.54E-04
CHRD1	-0.0069	0.0036	50106	2.83E-01	0.0061	0.0131	28399	7.06E-01	0.0045	0.0032	28844	2.03E-01	-0.0135	0.0042	28860	2.28E-03	0.0045	0.0054	28859	4.72E-01
SH2B3	0.0214	0.0114	48785	2.84E-01	0.0369	0.0043	27677	5.77E-17	0.0145	0.0011	28109	1.25E-41	0.0153	0.0014	28125	3.48E-27	0.0167	0.0018	28124	6.95E-20
ESYT2	0.0179	0.0095	43426	2.84E-01	0.0484	0.0059	23934	9.30E-16	0.0196	0.0014	24305	4.50E-41	0.0228	0.0019	24320	3.65E-32	0.0286	0.0024	24319	1.22E-30
FARSA	0.0150	0.0080	42343	2.84E-01	0.0431	0.0073	23314	8.96E-09	0.0214	0.0018	23671	1.36E-32	0.0239	0.0024	23685	1.36E-23	0.0274	0.0030	23684	5.75E-19
SERPINAS5	-0.0070	0.0037	42970	2.84E-01	-0.0539	0.0153	23741	7.78E-04	0.0996	0.0037	24110	3.78E-155	0.0888	0.0049	24125	6.13E-71	0.0979	0.0063	24124	2.26E-52
ICAM4	0.0115	0.0061	49907	2.84E-01	0.0179	0.0080	28300	3.87E-02	-0.0136	0.0020	28746	8.13E-12	-0.0151	0.0026	28762	8.86E-09	-0.0199	0.0033	28761	4.32E-09
PLAT	-0.0117	0.0062	50433	2.84E-01	-0.0043	0.0077	28587	6.46E-01	0.0487	0.0019	29035	2.55E-148	0.0398	0.0025	29050	1.79E-57	0.0336	0.0032	29049	1.56E-25
AKAP12	0.0045	0.0024	42580	2.84E-01	-0.0545	0.0234	23496	3.12E-02	-0.0353	0.0058	23858	1.68E-09	-0.0301	0.0076	23871	1.30E-04	-0.0442	0.0097	23870	1.11E-05
SHD	0.0184	0.0098	42026	2.84E-01	-0.0123	0.0060	23198	6.04E-02	0.0007	0.0015	23552	6.87E-01	0.0003	0.0019	23566	9.11E-01	0.0028	0.0025	23565	3.19E-01
GFOD2	-0.0271	0.0144	48785	2.85E-01	-0.0012	0.0034	27677	7.79E-01	0.0007	0.0008	28109	4.53E-01	0.0001	0.0011	28125	9.70E-01	-0.0008	0.0014	28124	6.46E-01
FYB1	0.0201	0.0107	49900	2.85E-01	0.0301	0.0045	28257	9.22E-11	0.0208	0.0011	28705	2.16E-77	0.0216	0.0015	28722	3.76E-48	0.0237	0.0019	28721	1.30E-35
SERPINA6	-0.0037	0.0020	43602	2.86E-01	0.3292	0.0288	24051	3.22E-29	-0.0510	0.0071	24424	1.41E-12	-0.0782	0.0093	24439	1.82E-16	-0.1389	0.0120	24438	3.51E-30
CBLIF	-0.0158	0.0084	49910	2.86E-01	-0.0559	0.0057	28300	4.00E-22	0.0104	0.0014	28742	1.72E-13	0.0121	0.0018	28758	7.25E-11	0.0213	0.0023	28757	4.17E-19
APLP1	-0.0114	0.0061	49984	2.86E-01	-0.0711	0.0079	28340	1.07E-18	-0.0433	0.0019	28785	1.88E-110	-0.0643	0.0025	28801	1.73E-140	-0.0696	0.0032	28800	1.51E-99
IRAK1	0.0152	0.0081	49043	2.86E-01	0.0540	0.0060	27807	1.67E-18	0.0204	0.0015	28251	1.00E-42	0.0212	0.0019	28266	4.66E-27	0.0249	0.0025	28265	1.14E-22
CMC1	0.0194	0.0104	43535	2.86E-01	0.0684	0.0054	24011	1.13E-35	0.0191	0.0013	24384	1.89E-46	0.0215	0.0017	24399	4.91E-34	0.0216	0.0022	24398	2.36E-21
APOL1	0.0132	0.0071	43572	2.86E-01	0.0922	0.0079	24036	1.68E-30	0.0047	0.0019	24408	2.26E-02	0.0039	0.0026	24423	1.64E-01	-0.0015	0.0033	24422	7.09E-01
PCDH17	-0.0078	0.0041	49984	2.86E-01	-0.0748	0.0116	28340	3.42E-10	0.0040	0.0028	28785	1.97E-01	-0.0105	0.0037	28801	7.38E-03	-0.0066	0.0048	28800	2.18E-01
NFATC1	0.0213	0.0114	49907	2.86E-01	0.0243	0.0042	28300	2.29E-08	0.0173	0.0010	28746	7.42E-62	0.0188	0.0014	28762	1.34E-42	0.0200	0.0017	28761	2.10E-29
SEMA3G	-0.0095	0.0051	42580	2.86E-01	-0.0327	0.0113	23496	6.71E-03	0.0100	0.0028	23858	5.08E-04	0.0089	0.0037	23871	2.26E-02	0.0221	0.0047	23870	5.73E-06
CRHR1	-0.0132	0.0071	49059	2.86E-01	-0.0104	0.0070	27799	1.86E-01	0.0022	0.0017	28234	2.47E-01	0.0015	0.0023	28248	5.80E-01	0.0012	0.0029	28247	7.29E-01
IL1R1	-0.0049	0.0026	49900	2.86E-01	0.0007	0.0183	28250	9.79E-01	-0.0734	0.0045	28697	1.57E-59	-0.0880	0.0059	28714	1.99E-49	-0.0977	0.0076	28713	4.27E-37
PSME1	0.0082	0.0044	49509	2.87E-01	0.0308	0.0112	28059	1.01E-02	0.0172	0.0027	28502	7.11E-10	0.0127	0.0036	28518	7.44E-04	0.0238	0.0046	28517	6.74E-07
GSR	0.0049	0.0026	43327	2.87E-01	0.1433	0.0213	23958	4.95E-11	0.0320	0.0052	24329	2.05E-09	0.0197	0.0069	24344	6.65E-03	0.0239	0.0089	24343	1.10E-02
ATP6V1G1	0.0156	0.0084	42387	2.88E-01	0.0352	0.0068	23360	6.73E-07	0.0221	0.0017	23719	1.80E-38	0.0248	0.0022	23733	4.78E-28	0.0308	0.0029	23732	3.01E-26
SPINK6	-0.0118	0.0064	50397	2.89E-01	-0.0103	0.0075	28576	2.24E-01	0.0130	0.0018	29025	3.59E-12	0.0210	0.0024	29042	1.31E-17	0.0255	0.0031	29041	9.04E-16
ALMS1	0.0095	0.0051	42740	2.90E-01	0.0264	0.0112	23551	2.91E-02	0.0030	0.0028	23912	3.25E-01	0.0040	0.0036	23927	3.20E-01	0.0060	0.0047	23926	2.48E-01
GAD1	0.0055	0.0030	41982	2.90E-01	0.0101	0.0196	23146	6.76E-01	-0.0179	0.0048	23506	3.12E-04	-0.0151	0.0064	23521	2.54E-02	-0.0228	0.0082	23520	8.04E-03
CTRC	-0.0137	0.0073	49944	2.90E-01	-0.0002	0.0065	28323	9.83E-01	0.0032	0.0016	28767	5.91E-02	0.0025	0.0021	28783	2.88E-01	0.0070	0.0027	28782	1.58E-02
TNFRSF8	-0.0096	0.0052	50415	2.94E-01	0.0143	0.0092	28544	1.64E-01	-0.0260	0.0022	28996	2.78E-30	-0.0252	0.0030	29013	4.83E-17	-0.0160	0.0038	29012	4.85E-05
P4HB	0.0084	0.0046	49734	2.96E-01	0.1143	0.0106	28184	5.31E-26	0.0625	0.0026	28628	2.49E-125	0.0586	0.0034	28645	7.96E-64	0.0596	0.0044	28644	2.97E-40
RBFOX3	-0.0083	0.0045	43455	2.96E-01	0.1245	0.0125	23960	1.77E-22	0.0033	0.0031	24328	3.34E-01	0.0035	0.0040	24343	4.48E-01	0.0166	0.0052	24342	2.23E-03
PDLIM7	0.0272	0.0147	50189	2.96E-01	0.0299	0.0033	28442	3.97E-19	0.0134	0.0008	28888	4.88E-62	0.0141	0.0011	28904	1.51E-39	0.0171	0.0014	28903	1.67E-35
GOLGA3	0.0165	0.0089	43455	2.96E-01	0.0363	0.0062	23960	1.60E-08	0.0168	0.0015	24328	2.17E-27	0.0171	0.0020	24343	8.95E-17	0.0205	0.0026	24342	7.41E-15
SIGLEC1	-0.0093	0.0051	50189	2.96E-01	0.0186	0.0095	28442	7.46E-02	0.0189	0.0023	28888	1.12E-15	0.0099	0.0031	28904	1.95E-03	0.0266	0.0039	28903	4.14E-11

CMIP	0.0175	0.0095	43331	2.96E-01	0.0460	0.0059	23884	2.96E-14	0.0214	0.0014	24254	1.95E-48	0.0211	0.0019	24269	1.56E-27	0.0217	0.0025	24268	4.48E-18
LAT2	0.0266	0.0145	49744	2.97E-01	0.0388	0.0033	28212	4.84E-30	0.0182	0.0008	28661	6.93E-109	0.0190	0.0011	28678	3.18E-68	0.0222	0.0014	28677	1.44E-56
CD226	0.0088	0.0048	42274	2.97E-01	0.1248	0.0119	23352	1.13E-24	0.0195	0.0030	23710	7.70E-11	0.0292	0.0039	23723	1.67E-13	0.0260	0.0050	23722	4.43E-07
USP25	0.0153	0.0084	43331	2.97E-01	0.0489	0.0067	23884	7.81E-13	0.0184	0.0016	24254	8.55E-29	0.0175	0.0022	24269	1.42E-15	0.0225	0.0028	24268	1.66E-15
CD70	-0.0091	0.0049	49907	2.97E-01	0.0278	0.0098	28300	7.88E-03	-0.0043	0.0024	28746	9.41E-02	-0.0053	0.0032	28762	1.25E-01	-0.0003	0.0041	28761	9.58E-01
CD244	0.0057	0.0031	50529	2.97E-01	0.0414	0.0152	28636	1.10E-02	0.0404	0.0037	29090	1.01E-26	0.0481	0.0049	29107	5.98E-22	0.0540	0.0063	29106	5.05E-17
UBE2B	0.0061	0.0033	43331	2.97E-01	0.0357	0.0172	23884	5.78E-02	0.0021	0.0042	24254	6.77E-01	0.0078	0.0056	24269	2.10E-01	0.0096	0.0072	24268	2.27E-01
NMNAT1	-0.0159	0.0086	49589	2.97E-01	-0.0089	0.0059	28083	1.73E-01	0.0083	0.0014	28527	1.37E-08	0.0040	0.0019	28543	4.86E-02	0.0199	0.0024	28542	1.03E-15
ODAM	0.0115	0.0063	48720	2.97E-01	-0.0097	0.0080	27613	2.83E-01	-0.0012	0.0020	28049	5.81E-01	-0.0045	0.0026	28066	1.06E-01	-0.0044	0.0033	28065	2.38E-01
LRTM2	-0.0057	0.0031	43455	2.97E-01	-0.0155	0.0182	23960	4.69E-01	-0.1083	0.0044	24328	2.76E-129	-0.1404	0.0058	24343	6.34E-125	-0.1628	0.0075	24342	1.05E-101
RIPK4	0.0143	0.0078	42109	2.97E-01	0.0033	0.0074	23248	7.15E-01	0.0010	0.0018	23603	6.25E-01	0.0007	0.0024	23617	8.04E-01	0.0025	0.0031	23616	4.88E-01
AP1G2	0.0170	0.0093	43331	2.97E-01	0.0553	0.0061	23884	5.10E-19	0.0248	0.0015	24254	4.03E-61	0.0261	0.0020	24269	2.62E-39	0.0310	0.0025	24268	1.32E-33
TXNDC9	0.0111	0.0061	43426	2.98E-01	0.0914	0.0092	23934	2.44E-22	0.0219	0.0023	24305	1.09E-21	0.0251	0.0030	24320	1.16E-16	0.0271	0.0038	24319	4.67E-12
CASP1	-0.0146	0.0080	48799	3.00E-01	0.0459	0.0063	27661	9.08E-13	0.0055	0.0015	28098	6.34E-04	0.0057	0.0020	28115	7.56E-03	0.0028	0.0026	28114	3.48E-01
CCN3	-0.0072	0.0039	50513	3.01E-01	-0.0058	0.0120	28645	6.97E-01	0.0027	0.0029	29093	4.04E-01	-0.0004	0.0039	29109	9.27E-01	-0.0134	0.0050	29108	1.13E-02
LTBP2	-0.0067	0.0037	50594	3.01E-01	-0.0072	0.0130	28667	6.53E-01	-0.0731	0.0031	29116	4.42E-117	-0.0999	0.0041	29132	4.19E-126	-0.1099	0.0053	29131	2.79E-92
TNF	-0.0081	0.0044	48987	3.05E-01	0.1083	0.0111	27754	9.60E-22	0.0113	0.0027	28189	5.38E-05	0.0080	0.0036	28203	3.70E-02	0.0189	0.0046	28202	7.75E-05
TPMT	0.0154	0.0085	48785	3.05E-01	0.0366	0.0059	27677	1.14E-09	-0.0020	0.0014	28109	2.08E-01	-0.0033	0.0019	28125	1.07E-01	-0.0075	0.0024	28124	3.27E-03
TPSAB1	-0.0110	0.0060	50444	3.05E-01	-0.0371	0.0079	28604	6.13E-06	0.0097	0.0019	29057	1.05E-06	0.0104	0.0026	29074	8.65E-05	0.0126	0.0033	29073	2.23E-04
F9	-0.0041	0.0022	50096	3.05E-01	0.2605	0.0214	28410	5.61E-33	0.1587	0.0052	28851	1.68E-201	0.1541	0.0069	28867	4.66E-109	0.1818	0.0088	28866	5.47E-92
NFASC	-0.0060	0.0033	50529	3.05E-01	-0.1828	0.0144	28636	1.69E-35	0.0828	0.0035	29090	1.54E-120	0.0560	0.0046	29107	1.51E-32	0.0739	0.0060	29106	3.74E-34
CLUL1	-0.0097	0.0053	49901	3.05E-01	-0.0532	0.0091	28299	1.55E-08	-0.0447	0.0022	28743	4.06E-88	-0.0571	0.0029	28759	6.66E-83	-0.0676	0.0038	28758	1.72E-70
ERBB4	0.0051	0.0028	50125	3.05E-01	-0.0163	0.0171	28423	4.13E-01	-0.0426	0.0042	28868	1.02E-23	-0.0705	0.0055	28885	1.71E-36	-0.0777	0.0071	28884	3.82E-27
NCK2	0.0221	0.0122	50189	3.06E-01	0.0379	0.0039	28442	2.95E-21	0.0168	0.0010	28888	9.08E-67	0.0182	0.0013	28904	2.08E-45	0.0196	0.0016	28903	2.91E-32
IPCEF1	0.0188	0.0104	49505	3.06E-01	0.0405	0.0047	28036	2.62E-17	0.0221	0.0011	28478	1.34E-81	0.0226	0.0015	28494	1.04E-49	0.0276	0.0019	28493	7.94E-45
MRPL52	0.0053	0.0029	41899	3.06E-01	0.0623	0.0198	23105	2.91E-03	0.0036	0.0049	23465	5.15E-01	0.0028	0.0064	23480	7.11E-01	-0.0047	0.0082	23479	6.28E-01
EPS8L2	-0.0065	0.0036	50315	3.06E-01	-0.0133	0.0134	28509	3.91E-01	0.0595	0.0033	28957	3.37E-73	0.0598	0.0043	28974	3.19E-43	0.0852	0.0055	28973	1.05E-52
SUGP1	0.0085	0.0047	43346	3.06E-01	0.0702	0.0121	23893	1.78E-08	0.0333	0.0030	24266	1.75E-28	0.0345	0.0039	24281	5.51E-18	0.0473	0.0050	24280	3.03E-20
MN1	0.0120	0.0066	42343	3.06E-01	-0.0135	0.0085	23314	1.57E-01	-0.0034	0.0021	23671	1.30E-01	-0.0030	0.0028	23685	3.32E-01	-0.0049	0.0036	23684	2.15E-01
LMNB2	-0.0060	0.0033	43426	3.08E-01	0.1529	0.0170	23934	1.40E-18	0.0111	0.0042	24305	1.14E-02	0.0074	0.0055	24320	2.25E-01	0.0101	0.0071	24319	1.99E-01
COX6B1	0.0067	0.0037	43535	3.08E-01	0.1233	0.0152	24011	1.96E-15	0.0391	0.0037	24384	2.99E-25	0.0461	0.0049	24399	2.81E-20	0.0515	0.0063	24398	1.33E-15
RANBP1	0.0110	0.0061	42387	3.08E-01	0.0224	0.0095	23360	2.95E-02	-0.0062	0.0023	23719	1.17E-02	-0.0089	0.0031	23733	6.48E-03	-0.0096	0.0040	23732	2.30E-02
FUCA1	-0.0171	0.0095	50278	3.08E-01	-0.0107	0.0050	28475	5.25E-02	0.0084	0.0012	28922	2.03E-11	0.0070	0.0016	28938	3.07E-05	0.0076	0.0021	28937	4.64E-04
PODXL	0.0032	0.0018	49744	3.08E-01	-0.0349	0.0280	28212	2.71E-01	-0.0195	0.0068	28661	6.33E-03	-0.0240	0.0090	28678	1.16E-02	-0.0548	0.0115	28677	4.16E-06
HMMR	0.0099	0.0055	41899	3.08E-01	0.0096	0.0106	23105	4.40E-01	-0.0007	0.0026	23465	8.23E-01	-0.0010	0.0034	23480	8.01E-01	-0.0033	0.0044	23479	5.20E-01
PNPT1	-0.0247	0.0137	49043	3.09E-01	0.0046	0.0036	27807	2.67E-01	-0.0003	0.0009	28251	7.44E-01	-0.0008	0.0012	28266	5.46E-01	-0.0020	0.0015	28265	2.25E-01
SCP2	-0.0159	0.0089	48785	3.10E-01	0.0005	0.0056	27677	9.48E-01	0.0029	0.0014	28109	4.63E-02	0.0016	0.0018	28125	4.48E-01	0.0016	0.0023	28124	5.48E-01
LYPLA2	-0.0220	0.0122	42120	3.11E-01	0.0000	0.0047	23217	9.96E-01	0.0004	0.0012	23575	7.84E-01	0.0015	0.0015	23590	3.93E-01	0.0008	0.0020	23589	7.21E-01
COLEC12	-0.0057	0.0032	49941	3.12E-01	0.1440	0.0149	28321	2.12E-21	0.0309	0.0037	28766	7.87E-17	0.0340	0.0048	28782	3.95E-12	0.0533	0.0062	28781	2.52E-17
PAK4	0.0127	0.0071	48799	3.12E-01	0.0617	0.0070	27661	5.09E-18	0.0278	0.0017	28098	2.84E-58	0.0295	0.0023	28115	2.94E-38	0.0320	0.0029	28114	1.85E-27
CRLF1	0.0055	0.0030	50189	3.12E-01	0.0735	0.0158	28442	6.95E-06	0.0016	0.0039	28888	7.22E-01	-0.0073	0.0051	28904	1.98E-01	-0.0195	0.0065	28903	4.64E-03
TDO2	-0.0080	0.0045	42343	3.12E-01	0.0463	0.0130	23314	6.72E-04	0.0403	0.0032	23671	2.65E-36	0.0446	0.0042	23685	8.81E-26	0.0533	0.0054	23684	1.96E-22
WASL	0.0124	0.0069	42274	3.12E-01	-0.0225	0.0083	23352	1.10E-02	-0.0007	0.0020	23710	7.67E-01	-0.0014	0.0027	23723	6.69E-01	-0.0040	0.0035	23722	3.04E-01

STAB2	0.0060	0.0034	43537	3.14E-01	0.1011	0.0168	24024	5.23E-09	0.0668	0.0041	24398	5.10E-58	0.0521	0.0054	24413	4.41E-21	0.0583	0.0070	24412	3.30E-16
DTYMK	0.0142	0.0079	43535	3.16E-01	0.0479	0.0071	24011	3.76E-11	0.0196	0.0017	24384	4.92E-29	0.0181	0.0023	24399	6.02E-15	0.0224	0.0029	24398	6.66E-14
BCAN	0.0073	0.0041	49589	3.19E-01	-0.0208	0.0119	28083	1.14E-01	-0.0791	0.0029	28527	1.39E-162	-0.1096	0.0038	28543	2.31E-180	-0.1394	0.0049	28542	2.11E-176
STAMBP	0.0132	0.0075	49507	3.20E-01	0.0577	0.0065	28030	4.95E-18	0.0134	0.0016	28473	2.15E-16	0.0133	0.0021	28489	6.35E-10	0.0153	0.0027	28488	3.67E-08
RTN4R	0.0075	0.0042	50397	3.20E-01	-0.0396	0.0114	28576	8.90E-04	0.0962	0.0027	29025	6.52E-266	0.0940	0.0036	29042	1.29E-145	0.1091	0.0047	29041	1.99E-118
HSPA2	0.0069	0.0039	43331	3.20E-01	0.0489	0.0146	23884	1.52E-03	-0.0010	0.0036	24254	8.12E-01	-0.0019	0.0047	24269	7.38E-01	0.0070	0.0060	24268	3.02E-01
TLR3	-0.0126	0.0071	50529	3.20E-01	-0.0030	0.0068	28636	7.18E-01	0.0191	0.0017	29090	3.63E-30	0.0199	0.0022	29107	2.90E-19	0.0205	0.0028	29106	7.42E-13
AZI2	0.0115	0.0065	43455	3.21E-01	0.0415	0.0087	23960	4.07E-06	0.0265	0.0021	24328	5.72E-35	0.0277	0.0028	24343	2.06E-22	0.0356	0.0036	24342	2.35E-22
STX5	0.0082	0.0046	42274	3.21E-01	0.0126	0.0123	23352	3.74E-01	0.0083	0.0030	23710	8.97E-03	0.0088	0.0040	23723	4.15E-02	0.0129	0.0051	23722	1.83E-02
MRC1	-0.0060	0.0034	43572	3.21E-01	0.0984	0.0165	24036	6.65E-09	0.0299	0.0041	24408	3.81E-13	0.0098	0.0053	24423	9.13E-02	0.0379	0.0069	24422	7.54E-08
FZD8	-0.0087	0.0049	42120	3.21E-01	-0.0040	0.0115	23217	7.83E-01	-0.0013	0.0028	23575	6.87E-01	-0.0019	0.0037	23590	6.71E-01	-0.0022	0.0048	23589	6.98E-01
CCL5	0.0208	0.0118	50176	3.24E-01	0.0550	0.0041	28453	1.22E-39	0.0136	0.0010	28897	4.76E-41	0.0147	0.0013	28913	6.13E-28	0.0152	0.0017	28912	2.28E-18
CACNB3	0.0170	0.0097	43455	3.24E-01	0.0718	0.0058	23960	5.88E-34	0.0211	0.0014	24328	8.58E-49	0.0223	0.0019	24343	1.29E-31	0.0235	0.0024	24342	1.28E-21
DAB2	0.0227	0.0129	50397	3.24E-01	0.0439	0.0037	28576	5.91E-31	0.0167	0.0009	29025	5.22E-73	0.0177	0.0012	29042	4.25E-48	0.0195	0.0015	29041	1.41E-35
GGCT	0.0098	0.0055	43453	3.24E-01	0.0870	0.0102	23993	4.94E-17	0.0120	0.0025	24366	2.42E-06	0.0114	0.0033	24381	8.55E-04	0.0120	0.0042	24380	7.23E-03
CPA2	-0.0133	0.0075	50250	3.24E-01	-0.0541	0.0064	28431	1.22E-16	0.0324	0.0016	28882	2.67E-94	0.0374	0.0021	28899	3.19E-72	0.0643	0.0026	28898	4.69E-129
RNF41	0.0138	0.0078	48785	3.24E-01	0.0496	0.0063	27677	1.20E-14	0.0205	0.0015	28109	2.18E-39	0.0195	0.0020	28125	5.18E-21	0.0269	0.0026	28124	4.89E-24
EGFLAM	-0.0062	0.0035	43346	3.24E-01	-0.0603	0.0161	23893	3.29E-04	0.0190	0.0039	24266	2.51E-06	0.0165	0.0052	24281	2.45E-03	0.0295	0.0067	24280	1.97E-05
MMP3	-0.0099	0.0056	49982	3.24E-01	0.0258	0.0086	28299	4.69E-03	-0.0327	0.0021	28747	9.49E-54	-0.0306	0.0028	28764	9.92E-28	-0.0276	0.0036	28763	3.15E-14
CD58	0.0036	0.0020	49857	3.24E-01	-0.0277	0.0236	28278	3.05E-01	-0.0698	0.0058	28721	7.10E-33	-0.0802	0.0076	28737	3.02E-25	-0.0971	0.0098	28736	1.67E-22
GPA33	-0.0273	0.0155	49744	3.24E-01	-0.0036	0.0031	28212	3.12E-01	0.0039	0.0008	28661	7.85E-07	0.0014	0.0010	28678	2.25E-01	0.0014	0.0013	28677	3.57E-01
SEMA7A	-0.0056	0.0032	50433	3.24E-01	-0.0108	0.0150	28587	5.44E-01	0.0248	0.0037	29035	2.75E-11	0.0074	0.0048	29050	1.62E-01	0.0242	0.0062	29049	1.63E-04
GIPR	0.0094	0.0053	42274	3.24E-01	0.0043	0.0107	23352	7.47E-01	-0.0012	0.0026	23710	6.88E-01	-0.0019	0.0035	23723	6.54E-01	-0.0021	0.0045	23722	6.98E-01
GPR37	0.0135	0.0077	49059	3.24E-01	-0.0025	0.0064	27799	7.57E-01	0.0302	0.0016	28234	8.07E-83	0.0320	0.0020	28248	7.99E-54	0.0507	0.0026	28247	1.83E-81
SCIN	-0.0147	0.0083	42120	3.24E-01	0.0019	0.0069	23217	8.27E-01	0.0014	0.0017	23575	4.48E-01	0.0010	0.0022	23590	7.10E-01	0.0004	0.0029	23589	9.05E-01
PPP1CC	0.0167	0.0095	43331	3.25E-01	0.0608	0.0059	23884	3.62E-24	0.0201	0.0014	24254	3.84E-43	0.0225	0.0019	24269	2.54E-31	0.0247	0.0024	24268	2.84E-23
CALCB	-0.0079	0.0045	43426	3.25E-01	0.1078	0.0122	23934	5.97E-18	-0.0341	0.0030	24305	2.61E-29	-0.0316	0.0040	24320	4.17E-15	-0.0357	0.0051	24319	6.33E-12
HS6ST1	-0.0069	0.0039	50397	3.25E-01	-0.1018	0.0122	28576	2.44E-16	0.0596	0.0030	29025	2.47E-88	0.0539	0.0039	29042	3.57E-42	0.0770	0.0050	29041	8.10E-52
YJU2	0.0065	0.0037	43331	3.25E-01	0.0868	0.0152	23884	2.83E-08	0.0303	0.0037	24254	9.31E-16	0.0292	0.0049	24269	6.01E-09	0.0395	0.0063	24268	9.65E-10
COL1A1	-0.0051	0.0029	50594	3.25E-01	-0.0831	0.0166	28667	1.32E-06	-0.0075	0.0041	29116	8.60E-02	-0.0138	0.0053	29132	1.47E-02	0.0012	0.0069	29131	8.88E-01
ITGB2	-0.0059	0.0033	49692	3.25E-01	-0.0497	0.0145	28143	1.08E-03	0.0322	0.0035	28582	2.14E-19	0.0335	0.0046	28596	1.40E-12	0.0232	0.0060	28595	1.89E-04
BRME1	0.0083	0.0047	42120	3.25E-01	0.0059	0.0123	23217	6.98E-01	-0.0011	0.0030	23575	7.69E-01	0.0013	0.0040	23590	7.80E-01	-0.0015	0.0051	23589	8.17E-01
LCN15	-0.0124	0.0070	43455	3.25E-01	0.0114	0.0079	23960	2.03E-01	-0.0069	0.0019	24328	6.53E-04	-0.0062	0.0026	24343	2.35E-02	-0.0018	0.0033	24342	6.52E-01
VNN2	-0.0095	0.0054	49744	3.26E-01	0.1066	0.0090	28212	3.00E-31	0.0052	0.0022	28661	2.55E-02	0.0027	0.0029	28678	4.14E-01	0.0094	0.0037	28677	1.75E-02
SEZ6L2	0.0048	0.0028	49744	3.27E-01	0.0010	0.0176	28212	9.65E-01	-0.0763	0.0043	28661	7.85E-70	-0.1009	0.0056	28678	1.92E-70	-0.1118	0.0072	28677	1.45E-52
DGKA	0.0109	0.0063	42274	3.30E-01	0.0836	0.0091	23352	1.41E-19	0.0221	0.0022	23710	1.32E-22	0.0234	0.0029	23723	7.05E-15	0.0281	0.0038	23722	3.73E-13
FRMD4B	0.0143	0.0082	42109	3.30E-01	0.0148	0.0070	23248	5.39E-02	0.0135	0.0017	23603	1.65E-14	0.0168	0.0023	23617	5.08E-13	0.0184	0.0029	23616	7.85E-10
FES	0.0096	0.0055	48785	3.30E-01	0.0091	0.0090	27677	3.86E-01	0.0152	0.0022	28109	1.48E-11	0.0174	0.0029	28125	5.74E-09	0.0221	0.0038	28124	8.69E-09
CGN	0.0079	0.0045	42343	3.30E-01	0.0094	0.0127	23314	5.33E-01	0.0081	0.0031	23671	1.39E-02	0.0107	0.0041	23685	1.39E-02	0.0130	0.0053	23684	2.13E-02
MANSC1	0.0055	0.0032	50125	3.30E-01	0.0559	0.0151	28423	4.17E-04	-0.0693	0.0037	28868	3.89E-77	-0.0720	0.0049	28885	2.89E-48	-0.0713	0.0063	28884	4.29E-29
CEACAM16	0.0164	0.0094	43346	3.32E-01	-0.0826	0.0060	23893	2.27E-42	0.0273	0.0015	24266	2.15E-77	0.0290	0.0019	24281	2.05E-50	0.0365	0.0025	24280	2.26E-48
SOD2	-0.0076	0.0044	49982	3.32E-01	0.1402	0.0112	28299	8.18E-35	0.0015	0.0027	28747	6.43E-01	0.0022	0.0036	28764	6.01E-01	0.0031	0.0046	28763	5.70E-01
L1CAM	0.0059	0.0034	50125	3.33E-01	-0.0366	0.0143	28423	1.66E-02	-0.0076	0.0035	28868	4.03E-02	-0.0074	0.0046	28885	1.43E-01	-0.0203	0.0059	28884	1.03E-03

TCN1	0.0067	0.0039	42706	3.34E-01	0.1051	0.0145	23656	1.66E-12	-0.0184	0.0036	24020	5.18E-07	-0.0229	0.0047	24035	2.41E-06	-0.0282	0.0061	24034	6.60E-06
TNFSF14	-0.0117	0.0068	49589	3.34E-01	0.1532	0.0072	28083	5.83E-98	0.0221	0.0018	28527	1.02E-34	0.0270	0.0023	28543	3.26E-30	0.0164	0.0030	28542	1.04E-07
GP1BA	0.0065	0.0038	49767	3.34E-01	0.1402	0.0128	28248	4.63E-27	-0.0022	0.0031	28684	5.32E-01	0.0047	0.0041	28700	3.15E-01	-0.0057	0.0053	28699	3.41E-01
KLKB1	-0.0050	0.0029	42724	3.34E-01	0.1486	0.0198	23561	2.26E-13	0.0725	0.0048	23928	1.87E-49	0.0564	0.0064	23943	4.96E-18	0.0604	0.0082	23942	7.42E-13
GGT1	-0.0104	0.0060	49900	3.34E-01	0.0446	0.0081	28250	9.48E-08	0.0514	0.0020	28697	1.06E-149	0.0459	0.0026	28714	1.79E-69	0.0480	0.0033	28713	3.63E-46
OXT	-0.0297	0.0172	50415	3.34E-01	0.0094	0.0028	28544	1.50E-03	0.0166	0.0007	28996	8.27E-129	0.0179	0.0009	29013	6.69E-87	0.0210	0.0012	29012	4.72E-72
TAB2	0.0212	0.0123	42740	3.37E-01	0.0202	0.0046	23551	2.52E-05	0.0114	0.0011	23912	2.69E-23	0.0136	0.0015	23927	4.93E-19	0.0148	0.0019	23926	3.75E-14
ATRN	-0.0033	0.0019	43602	3.37E-01	0.1684	0.0290	24051	1.60E-08	0.1367	0.0071	24424	8.77E-82	0.1188	0.0093	24439	4.43E-36	0.1250	0.0120	24438	1.55E-24
SIRPA	0.0113	0.0066	50108	3.37E-01	-0.0103	0.0073	28386	2.11E-01	-0.0020	0.0018	28830	3.10E-01	-0.0028	0.0024	28844	2.98E-01	0.0009	0.0030	28843	8.03E-01
IL20RA	0.0089	0.0052	49043	3.37E-01	-0.0102	0.0095	27807	3.51E-01	-0.0005	0.0023	28251	8.53E-01	0.0018	0.0030	28266	6.09E-01	0.0025	0.0039	28265	5.91E-01
C5	-0.0030	0.0017	43602	3.38E-01	0.3264	0.0323	24051	3.99E-23	0.0592	0.0079	24424	2.10E-13	0.0348	0.0105	24439	1.50E-03	0.0475	0.0135	24438	7.36E-04
RAD23B	0.0092	0.0054	48785	3.38E-01	0.0736	0.0091	27677	2.05E-15	0.0166	0.0022	28109	2.11E-13	0.0192	0.0029	28125	1.53E-10	0.0170	0.0038	28124	1.30E-05
MAP1LC3A	0.0062	0.0036	42120	3.39E-01	0.0223	0.0159	23217	2.12E-01	-0.0037	0.0039	23575	4.00E-01	-0.0038	0.0051	23590	5.25E-01	-0.0089	0.0066	23589	2.26E-01
TNFSF11	-0.0122	0.0071	49907	3.39E-01	-0.0063	0.0069	28300	4.30E-01	0.0286	0.0017	28746	1.36E-64	0.0349	0.0022	28762	1.21E-55	0.0455	0.0028	28761	3.83E-57
TOMM20	0.0152	0.0089	43535	3.40E-01	0.0772	0.0063	24011	3.47E-33	0.0255	0.0015	24384	9.62E-60	0.0284	0.0020	24399	5.73E-43	0.0343	0.0026	24398	4.02E-38
HYAL1	-0.0045	0.0026	49702	3.40E-01	-0.0065	0.0183	28138	7.80E-01	-0.0115	0.0045	28573	1.47E-02	-0.0477	0.0059	28589	2.14E-15	-0.1034	0.0076	28588	2.46E-41
LRRC25	-0.0078	0.0046	49744	3.40E-01	0.0541	0.0106	28212	8.36E-07	0.0024	0.0026	28661	4.09E-01	-0.0014	0.0034	28678	7.32E-01	0.0112	0.0044	28677	1.60E-02
SHISA5	-0.0051	0.0030	43537	3.42E-01	0.1786	0.0187	24024	7.15E-21	-0.0001	0.0046	24398	9.87E-01	-0.0053	0.0061	24413	4.40E-01	0.0100	0.0078	24412	2.50E-01
ATG16L1	0.0168	0.0098	43346	3.42E-01	0.0458	0.0057	23893	3.58E-15	0.0207	0.0014	24266	6.56E-49	0.0201	0.0018	24281	5.42E-27	0.0236	0.0024	24280	1.46E-22
PCNA	0.0126	0.0074	41982	3.43E-01	0.0040	0.0081	23146	6.87E-01	0.0001	0.0020	23506	9.58E-01	0.0003	0.0026	23521	9.22E-01	0.0014	0.0034	23520	7.35E-01
ERBIN	0.0203	0.0119	49744	3.43E-01	0.0398	0.0041	28212	9.41E-22	0.0158	0.0010	28661	5.50E-56	0.0169	0.0013	28678	5.09E-37	0.0185	0.0017	28677	2.98E-27
HSD17B3	0.0094	0.0055	42109	3.43E-01	0.0322	0.0105	23248	3.76E-03	0.0144	0.0026	23603	4.22E-08	0.0163	0.0034	23617	3.40E-06	0.0185	0.0044	23616	4.45E-05
FLT3	0.0060	0.0035	48785	3.43E-01	-0.0591	0.0139	27677	4.64E-05	-0.0198	0.0034	28109	1.35E-08	-0.0189	0.0045	28125	5.07E-05	-0.0264	0.0058	28124	1.07E-05
ABL1	0.0136	0.0080	49744	3.43E-01	0.0588	0.0061	28212	2.18E-21	0.0268	0.0015	28661	9.04E-72	0.0274	0.0020	28678	9.01E-44	0.0347	0.0025	28677	2.33E-42
EFCAB2	0.0068	0.0040	42740	3.45E-01	0.1069	0.0143	23551	2.62E-13	0.0248	0.0035	23912	4.17E-12	0.0308	0.0046	23927	7.19E-11	0.0288	0.0060	23926	2.87E-06
CCL7	0.0119	0.0070	49907	3.46E-01	0.0822	0.0069	28300	4.98E-32	0.0198	0.0017	28746	2.46E-31	0.0176	0.0022	28762	5.61E-15	0.0251	0.0028	28761	4.83E-18
PLG	-0.0044	0.0026	42502	3.46E-01	0.3228	0.0222	23527	2.06E-46	0.0425	0.0055	23896	2.23E-14	0.0282	0.0072	23911	1.77E-04	0.0260	0.0093	23910	8.21E-03
CEP20	0.0147	0.0086	48785	3.46E-01	0.0511	0.0057	27677	2.12E-18	0.0237	0.0014	28109	1.49E-62	0.0227	0.0019	28125	1.60E-33	0.0277	0.0024	28124	2.32E-30
GALNT5	-0.0054	0.0032	43535	3.46E-01	-0.1125	0.0177	24011	6.53E-10	-0.0026	0.0043	24384	6.01E-01	-0.0136	0.0057	24399	2.62E-02	-0.0185	0.0073	24398	1.79E-02
AXIN1	0.0189	0.0112	49907	3.46E-01	0.0338	0.0043	28300	1.65E-14	0.0174	0.0011	28746	5.01E-60	0.0187	0.0014	28762	2.57E-40	0.0216	0.0018	28761	9.31E-33
TNFSF13B	-0.0055	0.0032	50511	3.46E-01	0.1127	0.0148	28635	1.13E-13	-0.0030	0.0036	29083	4.53E-01	-0.0054	0.0048	29099	3.11E-01	0.0170	0.0061	29098	8.72E-03
WAS	-0.0132	0.0078	49043	3.47E-01	0.0355	0.0064	27807	5.91E-08	0.0104	0.0016	28251	4.46E-11	0.0107	0.0020	28266	3.73E-07	0.0137	0.0026	28265	4.23E-07
SAA4	0.0060	0.0036	43602	3.48E-01	0.0606	0.0149	24051	1.01E-04	0.0220	0.0037	24424	3.52E-09	0.0203	0.0048	24439	5.04E-05	0.0314	0.0062	24438	8.67E-07
HRC	-0.0068	0.0040	42387	3.48E-01	-0.0662	0.0142	23360	7.27E-06	-0.0319	0.0035	23719	3.55E-19	-0.0413	0.0046	23733	1.93E-18	-0.0419	0.0060	23732	6.00E-12
CD2AP	0.0128	0.0075	49984	3.49E-01	0.0244	0.0064	28340	2.60E-04	0.0154	0.0016	28785	2.67E-22	0.0147	0.0021	28801	2.69E-12	0.0202	0.0026	28800	8.16E-14
TWF2	0.0163	0.0096	43537	3.51E-01	0.0582	0.0058	24024	8.28E-23	0.0176	0.0014	24398	3.81E-34	0.0193	0.0019	24413	5.40E-24	0.0200	0.0024	24412	5.19E-16
PCSK9	0.0077	0.0046	50594	3.53E-01	-0.2075	0.0103	28667	6.85E-88	0.0389	0.0025	29116	1.53E-52	0.0288	0.0033	29132	1.75E-17	0.0157	0.0043	29131	4.36E-04
MXRA8	-0.0062	0.0037	42580	3.53E-01	-0.0144	0.0156	23496	4.29E-01	-0.1098	0.0038	23858	4.05E-182	-0.1154	0.0050	23871	2.73E-115	-0.1368	0.0064	23870	3.90E-98
OGA	0.0136	0.0081	43346	3.54E-01	0.0552	0.0069	23893	3.81E-15	0.0196	0.0017	24266	2.06E-30	0.0196	0.0022	24281	4.87E-18	0.0215	0.0029	24280	1.62E-13
FCRL5	-0.0114	0.0068	49982	3.56E-01	-0.0199	0.0071	28299	8.76E-03	0.0216	0.0017	28747	1.35E-34	0.0146	0.0023	28764	5.51E-10	0.0186	0.0030	28763	7.51E-10
EHBP1	0.0145	0.0087	43535	3.57E-01	0.0449	0.0065	24011	1.04E-11	0.0254	0.0016	24384	1.86E-57	0.0260	0.0021	24399	6.10E-35	0.0315	0.0027	24398	4.96E-31
TANK	0.0136	0.0081	49043	3.57E-01	0.0206	0.0060	27807	1.11E-03	0.0213	0.0015	28251	6.99E-47	0.0224	0.0019	28266	3.05E-30	0.0275	0.0025	28265	1.37E-27
POF1B	-0.0087	0.0052	42274	3.57E-01	-0.0306	0.0110	23352	9.10E-03	0.0052	0.0027	23710	7.37E-02	0.0107	0.0036	23723	4.24E-03	0.0218	0.0046	23722	4.20E-06

CRYBB2	-0.0129	0.0077	43426	3.57E-01	0.0192	0.0072	23934	1.31E-02	-0.0054	0.0018	24305	3.28E-03	-0.0067	0.0023	24320	6.55E-03	-0.0068	0.0030	24319	3.42E-02
VSTM1	-0.0095	0.0057	48799	3.61E-01	0.0515	0.0087	27661	8.12E-09	0.0003	0.0021	28098	9.18E-01	0.0012	0.0028	28115	7.30E-01	0.0040	0.0036	28114	3.30E-01
TNFRSF9	-0.0079	0.0047	49589	3.61E-01	0.0481	0.0100	28083	3.84E-06	-0.0101	0.0025	28527	7.01E-05	-0.0078	0.0032	28543	2.38E-02	-0.0039	0.0042	28542	4.12E-01
RABEPK	-0.0114	0.0068	48785	3.61E-01	0.0287	0.0072	27677	1.48E-04	0.0095	0.0018	28109	1.65E-07	0.0114	0.0023	28125	2.52E-06	0.0100	0.0030	28124	1.58E-03
SCARB1	-0.0109	0.0066	48799	3.63E-01	-0.0017	0.0074	27661	8.62E-01	0.0059	0.0018	28098	2.00E-03	0.0042	0.0024	28115	1.11E-01	0.0042	0.0031	28114	2.24E-01
YWHAQ	0.0141	0.0085	42580	3.64E-01	0.0591	0.0067	23496	4.12E-18	0.0139	0.0016	23858	8.59E-17	0.0152	0.0022	23871	5.35E-12	0.0173	0.0028	23870	1.35E-09
M6PR	0.0076	0.0046	42387	3.64E-01	0.0326	0.0124	23360	1.42E-02	0.0040	0.0031	23719	2.26E-01	0.0059	0.0040	23733	1.87E-01	0.0034	0.0052	23732	5.80E-01
MSR1	-0.0090	0.0054	50415	3.64E-01	0.0568	0.0088	28544	3.14E-10	0.0296	0.0021	28996	2.17E-42	0.0208	0.0028	29013	5.62E-13	0.0377	0.0036	29012	1.85E-24
ZFYVE19	0.0170	0.0103	43346	3.66E-01	0.0452	0.0054	23893	3.17E-16	0.0157	0.0013	24266	1.25E-31	0.0166	0.0018	24281	1.02E-20	0.0182	0.0023	24280	2.79E-15
TLR1	-0.0050	0.0030	42274	3.66E-01	-0.0686	0.0189	23352	5.42E-04	0.0115	0.0047	23710	1.97E-02	0.0081	0.0062	23723	2.34E-01	0.0154	0.0079	23722	7.09E-02
RETN	0.0082	0.0049	49867	3.66E-01	0.0982	0.0099	28228	1.55E-22	-0.0128	0.0024	28669	2.21E-07	-0.0143	0.0032	28683	1.28E-05	-0.0071	0.0041	28682	1.11E-01
OMG	-0.0130	0.0079	49744	3.68E-01	-0.0812	0.0062	28212	8.07E-38	-0.0211	0.0015	28661	4.93E-43	-0.0375	0.0020	28678	2.85E-77	-0.0458	0.0026	28677	1.19E-69
CA8	0.0049	0.0030	42274	3.68E-01	-0.0502	0.0188	23352	1.25E-02	0.0097	0.0046	23710	4.63E-02	0.0119	0.0060	23723	6.88E-02	0.0123	0.0078	23722	1.49E-01
BMP10	-0.0055	0.0033	42580	3.68E-01	-0.0311	0.0173	23496	1.04E-01	-0.0558	0.0042	23858	7.79E-39	-0.0812	0.0056	23871	5.98E-47	-0.0978	0.0072	23870	2.32E-41
LYAR	-0.0102	0.0062	48785	3.68E-01	-0.0272	0.0081	27677	1.48E-03	0.0017	0.0020	28109	4.48E-01	-0.0024	0.0026	28125	4.16E-01	0.0071	0.0034	28124	5.03E-02
LSP1	0.0079	0.0048	49907	3.68E-01	0.0112	0.0102	28300	3.40E-01	0.0377	0.0025	28746	4.22E-51	0.0323	0.0033	28762	2.14E-22	0.0709	0.0042	28761	9.98E-63
ART5	-0.0119	0.0072	42120	3.68E-01	0.0084	0.0081	23217	3.68E-01	-0.0012	0.0020	23575	5.86E-01	-0.0034	0.0026	23590	2.46E-01	-0.0015	0.0034	23589	7.01E-01
TP73	0.0064	0.0039	42343	3.69E-01	0.0192	0.0147	23314	2.47E-01	-0.0065	0.0036	23671	8.85E-02	-0.0062	0.0047	23685	2.42E-01	-0.0062	0.0061	23684	3.66E-01
ANKMY2	0.0151	0.0092	42274	3.71E-01	0.0459	0.0062	23352	5.32E-13	0.0175	0.0015	23710	1.72E-29	0.0203	0.0020	23723	3.82E-23	0.0204	0.0026	23722	1.33E-14
SCARB2	-0.0060	0.0037	48642	3.72E-01	0.0965	0.0131	27647	5.33E-13	0.0219	0.0032	28082	1.79E-11	0.0182	0.0042	28097	2.99E-05	0.0448	0.0054	28096	5.19E-16
SIGLEC9	-0.0057	0.0035	50324	3.72E-01	0.0475	0.0139	28535	1.12E-03	0.0196	0.0034	28983	1.63E-08	0.0095	0.0045	29000	4.76E-02	0.0161	0.0057	28999	7.93E-03
ICA1	0.0151	0.0092	49043	3.77E-01	0.0586	0.0053	27807	1.72E-27	0.0144	0.0013	28251	6.21E-28	0.0156	0.0017	28266	2.01E-19	0.0151	0.0022	28265	1.73E-11
KITLG	0.0071	0.0044	49984	3.77E-01	0.0582	0.0111	28340	3.74E-07	-0.0426	0.0027	28785	3.09E-55	-0.0285	0.0036	28801	3.11E-15	-0.0371	0.0046	28800	1.82E-15
PARD3	0.0138	0.0084	42740	3.77E-01	0.0184	0.0068	23551	1.06E-02	0.0133	0.0017	23912	2.09E-15	0.0151	0.0022	23927	1.02E-11	0.0176	0.0028	23926	9.31E-10
CD5L	0.0087	0.0054	43366	3.77E-01	0.0018	0.0104	23928	8.98E-01	0.0105	0.0026	24299	6.66E-05	0.0126	0.0034	24314	3.46E-04	0.0156	0.0043	24313	5.85E-04
TGFB2	0.0098	0.0060	43331	3.78E-01	0.0004	0.0094	23884	9.75E-01	0.0080	0.0023	24254	9.03E-04	0.0080	0.0030	24269	1.33E-02	0.0094	0.0039	24268	2.51E-02
PNLIPRP1	-0.0147	0.0090	43426	3.78E-01	-0.0101	0.0062	23934	1.44E-01	0.0158	0.0015	24305	1.15E-24	0.0162	0.0020	24320	2.45E-15	0.0248	0.0026	24319	2.60E-21
PPY	0.0193	0.0119	49891	3.79E-01	-0.0356	0.0041	28263	1.30E-17	0.0472	0.0010	28706	0.00E+00	0.0620	0.0013	28723	0.00E+00	0.0903	0.0016	28722	0.00E+00
TNFRSF4	-0.0071	0.0044	50446	3.82E-01	-0.0099	0.0107	28610	4.31E-01	-0.0067	0.0026	29064	1.60E-02	-0.0059	0.0035	29081	1.22E-01	-0.0002	0.0045	29080	9.78E-01
SF3B4	0.0139	0.0086	49744	3.82E-01	0.0423	0.0057	28212	5.57E-13	-0.0039	0.0014	28661	8.30E-03	-0.0059	0.0018	28678	2.15E-03	-0.0098	0.0024	28677	6.92E-05
CA9	0.0086	0.0053	50397	3.82E-01	-0.1216	0.0090	28576	3.65E-40	-0.0129	0.0022	29025	8.88E-09	-0.0114	0.0029	29042	1.48E-04	0.0054	0.0037	29041	1.89E-01
SMS	0.0119	0.0073	42120	3.82E-01	0.0259	0.0079	23217	1.91E-03	0.0164	0.0019	23575	9.58E-17	0.0199	0.0026	23590	2.34E-14	0.0210	0.0033	23589	5.22E-10
PTPRS	0.0046	0.0028	50594	3.82E-01	-0.0057	0.0169	28667	7.90E-01	-0.0543	0.0041	29116	6.99E-39	-0.0537	0.0054	29132	1.91E-22	-0.0395	0.0070	29131	3.55E-08
LRIG3	0.0052	0.0032	42126	3.83E-01	0.0430	0.0181	23302	2.80E-02	0.0306	0.0045	23659	1.68E-11	0.0298	0.0059	23672	8.56E-07	0.0486	0.0076	23671	3.47E-10
SKIV2L	0.0074	0.0046	42109	3.83E-01	-0.0149	0.0128	23248	3.09E-01	-0.0037	0.0031	23603	2.86E-01	-0.0062	0.0041	23617	1.74E-01	-0.0080	0.0053	23616	1.73E-01
MTPN	0.0061	0.0038	49059	3.85E-01	0.0423	0.0130	27799	2.10E-03	0.0154	0.0032	28234	2.70E-06	0.0181	0.0042	28248	3.07E-05	0.0167	0.0054	28247	3.36E-03
MTHFD2	0.0048	0.0030	43426	3.86E-01	0.0345	0.0192	23934	1.04E-01	-0.0116	0.0047	24305	1.95E-02	-0.0084	0.0062	24320	2.25E-01	-0.0165	0.0080	24319	5.54E-02
TMPRSS5	0.0073	0.0045	49350	3.86E-01	-0.0152	0.0109	27951	2.16E-01	-0.0366	0.0027	28392	4.18E-42	-0.0405	0.0035	28408	3.96E-30	-0.0423	0.0045	28407	3.43E-20
CREB3	0.0102	0.0063	41982	3.86E-01	0.0040	0.0090	23146	7.18E-01	-0.0005	0.0022	23506	8.64E-01	0.0002	0.0029	23521	9.62E-01	-0.0024	0.0037	23520	5.91E-01
FCAR	-0.0090	0.0056	49907	3.86E-01	0.0604	0.0087	28300	1.27E-11	0.0122	0.0021	28746	1.85E-08	0.0022	0.0028	28762	4.87E-01	0.0132	0.0036	28761	4.33E-04
COL15A1	-0.0051	0.0031	43537	3.86E-01	0.0473	0.0177	24024	1.26E-02	0.0381	0.0043	24398	5.32E-18	0.0417	0.0057	24413	9.25E-13	0.0539	0.0074	24412	8.02E-13
PEPD	0.0048	0.0030	43572	3.86E-01	0.1549	0.0188	24036	6.10E-16	0.0173	0.0046	24408	2.96E-04	0.0232	0.0061	24423	2.41E-04	0.0074	0.0078	24422	4.07E-01
DFFA	0.0125	0.0078	50529	3.87E-01	0.0630	0.0061	28636	3.21E-24	0.0137	0.0015	29090	1.49E-19	0.0144	0.0020	29107	8.45E-13	0.0158	0.0025	29106	1.23E-09

HNRNPK	0.0145	0.0090	48898	3.87E-01	0.0540	0.0054	27670	1.23E-22	0.0126	0.0013	28105	8.20E-21	0.0124	0.0017	28119	3.57E-12	0.0148	0.0022	28118	1.23E-10
PIBF1	0.0143	0.0089	43455	3.87E-01	0.0533	0.0063	23960	1.09E-16	0.0224	0.0015	24328	6.67E-47	0.0234	0.0020	24343	9.33E-30	0.0294	0.0026	24342	1.46E-28
SERPINA7	-0.0034	0.0021	43602	3.87E-01	0.1354	0.0262	24051	5.52E-07	0.0185	0.0064	24424	5.90E-03	0.0093	0.0085	24439	3.28E-01	0.0323	0.0109	24438	4.96E-03
NCAM1	0.0057	0.0036	50176	3.87E-01	-0.0278	0.0135	28453	5.88E-02	-0.0354	0.0033	28897	2.24E-26	-0.0456	0.0043	28913	3.25E-25	-0.0555	0.0056	28912	1.13E-22
MMP12	0.0101	0.0063	50011	3.87E-01	0.0682	0.0076	28328	2.24E-18	-0.0039	0.0019	28773	5.08E-02	-0.0033	0.0025	28790	2.35E-01	0.0097	0.0032	28789	3.80E-03
NAA80	0.0222	0.0139	42343	3.87E-01	0.0356	0.0041	23314	3.94E-17	0.0171	0.0010	23671	8.03E-63	0.0182	0.0013	23685	5.23E-41	0.0189	0.0017	23684	2.77E-27
PLIN1	0.0068	0.0043	48799	3.87E-01	0.0740	0.0116	27661	4.59E-10	0.0656	0.0028	28098	1.49E-117	0.0647	0.0037	28115	3.72E-66	0.0958	0.0048	28114	1.47E-87
PPP1R12B	0.0131	0.0082	42740	3.87E-01	0.0262	0.0069	23551	2.92E-04	0.0096	0.0017	23912	3.14E-08	0.0084	0.0022	23927	2.93E-04	0.0129	0.0029	23926	1.39E-05
ELOA	-0.0102	0.0064	49744	3.87E-01	0.0276	0.0079	28212	8.96E-04	0.0147	0.0019	28661	7.41E-14	0.0093	0.0025	28678	4.63E-04	0.0232	0.0033	28677	3.69E-12
MYO6	0.0067	0.0042	43455	3.88E-01	0.0588	0.0132	23960	1.93E-05	0.0050	0.0033	24328	1.59E-01	0.0054	0.0043	24343	2.55E-01	0.0057	0.0055	24342	3.60E-01
CCN2	0.0105	0.0066	49943	3.88E-01	0.1278	0.0073	28344	1.58E-66	0.0143	0.0018	28789	4.43E-15	0.0168	0.0024	28805	2.88E-12	0.0146	0.0030	28804	3.49E-06
UBXN1	0.0127	0.0080	42580	3.88E-01	0.0893	0.0071	23496	5.88E-35	0.0096	0.0018	23858	7.59E-08	0.0101	0.0023	23871	2.15E-05	0.0131	0.0030	23870	1.90E-05
CTF1	0.0156	0.0097	49059	3.88E-01	0.0518	0.0050	27799	7.10E-24	0.0142	0.0012	28234	9.48E-30	0.0149	0.0016	28248	1.86E-19	0.0147	0.0021	28247	6.31E-12
RGCC	0.0139	0.0087	43455	3.88E-01	0.0600	0.0065	23960	7.52E-20	0.0222	0.0016	24328	5.63E-44	0.0242	0.0021	24343	2.31E-30	0.0264	0.0027	24342	3.16E-22
EIF4B	0.0106	0.0067	49589	3.88E-01	0.0630	0.0073	28083	1.61E-17	0.0183	0.0018	28527	2.32E-24	0.0176	0.0023	28543	1.63E-13	0.0188	0.0030	28542	1.03E-09
IL6R	-0.0063	0.0040	49688	3.88E-01	0.0920	0.0123	28235	2.24E-13	0.0194	0.0030	28671	2.04E-10	0.0150	0.0040	28686	2.55E-04	0.0204	0.0051	28685	1.10E-04
BCHE	0.0053	0.0033	42768	3.88E-01	0.1229	0.0172	23634	3.24E-12	0.1053	0.0042	24000	6.39E-136	0.1095	0.0056	24015	2.95E-84	0.1038	0.0072	24014	2.45E-46
NFE2	0.0138	0.0086	42387	3.88E-01	0.0451	0.0066	23360	2.57E-11	0.0211	0.0016	23719	9.97E-38	0.0224	0.0021	23733	7.85E-25	0.0275	0.0028	23732	9.08E-23
LAMP1	-0.0051	0.0032	42320	3.88E-01	0.1163	0.0180	23364	2.73E-10	0.0500	0.0044	23730	2.97E-29	0.0410	0.0058	23745	4.42E-12	0.0281	0.0075	23744	3.05E-04
SLC4A1	0.0087	0.0055	43537	3.88E-01	-0.0431	0.0104	24024	7.00E-05	-0.0187	0.0026	24398	5.34E-13	-0.0206	0.0034	24413	1.99E-09	-0.0197	0.0043	24412	1.08E-05
SNRNP2	-0.0083	0.0052	43426	3.88E-01	0.0418	0.0117	23934	6.34E-04	0.0066	0.0029	24305	2.81E-02	-0.0022	0.0038	24320	6.20E-01	0.0171	0.0048	24319	7.03E-04
SELENOP	0.0041	0.0026	43602	3.88E-01	0.0351	0.0217	24051	1.48E-01	0.0611	0.0053	24424	6.23E-30	0.0544	0.0070	24439	2.34E-14	0.0440	0.0090	24438	2.14E-06
ADAM12	-0.0066	0.0042	42274	3.88E-01	0.0081	0.0137	23352	6.30E-01	0.0249	0.0034	23710	3.84E-13	0.0116	0.0045	23723	1.41E-02	0.0235	0.0057	23722	7.13E-05
CD86	-0.0054	0.0034	43346	3.88E-01	0.0071	0.0165	23893	7.29E-01	0.0072	0.0040	24266	9.65E-02	0.0006	0.0053	24281	9.23E-01	0.0039	0.0068	24280	6.28E-01
GABRA4	-0.0116	0.0073	42120	3.88E-01	0.0029	0.0078	23217	7.68E-01	0.0038	0.0019	23575	6.68E-02	0.0051	0.0025	23590	6.22E-02	0.0045	0.0032	23589	2.08E-01
DCLRE1C	0.0057	0.0036	41982	3.88E-01	-0.0014	0.0165	23146	9.49E-01	-0.0050	0.0040	23506	2.60E-01	-0.0022	0.0053	23521	7.36E-01	-0.0016	0.0068	23520	8.47E-01
VCPKMT	0.0157	0.0099	41982	3.90E-01	0.0120	0.0059	23146	6.25E-02	0.0010	0.0014	23506	5.63E-01	0.0012	0.0019	23521	5.95E-01	0.0018	0.0025	23520	5.40E-01
TXLNA	0.0164	0.0103	49589	3.91E-01	0.0386	0.0047	28083	7.45E-16	0.0209	0.0011	28527	4.06E-73	0.0219	0.0015	28543	1.47E-46	0.0255	0.0019	28542	2.12E-38
GNGT1	0.0093	0.0059	42343	3.91E-01	-0.0171	0.0098	23314	1.16E-01	-0.0028	0.0024	23671	2.97E-01	-0.0031	0.0032	23685	3.98E-01	-0.0007	0.0041	23684	8.96E-01
DDHD2	0.0121	0.0076	43455	3.91E-01	0.0579	0.0073	23960	7.61E-15	0.0227	0.0018	24328	2.97E-36	0.0243	0.0024	24343	2.98E-24	0.0261	0.0030	24342	2.14E-17
FLRT2	-0.0052	0.0033	49589	3.91E-01	-0.0835	0.0148	28083	4.75E-08	-0.0085	0.0036	28527	2.74E-02	-0.0150	0.0048	28543	2.83E-03	0.0115	0.0062	28542	8.40E-02
DNAJC6	0.0154	0.0097	42387	3.91E-01	0.0349	0.0059	23360	6.55E-09	0.0174	0.0014	23719	8.73E-33	0.0171	0.0019	23733	1.03E-18	0.0218	0.0024	23732	2.10E-18
CLEC4C	-0.0085	0.0054	49907	3.93E-01	0.0225	0.0090	28300	1.94E-02	0.0014	0.0022	28746	5.80E-01	-0.0002	0.0029	28762	9.67E-01	-0.0018	0.0037	28761	6.80E-01
LXN	0.0124	0.0079	49354	3.94E-01	-0.0075	0.0063	27983	3.00E-01	-0.0169	0.0015	28427	4.04E-27	-0.0179	0.0020	28443	4.79E-18	-0.0200	0.0026	28442	5.94E-14
GSN	0.0034	0.0022	43414	3.94E-01	-0.0606	0.0257	23933	2.87E-02	-0.0466	0.0063	24304	2.98E-13	-0.0353	0.0083	24319	4.07E-05	-0.0477	0.0107	24318	1.49E-05
RBP7	-0.0114	0.0072	43346	3.95E-01	0.1133	0.0079	23893	4.88E-45	0.0053	0.0019	24266	9.21E-03	0.0015	0.0026	24281	6.17E-01	0.0008	0.0033	24280	8.43E-01
CASP2	0.0124	0.0079	49907	3.95E-01	0.0720	0.0061	28300	5.69E-31	0.0192	0.0015	28746	8.51E-37	0.0221	0.0020	28762	2.12E-28	0.0217	0.0025	28761	4.78E-17
PRUNE2	-0.0052	0.0033	42740	3.95E-01	-0.0157	0.0172	23551	4.35E-01	0.0249	0.0042	23912	6.97E-09	0.0195	0.0056	23927	7.63E-04	0.0188	0.0071	23926	1.31E-02
CRTAC1	0.0054	0.0035	50594	3.95E-01	0.0096	0.0138	28667	5.59E-01	-0.0121	0.0034	29116	5.37E-04	-0.0011	0.0044	29132	8.39E-01	-0.0118	0.0057	29131	5.46E-02
KIT	0.0054	0.0034	50096	3.97E-01	0.0544	0.0139	28410	1.89E-04	-0.0573	0.0034	28851	2.74E-62	-0.0595	0.0045	28867	5.44E-39	-0.0813	0.0058	28866	5.66E-44
CKAP4	-0.0050	0.0032	50288	3.97E-01	0.0240	0.0151	28532	1.53E-01	-0.0004	0.0037	28985	9.31E-01	-0.0082	0.0049	29001	1.23E-01	0.0295	0.0062	29000	4.66E-06
TARM1	0.0139	0.0088	42343	3.97E-01	-0.0067	0.0065	23314	3.72E-01	0.0026	0.0016	23671	1.32E-01	0.0012	0.0021	23685	6.19E-01	0.0001	0.0027	23684	9.85E-01
CD59	-0.0042	0.0027	48184	3.98E-01	0.2063	0.0184	27196	2.79E-28	0.0042	0.0045	27616	3.99E-01	0.0072	0.0059	27629	2.78E-01	0.0377	0.0076	27628	1.52E-06

REN	-0.0137	0.0087	49984	3.98E-01	0.0494	0.0055	28340	1.06E-18	0.0136	0.0013	28785	1.37E-23	0.0128	0.0018	28801	1.29E-12	0.0173	0.0023	28800	6.59E-04
MRPL58	0.0128	0.0082	43455	3.98E-01	0.0570	0.0069	23960	6.99E-16	0.0115	0.0017	24328	2.81E-11	0.0153	0.0022	24343	1.68E-11	0.0162	0.0029	24342	3.95E-08
TJAP1	0.0152	0.0097	50125	3.98E-01	0.0340	0.0049	28423	1.70E-11	0.0209	0.0012	28868	4.86E-66	0.0217	0.0016	28885	2.11E-41	0.0253	0.0020	28884	2.50E-34
GRP	0.0096	0.0061	42387	3.98E-01	-0.0083	0.0093	23360	4.49E-01	0.0319	0.0023	23719	5.36E-43	0.0419	0.0030	23733	1.40E-42	0.0716	0.0039	23732	1.78E-74
KIAA1549	0.0125	0.0079	42740	3.98E-01	-0.0019	0.0072	23551	8.35E-01	0.0071	0.0018	23912	1.04E-04	0.0080	0.0023	23927	1.07E-03	0.0109	0.0030	23926	4.60E-04
SNX15	0.0099	0.0063	42580	4.01E-01	0.0635	0.0091	23496	8.99E-12	0.0047	0.0022	23858	4.85E-02	0.0019	0.0029	23871	5.73E-01	0.0074	0.0038	23870	7.09E-02
ATXN2L	0.0086	0.0055	43455	4.01E-01	0.0635	0.0102	23960	1.33E-09	0.0305	0.0025	24328	8.77E-34	0.0317	0.0033	24343	2.12E-21	0.0348	0.0042	24342	6.75E-16
ITGB1BP1	0.0074	0.0047	48785	4.01E-01	0.0448	0.0105	27677	4.23E-05	0.0148	0.0026	28109	1.93E-08	0.0192	0.0034	28125	3.71E-08	0.0227	0.0044	28124	4.80E-07
SLAMF1	-0.0107	0.0069	49043	4.01E-01	-0.0062	0.0072	27807	4.64E-01	0.0079	0.0018	28251	1.31E-05	0.0045	0.0023	28266	7.12E-02	0.0104	0.0030	28265	8.06E-04
RGMA	0.0057	0.0036	50415	4.01E-01	-0.1338	0.0131	28544	9.73E-24	-0.0223	0.0032	28996	7.92E-12	-0.0249	0.0042	29013	7.88E-09	-0.0128	0.0054	29012	2.71E-02
GLOD4	0.0065	0.0041	49863	4.01E-01	0.1131	0.0117	28277	1.73E-21	0.0074	0.0029	28719	1.35E-02	0.0058	0.0038	28734	1.60E-01	0.0037	0.0048	28733	5.12E-01
CPXM1	-0.0124	0.0079	50125	4.02E-01	0.0822	0.0061	28423	2.15E-40	0.0094	0.0015	28868	6.45E-10	0.0107	0.0020	28885	9.89E-08	0.0086	0.0025	28884	1.21E-03
PM20D1	0.0334	0.0214	49747	4.02E-01	-0.0030	0.0023	28218	2.45E-01	0.0005	0.0006	28659	3.96E-01	-0.0005	0.0007	28675	5.29E-01	0.0003	0.0009	28674	7.75E-01
RNASE1	-0.0046	0.0030	43572	4.04E-01	0.1651	0.0190	24036	1.49E-17	0.0540	0.0047	24408	1.60E-30	0.0526	0.0061	24423	3.53E-17	0.0812	0.0079	24422	4.26E-24
SAMD9L	0.0131	0.0085	49907	4.04E-01	0.0549	0.0057	28300	3.72E-21	0.0176	0.0014	28746	1.95E-35	0.0180	0.0018	28762	7.32E-22	0.0221	0.0024	28761	4.12E-20
XRCC4	0.0066	0.0043	48799	4.04E-01	0.0841	0.0115	27661	9.60E-13	0.0214	0.0028	28098	1.15E-13	0.0226	0.0037	28115	3.22E-09	0.0233	0.0048	28114	2.44E-06
PNMA1	0.0100	0.0065	42387	4.04E-01	0.0614	0.0089	23360	1.57E-11	0.0225	0.0022	23719	3.19E-24	0.0257	0.0029	23733	2.48E-18	0.0272	0.0037	23732	8.10E-13
PRKCQ	0.0078	0.0050	49043	4.04E-01	0.0199	0.0098	27807	6.36E-02	0.0085	0.0024	28251	7.13E-04	0.0110	0.0032	28266	8.55E-04	0.0111	0.0041	28265	1.02E-02
NFIC	-0.0076	0.0049	43455	4.04E-01	0.0209	0.0111	23960	8.71E-02	0.0072	0.0027	24328	1.20E-02	0.0053	0.0036	24343	1.77E-01	0.0091	0.0046	24342	6.61E-02
IMPG1	-0.0053	0.0034	42120	4.06E-01	-0.0091	0.0170	23217	6.64E-01	-0.0049	0.0042	23575	2.90E-01	-0.0089	0.0055	23590	1.42E-01	-0.0077	0.0071	23589	3.39E-01
CC2D1A	0.0135	0.0087	49589	4.07E-01	0.0392	0.0056	28083	6.45E-12	0.0199	0.0014	28527	2.01E-47	0.0195	0.0018	28543	8.51E-27	0.0276	0.0023	28542	4.75E-32
SFRP4	-0.0075	0.0049	42580	4.07E-01	-0.0671	0.0117	23496	2.81E-08	0.0477	0.0029	23858	7.45E-61	0.0472	0.0038	23871	1.40E-34	0.0579	0.0049	23870	1.21E-31
CHRD12	-0.0096	0.0062	49984	4.07E-01	-0.0317	0.0078	28340	1.06E-04	0.0061	0.0019	28785	2.39E-03	0.0028	0.0025	28801	3.15E-01	0.0115	0.0032	28800	7.08E-04
LRP2	0.0065	0.0042	42343	4.07E-01	0.0111	0.0139	23314	5.00E-01	0.0009	0.0034	23671	8.31E-01	-0.0020	0.0045	23685	7.04E-01	-0.0043	0.0058	23684	5.24E-01
SNAP29	0.0162	0.0105	50125	4.08E-01	0.0482	0.0046	28423	2.85E-25	0.0213	0.0011	28868	7.02E-80	0.0221	0.0015	28885	6.18E-50	0.0240	0.0019	28884	4.46E-36
TSPAN7	-0.0165	0.0107	42120	4.08E-01	-0.0041	0.0054	23217	5.25E-01	0.0007	0.0013	23575	6.61E-01	0.0008	0.0017	23590	7.12E-01	-0.0010	0.0022	23589	7.17E-01
IL1RN	-0.0109	0.0071	49861	4.09E-01	0.0893	0.0068	28248	7.90E-38	0.0489	0.0017	28689	5.99E-188	0.0476	0.0022	28704	2.30E-102	0.0641	0.0028	28703	2.12E-112
HCLS1	0.0099	0.0064	50529	4.09E-01	0.0846	0.0073	28636	1.12E-29	0.0238	0.0018	29090	4.75E-39	0.0259	0.0024	29107	4.83E-27	0.0269	0.0030	29106	4.94E-18
SETMAR	-0.0056	0.0036	49426	4.09E-01	0.1285	0.0136	27999	1.67E-20	0.0476	0.0033	28441	1.28E-45	0.0466	0.0044	28457	1.01E-25	0.0767	0.0056	28456	3.27E-41
IGFBP4	-0.0079	0.0051	49355	4.09E-01	0.0661	0.0094	27844	5.44E-12	0.0049	0.0023	28285	4.55E-02	0.0022	0.0030	28301	5.34E-01	0.0032	0.0039	28300	4.81E-01
ADIPOQ	0.0126	0.0082	43602	4.09E-01	0.0397	0.0069	24051	1.88E-08	-0.0746	0.0016	24424	0.00E+00	-0.0826	0.0022	24439	1.68E-310	-0.0943	0.0028	24438	3.56E-243
TNFRSF13C	0.0076	0.0049	49043	4.09E-01	0.0416	0.0099	27807	5.80E-05	0.0198	0.0024	28251	1.25E-15	0.0211	0.0032	28266	1.18E-10	0.0287	0.0041	28265	9.50E-12
ARHGAP25	0.0107	0.0070	48785	4.11E-01	0.0352	0.0071	27677	1.48E-06	0.0214	0.0017	28109	2.92E-34	0.0212	0.0023	28125	9.63E-20	0.0283	0.0029	28124	3.01E-21
CD300A	-0.0054	0.0035	42580	4.11E-01	0.0739	0.0163	23496	1.30E-05	0.0147	0.0040	23858	3.89E-04	0.0110	0.0053	23871	5.20E-02	0.0258	0.0068	23870	2.52E-04
MAX	0.0186	0.0121	48799	4.12E-01	0.0496	0.0041	27661	2.62E-33	0.0117	0.0010	28098	2.52E-31	0.0122	0.0013	28115	6.57E-20	0.0123	0.0017	28114	1.26E-12
HMGCS1	0.0076	0.0050	42109	4.12E-01	0.0237	0.0117	23248	6.52E-02	-0.0021	0.0029	23603	5.26E-01	-0.0017	0.0038	23617	7.05E-01	-0.0042	0.0049	23616	4.60E-01
VIPR1	0.0043	0.0028	42387	4.12E-01	-0.0159	0.0202	23360	5.06E-01	-0.0161	0.0050	23719	1.93E-03	-0.0117	0.0066	23733	1.03E-01	-0.0215	0.0085	23732	1.68E-02
TRAF2	0.0127	0.0083	49907	4.12E-01	-0.0029	0.0058	28300	6.90E-01	0.0119	0.0014	28746	1.10E-16	0.0101	0.0019	28762	1.39E-07	0.0169	0.0024	28761	5.26E-12
DLG4	0.0125	0.0082	43426	4.13E-01	0.0472	0.0069	23934	2.12E-11	0.0217	0.0017	24305	2.89E-37	0.0254	0.0022	24320	1.76E-29	0.0269	0.0028	24319	1.80E-20
LZTFL1	0.0125	0.0082	42580	4.13E-01	0.0682	0.0069	23496	5.31E-22	0.0207	0.0017	23858	3.59E-33	0.0224	0.0022	23871	1.25E-22	0.0244	0.0029	23870	1.21E-16
MARCO	-0.0047	0.0031	49984	4.13E-01	0.0814	0.0157	28340	4.99E-07	0.0457	0.0038	28785	3.28E-32	0.0355	0.0050	28801	5.04E-12	0.0596	0.0065	28800	1.53E-19
UFD1	0.0244	0.0160	43346	4.13E-01	0.0296	0.0035	23893	1.54E-16	0.0157	0.0009	24266	5.49E-73	0.0168	0.0011	24281	1.23E-48	0.0186	0.0015	24280	2.62E-36
NEFL	0.0078	0.0051	48645	4.13E-01	0.0495	0.0096	27566	6.10E-07	-0.0353	0.0024	28001	7.15E-50	-0.0448	0.0031	28018	2.81E-46	-0.0380	0.0040	28017	7.28E-21

PTP4A3	-0.0092	0.0061	42274	4.13E-01	0.0487	0.0095	23352	6.30E-07	0.0174	0.0023	23710	1.44E-13	0.0131	0.0031	23723	3.81E-05	0.0140	0.0039	23722	6.66E-04
HBZ	0.0185	0.0121	43535	4.13E-01	-0.0105	0.0047	24011	3.77E-02	-0.0080	0.0011	24384	5.04E-12	-0.0094	0.0015	24399	7.49E-10	-0.0131	0.0019	24398	3.34E-11
MEPE	-0.0045	0.0029	49941	4.13E-01	-0.0215	0.0164	28321	2.47E-01	0.0045	0.0040	28766	3.15E-01	0.0127	0.0053	28782	2.39E-02	0.0145	0.0068	28781	4.75E-02
CASP8	0.0110	0.0072	50251	4.14E-01	0.0574	0.0067	28487	4.34E-17	0.0051	0.0016	28934	2.76E-03	0.0038	0.0022	28951	1.11E-01	0.0042	0.0028	28950	1.67E-01
PLXDC1	-0.0060	0.0039	48785	4.14E-01	-0.1078	0.0129	27677	2.38E-16	0.0029	0.0032	28109	4.12E-01	0.0092	0.0042	28125	3.97E-02	0.0100	0.0054	28124	8.65E-02
CPVL	-0.0071	0.0047	50314	4.14E-01	-0.0336	0.0102	28514	1.84E-03	0.0143	0.0025	28962	2.15E-08	0.0137	0.0033	28979	6.17E-05	0.0238	0.0042	28978	4.64E-08
GLT8D2	-0.0082	0.0054	48799	4.14E-01	-0.0107	0.0090	27661	3.02E-01	-0.0001	0.0022	28098	9.58E-01	-0.0005	0.0029	28115	8.93E-01	0.0003	0.0038	28114	9.57E-01
MMP10	-0.0105	0.0069	49861	4.14E-01	0.0001	0.0070	28308	9.90E-01	-0.0300	0.0017	28753	5.55E-67	-0.0314	0.0023	28769	8.67E-43	-0.0348	0.0029	28768	4.46E-32
FKBP1B	0.0195	0.0129	50124	4.14E-01	0.0319	0.0037	28431	4.72E-17	0.0129	0.0009	28881	4.25E-44	0.0144	0.0012	28898	2.93E-32	0.0145	0.0015	28897	4.90E-20
ANPEP	-0.0049	0.0032	50094	4.15E-01	0.0788	0.0150	28392	3.33E-07	0.0074	0.0037	28835	5.65E-02	-0.0116	0.0048	28851	2.40E-02	-0.0273	0.0062	28850	1.96E-05
NCF2	-0.0152	0.0100	49825	4.15E-01	0.0188	0.0049	28264	2.60E-04	0.0005	0.0012	28710	7.25E-01	-0.0023	0.0016	28726	1.87E-01	0.0059	0.0020	28725	5.95E-03
CCL19	0.0215	0.0142	50415	4.15E-01	0.0105	0.0034	28544	3.29E-03	0.0070	0.0008	28996	8.01E-17	0.0053	0.0011	29013	2.16E-06	0.0080	0.0014	29012	2.32E-08
RPE	0.0123	0.0081	42740	4.15E-01	0.0351	0.0070	23551	1.44E-06	0.0045	0.0017	23912	1.33E-02	0.0061	0.0023	23927	1.14E-02	0.0050	0.0029	23926	1.20E-01
EPO	0.0134	0.0089	49907	4.16E-01	-0.0360	0.0055	28300	1.55E-10	0.0172	0.0013	28746	5.52E-37	0.0108	0.0018	28762	2.18E-09	0.0348	0.0023	28761	2.63E-52
BOC	0.0041	0.0027	49059	4.16E-01	-0.0567	0.0181	27799	3.01E-03	-0.0384	0.0044	28234	8.57E-18	-0.0423	0.0058	28248	8.36E-13	-0.0417	0.0075	28247	5.00E-08
ATP6V1G2	0.0167	0.0110	42109	4.16E-01	0.0058	0.0051	23248	3.28E-01	0.0046	0.0013	23603	4.44E-04	0.0051	0.0017	23617	3.67E-03	0.0057	0.0021	23616	1.09E-02
MAP2K6	0.0175	0.0116	49907	4.17E-01	0.0473	0.0042	28300	5.55E-29	0.0114	0.0010	28746	1.83E-28	0.0123	0.0013	28762	2.07E-19	0.0108	0.0017	28761	9.75E-10
MMP1	0.0160	0.0106	48173	4.17E-01	0.0503	0.0047	27329	1.15E-25	0.0026	0.0012	27764	3.43E-02	0.0045	0.0015	27780	5.21E-03	0.0071	0.0020	27779	5.48E-04
MAP2K1	0.0111	0.0074	43346	4.17E-01	0.0691	0.0075	23893	2.13E-19	0.0157	0.0018	24266	4.66E-17	0.0161	0.0024	24281	8.77E-11	0.0195	0.0031	24280	1.11E-09
MLN	0.0156	0.0104	49907	4.17E-01	0.0416	0.0047	28300	2.11E-18	0.0068	0.0011	28746	6.92E-09	0.0059	0.0015	28762	1.52E-04	0.0053	0.0019	28761	9.73E-03
ASPSCR1	0.0118	0.0078	43455	4.17E-01	0.0564	0.0072	23960	1.60E-14	0.0154	0.0018	24328	7.70E-18	0.0169	0.0023	24343	9.41E-13	0.0195	0.0030	24342	1.54E-10
TCN2	-0.0052	0.0034	50513	4.17E-01	0.0811	0.0138	28607	1.10E-08	0.0170	0.0034	29054	8.73E-07	0.0155	0.0044	29069	8.76E-04	0.0353	0.0057	29068	1.65E-09
PRDX1	0.0157	0.0104	48558	4.17E-01	0.0272	0.0047	27553	1.95E-08	-0.0058	0.0012	27990	9.14E-07	-0.0036	0.0015	28005	2.83E-02	-0.0058	0.0020	28004	4.83E-03
CFD	-0.0035	0.0023	43602	4.17E-01	0.1298	0.0239	24051	1.39E-07	0.0330	0.0059	24424	3.71E-08	0.0340	0.0077	24439	2.05E-05	0.0590	0.0099	24438	6.82E-09
TUBB3	0.0049	0.0032	42120	4.17E-01	0.0548	0.0181	23217	4.25E-03	-0.0081	0.0044	23575	8.76E-02	-0.0063	0.0059	23590	3.40E-01	-0.0108	0.0075	23589	1.94E-01
KRT6C	0.0067	0.0044	42109	4.17E-01	-0.0345	0.0128	23248	1.13E-02	0.0023	0.0031	23603	5.27E-01	0.0064	0.0041	23617	1.58E-01	0.0061	0.0053	23616	3.08E-01
PAPPA	0.0081	0.0054	49043	4.17E-01	0.0236	0.0091	27807	1.58E-02	-0.0207	0.0022	28251	5.11E-20	-0.0190	0.0029	28266	2.23E-10	-0.0195	0.0038	28265	5.08E-07
GBP6	0.0077	0.0051	42109	4.17E-01	0.0212	0.0111	23248	8.00E-02	-0.0027	0.0027	23603	3.66E-01	-0.0021	0.0036	23617	6.16E-01	-0.0028	0.0046	23616	6.06E-01
MKI67	-0.0068	0.0046	42274	4.17E-01	-0.0233	0.0129	23352	1.03E-01	0.0015	0.0032	23710	6.77E-01	0.0005	0.0042	23723	9.19E-01	0.0121	0.0054	23722	3.57E-02
TNPO1	-0.0061	0.0040	42740	4.17E-01	-0.0142	0.0141	23551	3.85E-01	0.0049	0.0035	23912	1.93E-01	0.0048	0.0046	23927	3.56E-01	0.0025	0.0059	23926	7.28E-01
SCN3A	-0.0063	0.0042	42343	4.17E-01	0.0052	0.0134	23314	7.58E-01	-0.0023	0.0033	23671	5.31E-01	-0.0017	0.0043	23685	7.43E-01	-0.0042	0.0056	23684	5.23E-01
GIP	-0.0090	0.0060	42387	4.17E-01	-0.3650	0.0094	23360	7.70E-320	0.0766	0.0023	23719	9.96E-231	0.0970	0.0031	23733	1.63E-212	0.1619	0.0039	23732	0.00E+00
LYPD3	0.0059	0.0039	49733	4.18E-01	0.0136	0.0122	28208	3.34E-01	-0.0201	0.0030	28650	4.20E-11	-0.0324	0.0039	28667	6.37E-16	-0.0356	0.0051	28666	6.51E-12
DSG3	0.0059	0.0039	50234	4.18E-01	-0.1074	0.0122	28447	4.67E-18	-0.0196	0.0030	28894	1.15E-10	-0.0199	0.0039	28911	8.02E-07	-0.0248	0.0050	28910	1.87E-06
SLMAP	0.0145	0.0097	43346	4.18E-01	0.0413	0.0058	23893	4.13E-12	0.0167	0.0014	24266	3.65E-31	0.0196	0.0019	24281	8.98E-25	0.0265	0.0024	24280	3.82E-27
HSDL2	-0.0083	0.0055	42387	4.18E-01	0.0673	0.0103	23360	2.17E-10	0.0299	0.0025	23719	2.98E-31	0.0285	0.0033	23733	6.71E-17	0.0354	0.0043	23732	7.93E-16
TRIM25	0.0187	0.0125	43346	4.18E-01	0.0273	0.0045	23893	2.36E-09	0.0135	0.0011	24266	3.54E-34	0.0132	0.0014	24281	2.49E-19	0.0160	0.0019	24280	1.82E-17
NRCAM	-0.0049	0.0033	49984	4.18E-01	-0.0710	0.0147	28340	3.03E-06	0.0167	0.0036	28785	5.97E-06	-0.0131	0.0047	28801	8.60E-03	-0.0025	0.0061	28800	7.35E-01
LILRB1	-0.0048	0.0032	50594	4.18E-01	0.0709	0.0149	28667	4.09E-06	0.0175	0.0036	29116	2.57E-06	0.0064	0.0048	29132	2.28E-01	0.0201	0.0061	29131	1.78E-03
PTGDS	-0.0052	0.0034	49606	4.18E-01	-0.0352	0.0138	28167	1.75E-02	-0.0052	0.0034	28602	1.55E-01	-0.0217	0.0044	28617	2.12E-06	-0.0030	0.0057	28616	6.59E-01
TMEM132A	-0.0108	0.0072	42387	4.18E-01	0.0059	0.0080	23360	5.33E-01	-0.0018	0.0020	23719	4.18E-01	-0.0021	0.0026	23733	4.83E-01	-0.0009	0.0033	23732	8.35E-01
RFC4	0.0037	0.0025	43331	4.18E-01	0.0549	0.0232	23884	2.81E-02	0.0560	0.0057	24254	1.98E-22	0.0597	0.0075	24269	4.91E-15	0.0841	0.0096	24268	9.56E-18
SNX5	0.0051	0.0034	42387	4.22E-01	0.0794	0.0168	23360	5.08E-06	0.0345	0.0041	23719	2.15E-16	0.0450	0.0055	23733	5.69E-16	0.0479	0.0070	23732	2.41E-11

EXOSC10	0.0102	0.0068	42109	4.23E-01	0.0005	0.0084	23248	9.63E-01	0.0001	0.0021	23603	9.76E-01	0.0005	0.0027	23617	8.82E-01	0.0016	0.0035	23616	7.01E-01
REG1A	-0.0084	0.0057	49688	4.25E-01	0.0397	0.0085	28226	6.93E-06	-0.0165	0.0021	28663	6.78E-15	-0.0121	0.0028	28678	1.97E-05	-0.0058	0.0035	28677	1.37E-01
CD200	0.0046	0.0031	49907	4.25E-01	-0.0514	0.0156	28300	1.78E-03	-0.0841	0.0038	28746	2.02E-106	-0.1046	0.0050	28762	4.19E-95	-0.1159	0.0064	28761	7.98E-71
F13B	0.0044	0.0029	43366	4.25E-01	0.0326	0.0190	23928	1.21E-01	0.0446	0.0046	24299	2.84E-21	0.0395	0.0061	24314	2.85E-10	0.0411	0.0079	24313	3.90E-07
NDRG1	0.0117	0.0079	48799	4.25E-01	0.0089	0.0063	27661	2.15E-01	0.0030	0.0016	28098	7.00E-02	0.0006	0.0021	28115	8.02E-01	0.0037	0.0026	28114	2.12E-01
NME1	0.0036	0.0024	42274	4.25E-01	-0.0319	0.0231	23352	2.22E-01	-0.0012	0.0057	23710	8.55E-01	0.0097	0.0075	23723	2.49E-01	0.0067	0.0097	23722	5.53E-01
DCN	0.0039	0.0026	49059	4.26E-01	-0.2732	0.0187	27799	6.50E-47	-0.0209	0.0046	28234	8.72E-06	-0.0258	0.0060	28248	3.46E-05	-0.0214	0.0078	28247	8.93E-03
NXP3	-0.0052	0.0035	42274	4.26E-01	-0.1225	0.0163	23352	2.13E-13	-0.0476	0.0040	23710	8.69E-32	-0.0661	0.0053	23723	7.86E-35	-0.0792	0.0068	23722	1.73E-30
FAM3B	-0.0062	0.0042	49744	4.26E-01	-0.0842	0.0117	28212	2.10E-12	0.0357	0.0029	28661	4.04E-35	0.0363	0.0038	28678	2.08E-21	0.0897	0.0048	28677	1.13E-75
RAPGEF2	0.0090	0.0061	42740	4.26E-01	0.0516	0.0093	23551	6.78E-08	0.0230	0.0023	23912	1.74E-23	0.0236	0.0030	23927	1.24E-14	0.0280	0.0039	23926	1.27E-12
LRRFIP1	0.0084	0.0057	43331	4.26E-01	0.0409	0.0099	23884	7.43E-05	0.0227	0.0024	24254	2.94E-20	0.0233	0.0032	24269	9.52E-13	0.0326	0.0041	24268	7.46E-15
CDH5	-0.0051	0.0035	50594	4.26E-01	-0.0524	0.0137	28667	2.52E-04	-0.0132	0.0033	29116	1.34E-04	-0.0176	0.0044	29132	1.18E-04	-0.0260	0.0057	29131	8.14E-06
ADAM9	-0.0051	0.0034	43346	4.26E-01	-0.0296	0.0162	23893	9.77E-02	-0.0025	0.0040	24266	5.80E-01	-0.0055	0.0052	24281	3.49E-01	0.0029	0.0067	24280	7.16E-01
COL24A1	-0.0096	0.0065	43346	4.26E-01	0.0040	0.0088	23893	7.13E-01	-0.0043	0.0022	24266	6.35E-02	-0.0035	0.0029	24281	2.77E-01	-0.0038	0.0037	24280	3.63E-01
TEX101	-0.0085	0.0058	42343	4.27E-01	0.0018	0.0100	23314	8.92E-01	-0.0098	0.0025	23671	9.65E-05	-0.0089	0.0032	23685	9.05E-03	-0.0133	0.0041	23684	2.33E-03
EDIL3	-0.0063	0.0043	49059	4.27E-01	-0.1272	0.0115	27799	1.07E-27	-0.0016	0.0028	28234	6.24E-01	-0.0031	0.0037	28248	4.65E-01	0.0164	0.0047	28247	9.32E-04
MTDH	0.0157	0.0106	42274	4.27E-01	0.0549	0.0053	23352	6.92E-24	0.0220	0.0013	23710	5.39E-62	0.0250	0.0017	23723	6.96E-46	0.0284	0.0022	23722	2.85E-36
USP47	0.0146	0.0099	42109	4.27E-01	0.0172	0.0059	23248	5.99E-03	0.0020	0.0014	23603	2.12E-01	0.0026	0.0019	23617	2.25E-01	0.0018	0.0025	23616	5.25E-01
SMOC2	-0.0066	0.0045	50189	4.27E-01	-0.0258	0.0106	28442	2.47E-02	0.0352	0.0026	28888	7.34E-41	0.0354	0.0034	28904	2.63E-24	0.0409	0.0044	28903	7.91E-20
ANGPTL2	-0.0071	0.0048	50026	4.27E-01	-0.0054	0.0101	28358	6.64E-01	0.0590	0.0024	28802	3.68E-126	0.0458	0.0032	28818	2.82E-44	0.0497	0.0042	28817	8.09E-32
CASQ2	-0.0082	0.0056	42109	4.27E-01	-0.0116	0.0104	23248	3.32E-01	-0.0019	0.0025	23603	5.10E-01	-0.0016	0.0034	23617	6.96E-01	-0.0020	0.0043	23616	6.95E-01
CSPG5	-0.0083	0.0056	42120	4.27E-01	0.0204	0.0102	23217	6.77E-02	-0.0109	0.0025	23575	2.15E-05	-0.0115	0.0033	23590	7.90E-04	-0.0128	0.0042	23589	4.11E-03
TNFSF13	-0.0045	0.0031	50189	4.28E-01	0.1640	0.0155	28442	1.96E-25	0.0010	0.0038	28888	8.31E-01	0.0002	0.0050	28904	9.79E-01	0.0127	0.0064	28903	6.64E-02
SCN4B	-0.0072	0.0049	42387	4.29E-01	-0.0964	0.0117	23360	8.57E-16	0.0140	0.0029	23719	2.09E-06	0.0190	0.0038	23733	1.16E-06	0.0234	0.0049	23732	3.63E-06
SPRED2	0.0074	0.0051	42274	4.32E-01	0.0137	0.0112	23352	2.81E-01	0.0134	0.0028	23710	1.95E-06	0.0162	0.0036	23723	1.66E-05	0.0214	0.0047	23722	8.95E-06
EEF1D	0.0156	0.0107	43535	4.33E-01	0.0376	0.0052	24011	2.14E-12	0.0187	0.0013	24384	1.84E-47	0.0177	0.0017	24399	6.70E-25	0.0238	0.0022	24398	3.82E-27
HEBP1	0.0091	0.0062	49059	4.33E-01	0.0102	0.0080	27799	2.63E-01	-0.0073	0.0020	28234	3.01E-04	-0.0083	0.0026	28248	2.15E-03	-0.0093	0.0033	28247	8.22E-03
RASGRF1	0.0073	0.0050	41982	4.33E-01	-0.0076	0.0115	23146	5.85E-01	0.0002	0.0028	23506	9.43E-01	0.0012	0.0037	23521	7.80E-01	-0.0028	0.0048	23520	6.26E-01
RCOR1	-0.0076	0.0052	49059	4.33E-01	-0.0019	0.0096	27799	8.78E-01	0.0121	0.0023	28234	4.15E-07	0.0101	0.0031	28248	1.76E-03	0.0165	0.0040	28247	5.54E-05
SERPINA4	-0.0040	0.0027	42812	4.33E-01	-0.0392	0.0209	23656	8.87E-02	0.0860	0.0051	24025	3.14E-62	0.0836	0.0068	24040	3.19E-34	0.0830	0.0087	24039	7.12E-21
RGS10	0.0099	0.0068	43455	4.33E-01	0.0879	0.0082	23960	1.02E-25	0.0124	0.0020	24328	2.08E-09	0.0143	0.0027	24343	1.59E-07	0.0109	0.0034	24342	2.36E-03
NDUFB7	0.0148	0.0102	43346	4.33E-01	0.0579	0.0055	23893	6.88E-25	0.0178	0.0014	24266	7.30E-39	0.0195	0.0018	24281	7.45E-27	0.0215	0.0023	24280	3.14E-20
C3	-0.0080	0.0055	41378	4.33E-01	0.0915	0.0104	22912	9.30E-18	0.0514	0.0026	23275	9.01E-88	0.0503	0.0034	23290	2.18E-48	0.0612	0.0044	23289	2.13E-43
ZBTB16	0.0122	0.0084	48785	4.33E-01	0.0277	0.0059	27677	5.34E-06	0.0243	0.0014	28109	8.48E-63	0.0251	0.0019	28125	7.14E-39	0.0338	0.0024	28124	8.74E-43
PRELP	0.0039	0.0026	49941	4.33E-01	0.0287	0.0181	28321	1.56E-01	-0.0090	0.0044	28766	5.58E-02	-0.0082	0.0058	28782	2.07E-01	-0.0080	0.0075	28781	3.46E-01
SSH3	0.0049	0.0034	41982	4.33E-01	0.0270	0.0174	23146	1.64E-01	0.0052	0.0043	23506	2.61E-01	0.0125	0.0056	23521	3.86E-02	0.0083	0.0072	23520	3.06E-01
FGD3	0.0134	0.0092	43455	4.36E-01	0.0586	0.0061	23960	4.25E-21	0.0198	0.0015	24328	2.83E-39	0.0202	0.0020	24343	5.00E-24	0.0211	0.0025	24342	3.51E-16
SELE	-0.0088	0.0061	50594	4.36E-01	0.0383	0.0079	28667	2.61E-06	0.0405	0.0019	29116	1.64E-97	0.0406	0.0025	29132	7.62E-57	0.0454	0.0032	29131	3.47E-43
LILRA3	-0.0231	0.0159	43537	4.36E-01	0.0087	0.0036	24024	2.42E-02	-0.0006	0.0009	24398	5.80E-01	-0.0014	0.0012	24413	2.90E-01	0.0001	0.0015	24412	9.47E-01
DDA1	0.0066	0.0046	42109	4.36E-01	-0.0215	0.0127	23248	1.28E-01	0.0068	0.0031	23603	3.94E-02	0.0101	0.0041	23617	2.16E-02	0.0135	0.0053	23616	1.61E-02
BRD3	0.0080	0.0055	42109	4.36E-01	0.0021	0.0106	23248	8.79E-01	0.0018	0.0026	23603	5.47E-01	0.0022	0.0034	23617	5.84E-01	0.0034	0.0044	23616	5.05E-01
RBPMS	-0.0110	0.0076	42274	4.38E-01	0.0115	0.0078	23352	1.89E-01	0.0047	0.0019	23710	1.97E-02	0.0061	0.0025	23723	2.37E-02	0.0087	0.0033	23722	1.19E-02
PENK	-0.0051	0.0035	42580	4.38E-01	0.1753	0.0162	23496	2.36E-26	-0.0298	0.0040	23858	1.58E-13	-0.0422	0.0052	23871	2.71E-15	-0.0448	0.0067	23870	7.85E-11

RAB6A	-0.0079	0.0054	49907	4.38E-01	0.0192	0.0090	28300	5.10E-02	0.0001	0.0022	28746	9.62E-01	-0.0048	0.0029	28762	1.34E-01	-0.0068	0.0037	28761	9.48E-02
DNM1	0.0187	0.0130	43346	4.42E-01	0.0490	0.0043	23893	6.46E-29	0.0092	0.0011	24266	1.37E-17	0.0103	0.0014	24281	5.40E-13	0.0082	0.0018	24280	1.00E-05
TIA1	0.0202	0.0140	48507	4.42E-01	0.0427	0.0035	27443	1.39E-32	0.0126	0.0009	27867	4.02E-47	0.0133	0.0011	27881	1.16E-30	0.0138	0.0015	27880	2.92E-20
PLXNB3	0.0079	0.0055	49819	4.42E-01	0.1044	0.0089	28247	7.87E-31	0.0249	0.0022	28691	1.01E-29	0.0272	0.0029	28707	8.19E-21	0.0272	0.0037	28706	4.33E-13
LILRA2	-0.0062	0.0043	49982	4.42E-01	0.0509	0.0114	28299	1.85E-05	0.0268	0.0028	28747	3.66E-21	0.0137	0.0037	28764	3.52E-04	0.0274	0.0047	28763	1.81E-08
TSPAN15	0.0083	0.0058	42109	4.42E-01	-0.0170	0.0101	23248	1.29E-01	0.0009	0.0025	23603	7.53E-01	0.0006	0.0033	23617	8.85E-01	-0.0021	0.0042	23616	6.74E-01
CRIP2	0.0062	0.0043	49589	4.42E-01	0.0055	0.0113	28083	6.97E-01	0.0411	0.0028	28527	3.78E-49	0.0389	0.0036	28543	5.67E-26	0.0686	0.0047	28542	1.53E-47
CCL14	0.0067	0.0046	49854	4.42E-01	0.2285	0.0104	28307	5.78E-104	-0.0037	0.0026	28745	1.80E-01	0.0011	0.0034	28760	7.93E-01	0.0118	0.0043	28759	1.03E-02
CCL20	-0.0148	0.0103	50529	4.42E-01	0.0170	0.0046	28636	4.33E-04	0.0091	0.0011	29090	3.07E-15	0.0069	0.0015	29107	7.24E-06	0.0164	0.0019	29106	3.64E-17
TNNI3	0.0139	0.0097	49059	4.42E-01	-0.0009	0.0051	27799	8.90E-01	0.0028	0.0012	28234	3.08E-02	0.0036	0.0016	28248	4.25E-02	0.0069	0.0021	28247	1.84E-03
OTOA	0.0087	0.0061	42120	4.42E-01	0.0012	0.0095	23217	9.23E-01	0.0000	0.0023	23575	9.88E-01	-0.0011	0.0031	23590	7.70E-01	-0.0021	0.0040	23589	6.52E-01
PER3	0.0196	0.0137	42274	4.42E-01	0.0239	0.0042	23352	3.24E-08	0.0048	0.0010	23710	6.29E-06	0.0043	0.0014	23723	2.37E-03	0.0036	0.0017	23722	5.93E-02
AP3B1	0.0127	0.0088	43346	4.43E-01	0.0633	0.0063	23893	9.50E-23	0.0227	0.0016	24266	1.74E-47	0.0242	0.0020	24281	2.81E-31	0.0283	0.0026	24280	4.62E-26
TRAF3	0.0061	0.0043	42274	4.46E-01	-0.0646	0.0139	23352	7.12E-06	0.0034	0.0034	23710	3.68E-01	-0.0076	0.0045	23723	1.21E-01	0.0139	0.0058	23722	2.44E-02
ADGRB3	0.0055	0.0039	49505	4.46E-01	-0.0132	0.0126	28036	3.64E-01	-0.0390	0.0031	28478	2.88E-36	-0.0464	0.0040	28494	9.46E-30	-0.0504	0.0052	28493	1.55E-21
IMMT	-0.0074	0.0052	43331	4.46E-01	0.1441	0.0109	23884	2.09E-38	0.0244	0.0027	24254	2.34E-19	0.0281	0.0035	24269	4.76E-15	0.0366	0.0045	24268	2.25E-15
MSTN	0.0087	0.0061	49059	4.46E-01	-0.0814	0.0081	27799	4.58E-23	0.0380	0.0020	28234	1.79E-81	0.0448	0.0026	28248	1.12E-65	0.0593	0.0033	28247	1.74E-69
NME3	0.0039	0.0027	50024	4.46E-01	0.1346	0.0175	28363	5.48E-14	-0.0474	0.0043	28808	8.09E-28	-0.0658	0.0056	28824	1.22E-30	-0.0745	0.0072	28823	5.00E-24
SIL1	-0.0053	0.0037	42387	4.46E-01	-0.0671	0.0156	23360	3.56E-05	0.0371	0.0038	23719	1.02E-21	0.0354	0.0051	23733	6.20E-12	0.0522	0.0065	23732	3.19E-15
SLC39A5	-0.0091	0.0063	49907	4.46E-01	-0.0121	0.0076	28300	1.55E-01	0.0403	0.0018	28746	6.34E-103	0.0489	0.0024	28762	1.21E-87	0.0598	0.0031	28761	2.38E-79
GCG	0.0210	0.0147	48785	4.46E-01	-0.0812	0.0033	27677	5.46E-129	0.0513	0.0008	28109	0.00E+00	0.0619	0.0010	28125	0.00E+00	0.0893	0.0013	28124	0.00E+00
GATA3	0.0043	0.0030	41982	4.47E-01	-0.0181	0.0193	23146	4.21E-01	0.0061	0.0047	23506	2.41E-01	0.0121	0.0062	23521	7.18E-02	0.0157	0.0080	23520	7.01E-02
CRKL	0.0175	0.0123	50022	4.47E-01	0.0444	0.0039	28356	4.69E-29	0.0129	0.0010	28799	8.99E-41	0.0139	0.0013	28815	1.38E-27	0.0139	0.0016	28814	3.37E-17
PEAR1	0.0037	0.0026	50594	4.48E-01	0.1671	0.0182	28667	2.35E-19	-0.0132	0.0045	29116	4.50E-03	-0.0156	0.0059	29132	1.20E-02	-0.0290	0.0075	29131	2.18E-04
UNG	0.0056	0.0039	43331	4.48E-01	0.0700	0.0144	23884	2.76E-06	0.0079	0.0035	24254	3.40E-02	0.0105	0.0047	24269	3.42E-02	0.0130	0.0060	24268	4.24E-02
ITGAM	-0.0053	0.0037	49982	4.48E-01	-0.0435	0.0131	28299	1.62E-03	0.0075	0.0032	28747	2.81E-02	0.0164	0.0042	28764	1.79E-04	0.0010	0.0054	28763	8.81E-01
NDUFA5	0.0058	0.0041	42202	4.49E-01	0.0945	0.0141	23314	5.64E-11	0.0244	0.0035	23671	4.08E-12	0.0328	0.0046	23684	2.01E-12	0.0342	0.0059	23683	1.30E-08
OSMR	-0.0033	0.0023	50261	4.49E-01	0.1671	0.0205	28487	1.65E-15	-0.0245	0.0050	28931	2.08E-06	-0.0448	0.0066	28947	3.13E-11	-0.0303	0.0085	28946	6.54E-04
ST6GAL1	-0.0049	0.0034	50594	4.50E-01	0.2859	0.0139	28667	1.69E-91	0.0492	0.0034	29116	5.46E-46	0.0228	0.0045	29132	8.22E-07	0.0388	0.0058	29131	6.06E-11
FADD	0.0125	0.0088	49984	4.50E-01	0.0634	0.0055	28340	4.48E-30	0.0110	0.0013	28785	5.52E-16	0.0114	0.0018	28801	2.27E-10	0.0105	0.0023	28800	6.92E-06
STK11	0.0120	0.0085	49059	4.50E-01	0.0456	0.0058	27799	1.24E-14	0.0185	0.0014	28234	2.05E-38	0.0184	0.0019	28248	2.23E-22	0.0205	0.0024	28247	3.62E-17
SLITRK6	0.0056	0.0040	49059	4.50E-01	-0.0506	0.0125	27799	9.70E-05	-0.0390	0.0030	28234	8.09E-37	-0.0427	0.0040	28248	7.56E-26	-0.0402	0.0052	28247	2.03E-14
DGKZ	0.0058	0.0041	49043	4.50E-01	0.0394	0.0120	27807	1.96E-03	0.0208	0.0029	28251	3.51E-12	0.0227	0.0039	28266	9.78E-09	0.0276	0.0050	28265	7.04E-08
FUT1	0.0101	0.0071	42659	4.50E-01	-0.0122	0.0078	23489	1.63E-01	-0.0034	0.0019	23850	1.02E-01	-0.0026	0.0025	23865	3.68E-01	-0.0045	0.0033	23864	2.18E-01
ST13	0.0092	0.0065	42580	4.50E-01	0.0491	0.0088	23496	5.49E-08	0.0036	0.0022	23858	1.26E-01	0.0000	0.0028	23871	9.90E-01	0.0033	0.0036	23870	4.32E-01
PTPRN2	-0.0054	0.0038	49426	4.50E-01	-0.0004	0.0126	27985	9.82E-01	-0.0816	0.0030	28426	3.05E-154	-0.1058	0.0040	28442	1.28E-149	-0.1118	0.0052	28441	5.55E-101
FOLR2	0.0049	0.0035	50415	4.51E-01	0.0089	0.0139	28544	5.93E-01	0.0053	0.0034	28996	1.54E-01	-0.0016	0.0045	29013	7.72E-01	0.0315	0.0057	29012	9.55E-08
CASP4	0.0271	0.0192	42740	4.51E-01	0.0011	0.0030	23551	7.74E-01	0.0007	0.0007	23912	3.76E-01	0.0006	0.0010	23927	5.88E-01	0.0000	0.0012	23926	9.98E-01
MAP4K5	0.0182	0.0129	49507	4.51E-01	0.0388	0.0038	28030	5.70E-24	0.0127	0.0009	28473	3.52E-42	0.0135	0.0012	28489	8.18E-28	0.0136	0.0016	28488	1.41E-17
GAD2	0.0074	0.0053	42274	4.51E-01	-0.0107	0.0109	23352	3.99E-01	-0.0033	0.0027	23710	2.68E-01	-0.0040	0.0035	23723	3.19E-01	-0.0057	0.0045	23722	2.58E-01
CDC26	0.0114	0.0081	43262	4.52E-01	0.0761	0.0069	23852	3.71E-27	0.0152	0.0017	24225	1.14E-18	0.0183	0.0022	24240	1.22E-15	0.0195	0.0029	24239	3.51E-11
CASC3	0.0068	0.0048	42343	4.52E-01	0.1136	0.0119	23314	9.48E-21	0.0324	0.0029	23671	5.72E-28	0.0357	0.0039	23685	8.78E-20	0.0415	0.0050	23684	2.15E-16
SOST	-0.0064	0.0045	49910	4.52E-01	0.0846	0.0107	28300	1.01E-14	0.0422	0.0026	28742	1.74E-57	0.0456	0.0034	28758	6.27E-39	0.0552	0.0044	28757	1.07E-34

SCN2B	0.0046	0.0033	42343	4.52E-01	-0.0211	0.0176	23314	2.91E-01	-0.0179	0.0043	23671	5.16E-05	-0.0186	0.0057	23685	1.69E-03	-0.0285	0.0073	23684	1.63E-04
VWC2L	0.0076	0.0054	43455	4.52E-01	0.0119	0.0105	23960	3.24E-01	-0.0293	0.0026	24328	1.09E-29	-0.0301	0.0034	24343	1.51E-18	-0.0361	0.0043	24342	3.21E-16
CEACAM20	0.0071	0.0050	42740	4.54E-01	-0.0989	0.0113	23551	1.06E-17	0.0250	0.0028	23912	7.92E-19	0.0254	0.0037	23927	1.12E-11	0.0490	0.0047	23926	1.50E-24
LILRB2	-0.0056	0.0040	50352	4.54E-01	0.0693	0.0120	28527	1.84E-08	0.0051	0.0029	28973	1.02E-01	-0.0050	0.0039	28987	2.46E-01	0.0094	0.0049	28986	7.85E-02
WARS	-0.0061	0.0044	49982	4.55E-01	0.1405	0.0109	28299	1.50E-36	0.0444	0.0027	28747	7.45E-61	0.0541	0.0035	28764	3.65E-52	0.0692	0.0045	28763	1.53E-51
TBCA	0.0138	0.0098	42580	4.55E-01	0.0538	0.0058	23496	6.68E-20	0.0054	0.0014	23858	2.54E-04	0.0054	0.0019	23871	5.98E-03	0.0063	0.0024	23870	1.45E-02
WFDC2	-0.0068	0.0048	47439	4.55E-01	0.0882	0.0103	26879	6.58E-17	-0.0372	0.0025	27287	1.44E-47	-0.0382	0.0034	27302	3.36E-29	-0.0257	0.0043	27301	6.26E-09
LAMP2	-0.0032	0.0023	48448	4.55E-01	0.1156	0.0218	27482	2.61E-07	0.1270	0.0053	27920	1.42E-125	0.1160	0.0070	27937	7.26E-61	0.1072	0.0090	27936	6.28E-32
SUSD5	0.0056	0.0040	42346	4.55E-01	-0.0450	0.0145	23393	3.42E-03	-0.0627	0.0035	23754	1.43E-68	-0.0613	0.0047	23767	4.65E-38	-0.0582	0.0060	23766	2.38E-21
TSPAN8	-0.0159	0.0114	43346	4.55E-01	-0.0066	0.0050	23893	2.39E-01	0.0091	0.0012	24266	1.64E-13	0.0051	0.0016	24281	2.47E-03	0.0081	0.0021	24280	1.37E-04
DHODH	-0.0075	0.0054	42109	4.55E-01	-0.0110	0.0108	23248	3.75E-01	0.0006	0.0026	23603	8.54E-01	0.0015	0.0035	23617	7.24E-01	0.0025	0.0045	23616	6.30E-01
CALCOCO1	0.0170	0.0122	50243	4.56E-01	0.0194	0.0039	28466	1.57E-06	0.0114	0.0010	28913	6.17E-32	0.0114	0.0013	28930	5.11E-19	0.0143	0.0016	28929	3.61E-18
CSF2	-0.0058	0.0041	42109	4.56E-01	-0.1157	0.0142	23248	1.20E-15	0.0284	0.0035	23603	7.52E-16	0.0234	0.0046	23617	6.82E-07	0.0320	0.0059	23616	1.28E-07
C4BPB	0.0065	0.0046	50125	4.56E-01	0.0210	0.0104	28423	6.54E-02	0.0076	0.0026	28868	4.23E-03	-0.0121	0.0034	28885	5.59E-04	-0.0008	0.0043	28884	8.80E-01
PPM1B	-0.0100	0.0071	42274	4.56E-01	0.0000	0.0081	23352	9.97E-01	-0.0002	0.0020	23710	9.51E-01	0.0000	0.0026	23723	9.92E-01	-0.0011	0.0034	23722	7.96E-01
CLC	-0.0109	0.0078	49907	4.57E-01	0.0333	0.0063	28291	3.24E-07	-0.0052	0.0015	28735	1.30E-03	-0.0026	0.0020	28750	2.56E-01	-0.0052	0.0026	28749	6.72E-02
METAP1	0.0048	0.0034	48799	4.57E-01	-0.0155	0.0143	27661	3.48E-01	0.0087	0.0035	28098	1.98E-02	0.0112	0.0046	28115	2.29E-02	0.0125	0.0060	28114	5.22E-02
NXPE4	0.0054	0.0039	42109	4.57E-01	-0.0068	0.0149	23248	7.11E-01	-0.0110	0.0036	23603	3.92E-03	-0.0153	0.0048	23617	2.45E-03	-0.0201	0.0062	23616	1.93E-03
ABRXAS2	0.0106	0.0076	42109	4.57E-01	0.0518	0.0075	23248	1.87E-11	0.0148	0.0018	23603	3.28E-15	0.0155	0.0024	23617	4.22E-10	0.0156	0.0031	23616	1.40E-06
PSMG3	0.0084	0.0060	49907	4.57E-01	-0.0098	0.0082	28300	2.95E-01	-0.0075	0.0020	28746	2.70E-04	-0.0111	0.0026	28762	4.71E-05	-0.0039	0.0034	28761	3.11E-01
HSP90B1	-0.0107	0.0077	48562	4.57E-01	0.0020	0.0064	27521	8.07E-01	0.0001	0.0016	27955	9.61E-01	0.0001	0.0021	27972	9.84E-01	0.0016	0.0027	27971	6.22E-01
CD3E	0.0056	0.0040	42740	4.58E-01	0.0288	0.0142	23551	6.26E-02	-0.0011	0.0035	23912	7.83E-01	-0.0018	0.0046	23927	7.43E-01	0.0030	0.0059	23926	6.69E-01
AIF1L	-0.0090	0.0065	42387	4.58E-01	0.0214	0.0088	23360	2.45E-02	0.0021	0.0022	23719	3.79E-01	0.0008	0.0029	23733	8.10E-01	0.0019	0.0037	23732	6.69E-01
TSLP	-0.0096	0.0069	49059	4.59E-01	-0.0098	0.0071	27799	2.19E-01	0.0044	0.0017	28234	1.65E-02	0.0044	0.0023	28248	7.29E-02	0.0085	0.0029	28247	5.98E-03
IL6	-0.0125	0.0090	49744	4.60E-01	0.0791	0.0054	28212	1.10E-47	0.0107	0.0013	28661	1.03E-15	0.0047	0.0017	28678	1.00E-02	0.0201	0.0022	28677	9.22E-19
ST8SIA1	-0.0077	0.0055	42274	4.61E-01	-0.0276	0.0103	23352	1.19E-02	0.0025	0.0025	23710	3.82E-01	0.0030	0.0034	23723	4.34E-01	0.0027	0.0043	23722	5.97E-01
SH3BP1	0.0078	0.0056	43346	4.61E-01	0.0199	0.0103	23893	7.90E-02	0.0194	0.0025	24266	3.83E-14	0.0179	0.0033	24281	1.70E-07	0.0286	0.0043	24280	6.74E-11
TMEM106A	0.0111	0.0081	43331	4.64E-01	0.0773	0.0070	23884	1.16E-27	0.0162	0.0017	24254	8.15E-21	0.0174	0.0023	24269	4.14E-14	0.0169	0.0029	24268	1.42E-08
PRKG1	0.0200	0.0145	42580	4.64E-01	0.0422	0.0039	23496	5.51E-26	0.0111	0.0010	23858	6.73E-30	0.0121	0.0013	23871	9.98E-21	0.0134	0.0016	23870	1.09E-15
CRYM	-0.0119	0.0086	42120	4.64E-01	0.0442	0.0066	23217	8.55E-11	0.0124	0.0016	23575	7.87E-14	0.0142	0.0022	23590	9.77E-11	0.0141	0.0028	23589	7.76E-07
FGF3	-0.0048	0.0035	42274	4.64E-01	-0.0262	0.0168	23352	1.64E-01	-0.0105	0.0041	23710	1.58E-02	-0.0124	0.0055	23723	3.29E-02	-0.0159	0.0070	23722	3.46E-02
GSTM4	0.0113	0.0082	42109	4.64E-01	-0.0016	0.0070	23248	8.62E-01	-0.0011	0.0017	23603	5.69E-01	-0.0010	0.0023	23617	7.12E-01	-0.0035	0.0029	23616	2.88E-01
STIP1	0.0105	0.0076	49900	4.67E-01	0.0530	0.0064	28245	3.45E-16	0.0109	0.0016	28692	7.30E-12	0.0101	0.0021	28709	1.61E-06	0.0129	0.0026	28708	2.18E-06
STAT5B	0.0217	0.0158	49744	4.67E-01	0.0284	0.0030	28212	5.98E-20	0.0105	0.0007	28661	1.83E-44	0.0105	0.0010	28678	4.87E-26	0.0109	0.0013	28677	1.82E-17
RRAS	0.0205	0.0149	42343	4.68E-01	0.0449	0.0038	23314	2.46E-30	0.0123	0.0009	23671	4.62E-38	0.0138	0.0012	23685	6.99E-28	0.0140	0.0016	23684	1.08E-17
TSPYL1	0.0064	0.0047	42274	4.68E-01	0.0992	0.0123	23352	3.17E-15	0.0120	0.0030	23710	1.39E-04	0.0147	0.0040	23723	4.33E-04	0.0152	0.0051	23722	5.02E-03
RABEP1	0.0124	0.0091	42580	4.68E-01	0.0467	0.0062	23496	2.26E-13	0.0159	0.0015	23858	1.33E-24	0.0171	0.0020	23871	8.65E-17	0.0216	0.0026	23870	2.92E-16
IFNL1	-0.0071	0.0052	48799	4.68E-01	0.0516	0.0094	27661	1.15E-07	-0.0048	0.0023	28098	5.01E-02	-0.0078	0.0031	28115	1.69E-02	-0.0054	0.0039	28114	2.13E-01
TNFRSF6B	-0.0090	0.0066	49589	4.68E-01	0.0204	0.0073	28083	8.97E-03	0.0103	0.0018	28527	1.71E-08	0.0086	0.0024	28543	4.74E-04	0.0113	0.0030	28542	3.59E-04
MCAM	0.0053	0.0039	50176	4.68E-01	-0.0099	0.0124	28453	5.01E-01	-0.0566	0.0030	28897	1.09E-76	-0.0692	0.0040	28913	3.96E-66	-0.0836	0.0051	28912	2.07E-58
CDC123	0.0101	0.0074	41982	4.68E-01	-0.0024	0.0081	23146	8.16E-01	0.0021	0.0020	23506	3.32E-01	0.0025	0.0026	23521	3.96E-01	0.0046	0.0034	23520	2.22E-01
PKD2	0.0093	0.0068	42109	4.71E-01	0.0679	0.0084	23248	3.43E-15	0.0178	0.0021	23603	2.77E-17	0.0167	0.0027	23617	2.33E-09	0.0247	0.0035	23616	5.98E-12
CEACAM8	-0.0081	0.0059	49059	4.74E-01	0.1467	0.0085	27799	1.53E-65	-0.0007	0.0021	28234	7.65E-01	0.0018	0.0027	28248	5.83E-01	0.0106	0.0035	28247	4.05E-03

CSPG4	-0.0052	0.0038	43537	4.74E-01	-0.0973	0.0146	24024	6.89E-11	-0.0377	0.0036	24398	1.33E-25	-0.0505	0.0047	24413	3.46E-26	-0.0472	0.0060	24412	1.96E-14
KLK14	0.0073	0.0054	50397	4.74E-01	0.0406	0.0089	28576	1.04E-05	-0.0328	0.0022	29025	1.82E-50	-0.0436	0.0029	29042	1.88E-51	-0.0490	0.0037	29041	1.37E-39
REEP4	0.0098	0.0072	43455	4.74E-01	0.0436	0.0078	23960	5.36E-08	0.0201	0.0019	24328	2.09E-25	0.0242	0.0025	24343	2.15E-21	0.0285	0.0032	24342	4.51E-18
NTF3	-0.0055	0.0041	49907	4.74E-01	-0.0475	0.0121	28300	1.70E-04	0.0042	0.0030	28746	1.96E-01	-0.0072	0.0039	28762	9.05E-02	-0.0025	0.0050	28761	6.69E-01
MERTK	0.0040	0.0029	50529	4.75E-01	0.0986	0.0163	28636	3.90E-09	-0.0283	0.0040	29090	3.27E-12	-0.0506	0.0052	29107	2.31E-21	-0.0593	0.0068	29106	6.67E-18
LTBR	-0.0045	0.0033	49698	4.75E-01	0.0420	0.0146	28199	6.81E-03	-0.0359	0.0036	28641	2.92E-23	-0.0454	0.0047	28656	1.83E-21	-0.0399	0.0060	28655	1.11E-10
MUC13	0.0080	0.0059	48799	4.75E-01	0.0013	0.0083	27661	9.03E-01	0.0583	0.0020	28098	1.10E-180	0.0631	0.0027	28115	7.09E-122	0.0928	0.0034	28114	1.86E-159
TBL1X	0.0133	0.0098	48785	4.76E-01	0.0520	0.0050	27677	1.99E-24	0.0149	0.0012	28109	6.30E-33	0.0154	0.0016	28125	1.17E-20	0.0151	0.0021	28124	1.29E-12
ADGRE5	-0.0048	0.0035	50352	4.76E-01	-0.0812	0.0135	28527	5.10E-09	0.0151	0.0033	28973	8.00E-06	-0.0047	0.0043	28987	3.37E-01	-0.0015	0.0056	28986	8.26E-01
PDGFRB	0.0054	0.0040	50594	4.76E-01	0.0100	0.0119	28667	4.77E-01	0.0002	0.0029	29116	9.55E-01	-0.0062	0.0038	29132	1.38E-01	-0.0080	0.0049	29131	1.40E-01
VTCN1	0.0050	0.0037	48785	4.76E-01	0.0053	0.0133	27677	7.54E-01	-0.0114	0.0033	28109	8.01E-04	-0.0099	0.0043	28125	3.16E-02	-0.0113	0.0055	28124	5.71E-02
STX16	0.0091	0.0067	48785	4.76E-01	0.0516	0.0073	27677	5.09E-12	0.0165	0.0018	28109	9.51E-20	0.0193	0.0024	28125	1.01E-15	0.0260	0.0030	28124	3.82E-17
CCL3	-0.0098	0.0072	49907	4.76E-01	0.0473	0.0068	28300	7.38E-12	0.0180	0.0017	28746	3.42E-27	0.0174	0.0022	28762	3.06E-15	0.0224	0.0028	28761	3.62E-15
ZP4	0.0051	0.0038	41982	4.76E-01	-0.0123	0.0160	23146	5.17E-01	-0.0059	0.0039	23506	1.68E-01	-0.0043	0.0052	23521	4.68E-01	-0.0054	0.0067	23520	4.86E-01
DCDC2C	0.0097	0.0072	41982	4.76E-01	-0.0049	0.0081	23146	6.20E-01	0.0026	0.0020	23506	2.36E-01	0.0049	0.0026	23521	8.22E-02	0.0063	0.0033	23520	8.20E-02
CPB1	-0.0091	0.0068	50594	4.76E-01	-0.0154	0.0070	28667	4.44E-02	0.0254	0.0017	29116	7.57E-49	0.0296	0.0023	29132	2.18E-38	0.0436	0.0029	29131	6.26E-50
BAP18	-0.0107	0.0079	43426	4.77E-01	0.0338	0.0073	23934	7.72E-06	0.0125	0.0018	24305	5.68E-12	0.0049	0.0024	24320	5.11E-02	0.0160	0.0030	24319	2.59E-07
BNIP3L	0.0070	0.0052	42274	4.77E-01	0.0489	0.0110	23352	2.00E-05	0.0148	0.0027	23710	9.57E-08	0.0156	0.0036	23723	2.78E-05	0.0267	0.0046	23722	1.68E-08
HCG22	0.0084	0.0062	42109	4.77E-01	-0.0016	0.0091	23248	8.93E-01	-0.0055	0.0022	23603	1.99E-02	-0.0054	0.0030	23617	9.40E-02	-0.0093	0.0038	23616	2.12E-02
DBN1	0.0080	0.0059	42274	4.77E-01	0.0475	0.0096	23352	1.85E-06	0.0205	0.0024	23710	1.59E-17	0.0244	0.0031	23723	2.25E-14	0.0274	0.0040	23722	3.03E-11
CA7	0.0053	0.0039	42740	4.78E-01	-0.0073	0.0146	23551	6.87E-01	-0.0068	0.0036	23912	7.65E-02	-0.0019	0.0047	23927	7.40E-01	-0.0059	0.0061	23926	3.94E-01
TDRKH	0.0133	0.0099	48799	4.79E-01	0.0413	0.0050	27661	2.89E-16	0.0195	0.0012	28098	9.49E-57	0.0208	0.0016	28115	1.63E-37	0.0271	0.0021	28114	1.97E-38
NACC1	0.0086	0.0064	43331	4.79E-01	0.0648	0.0089	23884	8.66E-13	0.0190	0.0022	24254	4.94E-18	0.0150	0.0029	24269	3.51E-07	0.0189	0.0037	24268	5.65E-07
PTPRC	-0.0035	0.0026	43537	4.80E-01	0.0116	0.0214	24024	6.58E-01	0.0463	0.0052	24398	2.81E-18	0.0391	0.0069	24413	3.27E-08	0.0526	0.0089	24412	7.82E-09
BTN1A1	-0.0061	0.0045	43250	4.80E-01	-0.0178	0.0123	23845	1.98E-01	-0.0019	0.0030	24214	5.90E-01	-0.0030	0.0040	24229	5.16E-01	-0.0007	0.0051	24228	9.07E-01
RAB2B	0.0094	0.0070	43331	4.80E-01	0.0749	0.0080	23884	2.45E-20	0.0195	0.0020	24254	6.09E-23	0.0209	0.0026	24269	1.35E-15	0.0230	0.0033	24268	9.55E-12
BCL2	0.0082	0.0062	43346	4.80E-01	0.0445	0.0092	23893	2.71E-06	0.0042	0.0023	24266	7.85E-02	-0.0002	0.0030	24281	9.68E-01	0.0066	0.0038	24280	1.12E-01
TARBP2	0.0124	0.0093	48799	4.81E-01	0.0479	0.0053	27661	8.28E-19	0.0204	0.0013	28098	2.00E-54	0.0209	0.0017	28115	4.58E-33	0.0233	0.0022	28114	3.89E-25
VAMP5	-0.0083	0.0062	49059	4.83E-01	0.0279	0.0079	27799	8.07E-04	0.0098	0.0019	28234	7.21E-07	0.0063	0.0026	28248	1.93E-02	0.0091	0.0033	28247	9.02E-03
CARHSP1	0.0081	0.0061	48799	4.83E-01	-0.0409	0.0083	27661	1.81E-06	-0.0138	0.0020	28098	2.53E-11	-0.0184	0.0027	28115	1.90E-11	-0.0164	0.0035	28114	3.82E-06
NFKB2	0.0086	0.0064	42740	4.83E-01	-0.0077	0.0089	23551	4.62E-01	0.0041	0.0022	23912	8.15E-02	0.0021	0.0029	23927	5.25E-01	0.0035	0.0037	23926	4.12E-01
ACADM	0.0106	0.0080	42740	4.83E-01	0.0231	0.0071	23551	2.01E-03	0.0045	0.0018	23912	1.44E-02	0.0056	0.0023	23927	2.18E-02	0.0053	0.0030	23926	1.01E-01
SERPINF2	-0.0021	0.0016	42784	4.84E-01	0.3448	0.0365	23615	1.77E-20	0.1309	0.0089	23982	1.22E-47	0.1169	0.0118	23997	1.60E-22	0.1230	0.0152	23996	1.83E-15
BAIAP2	-0.0101	0.0076	48785	4.84E-01	0.0319	0.0065	27677	2.41E-06	0.0399	0.0016	28109	6.74E-136	0.0361	0.0021	28125	2.09E-64	0.0468	0.0027	28124	1.74E-65
IST1	0.0150	0.0113	43037	4.84E-01	0.0574	0.0050	23733	7.06E-30	0.0115	0.0012	24103	1.70E-20	0.0112	0.0016	24118	1.00E-11	0.0100	0.0021	24117	3.06E-06
CLMP	-0.0035	0.0026	50397	4.87E-01	-0.0843	0.0179	28576	5.15E-06	0.0384	0.0044	29025	4.36E-18	0.0348	0.0058	29042	3.30E-09	0.0598	0.0074	29041	2.14E-15
BPIFA2	-0.0173	0.0131	40892	4.87E-01	-0.0113	0.0045	22559	2.09E-02	-0.0040	0.0011	22898	6.23E-04	-0.0056	0.0015	22912	2.36E-04	-0.0012	0.0019	22911	5.83E-01
SHBG	0.0083	0.0063	43572	4.87E-01	0.0550	0.0089	24036	1.86E-09	-0.0914	0.0021	24408	0.00E+00	-0.1001	0.0028	24423	2.39E-268	-0.1111	0.0036	24422	2.59E-199
GNPDA2	0.0056	0.0042	42580	4.88E-01	0.1010	0.0135	23496	2.14E-13	0.0170	0.0033	23858	4.79E-07	0.0220	0.0044	23871	9.04E-07	0.0209	0.0056	23870	3.52E-04
DNAJC21	0.0059	0.0044	43426	4.88E-01	0.0791	0.0127	23934	1.29E-09	0.0213	0.0031	24305	1.75E-11	0.0245	0.0041	24320	5.20E-09	0.0239	0.0053	24319	1.10E-05
WFDC1	-0.0082	0.0062	42465	4.88E-01	0.0344	0.0092	23440	3.80E-04	0.0127	0.0023	23802	3.83E-08	0.0151	0.0030	23817	8.49E-07	0.0203	0.0038	23816	2.71E-07
ACYP1	0.0101	0.0076	42422	4.88E-01	0.0498	0.0075	23416	1.06E-10	-0.0028	0.0018	23778	1.69E-01	-0.0036	0.0024	23790	1.80E-01	-0.0034	0.0031	23789	3.39E-01
SNX2	0.0124	0.0093	43331	4.88E-01	0.0271	0.0061	23884	1.73E-05	0.0066	0.0015	24254	1.57E-05	0.0089	0.0020	24269	9.77E-06	0.0081	0.0025	24268	2.11E-03

ERBB3	-0.0030	0.0022	49781	4.88E-01	0.2494	0.0216	28241	6.68E-30	0.0726	0.0053	28683	4.18E-42	0.0555	0.0070	28698	4.61E-15	0.0303	0.0090	28697	1.19E-03
NUDT15	-0.0078	0.0059	42109	4.88E-01	0.0218	0.0099	23248	4.34E-02	-0.0030	0.0024	23603	2.59E-01	-0.0076	0.0032	23617	2.53E-02	-0.0085	0.0041	23616	5.32E-02
CACNA1C	0.0049	0.0037	42120	4.89E-01	-0.0028	0.0155	23217	8.92E-01	-0.0036	0.0038	23575	3.94E-01	-0.0047	0.0050	23590	4.13E-01	-0.0067	0.0064	23589	3.57E-01
NECTIN1	0.0049	0.0037	42274	4.89E-01	-0.0058	0.0156	23352	7.69E-01	0.0006	0.0038	23710	8.99E-01	-0.0064	0.0051	23723	2.60E-01	-0.0132	0.0065	23722	5.98E-02
RBP2	-0.0119	0.0090	49744	4.90E-01	0.1836	0.0053	28212	1.29E-257	-0.0255	0.0013	28661	4.02E-83	-0.0234	0.0017	28678	8.41E-41	-0.0342	0.0022	28677	1.69E-52
TPD52L2	0.0163	0.0124	42580	4.90E-01	0.0550	0.0046	23496	7.86E-32	0.0147	0.0011	23858	8.79E-38	0.0161	0.0015	23871	2.96E-26	0.0154	0.0019	23870	2.95E-15
RELT	-0.0043	0.0033	49982	4.90E-01	0.1623	0.0143	28299	7.08E-29	0.0257	0.0035	28747	4.88E-13	0.0332	0.0046	28764	1.70E-12	0.0704	0.0059	28763	1.38E-31
CRNN	0.0101	0.0077	48525	4.91E-01	-0.0028	0.0065	27473	7.35E-01	-0.0102	0.0016	27904	2.50E-10	-0.0122	0.0021	27921	1.17E-08	-0.0160	0.0027	27920	5.10E-09
TGFA	0.0072	0.0055	49907	4.91E-01	0.2499	0.0086	28300	1.26E-180	0.0166	0.0021	28746	2.10E-14	0.0211	0.0028	28762	1.51E-13	0.0215	0.0036	28761	6.90E-09
HGS	0.0118	0.0090	48785	4.92E-01	0.0542	0.0054	27677	1.54E-22	0.0141	0.0013	28109	2.74E-25	0.0140	0.0018	28125	6.58E-15	0.0151	0.0023	28124	6.78E-11
CHGA	-0.0129	0.0098	43537	4.92E-01	-0.0404	0.0057	24024	2.89E-12	-0.0147	0.0014	24398	6.44E-26	-0.0115	0.0018	24413	7.94E-10	-0.0063	0.0023	24412	1.17E-02
SAT1	-0.0075	0.0057	42109	4.93E-01	-0.0109	0.0101	23248	3.47E-01	-0.0060	0.0025	23603	2.05E-02	-0.0070	0.0033	23617	4.58E-02	-0.0075	0.0042	23616	9.76E-02
IFNW1	0.0054	0.0041	42109	4.94E-01	0.0107	0.0141	23248	5.25E-01	-0.0043	0.0035	23603	2.54E-01	-0.0036	0.0046	23617	4.92E-01	-0.0087	0.0059	23616	1.78E-01
AFP	0.0102	0.0078	49426	4.95E-01	0.0755	0.0062	27999	1.30E-32	-0.0025	0.0015	28441	1.34E-01	-0.0053	0.0020	28457	1.29E-02	-0.0076	0.0026	28456	5.25E-03
TXNDC15	-0.0041	0.0032	50125	4.95E-01	0.1352	0.0152	28423	3.35E-18	0.0017	0.0037	28868	6.90E-01	-0.0219	0.0049	28885	1.64E-05	-0.0049	0.0063	28884	5.06E-01
ASAH2	-0.0082	0.0063	49589	4.95E-01	-0.0595	0.0078	28083	1.23E-13	0.0502	0.0019	28527	3.35E-150	0.0447	0.0025	28543	5.88E-69	0.0531	0.0032	28542	4.08E-59
DNAJC9	0.0116	0.0089	43346	4.95E-01	0.0477	0.0064	23893	2.32E-13	-0.0034	0.0016	24266	4.24E-02	-0.0053	0.0021	24281	1.60E-02	-0.0034	0.0026	24280	2.52E-01
ZNRF4	-0.0081	0.0062	43331	4.95E-01	0.0438	0.0091	23884	3.49E-06	0.0098	0.0022	24254	2.23E-05	0.0092	0.0030	24269	2.85E-03	0.0091	0.0038	24268	2.53E-02
LRP2BP	0.0123	0.0094	42343	4.95E-01	-0.0086	0.0061	23314	2.11E-01	0.0012	0.0015	23671	4.87E-01	0.0034	0.0020	23685	1.18E-01	0.0024	0.0025	23684	4.08E-01
CLSTN1	-0.0078	0.0060	48799	4.95E-01	0.0049	0.0083	27661	6.29E-01	0.0045	0.0020	28098	3.74E-02	0.0025	0.0027	28115	4.08E-01	0.0046	0.0035	28114	2.35E-01
FOLH1	-0.0160	0.0122	42274	4.96E-01	-0.0063	0.0047	23352	2.39E-01	0.0017	0.0012	23710	1.77E-01	0.0007	0.0015	23723	7.13E-01	-0.0010	0.0020	23722	6.66E-01
PDLIM5	0.0177	0.0136	43455	4.97E-01	0.0330	0.0041	23960	5.11E-15	0.0132	0.0010	24328	3.41E-38	0.0144	0.0013	24343	2.25E-26	0.0146	0.0017	24342	6.53E-17
THTPA	0.0130	0.0100	43250	4.97E-01	0.0510	0.0056	23849	3.09E-19	0.0081	0.0014	24219	6.25E-09	0.0094	0.0018	24234	4.03E-07	0.0065	0.0023	24233	7.74E-03
MYO9B	0.0101	0.0078	49043	4.97E-01	0.0308	0.0064	27807	2.76E-06	0.0130	0.0016	28251	1.47E-16	0.0130	0.0020	28266	4.53E-10	0.0187	0.0026	28265	3.36E-12
OSBPL2	0.0059	0.0045	43426	4.98E-01	0.0288	0.0127	23934	3.66E-02	0.0048	0.0031	24305	1.56E-01	0.0038	0.0041	24320	4.11E-01	0.0024	0.0052	24319	6.98E-01
ILKAP	0.0087	0.0067	48723	4.99E-01	0.0620	0.0073	27625	9.28E-17	0.0195	0.0018	28062	6.42E-27	0.0200	0.0024	28079	8.77E-17	0.0252	0.0030	28078	4.27E-16
SCGB3A1	-0.0039	0.0030	42580	5.00E-01	0.1658	0.0188	23496	4.32E-18	-0.0690	0.0046	23858	5.20E-50	-0.0713	0.0061	23871	5.08E-31	-0.0858	0.0078	23870	2.28E-27
SMC3	-0.0080	0.0062	41982	5.00E-01	-0.0141	0.0095	23146	1.85E-01	0.0021	0.0023	23506	4.14E-01	0.0029	0.0031	23521	4.09E-01	-0.0008	0.0039	23520	8.59E-01
VSIG4	-0.0063	0.0049	49913	5.01E-01	0.1042	0.0098	28253	9.26E-26	0.0084	0.0024	28701	7.03E-04	0.0078	0.0032	28718	1.97E-02	0.0270	0.0040	28717	7.08E-11
MZT1	0.0079	0.0061	48785	5.02E-01	0.0574	0.0080	27677	3.20E-12	0.0155	0.0020	28109	1.18E-14	0.0189	0.0026	28125	1.01E-12	0.0243	0.0033	28124	1.19E-12
PIKFYVE	0.0083	0.0065	42274	5.03E-01	0.0418	0.0088	23352	5.03E-06	0.0220	0.0022	23710	1.99E-23	0.0251	0.0029	23723	9.71E-18	0.0269	0.0037	23722	1.01E-12
PHACTR2	0.0169	0.0131	43455	5.03E-01	0.0415	0.0043	23960	2.67E-21	0.0147	0.0011	24328	1.55E-43	0.0162	0.0014	24343	8.89E-31	0.0166	0.0018	24342	6.41E-20
KLRK1	-0.0068	0.0053	43426	5.03E-01	-0.0216	0.0107	23934	6.38E-02	0.0072	0.0026	24305	8.66E-03	0.0110	0.0034	24320	2.30E-03	0.0139	0.0044	24319	2.73E-03
PTGES2	0.0081	0.0063	41944	5.04E-01	0.1012	0.0091	23164	1.32E-27	0.0244	0.0023	23519	9.38E-27	0.0314	0.0030	23532	2.31E-25	0.0366	0.0038	23531	4.92E-21
PRSS2	-0.0079	0.0061	50176	5.04E-01	0.0063	0.0078	28453	4.94E-01	0.0124	0.0019	28897	1.85E-10	0.0173	0.0025	28913	1.79E-11	0.0286	0.0032	28912	4.72E-18
FAM3D	-0.0124	0.0096	43346	5.05E-01	-0.0335	0.0058	23893	2.53E-08	0.0087	0.0014	24266	3.02E-09	0.0093	0.0019	24281	1.90E-06	0.0249	0.0024	24280	7.13E-24
TDGF1	-0.0215	0.0167	48799	5.05E-01	0.0081	0.0030	27661	1.02E-02	0.0001	0.0007	28098	8.87E-01	0.0001	0.0010	28115	9.02E-01	-0.0006	0.0012	28114	6.66E-01
CLEC4G	0.0050	0.0039	49907	5.06E-01	0.1514	0.0124	28300	3.18E-33	0.0147	0.0030	28746	2.46E-06	0.0002	0.0040	28762	9.73E-01	-0.0047	0.0051	28761	4.28E-01
VAV3	0.0146	0.0114	42120	5.07E-01	0.0508	0.0051	23217	5.81E-23	0.0141	0.0012	23575	1.94E-29	0.0152	0.0016	23590	5.37E-20	0.0160	0.0021	23589	1.05E-13
PRTFDC1	0.0165	0.0129	48799	5.09E-01	0.0441	0.0038	27661	6.68E-30	0.0116	0.0009	28098	2.91E-34	0.0122	0.0012	28115	2.47E-22	0.0104	0.0016	28114	1.49E-10
IGLC2	-0.0036	0.0029	43526	5.09E-01	0.0779	0.0197	24001	1.48E-04	0.0045	0.0048	24373	4.03E-01	-0.0017	0.0064	24388	8.27E-01	0.0255	0.0082	24387	3.06E-03
CCNE1	-0.0137	0.0107	42274	5.09E-01	-0.0062	0.0054	23352	3.20E-01	-0.0002	0.0013	23710	8.91E-01	0.0000	0.0018	23723	9.84E-01	-0.0012	0.0023	23722	6.53E-01
NPL	-0.0067	0.0053	43535	5.10E-01	0.1173	0.0106	24011	2.69E-27	0.0500	0.0026	24384	2.41E-81	0.0406	0.0034	24399	1.85E-31	0.0541	0.0044	24398	1.34E-33

TNFRSF19	0.0046	0.0036	50397	5.11E-01	-0.0232	0.0130	28576	1.05E-01	-0.0080	0.0032	29025	1.63E-02	0.0011	0.0042	29042	8.36E-01	0.0209	0.0054	29041	1.77E-04
ACY3	-0.0083	0.0065	42109	5.11E-01	-0.0363	0.0090	23248	1.05E-04	0.0333	0.0022	23603	3.46E-51	0.0287	0.0029	23617	1.38E-22	0.0329	0.0037	23616	3.16E-18
DLGAP5	0.0075	0.0059	43455	5.11E-01	0.0050	0.0095	23960	6.74E-01	0.0005	0.0023	24328	8.55E-01	-0.0002	0.0031	24343	9.65E-01	-0.0014	0.0040	24342	7.76E-01
EIF4E	0.0132	0.0104	42274	5.11E-01	0.0492	0.0055	23352	1.52E-18	0.0081	0.0014	23710	4.84E-09	0.0085	0.0018	23723	3.53E-06	0.0086	0.0023	23722	3.35E-04
SH2D1A	0.0085	0.0067	49907	5.11E-01	-0.0176	0.0073	28300	2.52E-02	0.0236	0.0018	28746	4.65E-39	0.0235	0.0024	28762	7.77E-23	0.0390	0.0030	28761	3.83E-37
OLR1	0.0089	0.0070	49508	5.13E-01	0.1713	0.0071	28094	6.24E-126	-0.0042	0.0017	28532	2.13E-02	-0.0017	0.0023	28547	5.34E-01	-0.0109	0.0030	28546	4.00E-04
CAMKK1	0.0066	0.0052	48785	5.15E-01	0.0739	0.0096	27677	3.94E-14	0.0215	0.0023	28109	1.53E-19	0.0205	0.0031	28125	8.08E-11	0.0299	0.0040	28124	1.70E-13
PRKAB1	0.0080	0.0063	49043	5.15E-01	0.0499	0.0077	27807	3.28E-10	0.0207	0.0019	28251	4.12E-27	0.0220	0.0025	28266	3.56E-18	0.0247	0.0032	28265	4.44E-14
GSTT2B	0.0344	0.0272	43426	5.16E-01	0.0130	0.0021	23934	7.62E-10	0.0023	0.0005	24305	1.39E-05	0.0026	0.0007	24320	1.46E-04	0.0025	0.0009	24319	4.98E-03
GBP4	0.0071	0.0056	48799	5.16E-01	0.0389	0.0087	27661	1.80E-05	0.0119	0.0021	28098	5.19E-08	0.0136	0.0028	28115	2.63E-06	0.0134	0.0036	28114	4.01E-04
CBX2	0.0057	0.0045	42109	5.16E-01	-0.0157	0.0127	23248	2.77E-01	-0.0019	0.0031	23603	5.94E-01	-0.0016	0.0041	23617	7.51E-01	-0.0033	0.0053	23616	5.91E-01
BMP6	0.0060	0.0048	48980	5.16E-01	0.0973	0.0104	27769	3.92E-20	0.0162	0.0025	28203	3.52E-10	0.0187	0.0033	28217	4.83E-08	0.0221	0.0043	28216	5.66E-07
ADA	0.0052	0.0041	50529	5.16E-01	0.0058	0.0119	28636	6.94E-01	0.0091	0.0029	29090	2.72E-03	0.0087	0.0038	29107	3.36E-02	0.0101	0.0049	29106	5.63E-02
NMRK2	0.0059	0.0047	41982	5.16E-01	-0.0047	0.0123	23146	7.62E-01	-0.0090	0.0030	23506	4.07E-03	-0.0088	0.0040	23521	3.87E-02	-0.0123	0.0051	23520	2.32E-02
LAMA1	-0.0077	0.0061	42109	5.16E-01	-0.0188	0.0094	23248	6.80E-02	-0.0016	0.0023	23603	5.51E-01	0.0012	0.0031	23617	7.51E-01	-0.0020	0.0039	23616	6.63E-01
SFTPD	-0.0099	0.0078	49984	5.16E-01	-0.0109	0.0062	28340	1.13E-01	0.0012	0.0015	28785	4.87E-01	-0.0021	0.0020	28801	3.44E-01	-0.0076	0.0026	28800	4.61E-03
TYMP	-0.0097	0.0077	49666	5.16E-01	0.0889	0.0063	28171	6.95E-44	0.0131	0.0015	28611	4.44E-17	0.0138	0.0020	28627	2.96E-11	0.0118	0.0026	28626	1.19E-05
GC	-0.0037	0.0029	43602	5.16E-01	0.1276	0.0190	24051	5.19E-11	-0.0125	0.0047	24424	1.07E-02	-0.0234	0.0061	24439	2.47E-04	-0.0341	0.0079	24438	2.86E-05
WFIKKN1	0.0060	0.0048	49426	5.18E-01	-0.0663	0.0102	27999	2.67E-10	0.0347	0.0025	28441	5.29E-43	0.0364	0.0033	28457	8.85E-28	0.0386	0.0042	28456	3.02E-19
FEN1	-0.0095	0.0075	48785	5.18E-01	-0.0381	0.0068	27677	4.50E-08	0.0051	0.0017	28109	3.57E-03	0.0006	0.0022	28125	8.32E-01	0.0144	0.0028	28124	6.87E-07
FOXJ3	0.0065	0.0052	42274	5.18E-01	0.0462	0.0112	23352	7.64E-05	0.0246	0.0028	23710	1.77E-18	0.0261	0.0036	23723	2.31E-12	0.0389	0.0047	23722	3.96E-16
CD177	-0.0184	0.0146	49907	5.18E-01	0.0067	0.0033	28269	6.33E-02	-0.0023	0.0008	28717	7.24E-03	-0.0020	0.0011	28734	7.75E-02	-0.0014	0.0014	28733	3.77E-01
OMP	-0.0070	0.0056	42120	5.18E-01	-0.0143	0.0103	23217	2.20E-01	-0.0113	0.0025	23575	1.26E-05	-0.0128	0.0033	23590	2.22E-04	-0.0161	0.0043	23589	3.08E-04
LRP11	-0.0053	0.0042	49984	5.19E-01	-0.0477	0.0114	28340	5.99E-05	0.0211	0.0028	28785	8.54E-14	0.0129	0.0037	28801	7.94E-04	0.0275	0.0047	28800	1.34E-08
EREG	0.0116	0.0092	49507	5.20E-01	0.0780	0.0053	28030	4.33E-48	0.0188	0.0013	28473	5.29E-47	0.0224	0.0017	28489	2.02E-38	0.0208	0.0022	28488	9.22E-21
IL15	0.0048	0.0038	49907	5.20E-01	-0.1237	0.0127	28300	8.43E-22	-0.0022	0.0031	28746	5.32E-01	-0.0071	0.0041	28762	1.10E-01	0.0191	0.0052	28761	4.85E-04
LCN2	0.0057	0.0045	48474	5.20E-01	0.1565	0.0110	27477	2.55E-44	-0.0192	0.0027	27909	3.16E-12	-0.0174	0.0036	27924	2.15E-06	-0.0199	0.0046	27923	2.74E-05
CAMLG	0.0078	0.0062	42343	5.20E-01	0.0398	0.0092	23314	3.56E-05	0.0086	0.0023	23671	2.61E-04	0.0111	0.0030	23685	3.80E-04	0.0113	0.0038	23684	5.36E-03
ANP32C	-0.0058	0.0046	42387	5.20E-01	-0.0020	0.0125	23360	9.05E-01	-0.0007	0.0031	23719	8.40E-01	0.0025	0.0041	23733	5.95E-01	0.0023	0.0052	23732	7.09E-01
WFDC12	0.0093	0.0074	50314	5.22E-01	0.0450	0.0064	28514	9.46E-12	-0.0057	0.0016	28962	5.10E-04	-0.0039	0.0021	28979	8.40E-02	-0.0037	0.0027	28978	2.11E-01
GORASP2	0.0067	0.0054	43346	5.23E-01	0.0785	0.0104	23893	1.47E-13	0.0351	0.0025	24266	2.92E-42	0.0387	0.0034	24281	6.15E-30	0.0395	0.0043	24280	2.69E-19
RANGAP1	-0.0070	0.0056	48785	5.23E-01	-0.0143	0.0088	27677	1.44E-01	-0.0060	0.0022	28109	7.70E-03	-0.0039	0.0028	28125	2.20E-01	-0.0071	0.0036	28124	7.35E-02
CEACAM18	0.0098	0.0078	42740	5.23E-01	-0.0011	0.0073	23551	9.11E-01	-0.0025	0.0018	23912	1.94E-01	-0.0053	0.0024	23927	3.68E-02	-0.0035	0.0030	23926	3.11E-01
PGD	0.0077	0.0062	43535	5.23E-01	0.0779	0.0091	24011	3.84E-17	0.0042	0.0022	24384	8.12E-02	0.0018	0.0029	24399	6.07E-01	0.0036	0.0038	24398	4.01E-01
ERI1	0.0048	0.0039	42740	5.23E-01	0.0198	0.0146	23551	2.31E-01	0.0144	0.0036	23912	1.11E-04	0.0172	0.0047	23927	5.16E-04	0.0218	0.0061	23926	6.35E-04
NEK7	0.0106	0.0085	42740	5.23E-01	0.0393	0.0067	23551	1.06E-08	0.0127	0.0016	23912	1.77E-14	0.0148	0.0022	23927	1.72E-11	0.0131	0.0028	23926	4.32E-06
PSPN	-0.0140	0.0112	49907	5.23E-01	0.0166	0.0043	28300	2.50E-04	0.0130	0.0011	28746	9.63E-34	0.0117	0.0014	28762	1.64E-16	0.0157	0.0018	28761	7.65E-18
PKN3	0.0107	0.0086	42740	5.23E-01	0.0241	0.0066	23551	4.85E-04	0.0135	0.0016	23912	1.82E-16	0.0146	0.0021	23927	2.08E-11	0.0185	0.0027	23926	4.13E-11
RELB	0.0071	0.0057	42274	5.23E-01	0.0026	0.0102	23352	8.43E-01	0.0021	0.0025	23710	4.49E-01	0.0044	0.0033	23723	2.33E-01	0.0041	0.0043	23722	3.94E-01
ICOSLG	-0.0027	0.0022	49744	5.25E-01	-0.0992	0.0219	28212	1.25E-05	-0.0798	0.0053	28661	1.34E-49	-0.0816	0.0070	28678	2.50E-30	-0.0984	0.0090	28677	9.25E-27
ENAH	0.0069	0.0056	49043	5.26E-01	0.0698	0.0088	27807	9.93E-15	0.0237	0.0022	28251	1.97E-27	0.0238	0.0028	28266	1.74E-16	0.0343	0.0037	28265	3.05E-20
TNIP1	0.0127	0.0103	43426	5.26E-01	0.0266	0.0054	23934	2.05E-06	0.0175	0.0013	24305	5.46E-39	0.0170	0.0017	24320	9.88E-22	0.0226	0.0022	24319	5.53E-23
CCND2	0.0052	0.0042	42740	5.26E-01	-0.0176	0.0136	23551	2.51E-01	0.0009	0.0033	23912	8.14E-01	-0.0011	0.0044	23927	8.45E-01	0.0058	0.0057	23926	3.63E-01

NUCB2	0.0054	0.0044	50313	5.27E-01	0.1661	0.0110	28504	4.30E-50	0.0443	0.0027	28952	8.89E-60	0.0467	0.0035	28969	1.47E-38	0.0578	0.0046	28968	6.77E-36
PPP1R12A	0.0137	0.0111	50125	5.27E-01	0.0486	0.0043	28423	3.76E-28	0.0190	0.0011	28868	1.60E-70	0.0200	0.0014	28885	2.97E-45	0.0231	0.0018	28884	1.40E-36
CKB	0.0093	0.0075	43537	5.27E-01	0.0726	0.0074	24024	1.15E-21	-0.0859	0.0017	24398	0.00E+00	-0.0884	0.0023	24413	2.21E-299	-0.0856	0.0031	24412	2.05E-168
GPC5	0.0080	0.0065	49589	5.27E-01	0.0636	0.0075	28083	8.08E-17	0.0191	0.0018	28527	8.44E-25	0.0215	0.0024	28543	2.15E-18	0.0186	0.0031	28542	5.01E-09
PDCD1	-0.0060	0.0049	50317	5.27E-01	-0.0264	0.0097	28516	1.08E-02	-0.0046	0.0024	28965	7.26E-02	-0.0052	0.0031	28982	1.26E-01	0.0060	0.0040	28981	1.82E-01
CCL27	0.0087	0.0071	49984	5.27E-01	-0.0131	0.0068	28340	8.00E-02	0.0252	0.0017	28785	1.56E-50	0.0183	0.0022	28801	2.35E-16	0.0356	0.0028	28800	1.58E-35
LYSMD3	0.0145	0.0117	42343	5.27E-01	0.0071	0.0049	23314	1.95E-01	0.0018	0.0012	23671	1.72E-01	0.0009	0.0016	23685	6.38E-01	0.0008	0.0020	23684	7.50E-01
CALY	0.0053	0.0043	42109	5.27E-01	-0.0093	0.0132	23248	5.57E-01	-0.0083	0.0033	23603	1.51E-02	-0.0097	0.0043	23617	3.39E-02	-0.0111	0.0055	23616	6.20E-02
IL2RB	0.0054	0.0043	49043	5.27E-01	-0.0028	0.0114	27807	8.52E-01	-0.0002	0.0028	28251	9.61E-01	-0.0030	0.0037	28266	4.73E-01	-0.0039	0.0047	28265	4.71E-01
PAEP	0.0190	0.0154	49589	5.27E-01	0.0001	0.0032	28083	9.87E-01	-0.0077	0.0008	28527	5.92E-22	-0.0080	0.0010	28543	3.50E-14	-0.0087	0.0013	28542	1.81E-10
SCPEP1	0.0071	0.0058	42228	5.27E-01	0.1116	0.0099	23261	1.68E-28	0.0412	0.0024	23619	3.16E-63	0.0426	0.0032	23633	4.19E-39	0.0471	0.0041	23632	2.91E-29
RAB11FIP3	0.0153	0.0124	43535	5.27E-01	0.0394	0.0045	24011	1.07E-17	0.0185	0.0011	24384	3.23E-62	0.0195	0.0015	24399	5.21E-40	0.0208	0.0019	24398	7.72E-28
PLCB2	0.0137	0.0112	43426	5.28E-01	0.0531	0.0050	23934	2.90E-25	0.0143	0.0012	24305	2.20E-30	0.0152	0.0016	24320	3.64E-20	0.0147	0.0021	24319	5.99E-12
EFHD1	-0.0050	0.0040	43455	5.28E-01	0.0516	0.0139	23960	3.96E-04	-0.0082	0.0034	24328	2.16E-02	-0.0093	0.0045	24343	5.50E-02	0.0037	0.0058	24342	5.83E-01
CPB2	-0.0032	0.0026	43518	5.28E-01	0.1676	0.0217	24001	4.12E-14	0.0635	0.0053	24373	3.96E-32	0.0374	0.0070	24388	2.08E-07	0.0477	0.0090	24387	2.74E-07
CHM	0.0086	0.0070	42343	5.29E-01	0.0610	0.0082	23314	4.44E-13	0.0208	0.0020	23671	3.06E-24	0.0229	0.0027	23685	2.57E-17	0.0229	0.0034	23684	6.36E-11
TNFRSF17	0.0058	0.0047	42580	5.29E-01	0.0686	0.0121	23496	3.91E-08	-0.0106	0.0030	23858	6.02E-04	-0.0146	0.0039	23871	3.41E-04	-0.0013	0.0050	23870	8.35E-01
CASP9	0.0087	0.0071	42274	5.29E-01	0.0388	0.0080	23352	2.87E-06	0.0139	0.0020	23710	4.16E-12	0.0157	0.0026	23723	3.98E-09	0.0163	0.0033	23722	2.34E-06
SDCCAG8	0.0162	0.0132	43331	5.29E-01	0.0170	0.0042	23884	1.07E-04	0.0143	0.0010	24254	1.03E-42	0.0149	0.0014	24269	5.21E-27	0.0184	0.0017	24268	3.58E-25
SSB	0.0082	0.0067	48799	5.29E-01	-0.0064	0.0072	27661	4.43E-01	-0.0055	0.0018	28098	2.96E-03	-0.0079	0.0023	28115	1.08E-03	-0.0078	0.0030	28114	1.33E-02
ESPL1	0.0078	0.0064	41982	5.29E-01	-0.0047	0.0092	23146	6.82E-01	-0.0022	0.0023	23506	3.90E-01	-0.0021	0.0030	23521	5.35E-01	-0.0042	0.0038	23520	3.34E-01
STAU1	0.0093	0.0076	41982	5.29E-01	-0.0003	0.0077	23146	9.77E-01	0.0102	0.0019	23506	9.26E-08	0.0116	0.0025	23521	5.01E-06	0.0125	0.0032	23520	1.53E-04
VASH1	0.0115	0.0094	49907	5.29E-01	0.0631	0.0051	28300	1.44E-33	0.0154	0.0013	28746	1.08E-33	0.0170	0.0017	28762	4.23E-24	0.0152	0.0021	28761	3.23E-12
EBAG9	0.0134	0.0110	49589	5.29E-01	0.0492	0.0044	28083	1.04E-27	0.0171	0.0011	28527	8.47E-55	0.0179	0.0014	28543	2.98E-35	0.0202	0.0018	28542	2.44E-27
AKT3	0.0081	0.0067	48554	5.29E-01	0.0782	0.0074	27548	4.14E-25	0.0226	0.0018	27978	1.04E-34	0.0259	0.0024	27994	2.08E-26	0.0244	0.0031	27993	8.40E-15
DRG2	0.0080	0.0065	49744	5.29E-01	0.0742	0.0074	28212	8.82E-23	0.0194	0.0018	28661	4.11E-26	0.0209	0.0024	28678	7.00E-18	0.0209	0.0031	28677	2.56E-11
BRAP	0.0153	0.0125	42954	5.29E-01	0.0311	0.0045	23666	1.14E-11	0.0153	0.0011	24034	1.56E-43	0.0166	0.0014	24049	1.73E-29	0.0173	0.0019	24048	6.13E-20
TRIM58	0.0121	0.0100	43331	5.29E-01	0.0277	0.0056	23884	2.00E-06	0.0170	0.0014	24254	2.91E-34	0.0182	0.0018	24269	6.51E-23	0.0239	0.0023	24268	1.26E-23
CSNK1D	0.0089	0.0073	42274	5.29E-01	0.0206	0.0078	23352	1.42E-02	0.0119	0.0019	23710	1.76E-09	0.0129	0.0026	23723	8.99E-07	0.0149	0.0033	23722	1.05E-05
CAT	0.0077	0.0063	42921	5.29E-01	-0.0086	0.0092	23684	4.18E-01	-0.0127	0.0022	24053	2.96E-08	-0.0205	0.0030	24068	1.30E-11	-0.0172	0.0038	24067	1.28E-05
RGL2	0.0089	0.0073	42740	5.29E-01	0.0040	0.0077	23551	6.75E-01	0.0026	0.0019	23912	2.17E-01	0.0013	0.0025	23927	6.51E-01	0.0007	0.0032	23926	8.51E-01
MASP1	-0.0033	0.0027	49507	5.29E-01	0.0090	0.0179	28030	6.87E-01	0.0790	0.0044	28473	6.35E-72	0.0778	0.0057	28489	8.73E-41	0.0807	0.0074	28488	6.50E-27
LEG1	0.0098	0.0080	41145	5.29E-01	0.0149	0.0074	22759	6.41E-02	-0.0120	0.0018	23103	5.44E-11	-0.0138	0.0024	23116	1.49E-08	-0.0158	0.0031	23115	4.96E-07
KIRREL1	0.0082	0.0067	42120	5.30E-01	-0.0050	0.0086	23217	6.32E-01	-0.0027	0.0021	23575	2.35E-01	-0.0022	0.0028	23590	4.98E-01	-0.0023	0.0036	23589	5.85E-01
IL17A	0.0060	0.0050	48966	5.30E-01	-0.0023	0.0101	27756	8.63E-01	-0.0035	0.0025	28200	1.95E-01	0.0003	0.0032	28215	9.34E-01	0.0125	0.0042	28214	4.19E-03
LRG1	-0.0036	0.0030	43602	5.30E-01	0.3274	0.0187	24051	1.28E-66	-0.0827	0.0046	24424	3.13E-71	-0.0995	0.0060	24439	2.42E-59	-0.0930	0.0078	24438	7.76E-32
S100A11	-0.0068	0.0056	49589	5.31E-01	0.0986	0.0091	28079	1.82E-26	0.0087	0.0022	28519	1.54E-04	0.0039	0.0029	28533	2.33E-01	0.0123	0.0038	28532	1.83E-03
WASF1	0.0132	0.0109	49059	5.32E-01	0.0342	0.0045	27799	1.08E-13	0.0154	0.0011	28234	5.62E-44	0.0162	0.0014	28248	2.87E-28	0.0190	0.0019	28247	1.14E-23
TIMM10	0.0056	0.0046	43535	5.33E-01	0.1282	0.0122	24011	5.62E-25	0.0360	0.0030	24384	9.47E-33	0.0423	0.0039	24399	3.68E-26	0.0497	0.0051	24398	5.38E-22
CILP	-0.0076	0.0063	43537	5.34E-01	-0.0366	0.0088	24024	6.69E-05	0.0290	0.0022	24398	2.70E-40	0.0228	0.0029	24413	3.73E-15	0.0450	0.0037	24412	9.00E-34
PPT1	0.0106	0.0088	42343	5.36E-01	0.0005	0.0065	23314	9.57E-01	0.0015	0.0016	23671	3.91E-01	0.0017	0.0021	23685	4.76E-01	0.0026	0.0027	23684	4.08E-01
NMI	0.0100	0.0083	43170	5.36E-01	0.0800	0.0068	23801	5.36E-31	0.0010	0.0017	24171	5.93E-01	0.0011	0.0022	24186	6.89E-01	0.0044	0.0028	24185	1.62E-01
FN1	-0.0038	0.0031	43602	5.36E-01	0.0871	0.0180	24051	2.82E-06	0.0780	0.0044	24424	1.96E-69	0.0647	0.0058	24439	4.00E-28	0.0754	0.0075	24438	3.02E-23

IL13RA2	0.0039	0.0033	42120	5.37E-01	0.0081	0.0176	23217	7.12E-01	-0.0046	0.0043	23575	3.37E-01	-0.0069	0.0057	23590	2.81E-01	-0.0115	0.0073	23589	1.53E-01
MIA	0.0051	0.0043	50125	5.38E-01	0.0835	0.0113	28423	4.03E-13	-0.0185	0.0028	28868	3.95E-11	-0.0158	0.0036	28885	2.44E-05	-0.0119	0.0047	28884	1.69E-02
TIMD4	-0.0061	0.0051	50176	5.38E-01	0.0363	0.0094	28453	2.10E-04	-0.0021	0.0023	28897	4.15E-01	-0.0036	0.0030	28913	2.92E-01	-0.0005	0.0039	28912	9.24E-01
MTIF3	0.0119	0.0100	43346	5.39E-01	0.0868	0.0056	23893	2.02E-52	0.0126	0.0014	24266	1.96E-19	0.0142	0.0018	24281	1.71E-14	0.0143	0.0023	24280	2.54E-09
DBNL	0.0129	0.0107	50189	5.39E-01	0.0521	0.0045	28442	1.57E-30	0.0140	0.0011	28888	5.67E-37	0.0149	0.0014	28904	1.97E-24	0.0157	0.0018	28903	8.19E-17
CASP7	0.0115	0.0096	43426	5.39E-01	0.0610	0.0058	23934	1.21E-24	0.0153	0.0014	24305	3.83E-26	0.0169	0.0019	24320	1.09E-18	0.0162	0.0024	24319	6.80E-11
VPS4B	0.0129	0.0108	43331	5.39E-01	0.0535	0.0052	23884	6.69E-24	0.0132	0.0013	24254	2.66E-24	0.0144	0.0017	24269	5.06E-17	0.0138	0.0022	24268	5.85E-10
NOS1	-0.0074	0.0062	48799	5.39E-01	0.0753	0.0079	27661	6.33E-21	-0.0063	0.0019	28098	1.66E-03	-0.0003	0.0026	28115	9.17E-01	0.0121	0.0033	28114	4.04E-04
FAM172A	0.0085	0.0071	42387	5.39E-01	0.0771	0.0081	23360	1.38E-20	0.0182	0.0020	23719	2.72E-19	0.0220	0.0026	23733	2.78E-16	0.0204	0.0034	23732	4.65E-09
PRND	-0.0070	0.0059	43426	5.39E-01	-0.0861	0.0095	23934	6.59E-19	-0.0052	0.0023	24305	3.63E-02	-0.0068	0.0031	24320	3.78E-02	-0.0076	0.0039	24319	7.39E-02
ACTN2	0.0081	0.0068	42109	5.39E-01	0.0773	0.0086	23248	8.28E-19	-0.0039	0.0021	23603	8.23E-02	0.0078	0.0028	23617	7.36E-03	0.0229	0.0036	23616	3.12E-10
NUDT2	0.0079	0.0066	49744	5.39E-01	0.0563	0.0074	28212	1.05E-13	0.0096	0.0018	28661	2.29E-07	0.0107	0.0024	28678	1.38E-05	0.0038	0.0031	28677	2.72E-01
RILP	0.0084	0.0071	50251	5.39E-01	0.0514	0.0069	28487	2.26E-13	0.0020	0.0017	28934	2.72E-01	-0.0007	0.0022	28951	7.78E-01	0.0022	0.0028	28950	5.05E-01
TXN	0.0061	0.0051	42856	5.39E-01	0.0819	0.0112	23748	8.49E-13	-0.0016	0.0028	24116	6.22E-01	-0.0039	0.0036	24131	3.45E-01	-0.0006	0.0047	24130	9.21E-01
BRSK2	0.0053	0.0044	43455	5.39E-01	0.0922	0.0128	23960	1.87E-12	0.0275	0.0031	24328	4.49E-18	0.0306	0.0041	24343	3.93E-13	0.0317	0.0053	24342	6.02E-09
EIF2S2	0.0058	0.0049	42387	5.39E-01	0.0430	0.0119	23360	5.56E-04	0.0150	0.0029	23719	5.18E-07	0.0185	0.0039	23733	3.24E-06	0.0172	0.0050	23732	8.78E-04
C1QA	-0.0031	0.0026	50280	5.39E-01	-0.0455	0.0182	28498	2.06E-02	-0.0184	0.0045	28952	6.48E-05	-0.0239	0.0059	28969	9.19E-05	0.0260	0.0076	28968	1.03E-03
UNC79	0.0077	0.0065	41982	5.39E-01	0.0169	0.0090	23146	8.89E-02	0.0182	0.0022	23506	4.11E-16	0.0216	0.0029	23521	3.75E-13	0.0257	0.0037	23520	1.96E-11
TJP3	0.0057	0.0048	42120	5.39E-01	0.0215	0.0119	23217	1.02E-01	-0.0062	0.0029	23575	4.67E-02	-0.0085	0.0038	23590	3.98E-02	-0.0111	0.0049	23589	3.68E-02
DAND5	-0.0076	0.0064	42274	5.39E-01	-0.0138	0.0093	23352	1.86E-01	-0.0038	0.0023	23710	1.24E-01	-0.0028	0.0030	23723	4.23E-01	-0.0054	0.0039	23722	2.10E-01
HK2	0.0038	0.0032	49059	5.39E-01	0.0101	0.0156	27799	5.89E-01	0.0054	0.0038	28234	1.93E-01	0.0043	0.0050	28248	4.55E-01	0.0063	0.0065	28247	3.96E-01
COCH	-0.0063	0.0053	43535	5.39E-01	0.1163	0.0105	24011	2.57E-27	0.0303	0.0026	24384	4.78E-31	0.0319	0.0034	24399	3.68E-20	0.0338	0.0044	24398	4.28E-14
SERPINA3	-0.0020	0.0017	43446	5.39E-01	0.5799	0.0329	23972	1.80E-67	-0.0559	0.0081	24344	1.21E-11	-0.0913	0.0107	24359	4.58E-17	-0.0615	0.0137	24358	1.50E-05
GGACT	0.0096	0.0081	43535	5.40E-01	0.0771	0.0069	24011	3.84E-28	0.0109	0.0017	24384	2.43E-10	0.0119	0.0022	24399	2.14E-07	0.0099	0.0029	24398	9.48E-04
LRRN1	0.0055	0.0046	49043	5.40E-01	-0.0961	0.0107	27807	1.05E-18	0.0127	0.0026	28251	2.21E-06	0.0138	0.0034	28266	1.05E-04	0.0074	0.0044	28265	1.25E-01
DMD	-0.0070	0.0059	42387	5.40E-01	0.0476	0.0096	23360	1.48E-06	0.0155	0.0024	23719	1.10E-10	0.0190	0.0031	23733	2.30E-09	0.0289	0.0040	23732	1.30E-12
SEL1L	-0.0043	0.0037	42387	5.40E-01	0.0075	0.0156	23360	6.97E-01	0.0280	0.0038	23719	7.26E-13	0.0230	0.0051	23733	1.10E-05	0.0473	0.0065	23732	1.06E-12
CTSH	-0.0103	0.0087	48895	5.40E-01	-0.0027	0.0057	27737	7.00E-01	0.0155	0.0014	28171	4.76E-28	0.0130	0.0018	28185	4.98E-12	0.0213	0.0024	28184	1.06E-18
DEFA1_DEFA1B	0.0074	0.0062	48973	5.41E-01	0.0592	0.0081	27747	7.05E-13	-0.0027	0.0020	28180	2.14E-01	-0.0064	0.0026	28195	2.07E-02	0.0027	0.0034	28194	4.83E-01
CGREF1	0.0058	0.0049	49984	5.41E-01	-0.0542	0.0098	28340	7.11E-08	0.0160	0.0024	28785	4.04E-11	0.0131	0.0031	28801	5.57E-05	0.0400	0.0040	28800	2.08E-22
CD109	0.0046	0.0039	49982	5.41E-01	-0.0335	0.0124	28299	1.16E-02	0.0083	0.0030	28747	8.87E-03	0.0005	0.0040	28764	9.16E-01	0.0014	0.0051	28763	8.29E-01
CEP164	0.0086	0.0073	49043	5.41E-01	0.0112	0.0068	27807	1.39E-01	0.0026	0.0017	28251	1.50E-01	0.0027	0.0022	28266	2.70E-01	0.0029	0.0028	28265	3.72E-01
PYDC1	0.0056	0.0047	42387	5.42E-01	0.0017	0.0120	23360	9.11E-01	-0.0123	0.0030	23719	5.96E-05	-0.0139	0.0039	23733	6.65E-04	-0.0104	0.0050	23732	5.52E-02
GTPBP2	0.0109	0.0093	42343	5.43E-01	0.0643	0.0062	23314	2.47E-24	0.0171	0.0015	23671	6.47E-29	0.0192	0.0020	23685	4.68E-21	0.0183	0.0026	23684	3.61E-12
GPKOW	-0.0040	0.0034	48799	5.44E-01	0.0622	0.0152	27661	8.46E-05	0.0361	0.0037	28098	1.28E-21	0.0303	0.0049	28115	1.68E-09	0.0561	0.0063	28114	3.01E-18
NTF4	0.0053	0.0045	48785	5.44E-01	-0.0279	0.0109	27677	1.67E-02	0.0028	0.0027	28109	3.48E-01	0.0042	0.0035	28125	2.88E-01	0.0079	0.0045	28124	1.09E-01
IKZF2	-0.0124	0.0105	48785	5.44E-01	-0.0078	0.0047	27677	1.37E-01	-0.0016	0.0012	28109	2.06E-01	-0.0017	0.0015	28125	3.08E-01	-0.0021	0.0020	28124	3.38E-01
RLN1	0.0094	0.0079	43455	5.44E-01	0.0101	0.0071	23960	2.09E-01	-0.0057	0.0018	24328	1.77E-03	-0.0036	0.0023	24343	1.51E-01	-0.0064	0.0030	24342	4.35E-02
FDX1	-0.0085	0.0072	42109	5.45E-01	0.0230	0.0080	23248	7.25E-03	0.0076	0.0020	23603	2.09E-04	0.0052	0.0026	23617	6.36E-02	0.0077	0.0033	23616	3.15E-02
CD27	-0.0056	0.0048	50125	5.46E-01	0.0394	0.0100	28423	1.49E-04	-0.0073	0.0024	28868	4.08E-03	-0.0063	0.0032	28885	7.02E-02	0.0107	0.0041	28884	1.45E-02
GPR158	0.0048	0.0041	43455	5.46E-01	0.0445	0.0136	23960	1.91E-03	-0.0553	0.0033	24328	7.88E-61	-0.0667	0.0044	24343	6.66E-51	-0.0859	0.0056	24342	3.40E-51
STEAP4	0.0099	0.0084	42120	5.46E-01	-0.0103	0.0069	23217	1.81E-01	0.0026	0.0017	23575	1.50E-01	0.0031	0.0022	23590	2.02E-01	0.0025	0.0029	23589	4.55E-01
MPHOSPH8	0.0102	0.0087	49059	5.48E-01	0.0572	0.0056	27799	1.91E-23	0.0176	0.0014	28234	7.62E-37	0.0181	0.0018	28248	6.66E-23	0.0203	0.0023	28247	1.41E-17

CD160	-0.0063	0.0054	50529	5.48E-01	-0.0162	0.0087	28636	9.23E-02	0.0022	0.0021	29090	3.46E-01	0.0055	0.0028	29107	6.81E-02	0.0068	0.0036	29106	8.56E-02
BLOC1S2	0.0099	0.0084	42120	5.48E-01	0.0011	0.0069	23217	9.03E-01	0.0015	0.0017	23575	4.43E-01	0.0033	0.0022	23590	1.78E-01	0.0031	0.0029	23589	3.35E-01
PLB1	0.0080	0.0068	43426	5.48E-01	-0.0233	0.0082	23934	7.51E-03	-0.0107	0.0020	24305	2.03E-07	-0.0087	0.0026	24320	1.76E-03	-0.0121	0.0034	24319	6.24E-04
LRRC38	0.0064	0.0055	42343	5.49E-01	-0.0219	0.0105	23314	5.64E-02	0.0094	0.0026	23671	4.09E-04	0.0088	0.0034	23685	1.41E-02	0.0101	0.0043	23684	3.02E-02
TPM3	0.0059	0.0050	42109	5.49E-01	-0.0115	0.0115	23248	3.90E-01	-0.0142	0.0028	23603	8.82E-07	-0.0065	0.0037	23617	1.08E-01	-0.0085	0.0048	23616	1.01E-01
IL12A_IL12B	-0.0108	0.0092	49744	5.49E-01	0.0051	0.0053	28212	3.99E-01	0.0159	0.0013	28661	1.07E-34	0.0204	0.0017	28678	1.04E-32	0.0303	0.0022	28677	2.79E-43
IGFBP2	0.0094	0.0080	50513	5.49E-01	0.0620	0.0060	28607	1.47E-24	-0.0753	0.0014	29054	0.00E+00	-0.0770	0.0019	29069	0.00E+00	-0.0735	0.0024	29068	5.92E-196
COPE	0.0063	0.0054	48799	5.49E-01	0.0088	0.0091	27661	4.02E-01	-0.0009	0.0022	28098	7.46E-01	0.0001	0.0029	28115	9.82E-01	0.0011	0.0038	28114	8.19E-01
BRD2	0.0046	0.0039	42120	5.50E-01	0.0215	0.0146	23217	1.90E-01	0.0019	0.0036	23575	6.47E-01	0.0042	0.0047	23590	4.34E-01	0.0027	0.0061	23589	7.14E-01
GNLY	-0.0071	0.0061	49982	5.51E-01	0.0737	0.0080	28299	1.55E-19	0.0019	0.0020	28747	3.74E-01	-0.0035	0.0026	28764	2.28E-01	-0.0070	0.0033	28763	5.14E-02
REG1B	-0.0075	0.0065	50594	5.52E-01	0.0205	0.0074	28667	9.15E-03	-0.0050	0.0018	29116	7.43E-03	-0.0011	0.0024	29132	7.06E-01	0.0073	0.0030	29131	2.49E-02
FDX2	-0.0076	0.0065	42109	5.54E-01	0.0785	0.0090	23248	1.52E-17	0.0039	0.0022	23603	9.75E-02	0.0039	0.0029	23617	2.34E-01	0.0030	0.0037	23616	4.98E-01
C1R	-0.0025	0.0022	43602	5.54E-01	0.1038	0.0251	24051	7.26E-05	0.0260	0.0062	24424	3.99E-05	0.0120	0.0081	24439	1.79E-01	0.0122	0.0104	24438	2.99E-01
SYNGAP1	0.0075	0.0065	42120	5.54E-01	0.0059	0.0089	23217	5.78E-01	0.0033	0.0022	23575	1.62E-01	0.0044	0.0029	23590	1.63E-01	0.0044	0.0037	23589	2.84E-01
INSL5	-0.0129	0.0112	43346	5.54E-01	-0.0013	0.0050	23893	8.43E-01	0.0101	0.0012	24266	2.76E-16	0.0092	0.0016	24281	2.14E-08	0.0072	0.0021	24280	8.37E-04
LRRC59	0.0063	0.0055	43535	5.54E-01	0.0950	0.0103	24011	1.08E-19	0.0338	0.0025	24384	2.00E-40	0.0374	0.0033	24399	9.68E-29	0.0457	0.0043	24398	5.94E-26
TNFRSF11A	-0.0053	0.0046	50529	5.54E-01	0.0976	0.0102	28636	7.04E-21	0.0346	0.0025	29090	1.74E-42	0.0385	0.0033	29107	1.15E-30	0.0576	0.0042	29106	4.44E-41
FGL1	-0.0085	0.0073	43572	5.55E-01	0.1028	0.0076	24036	3.21E-40	-0.0279	0.0019	24408	2.27E-49	-0.0363	0.0025	24423	7.37E-48	-0.0299	0.0032	24422	2.32E-20
HBO1	0.0082	0.0071	50397	5.55E-01	-0.0407	0.0069	28576	9.18E-09	-0.0280	0.0017	29025	6.27E-61	-0.0310	0.0022	29042	1.51E-43	-0.0423	0.0028	29041	7.40E-49
VASN	-0.0037	0.0032	49194	5.55E-01	0.0820	0.0153	27942	2.27E-07	-0.0032	0.0038	28378	4.51E-01	-0.0047	0.0049	28393	3.98E-01	-0.0009	0.0064	28392	9.05E-01
SIGLEC10	-0.0046	0.0039	49907	5.55E-01	0.0527	0.0121	28300	3.05E-05	0.0121	0.0030	28746	7.52E-05	0.0040	0.0039	28762	3.58E-01	0.0234	0.0050	28761	6.15E-06
ADAM22	-0.0048	0.0041	49589	5.56E-01	-0.1278	0.0117	28083	8.85E-27	0.0061	0.0029	28527	4.67E-02	0.0016	0.0038	28543	7.29E-01	0.0070	0.0049	28542	1.91E-01
SCGB2A2	0.0041	0.0036	42109	5.56E-01	-0.0087	0.0161	23248	6.58E-01	-0.0092	0.0040	23603	2.72E-02	-0.0070	0.0052	23617	2.30E-01	-0.0133	0.0067	23616	6.65E-02
CA6	-0.0086	0.0074	49824	5.57E-01	-0.0244	0.0065	28231	3.55E-04	-0.0098	0.0016	28676	1.39E-09	-0.0102	0.0021	28693	2.50E-06	-0.0182	0.0027	28692	3.87E-11
ITGB6	0.0040	0.0035	49043	5.57E-01	-0.0961	0.0139	27807	1.69E-11	-0.0111	0.0034	28251	1.73E-03	-0.0107	0.0045	28266	2.61E-02	-0.0060	0.0058	28265	3.61E-01
PRR4	0.0094	0.0081	42272	5.57E-01	0.0189	0.0071	23323	1.30E-02	-0.0147	0.0017	23683	1.17E-16	-0.0149	0.0023	23696	2.04E-10	-0.0174	0.0030	23695	9.98E-09
AKR1B1	0.0100	0.0087	48785	5.58E-01	0.0603	0.0056	27677	8.24E-26	0.0096	0.0014	28109	1.11E-11	0.0101	0.0018	28125	6.81E-08	0.0086	0.0024	28124	4.80E-04
CASP10	0.0095	0.0083	48799	5.58E-01	0.0576	0.0059	27661	1.61E-21	0.0140	0.0015	28098	3.06E-21	0.0120	0.0019	28115	9.45E-10	0.0151	0.0025	28114	2.54E-09
LSM8	0.0114	0.0099	42740	5.58E-01	-0.0137	0.0058	23551	2.76E-02	0.0015	0.0014	23912	3.29E-01	0.0015	0.0019	23927	4.91E-01	0.0000	0.0024	23926	9.98E-01
RCC1	0.0067	0.0059	43331	5.58E-01	0.0030	0.0096	23884	8.08E-01	0.0056	0.0024	24254	2.52E-02	0.0036	0.0031	24269	3.08E-01	0.0083	0.0040	24268	5.23E-02
CYB5A	0.0095	0.0083	41982	5.58E-01	0.0080	0.0071	23146	3.22E-01	0.0024	0.0017	23506	2.02E-01	0.0017	0.0023	23521	5.18E-01	0.0041	0.0029	23520	2.04E-01
ZHX2	-0.0044	0.0039	43426	5.59E-01	-0.0019	0.0153	23934	9.26E-01	0.0160	0.0038	24305	3.55E-05	0.0082	0.0050	24320	1.32E-01	0.0388	0.0064	24319	2.62E-09
TFRC	0.0053	0.0046	50182	5.61E-01	0.0096	0.0105	28428	4.35E-01	-0.0157	0.0026	28872	1.94E-09	-0.0234	0.0034	28888	1.32E-11	0.0012	0.0044	28887	8.29E-01
BCL2L11	0.0057	0.0050	49907	5.62E-01	0.0746	0.0097	28300	4.50E-14	0.0134	0.0024	28746	3.16E-08	0.0177	0.0031	28762	2.95E-08	0.0177	0.0040	28761	1.99E-05
FABP3	-0.0068	0.0060	43535	5.63E-01	0.1784	0.0093	24011	9.32E-80	0.0018	0.0023	24384	4.77E-01	0.0101	0.0030	24399	1.34E-03	0.0128	0.0039	24398	1.66E-03
ADAMTS8	-0.0060	0.0053	50125	5.63E-01	-0.1315	0.0091	28423	1.35E-45	-0.0001	0.0022	28868	9.61E-01	-0.0008	0.0030	28885	8.31E-01	-0.0087	0.0038	28884	3.28E-02
RBM17	0.0099	0.0087	43455	5.63E-01	0.0736	0.0064	23960	2.27E-29	0.0159	0.0016	24328	1.74E-23	0.0173	0.0021	24343	2.81E-16	0.0166	0.0027	24342	1.42E-09
GNPDA1	0.0043	0.0038	42387	5.63E-01	-0.0008	0.0154	23360	9.68E-01	-0.0191	0.0037	23719	6.24E-07	-0.0269	0.0049	23733	1.05E-07	-0.0246	0.0063	23732	1.86E-04
HMCN2	-0.0075	0.0066	42503	5.64E-01	-0.0448	0.0087	23458	5.25E-07	0.0112	0.0021	23820	2.71E-07	0.0083	0.0028	23833	5.04E-03	0.0145	0.0036	23832	1.01E-04
JUN	-0.0066	0.0058	49043	5.64E-01	0.0302	0.0085	27807	7.57E-04	0.0004	0.0021	28251	8.69E-01	-0.0014	0.0027	28266	6.72E-01	0.0046	0.0035	28265	2.47E-01
PLXDC2	0.0035	0.0031	43426	5.64E-01	-0.0263	0.0183	23934	2.00E-01	0.0055	0.0045	24305	2.61E-01	-0.0099	0.0059	24320	1.25E-01	-0.0216	0.0076	24319	7.08E-03
LRRC37A2	-0.0055	0.0049	43346	5.64E-01	-0.0165	0.0115	23893	2.02E-01	-0.0029	0.0028	24266	3.59E-01	-0.0073	0.0037	24281	7.02E-02	-0.0078	0.0048	24280	1.35E-01
MFAP5	-0.0056	0.0050	50594	5.64E-01	-0.0107	0.0096	28667	3.34E-01	0.0299	0.0023	29116	1.00E-36	0.0250	0.0031	29132	1.63E-15	0.0406	0.0040	29131	6.35E-24

SUGT1	0.0105	0.0093	48785	5.65E-01	0.0607	0.0053	27677	1.07E-29	0.0095	0.0013	28109	6.26E-13	0.0092	0.0017	28125	1.42E-07	0.0066	0.0022	28124	4.37E-03
TGM2	-0.0099	0.0088	49902	5.65E-01	-0.0186	0.0057	28291	1.79E-03	-0.0158	0.0014	28735	1.00E-29	-0.0219	0.0018	28751	1.28E-32	-0.0228	0.0023	28750	7.23E-22
NHLRC3	-0.0043	0.0038	41562	5.65E-01	0.0762	0.0153	22961	1.37E-06	0.0708	0.0037	23317	2.58E-79	0.0624	0.0049	23329	5.49E-36	0.0754	0.0063	23328	6.53E-32
CTNNA1	0.0045	0.0040	42120	5.66E-01	0.0165	0.0144	23217	3.20E-01	0.0016	0.0036	23575	7.02E-01	0.0070	0.0047	23590	1.72E-01	0.0034	0.0060	23589	6.31E-01
CETN2	0.0089	0.0078	48799	5.67E-01	0.0694	0.0063	27661	2.53E-27	0.0195	0.0015	28098	1.28E-35	0.0203	0.0020	28115	9.77E-23	0.0228	0.0026	28114	1.23E-17
PSMG4	0.0075	0.0067	42274	5.70E-01	-0.0050	0.0088	23352	6.41E-01	-0.0217	0.0022	23710	6.75E-23	-0.0247	0.0029	23723	2.28E-17	-0.0225	0.0037	23722	2.38E-09
ENDOU	-0.0069	0.0062	40182	5.70E-01	-0.0143	0.0100	22195	2.01E-01	-0.0131	0.0024	22536	1.68E-07	-0.0114	0.0032	22551	6.98E-04	-0.0067	0.0042	22550	1.45E-01
KCNIP4	-0.0066	0.0058	48799	5.70E-01	0.0000	0.0084	27661	9.97E-01	-0.0019	0.0021	28098	4.19E-01	-0.0040	0.0027	28115	1.77E-01	-0.0047	0.0035	28114	2.28E-01
GCC1	0.0139	0.0124	43426	5.72E-01	0.0476	0.0045	23934	3.81E-25	0.0183	0.0011	24305	1.47E-60	0.0186	0.0015	24320	1.28E-36	0.0202	0.0019	24319	2.83E-26
BTN3A2	0.0049	0.0044	49907	5.72E-01	0.0558	0.0110	28300	9.76E-07	0.0357	0.0027	28746	3.90E-39	0.0384	0.0036	28762	1.73E-26	0.0583	0.0046	28761	2.43E-36
PDCD5	0.0077	0.0069	50415	5.73E-01	0.0775	0.0070	28544	2.94E-27	0.0112	0.0017	28996	1.60E-10	0.0088	0.0023	29013	1.76E-04	0.0120	0.0029	29012	6.90E-05
ID4	0.0056	0.0050	42740	5.73E-01	-0.0219	0.0113	23551	7.82E-02	-0.0050	0.0028	23912	9.85E-02	-0.0048	0.0037	23927	2.46E-01	-0.0092	0.0047	23926	7.24E-02
DKKL1	-0.0112	0.0100	49744	5.73E-01	-0.0085	0.0049	28212	1.20E-01	-0.0041	0.0012	28661	9.66E-04	-0.0076	0.0016	28678	2.88E-06	-0.0106	0.0020	28677	3.81E-07
RASA1	0.0043	0.0038	48799	5.74E-01	-0.0007	0.0132	27661	9.68E-01	0.0020	0.0032	28098	5.80E-01	0.0028	0.0043	28115	5.80E-01	0.0016	0.0055	28114	8.10E-01
MYDGF	0.0128	0.0115	43535	5.74E-01	0.0639	0.0049	24011	4.40E-38	0.0164	0.0012	24384	5.25E-42	0.0179	0.0016	24399	4.79E-29	0.0172	0.0020	24398	7.02E-17
OTUD7B	0.0081	0.0073	43455	5.74E-01	0.0863	0.0077	23960	2.67E-28	0.0262	0.0019	24328	3.66E-43	0.0279	0.0025	24343	1.88E-28	0.0309	0.0032	24342	1.81E-21
TALDO1	0.0058	0.0052	43376	5.74E-01	0.1035	0.0108	23977	4.81E-21	0.0193	0.0027	24351	7.06E-13	0.0173	0.0035	24366	1.44E-06	0.0242	0.0045	24365	1.54E-07
DOK1	0.0173	0.0156	43426	5.74E-01	0.0335	0.0036	23934	4.50E-20	0.0109	0.0009	24305	9.12E-35	0.0122	0.0012	24320	2.92E-25	0.0110	0.0015	24319	4.82E-13
DCTN6	0.0092	0.0083	48799	5.74E-01	0.0411	0.0060	27661	1.71E-11	0.0122	0.0015	28098	2.83E-16	0.0151	0.0019	28115	1.24E-14	0.0161	0.0025	28114	2.06E-10
GIGYF2	0.0099	0.0089	43455	5.74E-01	0.0369	0.0063	23960	1.54E-08	0.0171	0.0016	24328	1.42E-27	0.0176	0.0020	24343	2.65E-17	0.0242	0.0026	24342	1.30E-19
CNTN3	-0.0044	0.0039	49982	5.74E-01	0.0713	0.0123	28299	1.71E-08	0.0959	0.0030	28747	5.43E-225	0.0969	0.0039	28764	3.86E-132	0.0948	0.0051	28763	1.19E-76
KIR2DL3	-0.0099	0.0089	48785	5.74E-01	0.0147	0.0055	27677	1.30E-02	-0.0053	0.0014	28109	1.42E-04	-0.0045	0.0018	28125	1.77E-02	-0.0050	0.0023	28124	4.09E-02
ASGR2	-0.0034	0.0030	43572	5.74E-01	0.0484	0.0184	24036	1.38E-02	-0.0066	0.0045	24408	1.81E-01	-0.0257	0.0060	24423	3.03E-05	-0.0306	0.0076	24422	1.18E-04
SPAG1	-0.0074	0.0066	43455	5.74E-01	-0.0041	0.0085	23960	6.97E-01	0.0183	0.0021	24328	5.27E-18	0.0199	0.0027	24343	1.39E-12	0.0235	0.0035	24342	8.01E-11
FGF5	-0.0043	0.0039	49043	5.74E-01	-0.0008	0.0128	27807	9.65E-01	-0.0265	0.0031	28251	6.26E-17	-0.0352	0.0041	28266	3.77E-17	-0.0328	0.0053	28265	1.37E-09
SLK	0.0099	0.0089	42740	5.75E-01	-0.0102	0.0064	23551	1.54E-01	0.0003	0.0016	23912	8.83E-01	-0.0003	0.0021	23927	9.06E-01	0.0006	0.0027	23926	8.47E-01
NSFL1C	0.0085	0.0077	50415	5.76E-01	0.0480	0.0063	28544	6.51E-14	0.0049	0.0015	28996	1.99E-03	0.0030	0.0020	29013	1.81E-01	0.0051	0.0026	29012	7.03E-02
ECHS1	-0.0124	0.0112	42387	5.77E-01	0.0637	0.0051	23360	2.70E-34	0.0220	0.0013	23719	4.10E-67	0.0229	0.0017	23733	3.32E-42	0.0286	0.0021	23732	7.16E-40
XIAP	0.0074	0.0067	42274	5.77E-01	0.0556	0.0086	23352	2.47E-10	0.0265	0.0021	23710	2.34E-35	0.0298	0.0028	23723	4.84E-26	0.0351	0.0036	23722	4.77E-22
AGT	-0.0028	0.0026	43572	5.77E-01	0.0332	0.0213	24036	1.63E-01	0.0096	0.0052	24408	8.38E-02	0.0072	0.0069	24423	3.55E-01	-0.0003	0.0088	24422	9.81E-01
CTRL	-0.0087	0.0079	43426	5.77E-01	-0.0104	0.0071	23934	1.94E-01	-0.0129	0.0017	24305	4.33E-13	-0.0128	0.0023	24320	5.82E-08	-0.0096	0.0030	24319	1.91E-03
DNM3	0.0070	0.0063	43455	5.79E-01	0.0844	0.0089	23960	1.28E-20	0.0204	0.0022	24328	1.99E-20	0.0224	0.0029	24343	1.73E-14	0.0261	0.0037	24342	4.71E-12
CCDC80	-0.0046	0.0041	49984	5.79E-01	0.0101	0.0116	28340	4.58E-01	0.0212	0.0028	28785	1.90E-13	0.0112	0.0037	28801	4.55E-03	0.0246	0.0048	28800	6.95E-07
GUCA2A	0.0043	0.0039	49736	5.79E-01	-0.0811	0.0123	28194	1.44E-10	0.0001	0.0030	28639	9.87E-01	-0.0019	0.0040	28656	6.85E-01	0.0350	0.0051	28655	2.04E-11
ALPP	-0.0157	0.0143	49744	5.82E-01	0.0147	0.0034	28212	3.45E-05	-0.0025	0.0008	28661	3.81E-03	-0.0019	0.0011	28678	1.16E-01	-0.0010	0.0014	28677	5.48E-01
RBP1	-0.0089	0.0081	42343	5.82E-01	-0.0073	0.0073	23314	3.88E-01	-0.0025	0.0018	23671	2.06E-01	-0.0010	0.0024	23685	7.24E-01	-0.0019	0.0030	23684	5.88E-01
SPINT2	0.0052	0.0047	50189	5.82E-01	0.1259	0.0102	28442	4.28E-34	0.0204	0.0025	28888	8.50E-16	0.0257	0.0033	28904	1.61E-14	0.0304	0.0042	28903	1.78E-12
ENPP6	0.0049	0.0044	42387	5.82E-01	-0.1129	0.0129	23360	1.30E-17	-0.0204	0.0032	23719	3.30E-10	-0.0215	0.0042	23733	7.15E-07	-0.0123	0.0054	23732	3.46E-02
CFHR5	0.0053	0.0048	43004	5.83E-01	0.1767	0.0117	23723	9.81E-50	0.0058	0.0029	24093	5.93E-02	-0.0073	0.0038	24108	7.62E-02	-0.0070	0.0049	24107	1.98E-01
CXCL16	-0.0030	0.0028	50511	5.83E-01	0.1051	0.0171	28635	2.18E-09	0.0400	0.0042	29083	3.52E-21	0.0333	0.0055	29099	3.05E-09	0.0554	0.0071	29098	1.53E-14
ELAVL4	-0.0106	0.0097	42120	5.84E-01	0.0085	0.0060	23217	2.09E-01	0.0023	0.0015	23575	1.55E-01	0.0017	0.0019	23590	4.53E-01	0.0023	0.0025	23589	4.28E-01
MRI1	0.0085	0.0078	42343	5.85E-01	0.0286	0.0074	23314	2.19E-04	0.0019	0.0018	23671	3.50E-01	-0.0005	0.0024	23685	8.60E-01	-0.0004	0.0031	23684	9.05E-01
TCL1A	0.0127	0.0117	49515	5.86E-01	0.0067	0.0042	28060	1.50E-01	0.0148	0.0010	28504	8.17E-46	0.0144	0.0014	28520	1.01E-25	0.0259	0.0017	28519	5.75E-49

NUDT16	0.0109	0.0100	43273	5.87E-01	0.0892	0.0056	23859	2.06E-55	0.0070	0.0014	24231	8.11E-07	0.0048	0.0018	24246	1.33E-02	0.0029	0.0023	24245	2.70E-01
TNFAIP2	0.0061	0.0056	43346	5.88E-01	0.1237	0.0102	23893	2.13E-32	0.0144	0.0025	24266	1.98E-08	0.0119	0.0033	24281	6.29E-04	0.0207	0.0043	24280	2.53E-06
SERPINB8	-0.0074	0.0068	50529	5.89E-01	0.0251	0.0072	28636	9.10E-04	0.0055	0.0018	29090	2.95E-03	0.0037	0.0023	29107	1.50E-01	0.0154	0.0030	29106	5.39E-07
GP1BB	0.0084	0.0078	42109	5.90E-01	0.0474	0.0074	23248	5.05E-10	0.0214	0.0018	23603	4.31E-31	0.0226	0.0024	23617	2.81E-20	0.0195	0.0031	23616	8.06E-10
EIF4G3	0.0083	0.0076	43455	5.90E-01	0.0375	0.0074	23960	8.01E-07	0.0227	0.0018	24328	1.46E-35	0.0232	0.0024	24343	6.62E-22	0.0284	0.0031	24342	7.09E-20
DUT	0.0128	0.0118	43346	5.90E-01	0.0636	0.0047	23893	4.90E-40	0.0128	0.0012	24266	7.31E-28	0.0153	0.0015	24281	5.50E-23	0.0186	0.0020	24280	1.72E-20
RAB6B	-0.0059	0.0055	48799	5.91E-01	0.0019	0.0090	27661	8.75E-01	-0.0005	0.0022	28098	8.44E-01	-0.0032	0.0029	28115	3.25E-01	-0.0023	0.0037	28114	6.04E-01
CCL28	-0.0074	0.0068	49743	5.91E-01	0.0962	0.0070	28196	1.73E-41	-0.0172	0.0017	28642	5.47E-23	-0.0172	0.0023	28658	8.81E-14	-0.0168	0.0029	28657	1.97E-08
SEPTIN8	0.0041	0.0038	43344	5.91E-01	0.1193	0.0151	23894	9.21E-15	-0.0225	0.0037	24264	2.09E-09	-0.0310	0.0049	24279	3.92E-10	-0.0209	0.0062	24278	1.36E-03
GALNT2	-0.0032	0.0030	50397	5.92E-01	-0.0664	0.0161	28576	7.26E-05	0.0228	0.0039	29025	1.24E-08	0.0326	0.0052	29042	7.02E-10	0.0299	0.0067	29041	1.32E-05
ATF4	0.0041	0.0039	41982	5.96E-01	0.0238	0.0150	23146	1.56E-01	-0.0082	0.0037	23506	3.62E-02	-0.0079	0.0049	23521	1.38E-01	-0.0126	0.0062	23520	6.12E-02
CR2	0.0058	0.0054	50176	5.96E-01	-0.0398	0.0089	28453	1.80E-05	0.0215	0.0022	28897	2.50E-22	0.0199	0.0029	28913	1.30E-11	0.0253	0.0037	28912	2.35E-11
ACE2	-0.0065	0.0061	49059	5.96E-01	-0.0369	0.0081	27799	1.13E-05	0.0539	0.0019	28234	8.35E-166	0.0462	0.0026	28248	2.32E-70	0.0489	0.0033	28247	4.89E-48
SIRT2	0.0110	0.0102	49744	5.98E-01	0.0605	0.0047	28212	2.80E-36	0.0093	0.0012	28661	2.98E-15	0.0094	0.0015	28678	1.40E-09	0.0099	0.0020	28677	1.01E-06
TMED8	0.0126	0.0118	43346	5.99E-01	0.0495	0.0047	23893	1.56E-24	0.0143	0.0012	24266	7.85E-34	0.0160	0.0015	24281	1.47E-24	0.0147	0.0020	24280	2.78E-13
PARK7	0.0065	0.0061	49982	6.00E-01	0.0868	0.0079	28299	5.29E-27	0.0057	0.0019	28747	5.19E-03	0.0048	0.0026	28764	8.13E-02	0.0036	0.0033	28763	3.30E-01
CRX	-0.0132	0.0123	49059	6.02E-01	-0.0041	0.0040	27799	3.74E-01	0.0004	0.0010	28234	7.38E-01	-0.0009	0.0013	28248	5.30E-01	-0.0001	0.0017	28247	9.68E-01
GIPC3	0.0120	0.0112	43346	6.03E-01	0.0572	0.0050	23893	2.41E-29	0.0120	0.0012	24266	3.76E-22	0.0143	0.0016	24281	4.50E-18	0.0124	0.0021	24280	5.64E-09
IL17D	0.0041	0.0039	49043	6.03E-01	-0.0097	0.0125	27807	5.13E-01	-0.0032	0.0031	28251	3.45E-01	-0.0041	0.0040	28266	3.71E-01	-0.0040	0.0052	28265	5.15E-01
IL3RA	0.0039	0.0036	49043	6.04E-01	-0.0263	0.0136	27807	7.65E-02	0.0073	0.0033	28251	3.86E-02	0.0093	0.0044	28266	4.65E-02	0.0112	0.0056	28265	6.46E-02
SART1	-0.0046	0.0044	42109	6.04E-01	0.0211	0.0138	23248	1.71E-01	0.0125	0.0034	23603	3.42E-04	0.0095	0.0045	23617	4.78E-02	0.0322	0.0057	23616	4.50E-08
ARTN	0.0054	0.0051	49043	6.04E-01	0.0202	0.0096	27807	5.24E-02	0.0033	0.0023	28251	1.96E-01	0.0006	0.0031	28266	8.73E-01	0.0011	0.0040	28265	8.14E-01
CLEC5A	-0.0036	0.0034	49824	6.05E-01	0.1613	0.0142	28260	7.20E-29	-0.0616	0.0035	28704	1.65E-69	-0.0665	0.0046	28719	7.38E-47	-0.0665	0.0059	28718	7.22E-29
CERT	0.0075	0.0071	48799	6.05E-01	0.0589	0.0069	27661	8.54E-17	0.0183	0.0017	28098	2.00E-26	0.0167	0.0022	28115	2.48E-13	0.0163	0.0029	28114	3.71E-08
CCL16	-0.0066	0.0062	50594	6.05E-01	0.0255	0.0077	28667	1.68E-03	0.0385	0.0019	29116	6.28E-92	0.0374	0.0025	29132	1.36E-50	0.0488	0.0032	29131	5.42E-52
ACOX1	0.0060	0.0057	49984	6.08E-01	0.0858	0.0086	28340	6.67E-23	0.0188	0.0021	28785	7.26E-19	0.0185	0.0028	28801	5.01E-11	0.0218	0.0035	28800	1.98E-09
TBR1	0.0058	0.0055	42343	6.08E-01	0.0086	0.0105	23314	4.85E-01	-0.0005	0.0026	23671	8.81E-01	-0.0002	0.0034	23685	9.66E-01	0.0011	0.0044	23684	8.33E-01
AMY1A_AMY1B_AMY1C	-0.0062	0.0059	40841	6.08E-01	-0.0481	0.0100	22642	3.63E-06	-0.0112	0.0025	22983	1.07E-05	-0.0123	0.0033	22998	2.88E-04	-0.0096	0.0042	22997	3.30E-02
ZNF830	-0.0096	0.0091	43331	6.08E-01	-0.0222	0.0062	23884	6.97E-04	-0.0035	0.0015	24254	3.05E-02	-0.0036	0.0020	24269	1.06E-01	-0.0048	0.0026	24268	8.94E-02
TCL1B	-0.0097	0.0091	49059	6.08E-01	0.0070	0.0055	27799	2.58E-01	0.0036	0.0013	28234	1.09E-02	0.0044	0.0018	28248	1.84E-02	0.0068	0.0023	28247	4.65E-03
MITD1	0.0118	0.0112	49589	6.08E-01	0.0520	0.0043	28083	5.99E-32	0.0166	0.0011	28527	6.26E-54	0.0178	0.0014	28543	5.60E-36	0.0187	0.0018	28542	1.66E-24
IGSF8	0.0037	0.0035	49984	6.08E-01	0.1477	0.0136	28340	1.77E-26	0.0345	0.0033	28785	1.29E-24	0.0284	0.0044	28801	2.33E-10	0.0367	0.0056	28800	1.94E-10
TBC1D17	0.0056	0.0053	48799	6.08E-01	0.0122	0.0094	27661	2.53E-01	-0.0156	0.0023	28098	3.36E-11	-0.0203	0.0031	28115	6.55E-11	-0.0174	0.0039	28114	1.81E-05
LGALS8	0.0074	0.0070	50415	6.08E-01	0.0843	0.0068	28544	4.28E-34	0.0246	0.0017	28996	1.53E-48	0.0261	0.0022	29013	7.00E-32	0.0283	0.0028	29012	5.49E-23
NPDC1	-0.0038	0.0036	49984	6.10E-01	0.2557	0.0129	28340	2.08E-85	-0.0239	0.0032	28785	9.76E-14	-0.0403	0.0042	28801	1.68E-21	-0.0258	0.0054	28800	3.01E-06
PPP3R1	0.0050	0.0048	49589	6.10E-01	0.1556	0.0102	28083	3.03E-51	0.0312	0.0025	28527	5.20E-35	0.0296	0.0033	28543	8.42E-19	0.0399	0.0042	28542	1.92E-20
IL19	-0.0086	0.0082	48732	6.10E-01	0.0234	0.0061	27551	2.35E-04	-0.0078	0.0015	27979	3.35E-07	-0.0101	0.0020	27994	5.45E-07	-0.0025	0.0025	27993	3.78E-01
TXNDC5	0.0083	0.0079	50415	6.12E-01	0.0855	0.0061	28544	1.39E-43	0.0210	0.0015	28996	1.83E-44	0.0221	0.0020	29013	8.14E-29	0.0261	0.0025	29012	2.79E-24
ECSCR	0.0061	0.0058	42120	6.12E-01	-0.0100	0.0101	23217	3.95E-01	0.0003	0.0025	23575	9.34E-01	0.0025	0.0033	23590	5.04E-01	-0.0025	0.0042	23589	6.23E-01
IL12B	-0.0068	0.0065	50529	6.12E-01	0.0014	0.0073	28636	8.80E-01	0.0226	0.0018	29090	1.67E-35	0.0288	0.0024	29107	2.67E-33	0.0424	0.0030	29106	2.39E-43
WWP2	0.0066	0.0063	49589	6.12E-01	0.0581	0.0077	28083	1.77E-13	0.0296	0.0019	28527	2.13E-54	0.0288	0.0025	28543	3.42E-30	0.0378	0.0032	28542	2.29E-31
EIF2AK2	0.0131	0.0126	43196	6.12E-01	0.0401	0.0045	23832	1.28E-18	0.0145	0.0011	24203	3.09E-39	0.0146	0.0014	24218	3.09E-23	0.0180	0.0019	24217	1.66E-21
SV2A	0.0074	0.0071	42343	6.12E-01	0.0598	0.0082	23314	8.23E-13	0.0115	0.0020	23671	1.61E-08	0.0148	0.0026	23685	4.30E-08	0.0165	0.0034	23684	2.45E-06

EIF2AK3	0.0080	0.0077	42109	6.12E-01	0.0235	0.0075	23248	3.07E-03	0.0092	0.0018	23603	1.14E-06	0.0105	0.0024	23617	2.80E-05	0.0143	0.0031	23616	8.58E-06
NCR1	-0.0045	0.0043	49837	6.12E-01	0.0322	0.0112	28243	6.76E-03	0.0019	0.0027	28689	5.43E-01	-0.0001	0.0036	28705	9.81E-01	0.0099	0.0046	28704	4.70E-02
GKN1	-0.0034	0.0032	47877	6.12E-01	0.0301	0.0156	27035	7.73E-02	-0.0169	0.0038	27458	1.64E-05	-0.0131	0.0050	27474	1.38E-02	-0.0218	0.0065	27473	1.28E-03
FGF7	0.0095	0.0091	41982	6.12E-01	0.0031	0.0064	23146	7.02E-01	-0.0008	0.0016	23506	6.77E-01	-0.0021	0.0021	23521	3.75E-01	-0.0032	0.0027	23520	2.86E-01
THSD1	0.0040	0.0039	41945	6.12E-01	-0.0385	0.0147	23185	1.45E-02	-0.0017	0.0036	23541	6.94E-01	0.0005	0.0048	23554	9.32E-01	-0.0076	0.0061	23553	2.68E-01
CRYBB1	0.0078	0.0075	43535	6.14E-01	0.1023	0.0074	24011	1.60E-41	0.0150	0.0018	24384	6.57E-16	0.0166	0.0024	24399	1.37E-11	0.0163	0.0031	24398	3.24E-07
TNXB	0.0031	0.0030	49982	6.15E-01	-0.0599	0.0162	28299	4.25E-04	-0.0135	0.0040	28747	1.08E-03	-0.0136	0.0052	28764	1.40E-02	-0.0205	0.0067	28763	3.72E-03
SPP1	-0.0055	0.0053	50513	6.15E-01	0.0514	0.0091	28607	3.48E-08	-0.0311	0.0022	29054	2.58E-44	-0.0371	0.0029	29069	2.20E-36	-0.0356	0.0037	29068	7.04E-21
ATXN10	0.0087	0.0083	48799	6.15E-01	0.0474	0.0059	27661	2.35E-15	0.0126	0.0014	28098	7.21E-18	0.0145	0.0019	28115	5.72E-14	0.0163	0.0024	28114	6.47E-11
EIF4G1	0.0120	0.0116	50529	6.16E-01	0.0458	0.0041	28636	3.86E-28	0.0146	0.0010	29090	6.77E-47	0.0142	0.0013	29107	4.18E-26	0.0170	0.0017	29106	9.66E-23
ANG	-0.0041	0.0039	49854	6.16E-01	0.1728	0.0123	28307	1.57E-43	0.0274	0.0030	28745	2.74E-19	0.0262	0.0040	28760	9.78E-11	0.0503	0.0051	28759	2.88E-22
SELP	0.0068	0.0066	50176	6.18E-01	0.1140	0.0073	28453	1.90E-53	0.0261	0.0018	28897	3.29E-47	0.0284	0.0024	28913	1.27E-32	0.0266	0.0030	28912	7.52E-18
PRTN3	-0.0059	0.0057	48732	6.18E-01	0.0846	0.0090	27568	3.09E-20	-0.0102	0.0022	27996	6.44E-06	-0.0156	0.0029	28009	1.59E-07	-0.0054	0.0037	28008	1.88E-01
KCTD5	-0.0054	0.0052	42609	6.19E-01	0.0588	0.0112	23531	3.33E-07	0.0386	0.0027	23897	1.42E-44	0.0323	0.0036	23912	9.33E-19	0.0515	0.0046	23911	4.77E-28
SIGLEC15	0.0093	0.0090	48799	6.19E-01	-0.0008	0.0055	27661	9.12E-01	0.0022	0.0013	28098	1.34E-01	0.0020	0.0018	28115	3.24E-01	0.0041	0.0023	28114	9.87E-02
CD164	0.0032	0.0031	49982	6.20E-01	0.0915	0.0157	28299	1.30E-08	0.0390	0.0038	28747	1.18E-23	0.0426	0.0051	28764	1.13E-16	0.0488	0.0065	28763	1.91E-13
CD33	-0.0094	0.0092	50125	6.20E-01	0.0043	0.0053	28423	4.91E-01	0.0016	0.0013	28868	2.50E-01	0.0000	0.0017	28885	9.99E-01	0.0009	0.0022	28884	7.42E-01
ENO2	0.0078	0.0076	50415	6.20E-01	0.0633	0.0063	28544	6.86E-23	0.0143	0.0015	28996	6.74E-20	0.0152	0.0020	29013	2.42E-13	0.0107	0.0026	29012	8.47E-05
ANGPTL4	-0.0055	0.0054	50106	6.20E-01	0.4971	0.0085	28399	0.00E+00	0.0044	0.0022	28844	5.86E-02	0.0138	0.0029	28860	3.55E-06	0.0380	0.0037	28859	8.32E-24
ARFIP1	0.0081	0.0079	43455	6.20E-01	0.0784	0.0071	23960	2.55E-27	0.0143	0.0017	24328	7.61E-16	0.0139	0.0023	24343	3.89E-09	0.0112	0.0030	24342	2.68E-04
SESTD1	0.0076	0.0075	48799	6.20E-01	0.0391	0.0066	27661	8.92E-09	0.0146	0.0016	28098	8.54E-19	0.0172	0.0021	28115	2.51E-15	0.0189	0.0027	28114	1.80E-11
CDH3	0.0042	0.0041	50415	6.22E-01	-0.0430	0.0115	28544	3.49E-04	-0.0334	0.0028	28996	5.27E-32	-0.0357	0.0037	29013	1.60E-21	-0.0356	0.0047	29012	2.05E-13
SIRT1	-0.0102	0.0100	42274	6.22E-01	0.0001	0.0058	23352	9.90E-01	0.0019	0.0014	23710	2.16E-01	0.0025	0.0019	23723	2.40E-01	0.0030	0.0024	23722	2.65E-01
WNT9A	0.0034	0.0033	49043	6.22E-01	0.0532	0.0148	27807	5.93E-04	-0.0354	0.0036	28251	3.80E-22	-0.0354	0.0047	28266	2.67E-13	-0.0237	0.0061	28265	1.90E-04
LELP1	0.0085	0.0083	42120	6.22E-01	0.0071	0.0069	23217	3.73E-01	-0.0009	0.0017	23575	6.60E-01	-0.0041	0.0022	23590	8.84E-02	-0.0045	0.0029	23589	1.53E-01
JPT2	0.0102	0.0100	43346	6.23E-01	0.0610	0.0056	23893	7.76E-27	0.0118	0.0014	24266	1.80E-17	0.0131	0.0018	24281	1.20E-12	0.0110	0.0023	24280	4.87E-06
ACAA1	-0.0098	0.0096	48785	6.24E-01	0.0361	0.0051	27677	5.91E-12	0.0300	0.0012	28109	1.50E-125	0.0297	0.0016	28125	3.30E-71	0.0343	0.0021	28124	1.49E-57
NAP1L4	0.0048	0.0048	43262	6.26E-01	0.0550	0.0119	23852	7.96E-06	-0.0084	0.0029	24225	5.54E-03	-0.0128	0.0038	24240	1.45E-03	-0.0118	0.0049	24239	2.45E-02
CENPF	0.0065	0.0064	42740	6.26E-01	-0.0253	0.0090	23551	8.74E-03	-0.0126	0.0022	23912	2.84E-08	-0.0189	0.0029	23927	2.88E-10	-0.0161	0.0038	23926	3.56E-05
ATP1B4	0.0049	0.0048	41982	6.28E-01	0.0034	0.0121	23146	8.24E-01	-0.0024	0.0030	23506	4.80E-01	-0.0016	0.0039	23521	7.41E-01	-0.0039	0.0050	23520	5.06E-01
BLMH	0.0038	0.0037	50594	6.28E-01	0.1027	0.0129	28667	5.56E-15	0.0148	0.0032	29116	4.82E-06	0.0132	0.0041	29132	2.34E-03	0.0117	0.0053	29131	4.11E-02
PDE5A	0.0121	0.0119	42580	6.28E-01	0.0430	0.0048	23496	8.01E-19	0.0132	0.0012	23858	8.55E-29	0.0149	0.0015	23871	1.31E-21	0.0141	0.0020	23870	2.89E-12
ZBTB17	-0.0050	0.0049	49059	6.28E-01	0.0219	0.0102	27799	4.99E-02	-0.0018	0.0025	28234	5.38E-01	-0.0079	0.0033	28248	2.42E-02	0.0103	0.0042	28247	2.31E-02
FGFR2	-0.0026	0.0026	50125	6.29E-01	0.0536	0.0185	28423	6.39E-03	0.0600	0.0045	28868	1.08E-39	0.0433	0.0059	28885	7.98E-13	0.0690	0.0076	28884	5.83E-19
RNF43	-0.0067	0.0066	42740	6.29E-01	0.0046	0.0086	23551	6.62E-01	0.0075	0.0021	23912	6.57E-04	0.0089	0.0028	23927	2.28E-03	0.0105	0.0036	23926	5.66E-03
HS1BP3	0.0104	0.0103	42387	6.29E-01	0.0645	0.0055	23360	1.84E-30	0.0150	0.0014	23719	1.08E-27	0.0171	0.0018	23733	8.07E-21	0.0173	0.0023	23732	2.27E-13
LRPAP1	0.0066	0.0065	50415	6.29E-01	0.0453	0.0073	28544	1.87E-09	0.0165	0.0018	28996	1.30E-19	0.0148	0.0024	29013	8.36E-10	0.0165	0.0030	29012	1.25E-07
DHRS4L2	0.0054	0.0054	43426	6.29E-01	0.0625	0.0104	23934	4.38E-09	0.0223	0.0025	24305	3.36E-18	0.0247	0.0033	24320	3.35E-13	0.0296	0.0043	24319	1.38E-11
MDM1	0.0036	0.0036	42343	6.29E-01	0.0467	0.0162	23314	6.71E-03	0.0285	0.0040	23671	1.35E-12	0.0375	0.0052	23685	1.72E-12	0.0406	0.0067	23684	3.34E-09
CCER2	-0.0072	0.0071	42387	6.29E-01	-0.0221	0.0080	23360	9.99E-03	-0.0099	0.0020	23719	9.23E-07	-0.0130	0.0026	23733	1.38E-06	-0.0035	0.0034	23732	3.61E-01
MAD1L1	-0.0059	0.0058	49424	6.29E-01	0.0198	0.0088	27968	3.71E-02	0.0297	0.0021	28410	1.00E-42	0.0238	0.0028	28426	1.04E-16	0.0489	0.0036	28425	1.91E-40
IL33	0.0045	0.0045	49043	6.29E-01	0.0218	0.0110	27807	7.12E-02	-0.0008	0.0027	28251	8.09E-01	-0.0012	0.0035	28266	7.83E-01	0.0025	0.0046	28265	6.43E-01
BCAT2	0.0062	0.0062	42120	6.29E-01	-0.0075	0.0094	23217	4.97E-01	-0.0048	0.0023	23575	4.89E-02	-0.0044	0.0030	23590	1.85E-01	-0.0057	0.0039	23589	1.84E-01

GLP1R	0.0043	0.0043	42120	6.29E-01	0.0099	0.0134	23217	5.35E-01	-0.0061	0.0033	23575	8.19E-02	-0.0009	0.0043	23590	8.64E-01	-0.0062	0.0056	23589	3.23E-01
CGA	-0.0093	0.0092	49982	6.29E-01	0.0130	0.0052	28299	2.10E-02	-0.0034	0.0013	28747	1.23E-02	-0.0046	0.0017	28764	1.00E-02	-0.0018	0.0022	28763	4.70E-01
AMY2B	-0.0058	0.0058	46581	6.29E-01	-0.0490	0.0089	26514	9.83E-08	-0.0115	0.0022	26936	2.63E-07	-0.0089	0.0029	26951	2.92E-03	-0.0096	0.0037	26950	1.40E-02
MAP1LC3B2	0.0076	0.0075	42109	6.29E-01	-0.0101	0.0077	23248	2.48E-01	-0.0008	0.0019	23603	7.01E-01	0.0001	0.0025	23617	9.82E-01	0.0025	0.0032	23616	4.97E-01
CHI3L1	-0.0092	0.0092	48877	6.30E-01	-0.0133	0.0054	27816	2.20E-02	-0.0010	0.0013	28250	4.94E-01	-0.0041	0.0017	28265	2.69E-02	-0.0037	0.0022	28264	1.29E-01
CXCL17	-0.0057	0.0057	50529	6.31E-01	0.0786	0.0084	28636	3.08E-20	0.0077	0.0021	29090	2.99E-04	0.0137	0.0027	29107	7.72E-07	0.0202	0.0035	29106	1.36E-08
MAPKAPK2	0.0085	0.0084	42740	6.31E-01	0.0597	0.0067	23551	3.17E-18	0.0143	0.0017	23912	1.78E-17	0.0154	0.0022	23927	5.20E-12	0.0149	0.0028	23926	2.41E-07
PSMD1	0.0057	0.0057	43455	6.32E-01	-0.0037	0.0100	23960	7.71E-01	-0.0044	0.0025	24328	9.18E-02	-0.0058	0.0032	24343	1.02E-01	0.0023	0.0042	24342	6.45E-01
IL17C	-0.0081	0.0081	49043	6.34E-01	0.0038	0.0060	27807	6.01E-01	-0.0069	0.0015	28251	5.35E-06	-0.0082	0.0019	28266	4.69E-05	-0.0053	0.0025	28265	4.91E-02
RANBP2	0.0038	0.0038	42120	6.35E-01	-0.0235	0.0153	23217	1.69E-01	-0.0101	0.0038	23575	1.00E-02	-0.0082	0.0050	23590	1.30E-01	-0.0115	0.0064	23589	9.58E-02
VASP	0.0083	0.0083	43572	6.35E-01	0.0763	0.0067	24036	4.52E-29	0.0190	0.0016	24408	4.56E-30	0.0201	0.0022	24423	7.05E-20	0.0208	0.0028	24422	2.61E-13
PPP1R2	0.0092	0.0092	49984	6.36E-01	0.0633	0.0052	28340	8.12E-33	0.0175	0.0013	28785	4.84E-42	0.0190	0.0017	28801	7.02E-29	0.0205	0.0022	28800	1.38E-20
C9orf40	0.0094	0.0094	43346	6.36E-01	-0.0219	0.0061	23893	5.97E-04	-0.0168	0.0015	24266	8.05E-29	-0.0217	0.0020	24281	1.23E-27	-0.0211	0.0025	24280	2.58E-16
APEX1	-0.0068	0.0069	50242	6.36E-01	0.0342	0.0070	28461	2.48E-06	0.0192	0.0017	28908	2.20E-28	0.0167	0.0023	28925	4.71E-13	0.0316	0.0029	28924	1.28E-26
LRIG1	-0.0040	0.0040	50251	6.36E-01	0.0377	0.0120	28487	3.04E-03	0.0132	0.0029	28934	1.29E-05	0.0000	0.0039	28951	9.98E-01	0.0192	0.0050	28950	1.96E-04
NUP50	-0.0038	0.0038	42109	6.36E-01	-0.0265	0.0152	23248	1.17E-01	-0.0071	0.0037	23603	7.22E-02	-0.0065	0.0049	23617	2.31E-01	-0.0085	0.0063	23616	2.25E-01
CNTN5	0.0043	0.0043	50099	6.37E-01	-0.0767	0.0111	28370	1.38E-11	-0.0204	0.0027	28819	1.44E-13	-0.0288	0.0036	28836	2.36E-15	-0.0364	0.0046	28835	6.93E-15
VMO1	0.0078	0.0078	49744	6.37E-01	-0.0399	0.0061	28212	2.36E-10	0.0321	0.0015	28661	2.48E-100	0.0297	0.0020	28678	5.63E-50	0.0409	0.0025	28677	2.47E-57
CTAG1A_CTAG1B	-0.0056	0.0057	42661	6.37E-01	-0.0017	0.0099	23503	8.94E-01	0.0034	0.0024	23864	1.98E-01	0.0032	0.0032	23879	3.76E-01	0.0029	0.0041	23878	5.48E-01
PLIN3	-0.0049	0.0050	49984	6.38E-01	0.0688	0.0097	28340	5.12E-12	0.0093	0.0024	28785	1.67E-04	0.0097	0.0031	28801	3.22E-03	0.0131	0.0040	28800	1.91E-03
NIT2	-0.0084	0.0085	43370	6.40E-01	0.0714	0.0065	23905	8.23E-27	0.0270	0.0016	24276	9.00E-63	0.0273	0.0021	24291	2.92E-37	0.0277	0.0027	24290	9.48E-24
LY96	-0.0041	0.0041	49589	6.40E-01	0.0793	0.0118	28083	5.99E-11	0.0166	0.0029	28527	1.88E-08	-0.0018	0.0038	28543	6.84E-01	0.0124	0.0049	28542	1.72E-02
CELA2A	-0.0069	0.0070	43537	6.40E-01	0.0521	0.0080	24024	2.15E-10	-0.0142	0.0020	24398	8.57E-13	-0.0121	0.0026	24413	5.34E-06	-0.0174	0.0033	24412	3.46E-07
EXTL1	0.0054	0.0055	42109	6.40E-01	-0.0582	0.0106	23248	1.07E-07	0.0070	0.0026	23603	1.02E-02	0.0087	0.0034	23617	1.75E-02	0.0105	0.0044	23616	2.65E-02
SEZ6	-0.0035	0.0036	42343	6.40E-01	-0.0162	0.0161	23314	3.84E-01	-0.0613	0.0039	23671	4.78E-54	-0.0768	0.0052	23685	1.19E-48	-0.0899	0.0066	23684	1.39E-40
RNASEH2A	0.0056	0.0057	43455	6.40E-01	0.0404	0.0101	23960	1.27E-04	0.0200	0.0025	24328	1.80E-15	0.0231	0.0033	24343	4.64E-12	0.0282	0.0042	24342	5.45E-11
ART3	0.0039	0.0040	50176	6.41E-01	-0.0674	0.0119	28453	4.31E-08	-0.0422	0.0029	28897	2.42E-46	-0.0362	0.0038	28913	2.16E-20	-0.0306	0.0050	28912	1.65E-09
TLR4	0.0032	0.0032	42274	6.41E-01	-0.0305	0.0178	23352	1.22E-01	0.0116	0.0044	23710	1.22E-02	0.0142	0.0058	23723	2.15E-02	0.0165	0.0074	23722	3.90E-02
BAG4	0.0056	0.0058	42274	6.41E-01	0.0701	0.0100	23352	6.45E-12	0.0285	0.0025	23710	1.35E-30	0.0300	0.0032	23723	9.51E-20	0.0392	0.0042	23722	2.01E-20
TGOLN2	-0.0029	0.0030	43572	6.41E-01	0.0350	0.0188	24036	9.14E-02	-0.0326	0.0046	24408	3.77E-12	-0.0330	0.0061	24423	1.24E-07	-0.0338	0.0078	24422	3.05E-05
RWDD1	0.0072	0.0074	50415	6.42E-01	0.0729	0.0065	28544	2.04E-28	0.0140	0.0016	28996	3.08E-18	0.0136	0.0021	29013	1.70E-10	0.0137	0.0027	29012	6.67E-07
SERPINA1	-0.0009	0.0009	42788	6.45E-01	0.5147	0.0614	23654	2.06E-16	-0.1333	0.0151	24019	2.34E-18	-0.1604	0.0198	24034	1.91E-15	-0.1285	0.0255	24033	9.96E-07
COMMD9	-0.0044	0.0045	43331	6.45E-01	0.0872	0.0125	23884	7.94E-12	0.0130	0.0031	24254	3.77E-05	0.0238	0.0040	24269	8.37E-09	0.0204	0.0052	24268	1.51E-04
UROS	-0.0076	0.0078	42343	6.45E-01	-0.0060	0.0074	23314	4.94E-01	-0.0016	0.0018	23671	4.36E-01	-0.0036	0.0024	23685	1.78E-01	0.0010	0.0031	23684	7.88E-01
TAGLN3	-0.0068	0.0069	41982	6.45E-01	0.0051	0.0085	23146	6.23E-01	-0.0040	0.0021	23506	6.80E-02	-0.0041	0.0027	23521	1.77E-01	-0.0043	0.0035	23520	2.72E-01
IL36A	0.0064	0.0066	42274	6.45E-01	-0.0035	0.0087	23352	7.50E-01	-0.0042	0.0021	23710	6.36E-02	-0.0038	0.0028	23723	2.28E-01	-0.0053	0.0036	23722	1.89E-01
CGB3_CGB5_CGB8	0.0047	0.0048	43572	6.45E-01	0.0021	0.0114	24036	8.88E-01	-0.0033	0.0028	24408	2.85E-01	-0.0032	0.0037	24423	4.52E-01	-0.0048	0.0047	24422	3.78E-01
UPK3BL1	0.0060	0.0061	42656	6.46E-01	-0.0084	0.0092	23510	4.35E-01	-0.0056	0.0023	23871	1.85E-02	-0.0089	0.0030	23886	4.69E-03	-0.0113	0.0038	23885	5.19E-03
RHOC	-0.0131	0.0135	49298	6.46E-01	0.0479	0.0036	27962	1.16E-38	0.0083	0.0009	28405	2.26E-20	0.0097	0.0012	28421	4.36E-16	0.0084	0.0015	28420	5.63E-08
MET	0.0023	0.0023	50105	6.46E-01	0.2721	0.0206	28362	2.09E-38	-0.1034	0.0050	28807	3.26E-92	-0.1233	0.0066	28823	1.29E-75	-0.1654	0.0085	28822	2.89E-82
TBCB	0.0112	0.0116	49589	6.46E-01	0.0512	0.0042	28083	2.14E-33	0.0114	0.0010	28527	4.12E-28	0.0120	0.0013	28543	2.71E-18	0.0117	0.0017	28542	3.87E-11
NADK	-0.0064	0.0066	49984	6.46E-01	0.0818	0.0076	28340	2.06E-26	0.0204	0.0019	28785	1.41E-27	0.0135	0.0024	28801	6.25E-08	0.0349	0.0031	28800	4.85E-28
DOK2	0.0137	0.0142	49984	6.46E-01	0.0367	0.0034	28340	4.36E-26	0.0128	0.0008	28785	5.71E-52	0.0133	0.0011	28801	5.05E-33	0.0143	0.0014	28800	3.43E-23

DPP6	0.0039	0.0040	49744	6.46E-01	-0.0845	0.0121	28212	1.10E-11	-0.0354	0.0030	28661	2.96E-32	-0.0674	0.0039	28678	6.64E-66	-0.0780	0.0050	28677	1.52E-53
ARHGEF10	0.0104	0.0107	43455	6.46E-01	0.0356	0.0052	23960	2.52E-11	0.0135	0.0013	24328	1.58E-25	0.0144	0.0017	24343	4.57E-17	0.0160	0.0022	24342	4.40E-13
FAP	0.0031	0.0032	50594	6.46E-01	-0.0954	0.0150	28667	5.81E-10	0.0533	0.0037	29116	3.78E-47	0.0605	0.0048	29132	2.43E-35	0.0466	0.0062	29131	1.64E-13
CD300C	-0.0040	0.0041	50415	6.46E-01	0.0623	0.0117	28544	2.28E-07	0.0069	0.0029	28996	2.11E-02	0.0040	0.0038	29013	3.39E-01	0.0189	0.0048	29012	1.71E-04
DYNLT1	0.0089	0.0093	42343	6.46E-01	0.0292	0.0063	23314	6.98E-06	0.0171	0.0015	23671	2.36E-28	0.0165	0.0020	23685	9.93E-16	0.0225	0.0026	23684	2.18E-17
EPHA4	-0.0031	0.0033	42580	6.46E-01	-0.0772	0.0175	23496	2.25E-05	-0.0270	0.0043	23858	7.11E-10	-0.0387	0.0057	23871	2.25E-11	-0.0334	0.0073	23870	9.16E-06
EDDM3B	-0.0057	0.0059	43331	6.46E-01	0.0179	0.0095	23884	8.65E-02	-0.0111	0.0023	24254	3.28E-06	-0.0087	0.0031	24269	7.17E-03	-0.0135	0.0039	24268	1.10E-03
ADAMTS1	0.0035	0.0036	42274	6.46E-01	0.0291	0.0161	23352	1.02E-01	0.0125	0.0040	23710	2.52E-03	-0.0011	0.0052	23723	8.60E-01	0.0118	0.0067	23722	1.07E-01
EFNB2	-0.0065	0.0067	42343	6.46E-01	-0.0091	0.0087	23314	3.69E-01	-0.0114	0.0021	23671	2.08E-07	-0.0140	0.0028	23685	1.39E-06	-0.0164	0.0036	23684	1.26E-05
CNGB3	0.0060	0.0062	42120	6.46E-01	0.0097	0.0094	23217	3.70E-01	0.0034	0.0023	23575	1.79E-01	0.0039	0.0030	23590	2.53E-01	0.0025	0.0039	23589	5.86E-01
FBN2	-0.0066	0.0068	42343	6.46E-01	0.0073	0.0084	23314	4.60E-01	0.0008	0.0021	23671	7.48E-01	0.0018	0.0027	23685	5.65E-01	0.0032	0.0035	23684	4.27E-01
MTHFSD	0.0125	0.0130	42740	6.46E-01	0.0367	0.0044	23551	3.05E-16	0.0149	0.0011	23912	1.13E-42	0.0160	0.0014	23927	1.55E-28	0.0179	0.0018	23926	5.99E-22
CHMP1A	0.0087	0.0091	49589	6.46E-01	0.0417	0.0053	28083	2.15E-14	0.0134	0.0013	28527	3.89E-24	0.0139	0.0017	28543	1.85E-15	0.0107	0.0022	28542	2.91E-06
CFP	0.0026	0.0027	43602	6.46E-01	0.0329	0.0206	24051	1.53E-01	0.1197	0.0050	24424	3.20E-123	0.1194	0.0066	24439	1.36E-70	0.1337	0.0085	24438	9.23E-54
MCTS1	0.0029	0.0030	43346	6.47E-01	0.0325	0.0189	23893	1.23E-01	0.0140	0.0047	24266	3.82E-03	0.0127	0.0061	24281	5.37E-02	0.0141	0.0079	24280	9.99E-02
LPCAT2	-0.0046	0.0048	49744	6.47E-01	-0.0060	0.0108	28212	6.52E-01	-0.0030	0.0026	28661	3.08E-01	-0.0108	0.0035	28678	3.08E-03	0.0081	0.0045	28677	9.35E-02
TSPAN1	0.0063	0.0065	49059	6.47E-01	-0.0027	0.0076	27799	7.77E-01	-0.0006	0.0019	28234	7.83E-01	-0.0037	0.0024	28248	1.65E-01	0.0000	0.0031	28247	9.98E-01
PAXX	0.0051	0.0053	42580	6.48E-01	0.0792	0.0107	23496	4.38E-13	0.0258	0.0026	23858	3.15E-22	0.0244	0.0035	23871	5.42E-12	0.0384	0.0044	23870	2.70E-07
PRDX2	0.0070	0.0073	42838	6.48E-01	-0.0304	0.0080	23657	2.85E-04	-0.0196	0.0020	24024	5.42E-23	-0.0259	0.0026	24039	5.89E-23	-0.0255	0.0033	24038	5.31E-14
ATRAID	-0.0032	0.0033	43346	6.48E-01	-0.0563	0.0173	23893	2.06E-03	-0.0055	0.0042	24266	2.35E-01	-0.0092	0.0056	24281	1.34E-01	0.0102	0.0072	24280	1.98E-01
CLEC4D	-0.0072	0.0075	49907	6.49E-01	0.1105	0.0064	28300	5.24E-64	-0.0022	0.0016	28746	1.94E-01	-0.0012	0.0021	28762	6.17E-01	-0.0027	0.0027	28761	3.79E-01
HSPA1A	0.0080	0.0083	50105	6.49E-01	0.0648	0.0058	28399	3.78E-28	0.0164	0.0014	28843	4.37E-30	0.0160	0.0019	28859	4.48E-17	0.0189	0.0024	28858	1.26E-14
BAX	-0.0099	0.0104	48720	6.49E-01	0.0517	0.0047	27613	5.90E-27	0.0088	0.0012	28049	8.80E-14	0.0091	0.0015	28066	5.85E-09	0.0088	0.0020	28065	1.36E-05
NUB1	0.0093	0.0097	49907	6.49E-01	0.0478	0.0050	28300	3.12E-21	0.0138	0.0012	28746	2.42E-29	0.0142	0.0016	28762	2.84E-18	0.0158	0.0021	28761	4.55E-14
TOP2B	0.0088	0.0092	42274	6.49E-01	0.0427	0.0062	23352	1.38E-11	0.0241	0.0015	23710	1.37E-55	0.0262	0.0020	23723	5.69E-38	0.0334	0.0026	23722	1.43E-37
EDA2R	-0.0042	0.0044	50397	6.49E-01	0.0669	0.0108	28576	1.55E-09	-0.0226	0.0026	29025	2.96E-17	-0.0279	0.0035	29042	3.68E-15	-0.0196	0.0045	29041	2.22E-05
CYTL1	-0.0026	0.0028	43537	6.49E-01	0.1017	0.0203	24024	1.31E-06	-0.0607	0.0050	24398	1.91E-33	-0.0601	0.0066	24413	2.51E-19	-0.0680	0.0085	24412	3.22E-15
FGFR4	-0.0058	0.0061	42580	6.49E-01	0.0342	0.0094	23496	5.04E-04	-0.0002	0.0023	23858	9.54E-01	0.0010	0.0030	23871	7.86E-01	0.0073	0.0039	23870	8.24E-02
CABP2	0.0071	0.0075	42343	6.49E-01	0.0261	0.0077	23314	1.40E-03	0.0105	0.0019	23671	6.75E-08	0.0124	0.0025	23685	1.55E-06	0.0106	0.0032	23684	1.64E-03
PIK3AP1	0.0069	0.0072	49907	6.49E-01	0.0218	0.0067	28300	2.20E-03	-0.0008	0.0017	28746	6.65E-01	-0.0078	0.0022	28762	5.87E-04	-0.0020	0.0028	28761	5.40E-01
SERPINB5	-0.0053	0.0056	49059	6.49E-01	-0.0180	0.0088	27799	6.17E-02	0.0008	0.0022	28234	7.49E-01	0.0002	0.0028	28248	9.58E-01	0.0029	0.0036	28247	4.91E-01
ESR1	-0.0063	0.0066	42274	6.49E-01	-0.0134	0.0088	23352	1.72E-01	-0.0008	0.0022	23710	7.68E-01	-0.0020	0.0029	23723	5.50E-01	-0.0043	0.0037	23722	2.99E-01
MYOM1	-0.0051	0.0054	42120	6.49E-01	0.0060	0.0107	23217	6.46E-01	0.0045	0.0026	23575	1.05E-01	0.0023	0.0034	23590	5.71E-01	0.0011	0.0044	23589	8.43E-01
UPK3A	0.0054	0.0056	42120	6.49E-01	-0.0029	0.0103	23217	8.29E-01	-0.0064	0.0025	23575	1.67E-02	-0.0077	0.0033	23590	3.01E-02	-0.0101	0.0043	23589	2.81E-02
GDNF	0.0042	0.0044	48799	6.50E-01	0.0244	0.0112	27661	4.40E-02	0.0181	0.0027	28098	9.23E-11	0.0094	0.0036	28115	1.34E-02	0.0275	0.0046	28114	6.94E-09
RPA2	0.0034	0.0036	42274	6.51E-01	0.0359	0.0160	23352	3.84E-02	0.0104	0.0039	23710	1.21E-02	0.0119	0.0052	23723	3.11E-02	0.0161	0.0067	23722	2.38E-02
APRT	0.0053	0.0056	49509	6.51E-01	0.0445	0.0087	28059	8.39E-07	0.0119	0.0021	28502	5.48E-08	0.0140	0.0028	28518	1.43E-06	0.0165	0.0036	28517	1.07E-05
SLC51B	-0.0082	0.0086	42109	6.51E-01	-0.0173	0.0066	23248	1.49E-02	0.0096	0.0016	23603	8.55E-09	0.0064	0.0022	23617	4.64E-03	0.0062	0.0028	23616	3.63E-02
CLEC2L	0.0056	0.0059	42343	6.51E-01	-0.0082	0.0100	23314	4.88E-01	0.0022	0.0025	23671	4.21E-01	0.0085	0.0032	23685	1.34E-02	0.0089	0.0042	23684	4.81E-02
FGA	-0.0034	0.0036	42581	6.52E-01	0.2580	0.0155	23514	6.00E-60	0.0286	0.0039	23883	2.86E-13	-0.0007	0.0051	23898	9.08E-01	0.0267	0.0065	23897	8.41E-05
EGF	0.0113	0.0119	49862	6.52E-01	0.0659	0.0041	28248	1.52E-57	0.0116	0.0010	28689	1.68E-30	0.0139	0.0013	28705	2.02E-25	0.0097	0.0017	28704	2.61E-08
FABP6	0.0061	0.0064	48981	6.52E-01	0.0982	0.0076	27758	6.24E-37	-0.0168	0.0019	28191	6.39E-19	-0.0121	0.0025	28205	1.76E-06	-0.0330	0.0032	28204	6.53E-25
BOLA1	0.0060	0.0063	42120	6.52E-01	0.0482	0.0092	23217	4.09E-07	0.0094	0.0023	23575	5.96E-05	0.0093	0.0030	23590	2.88E-03	0.0120	0.0038	23589	2.94E-03

GRIK2	-0.0045	0.0047	43455	6.53E-01	-0.0369	0.0118	23960	3.17E-03	0.0065	0.0029	24328	3.31E-02	0.0077	0.0038	24343	6.04E-02	0.0032	0.0049	24342	5.76E-01
KAZALD1	0.0049	0.0053	49744	6.53E-01	-0.0880	0.0093	28212	1.54E-20	0.0098	0.0023	28661	2.96E-05	0.0090	0.0030	28678	4.06E-03	0.0171	0.0038	28677	1.68E-05
FCN2	0.0045	0.0048	49766	6.53E-01	0.0609	0.0101	28253	4.63E-09	0.0421	0.0025	28689	7.00E-64	0.0406	0.0033	28705	1.18E-34	0.0387	0.0042	28704	1.24E-19
LPA	0.0193	0.0204	42570	6.53E-01	-0.0030	0.0028	23587	8.49E-01	0.0020	0.0007	23957	4.53E-03	0.0040	0.0009	23972	1.55E-05	0.0063	0.0012	23971	1.13E-07
CDAN1	0.0025	0.0026	43426	6.53E-01	-0.0056	0.0219	23934	8.42E-01	0.0118	0.0054	24305	3.77E-02	0.0135	0.0071	24320	7.71E-02	0.0098	0.0091	24319	3.43E-01
KLHL41	-0.0053	0.0057	43455	6.54E-01	-0.0170	0.0099	23960	1.24E-01	-0.0090	0.0024	24328	3.59E-04	-0.0049	0.0032	24343	1.68E-01	-0.0086	0.0041	24342	5.21E-02
CD28	-0.0040	0.0042	48785	6.54E-01	-0.0116	0.0116	27677	3.89E-01	0.0245	0.0029	28109	2.83E-17	0.0204	0.0038	28125	1.29E-07	0.0331	0.0048	28124	2.15E-11
B3GNT7	-0.0040	0.0042	42387	6.54E-01	-0.0091	0.0135	23360	5.76E-01	0.0222	0.0033	23719	5.38E-11	0.0120	0.0044	23733	9.49E-03	0.0165	0.0056	23732	5.59E-03
PTRHD1	0.0065	0.0069	42580	6.54E-01	0.0705	0.0082	23496	4.31E-17	0.0113	0.0020	23858	4.82E-08	0.0123	0.0027	23871	7.58E-06	0.0132	0.0034	23870	2.11E-04
KIAA1549L	0.0030	0.0032	42740	6.54E-01	-0.0276	0.0177	23551	1.63E-01	-0.0146	0.0044	23912	1.22E-03	-0.0150	0.0057	23927	1.40E-02	-0.0198	0.0074	23926	1.15E-02
KIAA2013	0.0059	0.0063	43331	6.54E-01	-0.0055	0.0088	23884	6.07E-01	0.0052	0.0022	24254	2.46E-02	0.0079	0.0029	24269	8.55E-03	0.0078	0.0037	24268	5.01E-02
DDX53	-0.0038	0.0041	42343	6.54E-01	-0.0065	0.0142	23314	7.11E-01	-0.0004	0.0035	23671	9.31E-01	-0.0019	0.0046	23685	7.32E-01	0.0001	0.0059	23684	9.85E-01
SLA2	0.0112	0.0119	43455	6.54E-01	0.0353	0.0047	23960	2.24E-13	0.0191	0.0011	24328	7.30E-61	0.0208	0.0015	24343	7.63E-42	0.0219	0.0019	24342	2.33E-28
PLXNA4	0.0088	0.0094	49907	6.54E-01	0.0476	0.0051	28300	8.70E-20	0.0185	0.0013	28746	5.01E-48	0.0188	0.0017	28762	3.36E-29	0.0201	0.0021	28761	1.38E-20
SSBP1	0.0038	0.0040	42274	6.58E-01	0.0202	0.0143	23352	2.10E-01	0.0030	0.0035	23710	4.45E-01	0.0046	0.0047	23723	3.89E-01	0.0044	0.0060	23722	5.33E-01
ACSL1	0.0039	0.0042	42109	6.60E-01	-0.0247	0.0135	23248	9.71E-02	-0.0042	0.0033	23603	2.44E-01	-0.0039	0.0044	23617	4.36E-01	-0.0089	0.0056	23616	1.48E-01
CORO1A	-0.0098	0.0105	48977	6.62E-01	0.0404	0.0047	27729	5.48E-17	0.0069	0.0012	28166	5.69E-09	0.0065	0.0015	28178	4.05E-05	0.0095	0.0020	28178	2.80E-06
CD63	0.0055	0.0060	49505	6.63E-01	0.1138	0.0082	28036	1.88E-42	0.0303	0.0020	28478	2.35E-50	0.0347	0.0026	28494	2.18E-38	0.0348	0.0034	28493	7.59E-24
PPIF	0.0066	0.0072	43537	6.63E-01	0.0873	0.0079	24024	1.29E-27	0.0144	0.0019	24398	2.23E-13	0.0172	0.0026	24413	3.88E-11	0.0184	0.0033	24412	4.54E-08
TAX1BP1	0.0068	0.0074	43426	6.63E-01	0.0347	0.0076	23934	9.96E-06	0.0249	0.0019	24305	3.09E-40	0.0268	0.0024	24320	2.98E-27	0.0377	0.0031	24319	2.22E-32
GPR15L	-0.0066	0.0072	43346	6.63E-01	0.0304	0.0079	23893	2.42E-04	0.0007	0.0019	24266	7.74E-01	-0.0006	0.0026	24281	8.57E-01	0.0050	0.0033	24280	1.73E-01
PTEN	0.0032	0.0035	48799	6.63E-01	0.0536	0.0142	27661	3.01E-04	0.0109	0.0035	28098	2.59E-03	0.0084	0.0046	28115	9.23E-02	0.0067	0.0059	28114	3.10E-01
AHNAK	-0.0035	0.0038	42387	6.65E-01	0.0534	0.0152	23360	8.03E-04	0.0323	0.0037	23719	1.51E-17	0.0230	0.0049	23733	5.96E-06	0.0397	0.0063	23732	9.01E-10
ARG2	0.0046	0.0049	43331	6.65E-01	0.0362	0.0114	23884	2.61E-03	0.0062	0.0028	24254	3.67E-02	0.0098	0.0037	24269	1.23E-02	0.0099	0.0047	24268	5.23E-02
SERPINB6	0.0063	0.0069	50250	6.67E-01	0.0899	0.0070	28476	1.18E-36	0.0175	0.0017	28926	4.71E-24	0.0199	0.0023	28943	4.38E-18	0.0182	0.0029	28942	9.41E-10
FHIT	0.0079	0.0086	48799	6.67E-01	0.0639	0.0057	27661	8.46E-28	0.0076	0.0014	28098	1.25E-07	0.0076	0.0019	28115	8.47E-05	0.0056	0.0024	28114	2.82E-02
PLAUR	-0.0031	0.0034	49622	6.67E-01	0.3130	0.0142	28155	7.07E-105	-0.0189	0.0035	28597	1.26E-07	-0.0176	0.0046	28612	2.44E-04	0.0003	0.0059	28611	9.72E-01
CA4	-0.0026	0.0028	50594	6.67E-01	0.1385	0.0171	28667	1.95E-15	-0.0394	0.0042	29116	1.30E-20	-0.0476	0.0055	29132	1.60E-17	-0.0390	0.0071	29131	7.55E-08
RICTOR	0.0051	0.0055	42274	6.67E-01	-0.0048	0.0105	23352	7.13E-01	0.0007	0.0026	23710	8.28E-01	0.0011	0.0034	23723	7.88E-01	0.0005	0.0044	23722	9.22E-01
AIFM1	-0.0112	0.0123	49663	6.68E-01	0.0584	0.0040	28171	1.16E-47	0.0220	0.0010	28620	7.12E-113	0.0236	0.0013	28637	4.54E-75	0.0282	0.0016	28636	4.35E-65
PSTPIP2	0.0114	0.0124	41065	6.68E-01	0.0511	0.0047	22766	3.36E-26	0.0104	0.0012	23117	1.36E-18	0.0110	0.0015	23129	2.77E-12	0.0094	0.0020	23128	4.14E-06
HS6ST2	-0.0035	0.0038	42274	6.68E-01	-0.0748	0.0149	23352	1.31E-06	-0.0266	0.0037	23710	1.09E-12	-0.0342	0.0048	23723	4.61E-12	-0.0241	0.0062	23722	2.04E-04
PCDH9	0.0036	0.0039	43346	6.68E-01	-0.0606	0.0144	23893	5.32E-05	0.0333	0.0035	24266	1.19E-20	0.0273	0.0047	24281	9.46E-09	0.0349	0.0060	24280	1.25E-01
POMC	0.0074	0.0081	42387	6.68E-01	0.0038	0.0071	23360	6.66E-01	0.0123	0.0017	23719	3.26E-12	0.0091	0.0023	23733	1.45E-04	-0.0007	0.0030	23732	8.48E-01
KIF22	-0.0128	0.0140	42109	6.68E-01	0.0276	0.0041	23248	5.82E-11	0.0095	0.0010	23603	1.63E-20	0.0105	0.0013	23617	1.05E-14	0.0096	0.0017	23616	4.19E-08
AHSA1	0.0070	0.0076	43331	6.68E-01	0.0394	0.0074	23884	2.49E-07	0.0003	0.0018	24254	8.87E-01	0.0008	0.0024	24269	7.90E-01	0.0004	0.0031	24268	9.21E-01
RGS8	0.0069	0.0075	49043	6.68E-01	-0.0138	0.0066	27807	5.41E-02	-0.0014	0.0016	28251	4.47E-01	-0.0013	0.0021	28266	6.00E-01	-0.0006	0.0027	28265	8.52E-01
PADI4	-0.0078	0.0086	48720	6.69E-01	-0.0273	0.0060	27613	1.07E-05	0.0005	0.0015	28049	7.94E-01	-0.0041	0.0019	28066	4.70E-02	0.0069	0.0025	28065	8.30E-03
TPT1	0.0068	0.0075	49043	6.70E-01	-0.0013	0.0066	27807	8.83E-01	0.0005	0.0016	28251	7.94E-01	0.0014	0.0021	28266	5.71E-01	0.0023	0.0027	28265	4.64E-01
GIPC2	0.0031	0.0034	43426	6.70E-01	0.1335	0.0164	23934	1.89E-15	-0.0125	0.0040	24305	2.85E-03	-0.0194	0.0053	24320	4.52E-04	-0.0073	0.0068	24319	3.43E-01
ASRGL1	0.0106	0.0117	42387	6.71E-01	0.0421	0.0049	23360	2.39E-17	0.0087	0.0012	23719	8.23E-13	0.0098	0.0016	23733	1.46E-09	0.0087	0.0020	23732	3.35E-05
XG	0.0034	0.0038	50351	6.71E-01	0.0501	0.0126	28549	1.44E-04	0.0169	0.0031	28997	7.90E-08	0.0204	0.0041	29013	1.04E-06	0.0193	0.0052	29012	3.98E-04
CHCHD10	-0.0043	0.0047	43426	6.72E-01	0.1380	0.0119	23934	6.99E-30	0.0185	0.0029	24305	5.42E-10	0.0229	0.0038	24320	6.30E-09	0.0292	0.0049	24319	8.50E-09

FOXO3	0.0100	0.0111	48785	6.74E-01	0.0199	0.0044	27677	1.42E-05	0.0064	0.0011	28109	9.23E-09	0.0069	0.0014	28125	2.88E-06	0.0086	0.0018	28124	6.35E-06
IRAK4	0.0108	0.0120	49907	6.75E-01	0.0467	0.0040	28300	1.71E-30	0.0125	0.0010	28746	2.04E-36	0.0129	0.0013	28762	6.11E-23	0.0119	0.0017	28761	1.91E-12
GALNT7	-0.0022	0.0024	49744	6.75E-01	-0.2330	0.0202	28212	7.03E-30	0.0353	0.0049	28661	1.90E-12	0.0381	0.0065	28678	9.72E-09	0.0567	0.0083	28677	2.98E-11
TRIM40	0.0075	0.0083	42343	6.75E-01	0.0280	0.0070	23314	1.16E-04	0.0209	0.0017	23671	6.68E-34	0.0238	0.0023	23685	2.15E-25	0.0253	0.0029	23684	8.69E-18
CD207	-0.0041	0.0045	48887	6.75E-01	-0.0102	0.0110	27717	4.27E-01	0.0037	0.0027	28162	2.02E-01	0.0049	0.0035	28179	2.16E-01	0.0131	0.0045	28178	6.17E-03
PQBP1	0.0059	0.0066	48785	6.75E-01	0.0060	0.0077	27677	5.11E-01	0.0121	0.0019	28109	2.38E-10	0.0127	0.0025	28125	6.42E-07	0.0259	0.0032	28124	1.38E-15
SCAMP3	0.0089	0.0099	49744	6.78E-01	0.0598	0.0049	28212	2.18E-33	0.0195	0.0012	28661	8.90E-59	0.0208	0.0016	28678	5.09E-39	0.0256	0.0020	28677	9.61E-36
VPS28	0.0068	0.0076	42740	6.78E-01	0.0453	0.0074	23551	3.09E-09	0.0201	0.0018	23912	1.43E-27	0.0229	0.0024	23927	8.39E-21	0.0253	0.0031	23926	1.29E-15
ARID4B	-0.0044	0.0049	48799	6.78E-01	0.0123	0.0104	27661	3.00E-01	0.0024	0.0026	28098	4.09E-01	-0.0009	0.0034	28115	8.25E-01	0.0072	0.0043	28114	1.28E-01
TEX33	0.0040	0.0045	42740	6.78E-01	-0.0028	0.0128	23551	8.66E-01	-0.0038	0.0032	23912	2.69E-01	-0.0033	0.0042	23927	4.96E-01	-0.0036	0.0053	23926	5.67E-01
PRG3	-0.0052	0.0058	43537	6.78E-01	0.0265	0.0096	24024	1.00E-02	-0.0217	0.0024	24398	1.53E-19	-0.0230	0.0031	24413	4.08E-13	-0.0274	0.0040	24412	2.19E-11
OTUD6B	0.0060	0.0067	43346	6.81E-01	0.0734	0.0083	23893	6.73E-18	0.0144	0.0021	24266	5.03E-12	0.0155	0.0027	24281	2.23E-08	0.0140	0.0035	24280	9.78E-05
OGT	0.0064	0.0072	42740	6.81E-01	-0.0106	0.0079	23551	2.39E-01	-0.0005	0.0020	23912	8.18E-01	0.0010	0.0026	23927	7.53E-01	-0.0005	0.0033	23926	8.97E-01
PCBP2	0.0073	0.0082	43455	6.81E-01	0.0683	0.0068	23960	4.17E-23	0.0190	0.0017	24328	1.42E-29	0.0182	0.0022	24343	3.07E-16	0.0176	0.0028	24342	9.80E-10
POLR2F	-0.0036	0.0041	49744	6.81E-01	0.1118	0.0123	28212	6.76E-19	0.0200	0.0030	28661	7.39E-11	0.0207	0.0040	28678	4.29E-07	0.0407	0.0051	28677	6.30E-15
WASF3	0.0086	0.0097	48799	6.81E-01	0.0212	0.0051	27661	6.26E-05	0.0080	0.0013	28098	3.98E-10	0.0104	0.0016	28115	7.55E-10	0.0122	0.0021	28114	2.02E-08
S100A3	0.0045	0.0051	43331	6.81E-01	-0.0300	0.0112	23884	1.23E-02	0.0045	0.0027	24254	1.29E-01	0.0044	0.0036	24269	2.82E-01	0.0058	0.0046	24268	2.64E-01
QSOX1	-0.0042	0.0047	42726	6.81E-01	0.0275	0.0117	23615	2.97E-02	0.0024	0.0029	23975	4.64E-01	-0.0022	0.0038	23989	6.17E-01	-0.0009	0.0049	23988	8.79E-01
BST2	-0.0055	0.0062	50415	6.82E-01	0.0358	0.0078	28544	9.44E-06	0.0156	0.0019	28996	7.65E-16	0.0084	0.0025	29013	1.41E-03	0.0109	0.0032	29012	1.21E-03
DXO	0.0046	0.0052	43426	6.83E-01	0.1102	0.0107	23934	4.90E-24	0.0107	0.0026	24305	7.95E-05	0.0102	0.0035	24320	5.25E-03	0.0111	0.0044	24319	1.89E-02
DPP4	-0.0030	0.0034	49050	6.83E-01	-0.0267	0.0143	27878	8.91E-02	0.0261	0.0035	28309	1.90E-13	0.0227	0.0046	28324	1.61E-06	0.0073	0.0059	28323	2.70E-01
BCL7B	0.0046	0.0052	43331	6.83E-01	0.0071	0.0110	23884	5.90E-01	0.0060	0.0027	24254	3.44E-02	0.0097	0.0036	24269	9.70E-03	0.0097	0.0046	24268	4.82E-02
GADD45B	-0.0049	0.0056	42740	6.84E-01	-0.0045	0.0101	23551	7.24E-01	0.0000	0.0025	23912	9.89E-01	-0.0007	0.0033	23927	8.63E-01	0.0000	0.0042	23926	9.98E-01
ITIH1	-0.0019	0.0021	43602	6.85E-01	0.0384	0.0264	24051	1.95E-01	0.0134	0.0065	24424	5.25E-02	0.0112	0.0085	24439	2.39E-01	0.0180	0.0110	24438	1.34E-01
ANGPT1	0.0086	0.0097	49788	6.85E-01	0.0771	0.0050	28193	3.00E-52	0.0089	0.0012	28637	1.08E-12	0.0124	0.0016	28653	3.59E-14	0.0088	0.0021	28652	4.40E-05
PRRT3	-0.0039	0.0045	42387	6.85E-01	0.0341	0.0128	23360	1.30E-02	-0.0809	0.0031	23719	7.78E-145	-0.0903	0.0041	23733	1.11E-103	-0.1083	0.0053	23732	2.70E-90
MOG	-0.0034	0.0039	50397	6.87E-01	0.0711	0.0123	28576	1.85E-08	-0.0846	0.0030	29025	2.54E-174	-0.1181	0.0039	29042	2.35E-196	-0.1321	0.0050	29041	3.49E-148
NAA10	0.0051	0.0058	42109	6.87E-01	0.0536	0.0099	23248	1.69E-07	0.0175	0.0024	23603	1.67E-12	0.0192	0.0032	23617	5.45E-09	0.0196	0.0041	23616	4.05E-06
FOLR3	0.0192	0.0219	49968	6.87E-01	0.0008	0.0022	28326	7.75E-01	0.0000	0.0005	28767	9.72E-01	-0.0002	0.0007	28784	7.97E-01	0.0004	0.0009	28783	7.19E-01
CA1	0.0062	0.0071	48879	6.88E-01	-0.0267	0.0071	27771	3.19E-04	-0.0162	0.0017	28194	3.61E-20	-0.0230	0.0023	28209	4.46E-23	-0.0224	0.0029	28208	7.66E-14
MAVS	0.0095	0.0108	48785	6.89E-01	0.0444	0.0045	27677	7.93E-22	0.0127	0.0011	28109	3.95E-29	0.0142	0.0015	28125	2.10E-21	0.0166	0.0019	28124	6.57E-18
TIMP2	-0.0026	0.0029	43535	6.92E-01	0.0597	0.0183	24011	2.01E-03	-0.0009	0.0045	24384	8.62E-01	-0.0002	0.0059	24399	9.82E-01	0.0080	0.0076	24398	3.56E-01
TGFBR3	0.0032	0.0037	50594	6.92E-01	-0.0564	0.0131	28667	3.71E-05	-0.0406	0.0032	29116	6.78E-36	-0.0423	0.0042	29132	7.14E-23	-0.0430	0.0054	29131	8.48E-15
ATG4A	0.0061	0.0070	48785	6.92E-01	0.0259	0.0072	27677	5.62E-04	-0.0044	0.0018	28109	1.77E-02	-0.0072	0.0023	28125	2.89E-03	-0.0057	0.0030	28124	7.54E-02
PSME2	0.0038	0.0043	49359	6.92E-01	0.0159	0.0115	27952	2.18E-01	-0.0063	0.0028	28394	3.37E-02	-0.0085	0.0037	28410	3.04E-02	0.0049	0.0047	28409	3.60E-01
TNR	0.0043	0.0050	49589	6.92E-01	-0.1115	0.0098	28083	4.69E-29	-0.0002	0.0024	28527	9.35E-01	-0.0170	0.0032	28543	1.60E-07	-0.0330	0.0041	28542	1.55E-15
RAB33A	0.0067	0.0077	42109	6.92E-01	0.0584	0.0076	23248	4.94E-14	0.0226	0.0019	23603	2.34E-33	0.0257	0.0024	23617	5.08E-25	0.0286	0.0031	23616	4.29E-19
THBS4	-0.0047	0.0054	50014	6.92E-01	-0.0560	0.0089	28386	8.86E-10	0.0368	0.0022	28825	2.90E-63	0.0303	0.0029	28841	2.27E-25	0.0438	0.0037	28840	1.06E-31
CSF3	-0.0050	0.0057	49043	6.92E-01	-0.0384	0.0086	27807	1.82E-05	0.0079	0.0021	28251	3.07E-04	-0.0054	0.0028	28266	7.07E-02	-0.0033	0.0036	28265	4.12E-01
GSTP1	0.0069	0.0080	48494	6.92E-01	0.0200	0.0062	27498	2.14E-03	-0.0044	0.0015	27934	5.97E-03	-0.0030	0.0020	27951	1.77E-01	-0.0060	0.0026	27950	2.88E-02
ITGB1	0.0022	0.0025	49933	6.92E-01	0.0139	0.0192	28337	5.42E-01	-0.0099	0.0047	28780	4.70E-02	-0.0205	0.0062	28795	1.60E-03	-0.0485	0.0080	28794	2.66E-09
IFIT3	0.0038	0.0043	42740	6.92E-01	0.1008	0.0131	23551	4.94E-14	0.0149	0.0032	23912	6.55E-06	0.0136	0.0043	23927	2.30E-03	0.0183	0.0055	23926	1.37E-03
DAG1	-0.0048	0.0055	50189	6.94E-01	0.1291	0.0087	28442	2.35E-48	0.0399	0.0021	28888	1.28E-76	0.0422	0.0028	28904	8.03E-50	0.0384	0.0036	28903	1.30E-25

STXBP1	0.0076	0.0088	43455	6.94E-01	0.0758	0.0063	23960	5.56E-32	0.0172	0.0016	24328	5.15E-28	0.0181	0.0020	24343	2.73E-18	0.0159	0.0026	24342	3.25E-09
EPHA1	-0.0034	0.0040	50105	6.94E-01	-0.1076	0.0120	28399	1.54E-18	0.0276	0.0029	28843	2.56E-20	0.0280	0.0039	28859	1.39E-12	0.0257	0.0050	28858	5.35E-07
ERP44	-0.0026	0.0030	49661	6.94E-01	0.1373	0.0161	28165	7.30E-17	0.0915	0.0039	28613	1.48E-118	0.0997	0.0052	28630	2.19E-81	0.1015	0.0066	28629	2.82E-51
NFAT5	0.0086	0.0100	42274	6.94E-01	0.0185	0.0057	23352	2.11E-03	0.0094	0.0014	23710	5.39E-11	0.0106	0.0019	23723	2.53E-08	0.0148	0.0024	23722	1.19E-09
KLK6	-0.0030	0.0035	50043	6.94E-01	0.0391	0.0136	28379	6.74E-03	-0.0734	0.0033	28823	1.14E-107	-0.1053	0.0043	28840	1.32E-127	-0.1115	0.0056	28839	1.16E-86
ENTPD2	-0.0044	0.0051	48785	6.94E-01	-0.0129	0.0098	27677	2.45E-01	0.0145	0.0024	28109	3.23E-09	0.0049	0.0032	28125	1.64E-01	0.0029	0.0041	28124	5.37E-01
MNDA	-0.0102	0.0118	49907	6.94E-01	-0.0049	0.0042	28291	3.12E-01	0.0003	0.0010	28735	8.03E-01	-0.0029	0.0014	28750	4.84E-02	0.0085	0.0018	28749	2.48E-06
CLEC12A	0.0020	0.0023	42274	6.94E-01	0.0275	0.0248	23352	3.35E-01	0.0184	0.0061	23710	3.86E-03	0.0132	0.0081	23723	1.34E-01	0.0244	0.0103	23722	2.74E-02
MANSC4	-0.0065	0.0075	42109	6.94E-01	-0.0048	0.0076	23248	6.05E-01	-0.0091	0.0019	23603	2.29E-06	-0.0111	0.0025	23617	1.31E-05	-0.0110	0.0032	23616	8.81E-04
GGA1	-0.0068	0.0079	48799	6.94E-01	-0.0058	0.0063	27661	4.33E-01	-0.0017	0.0015	28098	3.34E-01	-0.0041	0.0020	28115	6.45E-02	-0.0051	0.0026	28114	7.35E-02
CD209	-0.0038	0.0045	50102	6.94E-01	0.0201	0.0108	28386	9.25E-02	-0.0070	0.0026	28829	1.12E-02	-0.0061	0.0035	28845	1.09E-01	-0.0075	0.0045	28844	1.24E-01
FOS	0.0035	0.0041	41908	6.95E-01	0.0323	0.0144	23101	3.87E-02	0.0014	0.0035	23461	7.35E-01	0.0009	0.0047	23476	8.70E-01	0.0004	0.0060	23475	9.56E-01
ITGA6	0.0052	0.0061	49907	6.96E-01	0.0965	0.0080	28300	5.05E-32	0.0144	0.0020	28746	6.91E-13	0.0228	0.0026	28762	5.15E-18	0.0144	0.0033	28761	3.05E-05
ELOB	0.0039	0.0045	42109	6.96E-01	0.0510	0.0127	23248	1.25E-04	0.0128	0.0031	23603	7.03E-05	0.0145	0.0041	23617	8.10E-04	0.0172	0.0053	23616	1.98E-03
GPIHBP1	0.0069	0.0081	43346	6.96E-01	0.0004	0.0071	23893	9.63E-01	-0.0069	0.0017	24266	1.13E-04	-0.0105	0.0023	24281	8.51E-06	-0.0087	0.0029	24280	4.57E-03
ATP6V1F	0.0066	0.0077	48717	6.96E-01	0.0371	0.0064	27608	1.69E-08	0.0044	0.0016	28044	7.24E-03	0.0042	0.0021	28061	6.22E-02	0.0051	0.0027	28060	7.85E-02
PPME1	0.0061	0.0071	49744	6.96E-01	0.0250	0.0069	28212	5.80E-04	-0.0111	0.0017	28661	9.69E-11	-0.0135	0.0022	28678	3.49E-09	-0.0153	0.0029	28677	1.89E-07
SUSD4	-0.0041	0.0048	43331	6.96E-01	-0.0303	0.0118	23884	1.65E-02	-0.0206	0.0029	24254	1.86E-12	-0.0357	0.0038	24269	2.22E-20	-0.0324	0.0049	24268	8.71E-11
SAFB2	0.0027	0.0031	43455	6.97E-01	0.0339	0.0181	23960	8.80E-02	0.0142	0.0044	24328	2.07E-03	0.0135	0.0058	24343	3.04E-02	0.0239	0.0075	24342	2.37E-03
CCL8	0.0060	0.0071	50324	6.98E-01	0.0820	0.0068	28535	4.96E-32	0.0123	0.0017	28983	4.34E-13	0.0116	0.0022	29000	3.47E-07	0.0116	0.0028	28999	8.61E-05
NOS2	0.0039	0.0045	42109	6.99E-01	0.0341	0.0129	23248	1.36E-02	0.0047	0.0032	23603	1.69E-01	0.0102	0.0042	23617	2.15E-02	0.0070	0.0054	23616	2.44E-01
GAPDH	-0.0032	0.0038	41658	6.99E-01	0.1095	0.0151	22989	1.44E-12	0.0386	0.0037	23338	8.82E-25	0.0441	0.0049	23350	6.70E-19	0.0507	0.0063	23349	2.46E-15
MSLN	-0.0059	0.0070	49671	6.99E-01	0.0410	0.0070	28158	1.20E-08	-0.0206	0.0017	28607	1.01E-32	-0.0205	0.0022	28624	3.36E-19	-0.0235	0.0029	28623	1.53E-15
CD248	-0.0039	0.0046	43537	6.99E-01	-0.0556	0.0121	24024	9.93E-06	-0.0175	0.0030	24398	7.37E-09	-0.0256	0.0039	24413	1.61E-10	-0.0254	0.0050	24412	9.23E-07
IL22RA1	-0.0042	0.0050	49043	6.99E-01	-0.0391	0.0099	27807	1.63E-04	0.0086	0.0024	28251	6.86E-04	0.0028	0.0032	28266	4.41E-01	-0.0019	0.0041	28265	6.99E-01
PRG2	-0.0051	0.0060	43537	6.99E-01	0.0283	0.0094	24024	4.39E-03	-0.0344	0.0023	24398	3.98E-50	-0.0379	0.0030	24413	3.12E-35	-0.0324	0.0039	24412	2.97E-16
PSAPL1	0.0049	0.0058	43346	6.99E-01	0.0236	0.0098	23893	2.48E-02	-0.0209	0.0024	24266	7.61E-18	-0.0220	0.0032	24281	9.21E-12	-0.0265	0.0041	24280	1.81E-10
BCL7A	0.0062	0.0073	41982	6.99E-01	0.0156	0.0080	23146	7.63E-02	0.0008	0.0020	23506	7.22E-01	0.0019	0.0026	23521	5.26E-01	0.0002	0.0033	23520	9.57E-01
KRT17	-0.0037	0.0044	42109	6.99E-01	-0.0140	0.0130	23248	3.51E-01	-0.0028	0.0032	23603	4.32E-01	-0.0046	0.0042	23617	3.36E-01	-0.0019	0.0054	23616	7.71E-01
ARID3A	-0.0039	0.0046	42120	6.99E-01	-0.0072	0.0127	23217	6.44E-01	-0.0056	0.0031	23575	9.24E-02	-0.0055	0.0041	23590	2.32E-01	-0.0092	0.0053	23589	1.11E-01
SBSN	-0.0033	0.0039	43457	7.00E-01	0.0270	0.0143	23993	8.64E-02	-0.0476	0.0035	24367	2.58E-41	-0.0569	0.0046	24382	5.01E-34	-0.0819	0.0059	24381	2.36E-42
CD300LG	-0.0036	0.0043	49982	7.02E-01	0.0023	0.0112	28299	8.76E-01	-0.0514	0.0027	28747	1.08E-77	-0.0677	0.0036	28764	1.26E-77	-0.0728	0.0046	28763	1.40E-54
ADD1	0.0069	0.0082	42580	7.02E-01	0.0218	0.0070	23496	3.18E-03	0.0069	0.0017	23858	9.00E-05	0.0071	0.0023	23871	2.87E-03	0.0103	0.0029	23870	6.97E-04
ROBO4	0.0017	0.0020	42387	7.02E-01	0.0011	0.0281	23360	9.77E-01	-0.0490	0.0069	23719	3.06E-12	-0.0486	0.0091	23733	2.00E-07	-0.0657	0.0117	23732	4.49E-08
PBLD	-0.0051	0.0060	48799	7.03E-01	0.0317	0.0082	27661	2.01E-04	0.0504	0.0020	28098	6.50E-140	0.0531	0.0026	28115	1.52E-89	0.0577	0.0034	28114	3.17E-64
MORF4L1	0.0039	0.0046	42740	7.03E-01	-0.0089	0.0125	23551	5.48E-01	-0.0022	0.0031	23912	5.34E-01	-0.0055	0.0040	23927	2.21E-01	-0.0049	0.0052	23926	4.12E-01
PRKAR2A	0.0079	0.0094	43343	7.03E-01	0.0482	0.0060	23896	2.36E-15	0.0227	0.0015	24265	1.34E-53	0.0235	0.0019	24280	2.35E-33	0.0264	0.0025	24279	9.37E-26
FKBP5	0.0091	0.0109	49589	7.04E-01	0.0569	0.0044	28083	3.39E-36	0.0090	0.0011	28527	5.03E-16	0.0096	0.0014	28543	6.96E-11	0.0104	0.0018	28542	4.94E-08
CASP3	0.0085	0.0102	50594	7.04E-01	0.0559	0.0047	28667	6.54E-32	0.0115	0.0011	29116	4.37E-23	0.0119	0.0015	29132	7.00E-15	0.0110	0.0019	29131	3.01E-08
ANXA11	0.0064	0.0077	49833	7.04E-01	0.0633	0.0063	28244	4.03E-23	0.0175	0.0015	28688	3.43E-29	0.0170	0.0020	28704	1.61E-16	0.0165	0.0026	28703	5.69E-10
CCL18	-0.0070	0.0083	49297	7.04E-01	0.0533	0.0059	28050	8.18E-19	0.0167	0.0014	28484	4.63E-30	0.0150	0.0019	28499	1.00E-14	0.0207	0.0024	28498	1.13E-16
LMOD1	-0.0034	0.0040	43455	7.04E-01	0.1250	0.0139	23960	1.40E-18	-0.0413	0.0034	24328	3.38E-33	-0.0480	0.0045	24343	5.87E-26	-0.0405	0.0058	24342	6.63E-12
NEDD9	-0.0033	0.0039	42274	7.04E-01	0.0423	0.0151	23352	8.87E-03	0.0051	0.0037	23710	2.07E-01	0.0075	0.0049	23723	1.65E-01	0.0144	0.0063	23722	3.32E-02

IL11	-0.0061	0.0072	49043	7.04E-01	0.0092	0.0069	27807	2.35E-01	0.0010	0.0017	28251	6.05E-01	0.0011	0.0022	28266	6.70E-01	0.0012	0.0028	28265	7.34E-01
DOCK9	0.0112	0.0134	42120	7.04E-01	0.0025	0.0043	23217	6.30E-01	0.0020	0.0011	23575	7.28E-02	0.0030	0.0014	23590	4.13E-02	0.0027	0.0018	23589	1.72E-01
IMPA1	0.0059	0.0070	49589	7.05E-01	0.0796	0.0069	28083	1.22E-29	0.0134	0.0017	28527	9.34E-15	0.0160	0.0022	28543	2.37E-12	0.0129	0.0029	28542	1.42E-05
ZNRD2	-0.0066	0.0080	43346	7.05E-01	0.0780	0.0071	23893	1.81E-27	0.0199	0.0017	24266	8.67E-30	0.0198	0.0023	24281	1.47E-17	0.0264	0.0029	24280	9.57E-19
LEFTY2	0.0050	0.0060	50324	7.05E-01	-0.0658	0.0080	28528	8.48E-16	0.0107	0.0020	28976	1.05E-07	0.0074	0.0026	28993	6.89E-03	0.0018	0.0033	28992	6.53E-01
DPT	-0.0027	0.0032	50594	7.05E-01	0.0592	0.0148	28667	1.21E-04	0.0693	0.0036	29116	1.78E-81	0.0681	0.0047	29132	1.04E-45	0.0964	0.0061	29131	2.99E-55
ERC2	0.0071	0.0085	42343	7.05E-01	0.0233	0.0067	23314	1.02E-03	0.0059	0.0016	23671	5.57E-04	0.0080	0.0022	23685	4.25E-04	0.0080	0.0028	23684	6.38E-03
SLURP1	-0.0036	0.0043	43215	7.05E-01	0.0193	0.0131	23890	1.88E-01	-0.0019	0.0032	24264	5.99E-01	0.0012	0.0043	24279	8.20E-01	-0.0008	0.0055	24278	9.08E-01
NFYA	0.0038	0.0045	42109	7.05E-01	0.0112	0.0132	23248	4.70E-01	0.0070	0.0032	23603	4.20E-02	0.0067	0.0043	23617	1.53E-01	0.0184	0.0055	23616	1.33E-03
PROK1	0.0059	0.0072	49907	7.05E-01	0.0844	0.0068	28300	1.78E-34	-0.0024	0.0017	28746	1.85E-01	-0.0043	0.0022	28762	6.69E-02	-0.0049	0.0028	28761	1.07E-01
C2CD2L	-0.0041	0.0050	48717	7.05E-01	0.0259	0.0102	27608	1.77E-02	0.0033	0.0025	28044	2.28E-01	-0.0014	0.0033	28061	7.14E-01	0.0027	0.0042	28060	5.93E-01
MYH4	0.0044	0.0053	42109	7.05E-01	-0.0085	0.0109	23248	5.11E-01	-0.0024	0.0027	23603	4.18E-01	-0.0018	0.0035	23617	6.67E-01	-0.0014	0.0045	23616	7.96E-01
FKBP14	0.0094	0.0114	43455	7.06E-01	0.0638	0.0049	23960	5.01E-37	0.0146	0.0012	24328	9.62E-33	0.0162	0.0016	24343	1.44E-23	0.0150	0.0021	24342	7.94E-13
EGFL7	0.0038	0.0046	48785	7.06E-01	0.1009	0.0107	27677	2.56E-20	0.0187	0.0026	28109	2.88E-12	0.0195	0.0035	28125	4.28E-08	0.0291	0.0045	28124	1.81E-10
ING1	-0.0044	0.0054	48717	7.06E-01	0.0457	0.0093	27608	1.99E-06	0.0142	0.0023	28044	1.16E-09	0.0136	0.0030	28061	1.32E-05	0.0235	0.0039	28060	3.25E-09
PXDNL	0.0055	0.0066	43331	7.06E-01	-0.0203	0.0085	23884	2.74E-02	-0.0024	0.0021	24254	3.04E-01	-0.0042	0.0028	24269	1.68E-01	-0.0052	0.0036	24268	1.89E-01
THRAP3	0.0107	0.0129	42109	7.06E-01	0.0059	0.0045	23248	2.43E-01	0.0012	0.0011	23603	3.21E-01	0.0008	0.0015	23617	6.60E-01	0.0026	0.0019	23616	2.04E-01
HSPB6	0.0037	0.0045	50397	7.07E-01	0.0778	0.0105	28576	3.67E-13	0.0131	0.0026	29025	5.89E-07	0.0237	0.0034	29042	6.09E-12	0.0505	0.0043	29041	1.68E-30
MOCS2	0.0064	0.0077	42580	7.07E-01	0.0658	0.0073	23496	1.61E-18	0.0246	0.0018	23858	1.36E-41	0.0263	0.0024	23871	1.45E-27	0.0291	0.0031	23870	9.49E-21
GP5	-0.0034	0.0041	42580	7.09E-01	0.2452	0.0138	23496	1.10E-68	0.0339	0.0034	23858	6.63E-23	0.0501	0.0045	23871	3.13E-28	0.0266	0.0058	23870	7.96E-06
CSTB	0.0042	0.0051	49298	7.09E-01	0.1078	0.0096	27906	4.53E-28	0.0057	0.0024	28345	2.17E-02	0.0038	0.0031	28359	2.78E-01	0.0137	0.0040	28358	1.05E-03
PREB	0.0028	0.0034	49043	7.09E-01	0.1107	0.0147	27807	2.13E-13	0.0110	0.0036	28251	3.46E-03	0.0081	0.0047	28266	1.16E-01	0.0220	0.0061	28265	5.54E-04
APOC1	-0.0035	0.0043	43518	7.09E-01	0.0863	0.0129	24001	7.32E-11	-0.0290	0.0032	24373	1.82E-19	-0.0480	0.0042	24388	1.11E-29	-0.0607	0.0054	24387	9.69E-29
IL17RA	-0.0042	0.0051	49982	7.09E-01	0.0283	0.0095	28299	5.13E-03	-0.0004	0.0023	28747	8.73E-01	-0.0010	0.0031	28764	7.80E-01	0.0027	0.0040	28763	5.53E-01
ADAMTS15	-0.0045	0.0055	49744	7.09E-01	-0.0252	0.0088	28212	7.33E-03	0.0593	0.0021	28661	9.61E-167	0.0580	0.0028	28678	2.89E-92	0.0878	0.0036	28677	7.36E-128
LRFN2	0.0045	0.0054	42343	7.09E-01	0.0150	0.0107	23314	2.14E-01	-0.0032	0.0026	23671	2.66E-01	-0.0014	0.0035	23685	7.43E-01	-0.0020	0.0044	23684	7.09E-01
PINLYP	-0.0064	0.0078	42580	7.09E-01	0.0026	0.0073	23496	7.77E-01	0.0077	0.0018	23858	3.48E-05	0.0052	0.0024	23871	4.21E-02	0.0074	0.0031	23870	2.38E-02
RYR1	0.0032	0.0039	42109	7.09E-01	0.0000	0.0149	23248	9.98E-01	-0.0050	0.0037	23603	2.12E-01	-0.0027	0.0048	23617	6.30E-01	-0.0091	0.0062	23616	1.87E-01
BPIFB1	0.0062	0.0076	49871	7.10E-01	0.0718	0.0064	28200	1.83E-28	-0.0403	0.0015	28641	3.58E-147	-0.0445	0.0020	28655	1.15E-103	-0.0511	0.0026	28654	1.53E-82
AMDHD2	0.0024	0.0029	43537	7.11E-01	0.0138	0.0194	24024	5.51E-01	-0.0016	0.0048	24398	7.83E-01	0.0002	0.0063	24413	9.79E-01	-0.0029	0.0081	24412	7.66E-01
GAGE2A	0.0059	0.0072	41982	7.11E-01	-0.0002	0.0081	23146	9.90E-01	0.0010	0.0020	23506	6.62E-01	0.0029	0.0026	23521	3.25E-01	0.0030	0.0033	23520	4.29E-01
EBI3_IL27	-0.0029	0.0035	50324	7.12E-01	0.0562	0.0134	28528	5.59E-05	-0.0487	0.0033	28976	3.69E-49	-0.0695	0.0043	28993	2.11E-57	-0.0573	0.0055	28992	2.58E-24
EVI5	0.0085	0.0104	42274	7.12E-01	0.0410	0.0055	23352	3.36E-13	0.0194	0.0014	23710	1.41E-45	0.0208	0.0018	23723	1.90E-30	0.0237	0.0023	23722	3.23E-24
STX6	-0.0064	0.0078	48785	7.12E-01	0.0388	0.0063	27677	2.04E-09	0.0112	0.0016	28109	1.34E-12	0.0125	0.0020	28125	2.18E-09	0.0177	0.0026	28124	4.02E-11
TRIM24	0.0061	0.0075	42661	7.12E-01	0.0346	0.0076	23503	1.22E-05	0.0245	0.0019	23864	1.84E-38	0.0257	0.0025	23879	9.99E-25	0.0348	0.0032	23878	3.37E-27
CSR3P3	0.0090	0.0110	42109	7.13E-01	0.0217	0.0052	23248	5.69E-05	-0.0038	0.0013	23603	3.75E-03	-0.0011	0.0017	23617	5.65E-01	0.0016	0.0022	23616	5.26E-01
MPO	-0.0044	0.0055	49982	7.16E-01	0.0911	0.0089	28299	1.41E-23	0.0059	0.0022	28747	1.08E-02	0.0036	0.0029	28764	2.64E-01	0.0178	0.0037	28763	3.14E-06
HSPB1	0.0064	0.0080	49188	7.16E-01	0.0612	0.0062	27917	2.01E-22	0.0173	0.0015	28356	7.07E-30	0.0169	0.0020	28370	5.99E-17	0.0194	0.0025	28369	8.78E-14
ADGRV1	0.0064	0.0079	42120	7.16E-01	0.0220	0.0073	23217	4.51E-03	-0.0022	0.0018	23575	2.54E-01	-0.0022	0.0024	23590	4.19E-01	-0.0036	0.0030	23589	2.95E-01
DGCR6	0.0041	0.0050	42120	7.16E-01	0.0345	0.0116	23217	5.25E-03	0.0134	0.0029	23575	4.63E-06	0.0128	0.0038	23590	1.19E-03	0.0218	0.0048	23589	1.31E-05
ENTPD6	-0.0025	0.0031	49059	7.16E-01	0.0296	0.0157	27799	8.73E-02	-0.0006	0.0038	28234	8.89E-01	-0.0132	0.0051	28248	1.40E-02	-0.0152	0.0065	28247	2.89E-02
MMP9	-0.0058	0.0072	49903	7.17E-01	0.2021	0.0067	28270	7.18E-197	0.0027	0.0017	28718	1.29E-01	0.0092	0.0022	28735	4.61E-05	0.0041	0.0028	28734	1.91E-01
AKT2	0.0116	0.0144	43455	7.18E-01	0.0475	0.0039	23960	2.80E-33	0.0084	0.0010	24328	2.80E-18	0.0093	0.0013	24343	3.77E-13	0.0073	0.0016	24342	1.28E-05

NRGN	0.0084	0.0104	43572	7.18E-01	0.0601	0.0053	24036	1.61E-28	0.0124	0.0013	24408	1.12E-20	0.0150	0.0017	24423	1.58E-17	0.0137	0.0022	24422	2.03E-09
BLNK	0.0036	0.0045	42274	7.18E-01	0.0476	0.0125	23352	2.73E-04	0.0162	0.0031	23710	2.54E-07	0.0162	0.0041	23723	1.23E-04	0.0210	0.0052	23722	1.03E-04
DDI2	0.0073	0.0090	42580	7.18E-01	-0.0156	0.0065	23496	2.49E-02	-0.0172	0.0016	23858	5.83E-27	-0.0226	0.0021	23871	1.11E-26	-0.0218	0.0027	23870	1.44E-15
NID2	-0.0068	0.0086	49982	7.20E-01	0.0794	0.0057	28299	6.61E-43	0.0102	0.0014	28747	7.23E-13	0.0124	0.0018	28764	3.58E-11	0.0103	0.0024	28763	2.71E-05
A1BG	-0.0016	0.0020	43602	7.20E-01	0.0290	0.0283	24051	2.71E-19	0.0384	0.0070	24424	6.32E-08	0.0217	0.0092	24439	2.63E-02	0.0447	0.0118	24438	2.62E-04
PPCDC	0.0044	0.0055	50415	7.20E-01	0.0649	0.0087	28544	2.82E-13	0.0124	0.0021	28996	1.18E-08	0.0113	0.0028	29013	1.02E-04	0.0144	0.0036	29012	1.14E-04
MEGF9	0.0019	0.0024	50433	7.20E-01	0.1146	0.0200	28587	2.50E-08	0.0792	0.0049	29035	2.28E-58	0.0665	0.0064	29050	1.56E-24	0.0314	0.0082	29049	2.58E-04
PGLYRP2	0.0028	0.0035	43051	7.20E-01	0.0912	0.0163	23799	5.79E-08	0.0177	0.0040	24170	1.67E-05	0.0184	0.0053	24185	8.81E-04	0.0340	0.0068	24184	1.20E-06
CDON	0.0025	0.0031	50024	7.20E-01	-0.0470	0.0155	28363	4.38E-03	0.0642	0.0038	28808	6.95E-63	0.0591	0.0050	28824	2.75E-31	0.0684	0.0064	28823	1.57E-25
KIRREL2	0.0037	0.0046	48799	7.20E-01	-0.0255	0.0106	27661	2.62E-02	-0.0190	0.0026	28098	7.57E-13	-0.0166	0.0034	28115	2.76E-06	-0.0117	0.0044	28114	1.25E-02
AMPD3	0.0066	0.0083	43426	7.20E-01	-0.0157	0.0069	23934	3.45E-02	-0.0067	0.0017	24305	1.00E-04	-0.0134	0.0022	24320	3.52E-09	-0.0074	0.0028	24319	1.40E-02
TAP1	-0.0053	0.0067	42740	7.20E-01	0.0069	0.0083	23551	4.80E-01	-0.0003	0.0021	23912	8.92E-01	-0.0010	0.0027	23927	7.67E-01	0.0004	0.0035	23926	9.31E-01
SORT1	0.0034	0.0043	49910	7.21E-01	0.2255	0.0112	28300	8.57E-88	0.0374	0.0027	28742	1.85E-41	0.0343	0.0036	28758	1.24E-20	0.0377	0.0047	28757	2.18E-15
ATP2B4	0.0058	0.0072	42109	7.21E-01	-0.0176	0.0081	23248	4.61E-02	-0.0031	0.0020	23603	1.53E-01	-0.0004	0.0026	23617	9.11E-01	-0.0045	0.0034	23616	2.34E-01
CPA4	-0.0040	0.0050	41738	7.21E-01	-0.0448	0.0117	23031	2.43E-04	-0.0071	0.0029	23386	1.79E-02	-0.0154	0.0038	23398	8.37E-05	-0.0239	0.0048	23397	1.68E-06
LTA	-0.0036	0.0046	49907	7.22E-01	-0.1067	0.0105	28300	1.19E-23	0.0244	0.0026	28746	6.00E-21	0.0291	0.0034	28762	2.20E-17	0.0470	0.0043	28761	1.26E-26
KIF1C	0.0033	0.0041	42109	7.22E-01	0.0600	0.0140	23248	3.63E-05	0.0102	0.0034	23603	4.09E-03	0.0080	0.0045	23617	1.05E-01	0.0133	0.0058	23616	3.19E-02
FGF23	0.0053	0.0066	50316	7.22E-01	0.0055	0.0072	28546	5.25E-01	0.0196	0.0018	28995	6.71E-28	0.0148	0.0023	29012	4.79E-10	0.0332	0.0030	29011	1.01E-27
DSG4	-0.0046	0.0059	49585	7.23E-01	-0.0170	0.0083	28108	6.11E-02	-0.0191	0.0020	28556	1.58E-20	-0.0182	0.0027	28573	2.57E-11	-0.0262	0.0034	28572	8.07E-14
FASLG	0.0034	0.0043	50529	7.24E-01	-0.0907	0.0110	28636	8.99E-16	0.0007	0.0027	29090	8.40E-01	0.0024	0.0036	29107	5.60E-01	-0.0040	0.0046	29106	4.51E-01
VIT	0.0034	0.0044	43535	7.24E-01	-0.0704	0.0129	24011	1.09E-07	0.0259	0.0031	24384	5.33E-16	0.0266	0.0042	24399	3.32E-10	0.0523	0.0053	24398	4.95E-22
TERF1	0.0026	0.0034	42274	7.24E-01	-0.0280	0.0172	23352	1.44E-01	-0.0090	0.0042	23710	4.51E-02	-0.0079	0.0056	23723	2.02E-01	-0.0069	0.0072	23722	4.03E-01
GALNT3	0.0038	0.0049	49043	7.25E-01	-0.0423	0.0101	27807	5.48E-05	0.0139	0.0025	28251	3.06E-08	0.0133	0.0032	28266	7.13E-05	0.0232	0.0042	28265	5.65E-08
EPB41L5	-0.0057	0.0073	42343	7.25E-01	-0.0007	0.0081	23314	9.49E-01	0.0018	0.0020	23671	4.08E-01	0.0002	0.0026	23685	9.53E-01	0.0030	0.0033	23684	4.43E-01
APPL2	0.0102	0.0129	42580	7.25E-01	0.0425	0.0044	23496	2.78E-21	0.0105	0.0011	23858	1.31E-21	0.0112	0.0014	23871	1.03E-14	0.0109	0.0018	23870	7.36E-09
GNF	0.0059	0.0076	48785	7.26E-01	0.0624	0.0065	27677	2.72E-21	0.0191	0.0016	28109	2.28E-32	0.0197	0.0021	28125	2.36E-20	0.0213	0.0027	28124	9.73E-15
PAGR1	0.0039	0.0050	42387	7.26E-01	0.0504	0.0115	23360	2.48E-05	0.0101	0.0028	23719	5.67E-04	0.0102	0.0037	23733	9.49E-03	0.0140	0.0048	23732	5.80E-03
PSG1	0.0103	0.0131	49589	7.26E-01	0.0100	0.0037	28083	1.19E-02	-0.0118	0.0009	28527	4.12E-38	-0.0127	0.0012	28543	6.02E-26	-0.0110	0.0015	28542	1.83E-12
ADGRE1	0.0050	0.0063	43346	7.26E-01	-0.0155	0.0089	23893	1.16E-01	0.0129	0.0022	24266	5.73E-09	0.0097	0.0029	24281	1.23E-03	0.0187	0.0037	24280	9.00E-07
C1GALT1C1	0.0029	0.0037	42109	7.26E-01	0.0213	0.0156	23248	2.27E-01	-0.0040	0.0038	23603	3.50E-01	-0.0125	0.0051	23617	2.06E-02	-0.0202	0.0065	23616	3.02E-03
ENSA	0.0046	0.0060	43331	7.28E-01	0.0760	0.0093	23884	1.76E-15	0.0135	0.0023	24254	7.81E-09	0.0179	0.0030	24269	6.67E-09	0.0150	0.0039	24268	1.98E-04
MAMDC2	-0.0031	0.0040	43535	7.28E-01	-0.0946	0.0142	24011	7.81E-11	0.0134	0.0035	24384	1.88E-04	0.0046	0.0046	24399	3.75E-01	0.0167	0.0059	24398	7.18E-03
PCDHB15	-0.0036	0.0046	43331	7.28E-01	-0.0564	0.0123	23884	1.04E-05	-0.0026	0.0030	24254	4.51E-01	-0.0085	0.0040	24269	4.73E-02	-0.0093	0.0051	24268	9.62E-02
CWC15	-0.0055	0.0071	43099	7.28E-01	0.0145	0.0082	23775	1.08E-01	0.0080	0.0020	24146	1.06E-04	0.0071	0.0026	24161	1.13E-02	0.0149	0.0034	24160	2.02E-05
PMS1	-0.0045	0.0058	42343	7.28E-01	0.0167	0.0100	23314	1.32E-01	0.0037	0.0024	23671	1.67E-01	0.0041	0.0032	23685	2.53E-01	0.0099	0.0041	23684	2.49E-02
TBCC	0.0073	0.0094	49589	7.28E-01	0.0676	0.0052	28083	1.32E-37	0.0147	0.0013	28527	3.29E-30	0.0152	0.0017	28543	4.29E-19	0.0145	0.0022	28542	4.96E-11
RLN2	0.0103	0.0132	42504	7.28E-01	0.0070	0.0044	23442	1.51E-01	-0.0021	0.0011	23804	6.90E-02	-0.0019	0.0014	23817	2.39E-01	-0.0031	0.0018	23816	1.26E-01
PAMR1	-0.0026	0.0034	49982	7.28E-01	0.0824	0.0144	28299	2.52E-08	0.1048	0.0035	28747	1.09E-195	0.0937	0.0046	28764	2.58E-90	0.1100	0.0059	28763	2.83E-75
BHMT2	0.0023	0.0029	42109	7.28E-01	-0.0096	0.0197	23248	6.93E-01	-0.0007	0.0048	23603	9.08E-01	0.0017	0.0064	23617	8.21E-01	-0.0042	0.0082	23616	6.63E-01
ASAH1	-0.0041	0.0054	43133	7.29E-01	0.1048	0.0105	23829	1.64E-22	0.0286	0.0026	24198	8.36E-28	0.0276	0.0034	24213	1.94E-15	0.0384	0.0044	24212	6.62E-18
RBPMS2	0.0093	0.0120	42387	7.29E-01	0.0397	0.0048	23360	4.58E-16	0.0172	0.0012	23719	5.18E-47	0.0186	0.0016	23733	3.59E-32	0.0235	0.0020	23732	5.11E-31
MATN3	0.0029	0.0038	49505	7.29E-01	0.0831	0.0130	28036	4.40E-10	-0.0499	0.0032	28478	1.86E-54	-0.0523	0.0042	28494	5.01E-35	-0.0497	0.0054	28493	1.11E-19
GCHFR	-0.0046	0.0060	41549	7.29E-01	0.0640	0.0100	22858	5.07E-10	-0.0056	0.0025	23211	3.11E-02	-0.0101	0.0032	23223	3.03E-03	-0.0064	0.0042	23222	1.63E-01

CLEC4M	-0.0043	0.0055	43462	7.29E-01	0.0392	0.0101	23976	2.09E-04	-0.0090	0.0025	24349	4.38E-04	-0.0097	0.0033	24364	4.78E-03	-0.0121	0.0042	24363	6.39E-03
LILRB5	0.0062	0.0081	50594	7.29E-01	0.0190	0.0059	28667	2.36E-03	0.0070	0.0014	29116	2.08E-06	0.0081	0.0019	29132	4.14E-05	0.0074	0.0025	29131	4.06E-03
COL9A1	0.0042	0.0054	49907	7.29E-01	-0.0232	0.0090	28300	1.57E-02	-0.0125	0.0022	28746	2.39E-08	-0.0172	0.0029	28762	6.21E-09	-0.0262	0.0037	28761	4.71E-12
VEGFD	0.0033	0.0043	50446	7.29E-01	-0.0238	0.0113	28585	5.33E-02	-0.0472	0.0027	29037	5.42E-65	-0.0548	0.0036	29054	1.04E-50	-0.0596	0.0046	29053	1.52E-36
KDM3A	-0.0081	0.0104	42274	7.29E-01	-0.0114	0.0055	23352	5.99E-02	-0.0014	0.0014	23710	3.41E-01	-0.0013	0.0018	23723	5.51E-01	-0.0031	0.0023	23722	2.32E-01
LPO	0.0056	0.0072	48340	7.29E-01	-0.0112	0.0070	27359	1.55E-01	0.0000	0.0017	27791	9.88E-01	-0.0072	0.0023	27806	2.36E-03	-0.0059	0.0029	27805	6.00E-02
IDI2	0.0042	0.0055	48799	7.29E-01	0.0097	0.0090	27661	3.52E-01	0.0010	0.0022	28098	7.02E-01	0.0088	0.0029	28115	3.99E-03	0.0107	0.0037	28114	6.64E-03
CSF2RB	0.0038	0.0050	42274	7.29E-01	0.0072	0.0115	23352	6.05E-01	-0.0013	0.0028	23710	6.98E-01	-0.0040	0.0038	23723	3.39E-01	-0.0047	0.0048	23722	3.89E-01
SIAE	-0.0042	0.0054	50043	7.30E-01	0.1429	0.0089	28356	1.84E-56	0.0435	0.0022	28800	5.10E-87	0.0447	0.0029	28817	2.86E-53	0.0549	0.0037	28816	1.04E-48
MICALL2	0.0061	0.0080	42343	7.30E-01	0.0278	0.0072	23314	2.39E-04	0.0127	0.0018	23671	1.76E-12	0.0152	0.0023	23685	2.06E-10	0.0209	0.0030	23684	1.09E-11
CRYZL1	0.0081	0.0105	42387	7.30E-01	0.0507	0.0054	23360	3.02E-20	0.0109	0.0013	23719	5.58E-16	0.0125	0.0018	23733	2.33E-12	0.0131	0.0023	23732	1.50E-08
SEMA4D	0.0027	0.0035	50415	7.30E-01	0.1852	0.0139	28544	1.87E-39	0.0184	0.0034	28996	1.17E-07	0.0214	0.0045	29013	3.44E-06	0.0038	0.0057	29012	5.72E-01
QPCT	-0.0024	0.0032	50034	7.30E-01	0.1437	0.0153	28375	2.78E-20	0.0075	0.0037	28820	6.10E-02	-0.0024	0.0049	28835	6.82E-01	0.0119	0.0063	28834	8.24E-02
SNX9	0.0061	0.0080	49984	7.30E-01	0.0505	0.0060	28340	2.64E-16	0.0125	0.0015	28785	5.94E-17	0.0125	0.0019	28801	2.67E-10	0.0142	0.0025	28800	3.52E-08
CDK5RAP3	-0.0052	0.0067	43455	7.30E-01	0.0332	0.0084	23960	1.54E-04	0.0159	0.0021	24328	2.11E-14	0.0177	0.0027	24343	1.74E-10	0.0215	0.0035	24342	1.73E-09
KLK15	-0.0045	0.0059	43254	7.30E-01	0.0291	0.0095	23847	4.01E-03	-0.0030	0.0023	24217	2.50E-01	-0.0049	0.0031	24232	1.46E-01	0.0029	0.0040	24231	5.30E-01
HGFAC	0.0025	0.0032	43160	7.31E-01	0.1510	0.0175	23815	3.20E-17	0.0170	0.0043	24184	1.33E-04	0.0141	0.0057	24199	2.04E-02	0.0023	0.0073	24198	7.97E-01
CLEC1B	0.0085	0.0111	50415	7.31E-01	0.0601	0.0043	28544	1.51E-42	0.0162	0.0011	28996	1.28E-51	0.0180	0.0014	29013	4.02E-37	0.0177	0.0018	29012	2.68E-22
SLITRK2	0.0036	0.0047	50397	7.31E-01	-0.0370	0.0103	28576	5.80E-04	0.0291	0.0025	29025	1.91E-30	0.0218	0.0033	29042	9.42E-11	0.0280	0.0042	29041	1.10E-10
MRPL24	0.0034	0.0044	42109	7.31E-01	0.0450	0.0130	23248	9.96E-04	0.0041	0.0032	23603	2.41E-01	0.0050	0.0042	23617	2.91E-01	0.0033	0.0054	23616	6.06E-01
BAG3	0.0036	0.0047	49505	7.31E-01	-0.0067	0.0104	28036	5.89E-01	0.0182	0.0025	28478	1.51E-12	0.0266	0.0033	28494	5.25E-15	0.0385	0.0043	28493	1.23E-18
CA14	0.0033	0.0043	50397	7.31E-01	0.0030	0.0111	28576	8.37E-01	-0.0552	0.0027	29025	4.09E-90	-0.0616	0.0036	29042	4.16E-65	-0.0799	0.0046	29041	4.40E-66
GAMT	0.0032	0.0042	42109	7.32E-01	-0.0228	0.0137	23248	1.34E-01	-0.0045	0.0034	23603	2.18E-01	-0.0028	0.0044	23617	5.86E-01	-0.0097	0.0057	23616	1.17E-01
PDXDC1	0.0051	0.0066	41982	7.32E-01	0.0059	0.0089	23146	5.85E-01	0.0021	0.0022	23506	3.85E-01	0.0051	0.0029	23521	1.03E-01	0.0077	0.0037	23520	5.30E-02
CRYGD	0.0084	0.0110	43426	7.34E-01	0.0440	0.0051	23934	1.95E-17	-0.0011	0.0012	24305	4.33E-01	-0.0026	0.0016	24320	1.51E-01	-0.0042	0.0021	24319	6.55E-02
ACHE	-0.0029	0.0038	42580	7.34E-01	-0.0542	0.0152	23496	6.81E-04	-0.0155	0.0037	23858	5.25E-05	-0.0236	0.0049	23871	2.93E-06	-0.0158	0.0063	23870	1.86E-02
CD38	-0.0028	0.0037	49744	7.34E-01	0.0048	0.0132	28212	7.75E-01	0.0621	0.0032	28661	7.59E-82	0.0681	0.0042	28678	5.06E-57	0.0955	0.0054	28677	1.17E-67
CNPY2	0.0053	0.0070	49059	7.35E-01	0.0198	0.0070	27799	8.22E-03	0.0033	0.0017	28234	6.83E-02	0.0030	0.0023	28248	2.31E-01	0.0008	0.0029	28247	8.25E-01
CST5	0.0049	0.0065	49034	7.35E-01	-0.0446	0.0076	27769	1.29E-08	0.0095	0.0019	28209	6.72E-07	0.0093	0.0025	28225	2.80E-04	0.0233	0.0032	28224	5.40E-13
PCOLCE	0.0063	0.0084	18782	7.35E-01	-0.0051	0.0151	10654	7.90E-01	0.0127	0.0037	10821	9.45E-04	0.0197	0.0049	10827	1.06E-04	0.0175	0.0063	10827	8.72E-03
TRIM26	0.0049	0.0065	41982	7.35E-01	-0.0001	0.0091	23146	9.93E-01	0.0019	0.0022	23506	4.48E-01	0.0010	0.0029	23521	7.76E-01	0.0089	0.0038	23520	2.68E-02
MRPL46	-0.0024	0.0032	48799	7.35E-01	0.1135	0.0155	27661	8.34E-13	0.0136	0.0038	28098	5.96E-04	0.0156	0.0050	28115	3.08E-03	0.0130	0.0065	28114	6.20E-02
LPL	-0.0041	0.0055	49984	7.35E-01	-0.3339	0.0086	28340	5.70E-318	-0.0760	0.0021	28785	3.14E-275	-0.0929	0.0028	28801	5.47E-237	-0.1168	0.0036	28800	1.78E-226
SHH	-0.0037	0.0049	42274	7.35E-01	0.0087	0.0118	23352	5.33E-01	0.0062	0.0029	23710	4.51E-02	0.0117	0.0038	23723	3.50E-03	0.0130	0.0049	23722	1.21E-02
GART	0.0023	0.0030	43455	7.35E-01	0.0141	0.0183	23960	5.17E-01	0.0029	0.0045	24328	5.69E-01	0.0009	0.0059	24343	8.98E-01	0.0014	0.0076	24342	8.79E-01
STAT2	0.0067	0.0089	42274	7.36E-01	0.0689	0.0064	23352	2.64E-26	0.0189	0.0016	23710	1.48E-32	0.0192	0.0021	23723	6.96E-20	0.0211	0.0027	23722	8.01E-15
SERPINA12	0.0101	0.0134	48539	7.36E-01	-0.0257	0.0037	27518	1.96E-11	0.0069	0.0009	27953	1.31E-13	0.0042	0.0012	27966	8.72E-04	0.0038	0.0016	27965	2.29E-02
TLR2	0.0020	0.0026	42740	7.36E-01	0.0501	0.0217	23551	3.30E-02	0.0049	0.0053	23912	4.09E-01	0.0080	0.0070	23927	3.14E-01	0.0059	0.0090	23926	5.82E-01
VSIG10	0.0031	0.0041	43331	7.36E-01	-0.0140	0.0140	23884	3.88E-01	0.0106	0.0034	24254	3.00E-03	0.0060	0.0045	24269	2.30E-01	0.0055	0.0058	24268	4.08E-01
PZP	-0.0046	0.0062	43602	7.36E-01	0.0078	0.0091	24051	4.65E-01	0.0120	0.0022	24424	1.26E-07	0.0076	0.0029	24439	1.54E-02	0.0118	0.0038	24438	2.88E-03
PF4	0.0083	0.0111	43274	7.36E-01	0.0656	0.0051	23913	2.92E-37	0.0096	0.0012	24284	2.75E-14	0.0129	0.0016	24299	1.07E-14	0.0115	0.0021	24298	1.26E-07
HSBP1	0.0082	0.0109	42387	7.36E-01	0.0346	0.0052	23360	1.33E-10	0.0047	0.0013	23719	4.63E-04	0.0049	0.0017	23733	6.23E-03	0.0059	0.0022	23732	1.08E-02
KIR3DL2	-0.0072	0.0096	41982	7.36E-01	0.0022	0.0061	23146	7.71E-01	0.0009	0.0015	23506	5.96E-01	-0.0003	0.0020	23521	8.88E-01	0.0001	0.0025	23520	9.63E-01

S100A16	-0.0053	0.0071	48720	7.40E-01	0.0113	0.0070	27613	1.48E-01	0.0070	0.0017	28049	8.48E-05	0.0087	0.0023	28066	2.13E-04	0.0166	0.0029	28065	2.70E-08
ZNF75D	0.0052	0.0070	42740	7.40E-01	-0.0086	0.0083	23551	3.73E-01	0.0032	0.0021	23912	1.49E-01	0.0048	0.0027	23927	1.01E-01	0.0016	0.0035	23926	7.04E-01
DUSP29	0.0056	0.0076	42343	7.40E-01	0.0068	0.0076	23314	4.45E-01	-0.0009	0.0019	23671	6.81E-01	0.0044	0.0024	23685	1.01E-01	0.0093	0.0031	23684	4.79E-03
LGALS3	0.0026	0.0035	50114	7.40E-01	0.0919	0.0140	28409	1.40E-10	0.0010	0.0034	28853	8.01E-01	-0.0075	0.0045	28867	1.29E-01	-0.0027	0.0058	28866	6.98E-01
HDDC2	0.0038	0.0051	43346	7.42E-01	-0.0047	0.0112	23893	7.40E-01	-0.0241	0.0028	24266	5.62E-18	-0.0253	0.0036	24281	7.80E-12	-0.0270	0.0047	24280	1.72E-08
PTK7	-0.0032	0.0044	48799	7.43E-01	0.0254	0.0112	27661	3.62E-02	-0.0016	0.0028	28098	6.01E-01	-0.0010	0.0036	28115	8.13E-01	0.0034	0.0047	28114	5.31E-01
FCGR2A	0.0051	0.0069	49775	7.43E-01	0.0057	0.0070	28248	4.90E-01	0.0008	0.0017	28686	6.71E-01	-0.0022	0.0023	28701	4.01E-01	0.0008	0.0029	28700	8.15E-01
CD83	-0.0030	0.0040	49907	7.43E-01	0.0439	0.0118	28300	4.04E-04	-0.0004	0.0029	28746	9.01E-01	-0.0022	0.0038	28762	6.31E-01	0.0034	0.0049	28761	5.53E-01
TRAF3IP2	0.0040	0.0055	42109	7.43E-01	-0.0078	0.0106	23248	5.38E-01	-0.0038	0.0026	23603	1.79E-01	-0.0025	0.0034	23617	5.40E-01	-0.0013	0.0044	23616	8.15E-01
CAMSAP1	0.0092	0.0125	43455	7.44E-01	0.0264	0.0045	23960	9.42E-09	0.0112	0.0011	24328	5.28E-24	0.0116	0.0014	24343	2.41E-15	0.0142	0.0019	24342	5.41E-14
BSND	0.0028	0.0039	41982	7.45E-01	0.0152	0.0153	23146	3.89E-01	-0.0051	0.0037	23506	2.09E-01	-0.0039	0.0049	23521	4.91E-01	-0.0134	0.0063	23520	4.99E-02
CCL21	-0.0035	0.0048	50189	7.45E-01	0.0083	0.0101	28442	4.86E-01	0.0251	0.0025	28888	1.14E-23	0.0276	0.0033	28904	7.86E-17	0.0395	0.0042	28903	1.61E-20
MMP13	-0.0028	0.0037	48799	7.45E-01	0.0020	0.0131	27661	9.09E-01	-0.0285	0.0032	28098	2.10E-18	-0.0276	0.0042	28115	1.52E-10	-0.0313	0.0054	28114	2.03E-08
SLC13A1	0.0050	0.0068	43331	7.46E-01	0.0216	0.0082	23884	1.34E-02	0.0050	0.0020	24254	1.70E-02	0.0054	0.0026	24269	5.48E-02	0.0069	0.0034	24268	6.00E-02
TSNAX	0.0034	0.0046	42109	7.47E-01	0.0164	0.0128	23248	2.57E-01	0.0030	0.0031	23603	3.85E-01	0.0030	0.0041	23617	5.33E-01	0.0093	0.0053	23616	1.08E-01
LILRB4	-0.0038	0.0052	49043	7.47E-01	0.0317	0.0094	27807	1.40E-03	0.0402	0.0023	28251	2.07E-67	0.0417	0.0030	28266	3.86E-42	0.0659	0.0039	28265	3.58E-63
BATF	0.0071	0.0097	42343	7.47E-01	0.0149	0.0061	23314	2.23E-02	-0.0003	0.0015	23671	8.73E-01	-0.0010	0.0020	23685	6.76E-01	-0.0012	0.0025	23684	6.84E-01
NCLN	-0.0044	0.0060	49043	7.47E-01	-0.0049	0.0082	27807	6.23E-01	-0.0021	0.0020	28251	3.40E-01	-0.0012	0.0026	28266	6.98E-01	-0.0013	0.0034	28265	7.47E-01
SERPING1	-0.0016	0.0022	43518	7.48E-01	0.4992	0.0258	24001	3.13E-81	0.0086	0.0064	24373	2.15E-01	-0.0111	0.0084	24388	2.34E-01	-0.0241	0.0108	24387	3.71E-02
PLA2G4A	0.0074	0.0101	50189	7.48E-01	0.0493	0.0047	28442	1.82E-24	0.0131	0.0012	28888	9.86E-29	0.0138	0.0015	28904	8.84E-19	0.0124	0.0020	28903	8.11E-10
VSTM2L	-0.0048	0.0067	49059	7.48E-01	-0.0508	0.0074	27799	2.54E-11	0.0344	0.0018	28234	9.65E-79	0.0350	0.0024	28248	3.13E-47	0.0429	0.0031	28247	3.24E-43
NPR1	0.0034	0.0047	42109	7.48E-01	-0.0243	0.0123	23248	7.06E-02	-0.0036	0.0030	23603	2.72E-01	-0.0029	0.0040	23617	5.24E-01	-0.0054	0.0051	23616	3.47E-01
MAPRE3	-0.0121	0.0167	41982	7.48E-01	-0.0065	0.0035	23146	9.42E-02	0.0000	0.0009	23506	9.77E-01	0.0008	0.0011	23521	5.65E-01	0.0003	0.0015	23520	8.83E-01
DDX25	0.0031	0.0043	42343	7.48E-01	-0.0106	0.0134	23314	5.04E-01	-0.0085	0.0033	23671	1.40E-02	-0.0034	0.0044	23685	5.04E-01	-0.0078	0.0056	23684	2.09E-01
COL4A1	-0.0034	0.0047	49984	7.49E-01	0.0301	0.0103	28340	6.29E-03	-0.0573	0.0025	28785	1.62E-113	-0.0598	0.0033	28801	1.32E-71	-0.0665	0.0042	28800	7.59E-54
H2AP	0.0042	0.0058	41982	7.49E-01	0.0138	0.0099	23146	2.18E-01	-0.0005	0.0024	23506	8.70E-01	-0.0048	0.0032	23521	1.72E-01	-0.0003	0.0041	23520	9.54E-01
PYY	-0.0082	0.0113	42109	7.49E-01	-0.1577	0.0050	23248	5.39E-211	0.0590	0.0012	23603	0.00E+00	0.0699	0.0016	23617	0.00E+00	0.1047	0.0020	23616	0.00E+00
DUSP3	0.0072	0.0099	48799	7.49E-01	0.0271	0.0050	27661	1.70E-07	0.0025	0.0012	28098	5.58E-02	0.0028	0.0016	28115	1.20E-01	0.0007	0.0021	28114	7.88E-01
TBC1D5	-0.0067	0.0093	49907	7.49E-01	0.0233	0.0052	28300	1.65E-05	0.0071	0.0013	28746	6.37E-08	0.0052	0.0017	28762	3.25E-03	0.0105	0.0022	28761	2.28E-06
ADAMTS16	-0.0026	0.0036	49059	7.49E-01	0.0595	0.0135	27799	2.28E-05	0.0106	0.0033	28234	2.09E-03	0.0040	0.0044	28248	4.26E-01	0.0156	0.0056	28247	8.34E-03
TREML2	0.0029	0.0040	49982	7.49E-01	0.1079	0.0122	28299	3.85E-18	0.0086	0.0030	28747	5.65E-03	0.0142	0.0039	28764	5.22E-04	0.0118	0.0050	28763	2.89E-02
PALM3	-0.0063	0.0087	42109	7.50E-01	-0.0117	0.0068	23248	1.23E-01	0.0033	0.0017	23603	6.38E-02	0.0035	0.0022	23617	1.48E-01	0.0026	0.0028	23616	4.32E-01
FABP2	-0.0066	0.0091	49984	7.50E-01	0.1483	0.0052	28340	6.95E-174	-0.0211	0.0013	28785	8.28E-60	-0.0199	0.0017	28801	5.32E-31	-0.0286	0.0022	28800	2.16E-38
MED21	0.0041	0.0057	42109	7.50E-01	0.0079	0.0104	23248	5.23E-01	0.0018	0.0026	23603	5.39E-01	0.0040	0.0034	23617	2.86E-01	0.0006	0.0043	23616	9.04E-01
CTSS	-0.0021	0.0029	39266	7.52E-01	0.3130	0.0210	22497	1.15E-48	0.0876	0.0051	22840	3.98E-64	0.1064	0.0067	22854	7.81E-55	0.1403	0.0086	22853	1.09E-57
HPCAL1	0.0061	0.0085	50529	7.52E-01	0.0749	0.0056	28636	3.41E-39	0.0124	0.0014	29090	6.88E-19	0.0144	0.0018	29107	9.24E-15	0.0125	0.0023	29106	2.13E-07
BRDT	-0.0030	0.0042	42109	7.52E-01	0.0763	0.0139	23248	9.08E-08	0.0186	0.0034	23603	8.67E-08	0.0213	0.0045	23617	4.06E-06	0.0195	0.0058	23616	1.20E-03
UBAC1	0.0029	0.0041	49744	7.52E-01	-0.0259	0.0121	28212	4.93E-02	-0.0233	0.0030	28661	8.85E-15	-0.0319	0.0039	28678	7.50E-16	-0.0303	0.0050	28677	3.32E-09
CA2	0.0059	0.0082	49821	7.52E-01	0.0047	0.0061	28228	5.10E-01	-0.0139	0.0015	28676	2.58E-20	-0.0189	0.0019	28693	1.40E-21	-0.0184	0.0025	28692	6.17E-13
CNPY4	0.0062	0.0087	49744	7.52E-01	0.0779	0.0056	28212	9.60E-43	0.0190	0.0014	28661	3.78E-43	0.0207	0.0018	28678	8.69E-30	0.0192	0.0023	28677	3.95E-16
PEBP1	0.0049	0.0068	49982	7.52E-01	0.0831	0.0072	28299	5.58E-30	0.0013	0.0018	28747	5.21E-01	-0.0004	0.0023	28764	9.03E-01	-0.0008	0.0030	28763	8.32E-01
CELSR2	-0.0024	0.0033	42580	7.52E-01	0.1305	0.0174	23496	2.32E-13	-0.0003	0.0043	23858	9.61E-01	-0.0096	0.0056	23871	1.18E-01	-0.0065	0.0072	23870	4.35E-01
TNFSF8	-0.0029	0.0041	43537	7.52E-01	-0.0373	0.0136	24024	1.01E-02	0.0019	0.0033	24398	6.26E-01	-0.0089	0.0044	24413	6.11E-02	-0.0026	0.0056	24412	6.96E-01

C1QL2	0.0035	0.0050	42274	7.52E-01	0.0183	0.0117	23352	1.64E-01	-0.0008	0.0029	23710	8.14E-01	-0.0061	0.0038	23723	1.41E-01	-0.0054	0.0049	23722	3.25E-01
NGFR	0.0024	0.0033	43535	7.52E-01	-0.0109	0.0166	24011	5.83E-01	-0.0042	0.0041	24384	3.52E-01	-0.0063	0.0054	24399	2.97E-01	-0.0052	0.0069	24398	5.22E-01
COMT	0.0069	0.0098	48526	7.53E-01	0.0601	0.0051	27484	3.21E-31	0.0127	0.0012	27917	5.24E-24	0.0129	0.0016	27931	1.31E-14	0.0131	0.0021	27930	1.13E-09
DLK1	-0.0046	0.0065	50594	7.53E-01	-0.0705	0.0074	28667	5.19E-21	0.0322	0.0018	29116	7.68E-71	0.0345	0.0024	29132	4.12E-47	0.0447	0.0030	29131	6.62E-48
PKLR	-0.0055	0.0077	50022	7.53E-01	-0.0323	0.0064	28356	1.15E-06	-0.0212	0.0016	28799	9.58E-41	-0.0284	0.0021	28815	5.66E-42	-0.0273	0.0027	28814	6.08E-24
DSG2	0.0022	0.0031	49982	7.53E-01	0.0512	0.0154	28299	1.64E-03	-0.1202	0.0037	28747	1.44E-223	-0.1332	0.0049	28764	5.30E-158	-0.1424	0.0063	28763	4.61E-109
SATB1	0.0024	0.0034	43455	7.53E-01	-0.0300	0.0166	23960	1.03E-01	0.0040	0.0041	24328	3.74E-01	0.0022	0.0054	24343	7.37E-01	0.0169	0.0069	24342	2.22E-02
DOC2B	0.0029	0.0041	42343	7.53E-01	-0.0204	0.0141	23314	1.96E-01	0.0067	0.0034	23671	6.77E-02	0.0052	0.0045	23685	3.07E-01	0.0067	0.0058	23684	3.07E-01
LGMN	-0.0030	0.0042	50189	7.54E-01	0.3000	0.0113	28442	1.50E-150	0.0251	0.0028	28888	1.16E-18	0.0271	0.0037	28904	6.08E-13	0.0325	0.0047	28903	2.10E-11
DKK1	0.0049	0.0069	50415	7.54E-01	0.1093	0.0070	28544	2.86E-53	0.0226	0.0017	28996	9.44E-39	0.0254	0.0023	29013	1.51E-28	0.0262	0.0029	29012	8.64E-19
TNFAIP8L2	0.0052	0.0073	42580	7.54E-01	0.1000	0.0078	23496	4.73E-36	0.0170	0.0019	23858	3.70E-18	0.0194	0.0025	23871	7.81E-14	0.0160	0.0033	23870	1.94E-06
GAL	-0.0054	0.0076	50189	7.54E-01	0.0366	0.0063	28442	1.88E-08	-0.0274	0.0015	28888	8.01E-69	-0.0287	0.0020	28904	7.49E-44	-0.0342	0.0026	28903	7.30E-38
HEPH	0.0022	0.0031	43535	7.54E-01	-0.0941	0.0181	24011	5.13E-07	0.0820	0.0044	24384	2.90E-75	0.0781	0.0058	24399	1.15E-39	0.0889	0.0075	24398	2.29E-31
LAYN	-0.0028	0.0039	49507	7.54E-01	-0.0456	0.0121	28030	3.08E-04	-0.0319	0.0030	28473	1.61E-26	-0.0268	0.0039	28489	1.58E-11	-0.0109	0.0050	28488	4.24E-02
CELA3A	-0.0047	0.0066	50509	7.54E-01	-0.0257	0.0072	28637	6.85E-04	0.0062	0.0018	29086	7.24E-04	0.0022	0.0023	29101	4.16E-01	0.0121	0.0030	29100	9.14E-05
ADAMTSL4	-0.0019	0.0027	42387	7.54E-01	-0.0712	0.0211	23360	1.32E-03	0.0211	0.0052	23719	7.65E-05	0.0075	0.0068	23733	3.28E-01	0.0299	0.0088	23732	1.11E-03
LIF	-0.0042	0.0059	48799	7.54E-01	0.0196	0.0083	27661	2.91E-02	0.0123	0.0020	28098	3.69E-09	0.0109	0.0027	28115	9.03E-05	0.0161	0.0035	28114	6.63E-06
FCN1	-0.0046	0.0066	43492	7.54E-01	0.1163	0.0085	24007	7.07E-41	0.0109	0.0021	24379	4.13E-07	0.0098	0.0028	24394	7.40E-04	0.0100	0.0036	24393	8.22E-03
CCL13	-0.0056	0.0080	50446	7.54E-01	0.0680	0.0060	28585	1.01E-28	0.0143	0.0015	29037	7.23E-22	0.0129	0.0019	29054	8.08E-11	0.0161	0.0025	29053	2.66E-10
USO1	0.0074	0.0104	49744	7.54E-01	0.0519	0.0046	28212	3.51E-28	0.0174	0.0011	28661	1.85E-52	0.0172	0.0015	28678	6.15E-30	0.0185	0.0019	28677	3.26E-21
COMP	-0.0028	0.0039	49448	7.54E-01	-0.0820	0.0124	28094	1.21E-10	0.0142	0.0030	28528	5.62E-06	0.0164	0.0040	28543	8.01E-05	0.0210	0.0051	28542	8.65E-05
OGFR	0.0027	0.0038	49744	7.54E-01	0.0665	0.0127	28212	3.81E-07	0.0233	0.0031	28661	1.40E-13	0.0255	0.0041	28678	9.57E-10	0.0463	0.0052	28677	4.40E-18
CIRBP	0.0077	0.0110	43346	7.55E-01	0.0673	0.0051	23893	2.40E-38	0.0143	0.0013	24266	2.02E-29	0.0146	0.0017	24281	4.56E-18	0.0137	0.0021	24280	3.28E-10
CD3G	0.0072	0.0102	42274	7.55E-01	-0.0015	0.0056	23352	8.39E-01	0.0019	0.0014	23710	2.15E-01	0.0030	0.0018	23723	1.25E-01	0.0051	0.0023	23722	4.05E-02
TNFRSF14	-0.0025	0.0035	50024	7.56E-01	0.1651	0.0134	28363	1.13E-33	0.0239	0.0033	28808	9.15E-13	0.0297	0.0043	28824	1.81E-11	0.0383	0.0056	28823	1.92E-11
BCL2L1	0.0079	0.0113	43426	7.57E-01	0.0582	0.0049	23934	4.66E-31	0.0121	0.0012	24305	3.94E-23	0.0129	0.0016	24320	2.39E-15	0.0116	0.0021	24319	4.09E-08
TACC3	0.0094	0.0135	49744	7.57E-01	0.0404	0.0036	28212	2.68E-28	0.0115	0.0009	28661	2.48E-38	0.0124	0.0012	28678	6.77E-26	0.0107	0.0015	28677	2.40E-12
STX4	-0.0049	0.0071	49744	7.57E-01	0.0679	0.0069	28212	8.49E-22	0.0189	0.0017	28661	3.78E-28	0.0203	0.0022	28678	3.60E-19	0.0307	0.0029	28677	7.80E-26
GHRHR	-0.0044	0.0063	48799	7.57E-01	0.0065	0.0078	27661	4.78E-01	-0.0005	0.0019	28098	8.30E-01	-0.0021	0.0025	28115	4.81E-01	-0.0007	0.0033	28114	8.52E-01
MILR1	-0.0041	0.0058	49043	7.57E-01	0.0008	0.0085	27807	9.43E-01	-0.0005	0.0021	28251	8.33E-01	-0.0041	0.0027	28266	1.78E-01	0.0036	0.0035	28265	3.69E-01
VIM	-0.0093	0.0134	49059	7.60E-01	-0.0041	0.0037	27799	3.29E-01	0.0009	0.0009	28234	3.83E-01	-0.0003	0.0012	28248	8.25E-01	0.0031	0.0015	28247	5.70E-02
GPC1	0.0023	0.0034	50397	7.61E-01	-0.1007	0.0141	28576	3.25E-12	-0.0122	0.0035	29025	6.89E-04	-0.0032	0.0046	29042	5.51E-01	0.0011	0.0059	29041	8.77E-01
SWAP70	0.0028	0.0041	43346	7.61E-01	0.1029	0.0136	23893	1.54E-13	0.0202	0.0034	24266	3.14E-09	0.0196	0.0044	24281	1.77E-05	0.0406	0.0057	24280	2.56E-12
ARG1	-0.0042	0.0061	49663	7.61E-01	-0.0424	0.0081	28083	3.48E-07	-0.0197	0.0020	28525	5.98E-23	-0.0292	0.0026	28542	1.29E-28	-0.0304	0.0033	28541	2.90E-19
PRL	0.0060	0.0086	50415	7.61E-01	-0.0223	0.0055	28544	1.01E-04	0.0025	0.0014	28996	8.19E-02	0.0086	0.0018	29013	2.35E-06	0.0267	0.0023	29012	8.61E-31
MSLNL	-0.0029	0.0042	42343	7.61E-01	0.0237	0.0135	23314	1.15E-01	-0.0019	0.0033	23671	6.25E-01	0.0016	0.0044	23685	7.60E-01	-0.0005	0.0056	23684	9.47E-01
TMOD4	0.0032	0.0046	41982	7.61E-01	0.0042	0.0125	23146	7.92E-01	-0.0081	0.0031	23506	1.22E-02	-0.0066	0.0041	23521	1.35E-01	-0.0058	0.0052	23520	3.26E-01
STC1	-0.0036	0.0052	50415	7.62E-01	0.0351	0.0092	28544	2.80E-04	0.0509	0.0022	28996	9.72E-112	0.0528	0.0030	29013	1.79E-69	0.0774	0.0038	29012	5.14E-90
AOC3	-0.0024	0.0035	50176	7.63E-01	-0.0030	0.0138	28453	8.65E-01	-0.0066	0.0034	28897	6.71E-02	-0.0180	0.0044	28913	9.20E-05	-0.0248	0.0057	28912	2.64E-05
REG3A	-0.0049	0.0072	50594	7.63E-01	0.0474	0.0067	28667	3.42E-12	-0.0237	0.0016	29116	2.17E-47	-0.0204	0.0021	29132	5.88E-21	-0.0143	0.0028	29131	4.69E-07
LMOD2	-0.0049	0.0071	42120	7.63E-01	-0.0068	0.0080	23217	4.70E-01	-0.0017	0.0020	23575	4.32E-01	-0.0018	0.0026	23590	5.51E-01	-0.0035	0.0033	23589	3.56E-01
TDP1	-0.0056	0.0081	43331	7.64E-01	-0.0138	0.0072	23884	7.96E-02	0.0106	0.0018	24254	3.09E-09	0.0084	0.0023	24269	5.02E-04	0.0183	0.0030	24268	2.19E-09
PRSS27	0.0032	0.0046	49824	7.65E-01	0.0383	0.0104	28260	4.65E-04	-0.0149	0.0026	28704	1.11E-08	-0.0182	0.0034	28719	1.40E-07	-0.0110	0.0043	28718	1.69E-02

COPB2	0.0033	0.0049	42109	7.66E-01	0.0735	0.0118	23248	1.41E-09	0.0182	0.0029	23603	7.37E-10	0.0229	0.0038	23617	5.10E-09	0.0245	0.0049	23616	1.25E-06
KRT19	-0.0053	0.0078	49825	7.66E-01	0.0294	0.0062	28246	4.48E-06	-0.0062	0.0015	28692	7.33E-05	-0.0055	0.0020	28708	8.71E-03	0.0005	0.0026	28707	8.65E-01
SOD3	0.0047	0.0069	43572	7.66E-01	-0.0336	0.0081	24036	7.43E-05	-0.0153	0.0020	24408	5.91E-14	-0.0181	0.0026	24423	2.08E-11	-0.0163	0.0034	24422	3.17E-06
FHIP2A	-0.0038	0.0055	42109	7.67E-01	0.0151	0.0108	23248	2.15E-01	0.0004	0.0027	23603	8.92E-01	0.0001	0.0035	23617	9.78E-01	0.0007	0.0045	23616	8.97E-01
SPRY2	0.0073	0.0107	49043	7.68E-01	0.0461	0.0046	27807	9.54E-23	0.0148	0.0011	28251	1.24E-38	0.0163	0.0015	28266	2.13E-27	0.0195	0.0019	28265	1.31E-23
FNTA	0.0028	0.0041	43331	7.68E-01	0.0951	0.0139	23884	2.07E-11	0.0435	0.0034	24254	1.02E-36	0.0468	0.0045	24269	9.84E-25	0.0599	0.0058	24268	1.59E-24
ARL13B	0.0054	0.0080	42109	7.68E-01	0.0411	0.0073	23248	4.22E-08	0.0194	0.0018	23603	4.91E-27	0.0209	0.0024	23617	2.77E-18	0.0209	0.0030	23616	1.43E-11
DNPH1	0.0041	0.0061	50105	7.68E-01	0.0342	0.0081	28399	4.81E-05	-0.0085	0.0020	28843	3.03E-05	-0.0132	0.0026	28859	8.73E-07	-0.0135	0.0033	28858	1.03E-04
AMBN	0.0021	0.0032	49043	7.68E-01	-0.0572	0.0149	27807	2.42E-04	-0.0231	0.0037	28251	5.06E-10	-0.0221	0.0048	28266	8.19E-06	-0.0234	0.0062	28265	2.71E-04
DDX4	0.0042	0.0061	42274	7.68E-01	-0.0215	0.0093	23352	3.21E-02	0.0020	0.0023	23710	4.24E-01	0.0025	0.0030	23723	4.78E-01	0.0030	0.0039	23722	5.10E-01
TGFBR2	-0.0026	0.0039	50125	7.68E-01	-0.0178	0.0122	28423	1.94E-01	0.0151	0.0030	28868	8.30E-07	0.0150	0.0039	28885	2.53E-04	0.0344	0.0051	28884	3.01E-11
GCNT1	-0.0027	0.0040	49744	7.68E-01	0.0150	0.0122	28212	2.78E-01	0.0080	0.0030	28661	1.02E-02	0.0042	0.0039	28678	3.43E-01	0.0076	0.0050	28677	1.72E-01
GUK1	0.0031	0.0046	42109	7.68E-01	-0.0013	0.0127	23248	9.37E-01	-0.0104	0.0031	23603	1.29E-03	-0.0111	0.0041	23617	1.05E-02	-0.0144	0.0053	23616	9.93E-03
CHGB	-0.0032	0.0048	50252	7.69E-01	0.0779	0.0099	28446	1.42E-14	-0.0582	0.0024	28895	1.71E-126	-0.0726	0.0032	28912	1.70E-113	-0.0694	0.0041	28911	3.90E-63
CNTN2	-0.0035	0.0052	50397	7.69E-01	-0.0948	0.0092	28576	7.93E-24	-0.0071	0.0023	29025	2.54E-03	-0.0207	0.0030	29042	1.08E-11	-0.0188	0.0038	29041	1.96E-06
SCGB1A1	0.0044	0.0065	50026	7.69E-01	-0.0206	0.0074	28387	8.96E-03	-0.0062	0.0018	28833	9.02E-04	-0.0100	0.0024	28849	4.76E-05	-0.0152	0.0031	28848	1.32E-06
PSMC3	0.0023	0.0035	41982	7.69E-01	-0.0139	0.0169	23146	4.84E-01	-0.0125	0.0041	23506	3.74E-03	-0.0038	0.0055	23521	5.55E-01	-0.0127	0.0070	23520	9.48E-02
LILRA4	0.0039	0.0058	42109	7.69E-01	-0.0001	0.0100	23248	9.94E-01	-0.0026	0.0025	23603	3.44E-01	-0.0045	0.0032	23617	2.10E-01	-0.0056	0.0042	23616	2.28E-01
DEFB104A_DEF104B	0.0043	0.0064	42120	7.70E-01	-0.0050	0.0090	23217	6.52E-01	0.0010	0.0022	23575	6.87E-01	0.0029	0.0029	23590	3.74E-01	0.0015	0.0037	23589	7.31E-01
FLT4	0.0027	0.0040	50125	7.70E-01	0.0632	0.0121	28423	4.32E-07	0.0429	0.0030	28868	9.51E-47	0.0373	0.0039	28885	4.53E-21	0.0406	0.0050	28884	2.09E-15
DDT	0.0033	0.0049	43537	7.70E-01	0.0512	0.0117	24024	2.64E-05	0.0041	0.0029	24398	1.96E-01	-0.0045	0.0038	24413	2.90E-01	0.0064	0.0049	24412	2.38E-01
LIFR	-0.0019	0.0028	49907	7.70E-01	0.0368	0.0173	28300	5.09E-02	-0.0100	0.0042	28746	2.58E-02	-0.0292	0.0056	28762	3.34E-07	-0.0154	0.0072	28761	4.53E-02
TREH	-0.0058	0.0087	43537	7.70E-01	0.0026	0.0065	24024	7.54E-01	0.0293	0.0016	24398	8.08E-76	0.0276	0.0021	24413	4.06E-39	0.0268	0.0027	24412	9.76E-23
CORO6	0.0029	0.0043	42120	7.70E-01	0.0337	0.0136	23217	2.12E-02	-0.0078	0.0033	23575	2.61E-02	-0.0024	0.0044	23590	6.51E-01	-0.0060	0.0056	23589	3.46E-01
MEP1A	-0.0055	0.0082	43346	7.71E-01	-0.1020	0.0068	23893	1.67E-49	0.0487	0.0016	24266	1.38E-187	0.0553	0.0022	24281	1.16E-138	0.0827	0.0028	24280	8.24E-189
HADH	0.0050	0.0075	42109	7.72E-01	0.0027	0.0076	23248	7.81E-01	-0.0007	0.0019	23603	7.69E-01	-0.0009	0.0025	23617	7.50E-01	-0.0005	0.0032	23616	8.93E-01
FKBP4	0.0034	0.0051	49589	7.74E-01	0.0912	0.0095	28083	4.41E-21	0.0130	0.0023	28527	4.97E-08	0.0141	0.0031	28543	8.72E-06	0.0161	0.0039	28542	8.11E-05
NIT1	0.0036	0.0054	42387	7.76E-01	0.0606	0.0105	23360	2.00E-08	0.0164	0.0026	23719	4.26E-10	0.0171	0.0034	23733	1.05E-06	0.0161	0.0044	23732	4.12E-04
MYBPC1	0.0053	0.0080	43535	7.76E-01	0.0525	0.0070	24011	2.35E-13	0.0026	0.0017	24384	1.56E-01	0.0146	0.0023	24399	2.46E-10	0.0293	0.0029	24398	3.58E-23
SKAP2	0.0080	0.0121	50189	7.77E-01	0.0360	0.0040	28442	4.54E-19	0.0137	0.0010	28888	1.12E-44	0.0144	0.0013	28904	9.02E-29	0.0151	0.0016	28903	2.23E-19
IL10RA	0.0045	0.0068	49043	7.77E-01	0.0063	0.0073	27807	4.66E-01	0.0029	0.0018	28251	1.43E-01	0.0026	0.0024	28266	3.21E-01	0.0041	0.0030	28265	2.28E-01
OPLAH	0.0052	0.0079	42387	7.78E-01	0.0672	0.0073	23360	1.33E-19	0.0191	0.0018	23719	7.42E-26	0.0224	0.0024	23733	1.08E-20	0.0206	0.0030	23732	3.86E-11
APBB1IP	-0.0035	0.0054	49744	7.78E-01	0.0922	0.0092	28212	6.86E-23	0.0333	0.0022	28661	6.64E-49	0.0258	0.0030	28678	8.83E-18	0.0456	0.0038	28677	2.77E-32
COL3A1	-0.0017	0.0027	43537	7.78E-01	-0.1786	0.0210	24024	8.69E-17	0.0493	0.0052	24398	4.04E-21	0.0364	0.0068	24413	1.96E-07	0.0573	0.0087	24412	1.56E-10
CA12	0.0025	0.0037	49744	7.78E-01	-0.0433	0.0130	28212	1.52E-03	-0.0312	0.0032	28661	2.47E-22	-0.0494	0.0042	28678	1.68E-31	-0.0470	0.0054	28677	7.11E-18
SLC9A3R2	0.0038	0.0058	43346	7.78E-01	0.0299	0.0098	23893	3.87E-03	0.0090	0.0024	24266	2.67E-04	0.0078	0.0032	24281	1.95E-02	0.0151	0.0040	24280	3.55E-04
KLK7	-0.0030	0.0045	41489	7.78E-01	-0.0287	0.0130	22936	4.22E-02	0.0109	0.0032	23291	1.01E-03	0.0162	0.0042	23303	2.01E-04	0.0263	0.0054	23302	2.43E-06
BLVRB	0.0051	0.0078	49982	7.79E-01	-0.0211	0.0064	28299	1.75E-03	-0.0159	0.0016	28747	1.00E-23	-0.0216	0.0021	28764	4.58E-25	-0.0184	0.0026	28763	1.09E-11
RTBDN	0.0023	0.0034	49744	7.79E-01	0.0120	0.0140	28212	4.68E-01	-0.0414	0.0034	28661	6.58E-33	-0.0737	0.0045	28678	5.53E-59	-0.0667	0.0058	28677	8.35E-30
DPY30	0.0046	0.0071	50242	7.80E-01	0.0714	0.0068	28461	3.17E-25	0.0300	0.0017	28908	2.35E-72	0.0289	0.0022	28925	3.76E-39	0.0410	0.0028	28924	1.81E-47
TIMP4	-0.0030	0.0046	49982	7.80E-01	0.0750	0.0105	28299	2.47E-12	-0.0394	0.0025	28747	9.23E-53	-0.0430	0.0034	28764	1.20E-36	-0.0255	0.0043	28763	8.59E-09
CIT	-0.0035	0.0053	42343	7.80E-01	-0.0017	0.0110	23314	9.09E-01	-0.0015	0.0027	23671	6.20E-01	-0.0052	0.0036	23685	1.87E-01	0.0047	0.0046	23684	3.66E-01
CCL22	-0.0040	0.0062	49461	7.80E-01	0.1251	0.0078	28047	1.82E-55	0.0252	0.0019	28488	2.64E-38	0.0221	0.0025	28503	1.27E-17	0.0316	0.0033	28502	1.93E-21

PPBP	0.0063	0.0096	43274	7.80E-01	0.0786	0.0058	23907	2.19E-40	0.0120	0.0014	24278	1.06E-16	0.0151	0.0019	24293	3.55E-15	0.0140	0.0024	24292	1.91E-08
FUS	0.0030	0.0046	48705	7.80E-01	0.0920	0.0107	27647	3.24E-17	0.0308	0.0026	28079	4.70E-31	0.0308	0.0035	28095	2.21E-18	0.0449	0.0044	28094	3.58E-23
CNTNAP2	0.0031	0.0048	49907	7.80E-01	-0.0453	0.0101	28300	1.73E-05	-0.0253	0.0025	28746	5.43E-24	-0.0460	0.0032	28762	2.75E-44	-0.0471	0.0042	28761	1.49E-28
SIGLEC5	-0.0089	0.0137	49982	7.80E-01	0.0112	0.0035	28299	2.53E-03	-0.0014	0.0009	28747	1.22E-01	-0.0023	0.0011	28764	5.40E-02	-0.0008	0.0015	28763	6.63E-01
RTKN2	0.0039	0.0059	42109	7.80E-01	-0.0142	0.0099	23248	2.00E-01	-0.0009	0.0024	23603	7.60E-01	-0.0012	0.0032	23617	7.58E-01	-0.0072	0.0041	23616	1.08E-01
DEFB118	0.0043	0.0066	42120	7.80E-01	-0.0023	0.0089	23217	8.39E-01	-0.0007	0.0022	23575	7.90E-01	-0.0010	0.0029	23590	7.80E-01	-0.0017	0.0037	23589	6.98E-01
PRSS22	-0.0026	0.0040	42274	7.80E-01	-0.0029	0.0144	23352	8.78E-01	-0.0073	0.0035	23710	5.41E-02	-0.0131	0.0047	23723	7.74E-03	-0.0004	0.0060	23722	9.58E-01
CALB2	0.0024	0.0036	48799	7.80E-01	0.0959	0.0132	27661	1.14E-12	0.0570	0.0032	28098	2.39E-68	0.0580	0.0043	28115	4.12E-41	0.0769	0.0055	28114	1.14E-43
NT5C3A	0.0065	0.0101	49833	7.82E-01	0.0407	0.0048	28244	5.92E-17	0.0093	0.0012	28688	3.69E-15	0.0087	0.0015	28704	3.54E-08	0.0056	0.0020	28703	7.73E-03
ICAM2	0.0023	0.0036	50594	7.82E-01	0.0675	0.0131	28667	5.72E-07	-0.0177	0.0032	29116	5.48E-08	-0.0194	0.0042	29132	7.60E-06	-0.0234	0.0054	29131	2.78E-05
RAD51	0.0040	0.0062	42740	7.82E-01	0.0090	0.0094	23551	4.13E-01	0.0000	0.0023	23912	9.94E-01	-0.0034	0.0030	23927	3.13E-01	0.0003	0.0039	23926	9.43E-01
S100A12	-0.0056	0.0088	49288	7.83E-01	0.0486	0.0056	27896	2.64E-17	0.0023	0.0014	28340	1.28E-01	0.0006	0.0018	28357	7.74E-01	0.0085	0.0023	28356	4.36E-04
DAAM1	0.0061	0.0095	42580	7.83E-01	0.0504	0.0060	23496	1.58E-16	0.0234	0.0015	23858	2.26E-56	0.0262	0.0019	23871	6.56E-41	0.0294	0.0025	23870	2.32E-31
MYL3	0.0054	0.0084	42387	7.83E-01	0.0274	0.0068	23360	1.27E-04	-0.0033	0.0017	23719	7.00E-02	0.0084	0.0022	23733	2.67E-04	0.0167	0.0029	23732	1.21E-08
DCUN1D1	0.0055	0.0086	42120	7.83E-01	-0.0140	0.0068	23217	5.81E-02	-0.0013	0.0017	23575	5.03E-01	0.0008	0.0022	23590	7.50E-01	-0.0022	0.0028	23589	5.03E-01
PRKAG3	0.0023	0.0036	42343	7.83E-01	-0.0224	0.0159	23314	2.12E-01	-0.0076	0.0039	23671	6.89E-02	-0.0034	0.0051	23685	5.73E-01	-0.0052	0.0066	23684	5.01E-01
CINP	-0.0032	0.0050	42740	7.83E-01	-0.0046	0.0115	23551	7.53E-01	0.0059	0.0028	23912	4.98E-02	0.0079	0.0037	23927	4.77E-02	0.0077	0.0048	23926	1.43E-01
PDZD2	0.0044	0.0070	42109	7.84E-01	0.0300	0.0083	23248	5.80E-04	0.0118	0.0020	23603	1.33E-08	0.0140	0.0027	23617	4.58E-07	0.0205	0.0035	23616	7.44E-09
TIMP3	-0.0097	0.0152	50189	7.85E-01	0.0508	0.0032	28442	9.38E-56	0.0078	0.0008	28888	5.34E-23	0.0071	0.0010	28904	1.53E-11	0.0056	0.0013	28903	4.31E-05
AMY2A	-0.0036	0.0057	48052	7.85E-01	-0.0470	0.0089	27226	2.67E-07	-0.0133	0.0022	27660	1.61E-09	-0.0119	0.0028	27675	5.36E-05	-0.0118	0.0037	27674	2.03E-03
ANXA2	-0.0053	0.0083	41749	7.85E-01	0.0333	0.0070	23043	4.57E-06	0.0211	0.0017	23398	1.59E-33	0.0216	0.0023	23412	1.12E-20	0.0314	0.0029	23411	6.47E-26
MESD	0.0089	0.0141	49982	7.85E-01	0.0522	0.0034	28299	2.06E-50	0.0107	0.0008	28747	7.19E-36	0.0116	0.0011	28764	9.27E-25	0.0104	0.0014	28763	1.09E-12
CFHR2	0.0041	0.0065	43278	7.87E-01	0.0488	0.0086	23882	3.87E-08	0.0021	0.0021	24252	3.73E-01	-0.0016	0.0028	24267	6.31E-01	0.0051	0.0036	24266	2.00E-01
DSC2	-0.0025	0.0040	49416	7.87E-01	0.0150	0.0122	27999	2.78E-01	-0.0157	0.0030	28441	2.55E-07	-0.0215	0.0039	28458	9.35E-08	0.0049	0.0050	28457	3.92E-01
IL31	0.0041	0.0065	42274	7.87E-01	-0.0079	0.0089	23352	4.49E-01	-0.0040	0.0022	23710	8.82E-02	-0.0024	0.0029	23723	4.77E-01	-0.0059	0.0037	23722	1.46E-01
ABHD14B	0.0042	0.0067	49436	7.88E-01	0.0700	0.0073	27992	8.64E-21	0.0075	0.0018	28434	5.43E-05	0.0066	0.0024	28450	8.05E-03	0.0051	0.0031	28449	1.24E-01
FRMD7	0.0024	0.0038	42343	7.88E-01	0.0447	0.0151	23314	5.44E-03	0.0023	0.0037	23671	5.86E-01	0.0050	0.0049	23685	3.71E-01	-0.0012	0.0063	23684	8.74E-01
SCRN1	0.0041	0.0065	49907	7.88E-01	0.0627	0.0075	28300	1.97E-16	0.0128	0.0018	28746	6.40E-12	0.0132	0.0024	28762	8.34E-08	0.0112	0.0031	28761	5.66E-04
PFKFB2	0.0056	0.0089	49661	7.88E-01	0.0448	0.0055	28165	1.86E-15	0.0126	0.0013	28613	3.60E-20	0.0120	0.0018	28630	3.77E-11	0.0144	0.0023	28629	8.07E-10
PI16	-0.0018	0.0028	43572	7.88E-01	-0.0893	0.0199	24036	1.59E-05	-0.0330	0.0049	24408	3.29E-11	-0.0265	0.0065	24423	7.48E-05	-0.0353	0.0083	24422	3.82E-05
GRAP2	0.0093	0.0148	49984	7.90E-01	0.0341	0.0033	28340	1.22E-24	0.0115	0.0008	28785	5.27E-46	0.0124	0.0011	28801	3.88E-31	0.0125	0.0014	28800	1.10E-19
ACTA2	0.0032	0.0050	49059	7.90E-01	0.0878	0.0098	27799	1.84E-18	-0.0171	0.0024	28234	2.21E-12	-0.0190	0.0032	28248	4.00E-09	-0.0079	0.0041	28247	7.23E-02
MYOC	0.0033	0.0053	49982	7.90E-01	-0.0704	0.0091	28299	4.48E-14	-0.0061	0.0022	28747	9.78E-03	-0.0113	0.0029	28764	2.13E-04	-0.0164	0.0038	28763	2.70E-05
SUMF1	-0.0048	0.0076	42274	7.90E-01	-0.0113	0.0076	23352	1.84E-01	0.0014	0.0019	23710	5.08E-01	0.0010	0.0025	23723	7.23E-01	0.0051	0.0032	23722	1.41E-01
NPTX1	0.0029	0.0047	49982	7.90E-01	0.0154	0.0103	28299	1.84E-01	-0.0086	0.0025	28747	9.43E-04	-0.0190	0.0033	28764	1.90E-08	-0.0249	0.0043	28763	1.14E-08
NEB	-0.0027	0.0044	42109	7.91E-01	0.0308	0.0134	23248	3.38E-02	-0.0036	0.0033	23603	3.29E-01	0.0025	0.0043	23617	6.18E-01	0.0030	0.0056	23616	6.55E-01
C1QBP	-0.0048	0.0077	43455	7.93E-01	0.0381	0.0072	23960	3.24E-07	0.0037	0.0018	24328	4.67E-02	0.0042	0.0023	24343	1.01E-01	0.0051	0.0030	24342	1.22E-01
ROBO2	0.0017	0.0027	50415	7.93E-01	-0.1126	0.0180	28544	1.17E-09	0.0298	0.0044	28996	3.10E-11	0.0126	0.0058	29013	4.37E-02	0.0071	0.0075	29012	4.07E-01
CD55	-0.0019	0.0030	48241	7.93E-01	0.0233	0.0164	27388	2.08E-01	-0.0233	0.0040	27816	1.41E-08	-0.0268	0.0053	27831	8.70E-07	-0.0292	0.0068	27830	3.41E-05
EIF4EBP1	0.0047	0.0076	49984	7.93E-01	0.0461	0.0065	28340	3.89E-12	-0.0035	0.0016	28785	3.68E-02	-0.0070	0.0021	28801	1.23E-03	-0.0048	0.0027	28800	9.87E-02
GAST	-0.0092	0.0148	43426	7.95E-01	-0.0544	0.0038	23934	4.75E-46	0.0116	0.0009	24305	7.87E-36	0.0202	0.0012	24320	2.51E-61	0.0303	0.0015	24319	5.16E-83
AIF1	0.0038	0.0061	48785	7.95E-01	0.0837	0.0081	27677	3.09E-24	0.0191	0.0020	28109	2.27E-21	0.0221	0.0026	28125	1.22E-16	0.0239	0.0034	28124	3.93E-12
QDPR	-0.0031	0.0050	49747	7.95E-01	0.0981	0.0096	28212	1.53E-23	0.0256	0.0024	28656	4.85E-27	0.0255	0.0031	28671	6.36E-16	0.0269	0.0040	28670	4.40E-11

PFDN2	0.0039	0.0064	48799	7.95E-01	0.0281	0.0077	27661	4.82E-04	0.0034	0.0019	28098	8.92E-02	0.0064	0.0025	28115	1.51E-02	0.0077	0.0032	28114	2.42E-02
EPN1	0.0030	0.0049	42740	7.95E-01	-0.0145	0.0115	23551	2.65E-01	0.0040	0.0028	23912	1.94E-01	0.0061	0.0037	23927	1.36E-01	0.0046	0.0048	23926	3.97E-01
KLK12	0.0099	0.0160	48785	7.95E-01	0.0021	0.0031	27677	5.76E-01	-0.0025	0.0008	28109	1.27E-03	-0.0031	0.0010	28125	2.79E-03	-0.0031	0.0013	28124	2.31E-02
JCHAIN	0.0043	0.0071	49043	7.96E-01	0.0121	0.0070	27807	1.16E-01	-0.0054	0.0017	28251	2.40E-03	-0.0073	0.0022	28266	1.76E-03	-0.0059	0.0029	28265	5.69E-02
FGF2	0.0048	0.0078	49907	7.96E-01	0.0632	0.0062	28300	1.22E-23	0.0133	0.0015	28746	4.83E-18	0.0145	0.0020	28762	9.45E-13	0.0145	0.0026	28761	3.90E-08
FLT1	-0.0016	0.0025	49660	7.96E-01	0.1519	0.0188	28154	2.18E-15	-0.0355	0.0046	28601	2.80E-14	-0.0528	0.0060	28618	8.94E-18	-0.0397	0.0078	28617	6.93E-07
TOR1AIP1	-0.0037	0.0061	42387	7.96E-01	0.0544	0.0098	23360	6.67E-08	0.0134	0.0024	23719	5.46E-08	0.0127	0.0032	23733	1.13E-04	0.0218	0.0041	23732	2.11E-07
IL22	-0.0048	0.0078	43331	7.96E-01	0.0197	0.0072	23884	1.08E-02	-0.0087	0.0018	24254	1.80E-06	-0.0099	0.0023	24269	3.98E-05	-0.0094	0.0030	24268	3.00E-03
TINAGL1	0.0016	0.0026	49825	7.96E-01	0.0302	0.0187	28292	1.48E-01	0.0105	0.0046	28734	2.98E-02	-0.0083	0.0060	28750	2.16E-01	0.0421	0.0077	28749	1.15E-07
DTX2	0.0044	0.0072	42343	7.96E-01	-0.0019	0.0080	23314	8.58E-01	-0.0013	0.0020	23671	5.70E-01	0.0000	0.0026	23685	9.93E-01	-0.0005	0.0033	23684	9.07E-01
ADAM8	0.0021	0.0034	50331	7.96E-01	0.1287	0.0141	28491	4.17E-19	0.0165	0.0035	28942	3.16E-06	0.0115	0.0046	28959	1.74E-02	0.0229	0.0059	28958	1.70E-04
ACAN	0.0020	0.0033	49510	7.96E-01	-0.0514	0.0145	28069	7.58E-04	-0.0633	0.0035	28511	2.59E-70	-0.0733	0.0047	28526	1.80E-54	-0.0896	0.0060	28525	2.89E-49
NPM1	-0.0089	0.0146	13354	7.96E-01	-0.0260	0.0130	7649	6.78E-02	0.0111	0.0032	7787	7.71E-04	0.0047	0.0042	7792	3.18E-01	0.0210	0.0054	7792	2.01E-04
TYRO3	-0.0020	0.0033	49984	7.96E-01	0.0229	0.0147	28340	1.63E-01	0.0102	0.0036	28785	6.56E-03	-0.0017	0.0047	28801	7.61E-01	-0.0008	0.0061	28800	9.13E-01
BTNL10	-0.0028	0.0046	41982	7.96E-01	-0.0180	0.0125	23146	1.99E-01	-0.0038	0.0031	23506	2.63E-01	-0.0029	0.0040	23521	5.39E-01	-0.0030	0.0052	23520	6.29E-01
CNTN4	-0.0017	0.0028	49982	7.96E-01	-0.0170	0.0174	28299	4.01E-01	-0.0154	0.0043	28747	4.95E-04	-0.0313	0.0056	28764	5.21E-08	-0.0452	0.0072	28763	1.06E-09
KLRD1	-0.0033	0.0054	50529	8.01E-01	-0.0203	0.0088	28636	3.37E-02	0.0210	0.0022	29090	1.00E-21	0.0238	0.0028	29107	2.49E-16	0.0259	0.0037	29106	5.00E-12
FIS1	-0.0054	0.0089	49946	8.01E-01	0.0806	0.0054	28320	1.01E-48	0.0141	0.0013	28763	9.83E-26	0.0142	0.0017	28778	1.20E-15	0.0115	0.0022	28777	7.01E-07
CCN5	-0.0028	0.0047	49982	8.04E-01	0.0308	0.0104	28299	5.15E-03	0.0245	0.0025	28747	1.69E-21	0.0160	0.0033	28764	3.52E-06	0.0283	0.0043	28763	1.19E-10
FCRL2	-0.0034	0.0056	50288	8.07E-01	-0.0512	0.0085	28503	3.23E-09	0.0129	0.0021	28952	1.24E-09	0.0080	0.0027	28969	5.64E-03	0.0182	0.0035	28968	5.06E-07
PRTG	-0.0017	0.0029	50397	8.08E-01	-0.1674	0.0166	28576	5.01E-23	-0.0038	0.0041	29025	4.09E-01	-0.0251	0.0054	29042	5.55E-06	-0.0253	0.0069	29041	4.27E-04
PDGFA	0.0049	0.0083	50594	8.10E-01	0.0965	0.0057	28667	2.48E-61	0.0106	0.0014	29116	1.32E-13	0.0134	0.0019	29132	1.16E-12	0.0112	0.0024	29131	4.97E-06
DPEP2	-0.0020	0.0034	49744	8.10E-01	0.0924	0.0143	28212	3.51E-10	-0.0155	0.0035	28661	1.78E-05	-0.0123	0.0046	28678	1.21E-02	-0.0331	0.0059	28677	5.28E-08
EDNRB	-0.0030	0.0052	42274	8.12E-01	-0.0133	0.0110	23352	2.86E-01	0.0047	0.0027	23710	1.04E-01	0.0073	0.0036	23723	5.80E-02	0.0075	0.0046	23722	1.40E-01
POSTN	-0.0025	0.0043	43537	8.12E-01	0.0101	0.0129	24024	5.09E-01	-0.0489	0.0032	24398	6.19E-53	-0.0626	0.0042	24413	1.03E-49	-0.0730	0.0054	24412	3.65E-41
CCDC28A	-0.0020	0.0034	42343	8.13E-01	0.0125	0.0171	23314	5.37E-01	0.0077	0.0042	23671	8.53E-02	0.0096	0.0055	23685	1.09E-01	0.0099	0.0071	23684	2.07E-01
IGLON5	-0.0062	0.0106	41982	8.13E-01	0.0033	0.0055	23146	6.22E-01	-0.0009	0.0013	23506	5.54E-01	-0.0014	0.0018	23521	4.85E-01	-0.0021	0.0023	23520	4.10E-01
MRPS16	-0.0020	0.0034	42274	8.13E-01	0.0019	0.0173	23352	9.34E-01	0.0012	0.0043	23710	8.10E-01	0.0049	0.0056	23723	4.40E-01	0.0022	0.0072	23722	8.03E-01
PGR	-0.0069	0.0118	42274	8.15E-01	-0.0064	0.0049	23352	2.54E-01	-0.0004	0.0012	23710	7.94E-01	0.0002	0.0016	23723	9.31E-01	-0.0013	0.0021	23722	5.89E-01
TNFAIP8	0.0025	0.0042	49043	8.16E-01	0.0812	0.0117	27807	1.42E-11	0.0168	0.0029	28251	1.00E-08	0.0216	0.0038	28266	2.34E-08	0.0207	0.0049	28265	3.89E-05
HBEGF	0.0050	0.0085	50251	8.16E-01	0.0942	0.0057	28487	5.58E-60	0.0228	0.0014	28934	2.35E-59	0.0284	0.0018	28951	6.06E-53	0.0244	0.0024	28950	3.12E-24
HEPACAM2	0.0028	0.0048	43426	8.16E-01	-0.0622	0.0117	23934	2.45E-07	-0.0226	0.0029	24305	6.12E-15	-0.0350	0.0038	24320	5.81E-20	-0.0345	0.0048	24319	2.91E-12
TNFRSF21	0.0018	0.0032	50415	8.18E-01	-0.0002	0.0150	28544	9.92E-01	-0.0340	0.0037	28996	6.68E-20	-0.0460	0.0048	29013	7.92E-21	-0.0417	0.0062	29012	5.78E-11
SNX18	0.0030	0.0051	43346	8.18E-01	-0.0039	0.0111	23893	7.81E-01	0.0076	0.0027	24266	7.31E-03	0.0103	0.0036	24281	6.13E-03	0.0106	0.0046	24280	3.11E-02
TREML1	0.0035	0.0060	43572	8.19E-01	0.1352	0.0093	24036	1.13E-46	0.0124	0.0023	24408	1.14E-07	0.0190	0.0030	24423	7.03E-10	0.0099	0.0039	24422	1.68E-02
BMP4	-0.0031	0.0053	49505	8.19E-01	-0.0907	0.0091	28036	1.77E-22	0.0006	0.0022	28478	8.36E-01	0.0054	0.0029	28494	9.21E-02	0.0187	0.0038	28493	1.51E-06
ICAM3	-0.0017	0.0030	50594	8.19E-01	0.0601	0.0160	28667	3.24E-04	-0.0039	0.0039	29116	3.73E-01	-0.0229	0.0051	29132	1.54E-05	-0.0235	0.0066	29131	6.48E-04
C7	0.0021	0.0037	42562	8.20E-01	0.0970	0.0154	23481	9.05E-10	-0.0329	0.0038	23847	9.54E-18	-0.0525	0.0050	23862	3.67E-25	-0.0510	0.0064	23861	6.40E-15
ANXA5	-0.0020	0.0035	48639	8.21E-01	0.0751	0.0142	27543	2.91E-07	0.0023	0.0035	27977	5.59E-01	0.0022	0.0046	27994	6.94E-01	0.0142	0.0059	27993	2.33E-02
SHPK	-0.0027	0.0047	42740	8.21E-01	0.0036	0.0121	23551	8.15E-01	0.0013	0.0030	23912	7.07E-01	0.0034	0.0039	23927	4.51E-01	-0.0005	0.0050	23926	9.31E-01
IL18RAP	0.0113	0.0197	49275	8.21E-01	0.0007	0.0025	27914	8.31E-01	0.0004	0.0006	28353	5.76E-01	0.0003	0.0008	28369	7.61E-01	0.0006	0.0010	28368	6.52E-01
B4GALT1	-0.0018	0.0032	50189	8.21E-01	-0.0638	0.0150	28442	4.33E-05	0.0083	0.0037	28888	3.25E-02	-0.0085	0.0048	28904	1.06E-01	0.0028	0.0062	28903	7.01E-01
GPR101	-0.0039	0.0069	42120	8.21E-01	0.0012	0.0083	23217	9.13E-01	-0.0021	0.0020	23575	3.52E-01	-0.0010	0.0027	23590	7.50E-01	-0.0054	0.0034	23589	1.54E-01

MST1	-0.0042	0.0074	42911	8.22E-01	0.0329	0.0077	23714	4.51E-05	0.0034	0.0019	24081	9.15E-02	0.0018	0.0025	24096	5.37E-01	0.0015	0.0032	24095	6.98E-01
AMFR	-0.0043	0.0075	48799	8.22E-01	0.0216	0.0067	27661	2.20E-03	0.0097	0.0016	28098	8.42E-09	0.0090	0.0022	28115	5.92E-05	0.0109	0.0028	28114	1.72E-04
PTH1R	0.0025	0.0044	49907	8.22E-01	0.0148	0.0113	28300	2.45E-01	0.0315	0.0027	28746	5.78E-30	0.0394	0.0036	28762	4.70E-27	0.0508	0.0046	28761	3.82E-27
SELL	0.0015	0.0026	43602	8.22E-01	0.0035	0.0211	24051	8.98E-01	-0.0230	0.0052	24424	1.50E-05	-0.0278	0.0068	24439	8.65E-05	-0.0271	0.0088	24438	3.34E-03
CSH1	-0.0021	0.0036	43572	8.22E-01	-0.0010	0.0153	24036	9.63E-01	-0.0089	0.0038	24408	2.54E-02	-0.0132	0.0050	24423	1.19E-02	-0.0108	0.0064	24422	1.20E-01
NECTIN2	0.0019	0.0034	49910	8.22E-01	0.0608	0.0139	28300	2.65E-05	-0.0029	0.0034	28742	4.42E-01	-0.0077	0.0045	28758	1.14E-01	0.0068	0.0058	28757	2.95E-01
IL4R	0.0024	0.0042	49907	8.22E-01	-0.0260	0.0114	28300	3.50E-02	-0.0245	0.0028	28746	3.44E-18	-0.0354	0.0037	28762	1.72E-21	-0.0404	0.0047	28761	3.32E-17
ENOPH1	-0.0035	0.0062	43331	8.22E-01	0.0092	0.0089	23884	3.73E-01	0.0044	0.0022	24254	6.19E-02	0.0066	0.0029	24269	3.35E-02	0.0033	0.0037	24268	4.36E-01
BTN2A1	-0.0017	0.0030	50189	8.25E-01	-0.0163	0.0156	28442	3.65E-01	-0.0029	0.0038	28888	5.07E-01	-0.0031	0.0050	28904	5.99E-01	0.0080	0.0065	28903	2.67E-01
IFIT1	-0.0033	0.0059	42740	8.25E-01	0.0123	0.0096	23551	2.55E-01	0.0038	0.0024	23912	1.37E-01	0.0062	0.0031	23927	6.34E-02	0.0060	0.0040	23926	1.74E-01
IL5RA	-0.0037	0.0065	49907	8.25E-01	0.0008	0.0074	28300	9.32E-01	0.0022	0.0018	28746	2.79E-01	-0.0012	0.0024	28762	6.84E-01	0.0031	0.0031	28761	3.75E-01
ISM2	0.0028	0.0049	43537	8.25E-01	0.0012	0.0113	24024	9.34E-01	-0.0018	0.0028	24398	5.71E-01	-0.0016	0.0036	24413	7.16E-01	0.0005	0.0047	24412	9.34E-01
RSPO1	0.0023	0.0041	49589	8.26E-01	0.2637	0.0119	28083	1.94E-106	-0.0493	0.0029	28527	1.47E-62	-0.0499	0.0039	28543	2.36E-37	-0.0599	0.0050	28542	1.10E-32
HAVCR1	-0.0041	0.0073	50324	8.26E-01	0.0324	0.0065	28535	1.40E-06	0.0220	0.0016	28983	6.03E-43	0.0108	0.0021	29000	4.85E-07	0.0197	0.0027	28999	7.27E-13
SNAP23	0.0057	0.0101	49984	8.26E-01	0.0429	0.0048	28340	1.45E-18	0.0195	0.0012	28785	2.51E-61	0.0205	0.0015	28801	1.36E-39	0.0195	0.0020	28800	4.45E-22
EPGN	0.0030	0.0054	43331	8.26E-01	-0.0177	0.0103	23884	1.20E-01	-0.0050	0.0025	24254	6.25E-02	-0.0021	0.0033	24269	5.96E-01	-0.0021	0.0043	24268	6.76E-01
SPTLC1	-0.0024	0.0042	43426	8.27E-01	0.0687	0.0133	23934	6.02E-07	0.0188	0.0033	24305	1.60E-08	0.0184	0.0043	24320	3.41E-05	0.0227	0.0055	24319	6.96E-05
ITGAL	-0.0028	0.0050	42274	8.27E-01	0.0002	0.0115	23352	9.92E-01	0.0364	0.0028	23710	2.51E-37	0.0378	0.0037	23723	1.64E-23	0.0441	0.0048	23722	1.48E-19
PPIE	0.0039	0.0070	42740	8.28E-01	0.0117	0.0080	23551	1.90E-01	-0.0024	0.0020	23912	2.59E-01	-0.0024	0.0026	23927	4.13E-01	0.0005	0.0033	23926	9.04E-01
CLINT1	-0.0030	0.0054	41982	8.28E-01	0.0130	0.0107	23146	2.88E-01	0.0004	0.0026	23506	8.94E-01	0.0009	0.0035	23521	8.23E-01	0.0000	0.0044	23520	9.95E-01
HNRNPUL1	0.0032	0.0057	43455	8.29E-01	0.0952	0.0100	23960	9.49E-21	0.0167	0.0025	24328	2.02E-11	0.0130	0.0032	24343	1.13E-04	0.0235	0.0042	24342	3.54E-08
LMNB1	-0.0039	0.0070	43266	8.30E-01	0.0399	0.0084	23845	4.27E-06	0.0005	0.0021	24218	8.55E-01	-0.0066	0.0027	24233	2.17E-02	0.0011	0.0035	24232	7.97E-01
TMSB10	-0.0049	0.0089	49982	8.30E-01	0.1006	0.0054	28299	2.91E-75	0.0146	0.0013	28747	1.67E-27	0.0153	0.0017	28764	1.01E-17	0.0134	0.0023	28763	7.31E-09
IL17RB	0.0035	0.0063	49279	8.30E-01	0.1084	0.0077	27910	1.15E-43	-0.0497	0.0019	28353	1.37E-152	-0.0532	0.0025	28369	5.74E-101	-0.0595	0.0032	28368	1.18E-76
CXCL11	-0.0050	0.0091	50415	8.30E-01	0.0724	0.0053	28544	1.46E-41	0.0027	0.0013	28996	4.91E-02	0.0010	0.0017	29013	6.30E-01	0.0019	0.0022	29012	4.40E-01
KIFBP	0.0053	0.0096	49744	8.30E-01	0.0653	0.0051	28212	1.33E-36	0.0171	0.0012	28661	2.59E-42	0.0176	0.0016	28678	3.35E-26	0.0171	0.0021	28677	1.49E-15
MIF	0.0043	0.0079	49900	8.30E-01	0.0714	0.0061	28245	1.90E-30	0.0094	0.0015	28692	8.62E-10	0.0092	0.0020	28709	5.88E-06	0.0082	0.0025	28708	2.20E-03
PRDX5	-0.0043	0.0078	50529	8.30E-01	0.0688	0.0061	28636	7.99E-29	0.0113	0.0015	29090	7.78E-14	0.0112	0.0020	29107	2.14E-08	0.0069	0.0025	29106	9.23E-03
SEC31A	0.0048	0.0088	42387	8.30E-01	0.0659	0.0065	23360	2.75E-23	0.0234	0.0016	23719	2.71E-47	0.0250	0.0021	23733	1.65E-31	0.0258	0.0027	23732	9.57E-21
ARHGAP45	0.0052	0.0095	42580	8.30E-01	0.0497	0.0060	23496	3.22E-16	0.0157	0.0015	23858	3.06E-26	0.0160	0.0019	23871	3.54E-16	0.0150	0.0025	23870	3.80E-09
CEACAM5	-0.0043	0.0077	48150	8.30E-01	0.0340	0.0065	27290	3.36E-07	-0.0135	0.0016	27715	4.53E-17	-0.0155	0.0021	27730	3.86E-13	-0.0156	0.0027	27729	1.52E-08
LAIR1	-0.0025	0.0047	49941	8.30E-01	0.0537	0.0103	28321	4.23E-07	0.0201	0.0025	28766	4.63E-15	0.0227	0.0033	28782	2.22E-11	0.0444	0.0043	28781	1.45E-24
CSF3R	0.0019	0.0036	42274	8.30E-01	0.0749	0.0161	23352	7.61E-06	0.0204	0.0040	23710	5.18E-07	0.0121	0.0053	23723	3.12E-02	0.0181	0.0067	23722	1.13E-02
CLEC7A	-0.0038	0.0068	50529	8.30E-01	0.0307	0.0070	28636	2.69E-05	-0.0025	0.0017	29090	1.74E-01	-0.0016	0.0023	29107	5.58E-01	0.0032	0.0029	29106	3.25E-01
TMPRSS11D	0.0024	0.0044	43344	8.30E-01	0.0551	0.0129	23894	3.89E-05	-0.0222	0.0031	24264	3.50E-12	-0.0251	0.0041	24279	3.27E-09	-0.0162	0.0053	24278	3.90E-03
SMFDL3B	0.0047	0.0086	43331	8.30E-01	-0.0107	0.0065	23884	1.37E-01	0.0011	0.0016	24254	5.56E-12	0.0019	0.0021	24269	4.16E-01	0.0032	0.0027	24268	2.89E-01
ARHGAP5	0.0048	0.0087	41982	8.30E-01	0.0103	0.0066	23146	1.64E-01	0.0053	0.0016	23506	1.90E-03	0.0061	0.0022	23521	7.05E-03	0.0070	0.0028	23520	1.69E-02
IL24	0.0030	0.0055	49043	8.30E-01	0.0102	0.0088	27807	3.14E-01	-0.0014	0.0022	28251	5.75E-01	-0.0008	0.0028	28266	8.04E-01	0.0022	0.0037	28265	6.15E-01
VSTM2B	0.0026	0.0048	42740	8.30E-01	-0.0083	0.0122	23551	5.71E-01	0.0009	0.0030	23912	7.97E-01	0.0023	0.0039	23927	6.27E-01	-0.0016	0.0051	23926	8.03E-01
SDK2	0.0024	0.0044	42580	8.30E-01	0.0037	0.0130	23496	8.22E-01	0.0044	0.0032	23858	2.08E-01	-0.0025	0.0042	23871	6.08E-01	-0.0011	0.0054	23870	8.70E-01
RPS10	0.0026	0.0048	42109	8.30E-01	0.0016	0.0122	23248	9.18E-01	-0.0027	0.0030	23603	4.28E-01	0.0003	0.0039	23617	9.52E-01	-0.0044	0.0051	23616	4.49E-01
C1QTNF5	0.0023	0.0043	42580	8.32E-01	0.0841	0.0132	23496	5.23E-10	0.0273	0.0032	23858	1.06E-16	0.0244	0.0043	23871	2.40E-08	0.0648	0.0055	23870	2.69E-31
CD101	-0.0027	0.0049	43346	8.32E-01	0.0297	0.0114	23893	1.49E-02	0.0198	0.0028	24266	3.36E-12	0.0196	0.0037	24281	2.19E-07	0.0267	0.0047	24280	3.68E-08

ERVV_1	0.0028	0.0052	42109	8.32E-01	-0.0069	0.0110	23248	6.05E-01	-0.0080	0.0027	23603	4.49E-03	-0.0103	0.0036	23617	6.23E-03	-0.0131	0.0046	23616	6.77E-03
RAB44	-0.0028	0.0051	43331	8.33E-01	0.0046	0.0117	23884	7.56E-01	0.0005	0.0029	24254	8.89E-01	-0.0075	0.0038	24269	6.41E-02	0.0077	0.0048	24268	1.46E-01
TIE1	-0.0026	0.0048	50594	8.33E-01	0.0336	0.0101	28667	1.54E-03	0.0080	0.0025	29116	1.73E-03	-0.0012	0.0032	29132	7.48E-01	0.0011	0.0042	29131	8.29E-01
CDSN	0.0027	0.0050	50373	8.33E-01	0.0193	0.0096	28532	6.56E-02	-0.0284	0.0023	28982	5.22E-33	-0.0290	0.0031	28999	2.33E-20	-0.0330	0.0040	28998	3.50E-16
SAP18	-0.0045	0.0083	42740	8.34E-01	0.0085	0.0068	23551	2.73E-01	-0.0002	0.0017	23912	9.19E-01	0.0004	0.0022	23927	8.76E-01	-0.0007	0.0028	23926	8.40E-01
XCL1	-0.0034	0.0064	50397	8.36E-01	0.0099	0.0074	28576	2.41E-01	0.0171	0.0018	29025	1.73E-20	0.0215	0.0024	29042	9.16E-19	0.0347	0.0031	29041	1.35E-28
IL4	-0.0056	0.0104	49043	8.36E-01	0.0052	0.0047	27807	3.28E-01	0.0000	0.0011	28251	9.96E-01	-0.0008	0.0015	28266	6.37E-01	-0.0014	0.0019	28265	5.41E-01
CST7	-0.0058	0.0109	50030	8.36E-01	0.0638	0.0044	28363	1.86E-45	0.0037	0.0011	28808	1.06E-03	0.0050	0.0014	28823	9.51E-04	0.0070	0.0018	28822	2.48E-04
ARHGEF5	-0.0045	0.0085	42120	8.36E-01	0.0197	0.0068	23217	6.71E-03	-0.0040	0.0017	23575	2.27E-02	-0.0077	0.0022	23590	8.50E-04	-0.0041	0.0028	23589	1.93E-01
PTPRZ1	0.0020	0.0038	43535	8.36E-01	0.0028	0.0147	24011	8.83E-01	-0.0393	0.0036	24384	3.12E-27	-0.0581	0.0047	24399	1.11E-33	-0.0635	0.0061	24398	1.14E-24
AREG	-0.0028	0.0053	49744	8.37E-01	0.0175	0.0092	28212	8.26E-02	-0.0174	0.0022	28661	2.28E-14	-0.0171	0.0030	28678	1.44E-08	0.0024	0.0038	28677	5.96E-01
PBXIP1	0.0018	0.0035	43346	8.37E-01	-0.1251	0.0164	23893	8.38E-14	0.0699	0.0040	24266	7.45E-67	0.0723	0.0053	24281	2.04E-41	0.0986	0.0068	24280	1.69E-46
RET	-0.0025	0.0047	49744	8.38E-01	-0.0526	0.0104	28212	8.94E-07	0.0799	0.0025	28661	2.61E-220	0.0770	0.0033	28678	9.42E-118	0.0826	0.0043	28677	3.56E-82
CR1	-0.0022	0.0041	43409	8.38E-01	-0.0580	0.0134	23991	3.24E-05	0.0361	0.0033	24363	2.36E-27	0.0267	0.0044	24378	1.88E-09	0.0379	0.0056	24377	3.43E-11
RAB37	-0.0051	0.0095	49043	8.38E-01	0.0145	0.0052	27807	9.21E-03	0.0055	0.0013	28251	2.49E-05	0.0058	0.0017	28266	9.72E-04	0.0057	0.0022	28265	1.32E-02
FGF6	0.0025	0.0047	42274	8.38E-01	-0.0121	0.0123	23352	3.99E-01	-0.0015	0.0030	23710	6.80E-01	0.0010	0.0040	23723	8.42E-01	0.0000	0.0051	23722	9.99E-01
POLR2A	0.0018	0.0034	42274	8.38E-01	0.0011	0.0172	23352	9.63E-01	0.0022	0.0042	23710	6.52E-01	0.0027	0.0056	23723	6.88E-01	-0.0029	0.0072	23722	7.32E-01
CDA	0.0029	0.0055	43455	8.38E-01	0.0212	0.0104	23982	6.10E-02	0.0358	0.0025	24355	1.31E-44	0.0300	0.0033	24370	9.36E-19	0.0544	0.0043	24369	5.48E-36
ATP1B1	-0.0029	0.0056	42109	8.38E-01	0.0168	0.0104	23248	1.48E-01	-0.0053	0.0026	23603	5.03E-02	-0.0073	0.0034	23617	4.29E-02	-0.0079	0.0043	23616	9.26E-02
ITM2A	-0.0037	0.0069	49907	8.38E-01	-0.0106	0.0069	28300	1.74E-01	-0.0076	0.0017	28746	1.22E-05	-0.0115	0.0022	28762	5.54E-07	-0.0076	0.0029	28761	1.28E-02
HARS1	0.0047	0.0089	49982	8.39E-01	0.0665	0.0054	28299	8.98E-34	0.0158	0.0013	28747	5.20E-32	0.0168	0.0017	28764	2.62E-21	0.0162	0.0022	28763	1.72E-12
SUSD1	-0.0029	0.0056	49059	8.39E-01	0.1030	0.0087	27799	5.06E-31	0.0199	0.0021	28234	4.85E-20	0.0221	0.0028	28248	1.48E-14	0.0079	0.0036	28247	4.13E-02
BCAM	0.0015	0.0028	49982	8.40E-01	-0.0024	0.0175	28299	9.16E-01	-0.0206	0.0043	28747	2.58E-06	-0.0440	0.0056	28764	1.71E-14	-0.0345	0.0072	28763	3.75E-06
S100G	0.0028	0.0053	43455	8.40E-01	0.2833	0.0104	23960	3.05E-158	-0.0356	0.0026	24328	1.54E-42	-0.0411	0.0034	24343	1.12E-32	-0.0590	0.0044	24342	1.35E-40
SERPIN2	-0.0034	0.0065	43346	8.40E-01	-0.0073	0.0087	23893	4.75E-01	0.0091	0.0021	24266	2.89E-05	0.0081	0.0028	24281	6.48E-03	0.0109	0.0036	24280	4.23E-03
FGF20	-0.0026	0.0050	42274	8.40E-01	0.0084	0.0115	23352	5.38E-01	-0.0012	0.0028	23710	7.21E-01	-0.0003	0.0037	23723	9.47E-01	-0.0032	0.0048	23722	5.75E-01
RILPL2	0.0059	0.0112	43535	8.40E-01	0.0630	0.0050	24011	1.89E-35	0.0126	0.0012	24384	2.43E-24	0.0133	0.0016	24399	4.85E-16	0.0114	0.0021	24398	8.76E-08
ATP1B3	-0.0024	0.0045	42109	8.40E-01	-0.0013	0.0126	23248	9.37E-01	-0.0058	0.0031	23603	8.19E-02	-0.0048	0.0041	23617	2.97E-01	-0.0070	0.0052	23616	2.28E-01
MFAP4	-0.0019	0.0037	42580	8.41E-01	-0.0944	0.0155	23496	2.72E-09	0.0009	0.0038	23858	8.37E-01	-0.0235	0.0050	23871	4.72E-06	-0.0343	0.0064	23870	1.97E-07
DKK4	-0.0028	0.0053	49508	8.41E-01	-0.0198	0.0092	28038	4.88E-02	0.0431	0.0022	28480	9.31E-81	0.0423	0.0030	28496	2.51E-45	0.0799	0.0038	28495	1.78E-96
GABARAPL1	0.0039	0.0075	42740	8.41E-01	-0.0134	0.0077	23551	1.16E-01	0.0017	0.0019	23912	4.35E-01	0.0047	0.0025	23927	8.46E-02	0.0037	0.0032	23926	3.04E-01
S100A14	-0.0031	0.0060	43455	8.41E-01	-0.0096	0.0094	23960	3.75E-01	0.0188	0.0023	24328	7.82E-16	0.0178	0.0030	24343	1.03E-08	0.0250	0.0039	24342	3.35E-10
ALPI	0.0073	0.0140	42274	8.42E-01	-0.0816	0.0041	23352	2.92E-87	0.0185	0.0010	23710	2.81E-74	0.0213	0.0013	23723	1.00E-56	0.0346	0.0017	23722	1.25E-90
DNAJB14	0.0039	0.0074	43346	8.42E-01	0.0769	0.0076	23893	3.08E-23	0.0162	0.0019	24266	1.37E-17	0.0173	0.0025	24281	5.20E-12	0.0174	0.0032	24280	8.20E-08
RAB10	0.0032	0.0061	43535	8.42E-01	0.0902	0.0091	24011	3.43E-22	0.0214	0.0022	24384	4.34E-21	0.0251	0.0030	24399	6.07E-17	0.0266	0.0038	24398	7.13E-12
PALLD	0.0024	0.0045	42274	8.42E-01	0.0041	0.0126	23352	7.97E-01	0.0003	0.0031	23710	9.47E-01	0.0000	0.0041	23723	9.98E-01	0.0029	0.0053	23722	6.42E-01
REG4	-0.0029	0.0057	50024	8.43E-01	0.1131	0.0083	28363	1.13E-40	-0.0167	0.0020	28808	9.94E-16	-0.0218	0.0027	28824	1.81E-15	-0.0211	0.0035	28823	2.56E-09
NT5C1A	0.0020	0.0038	43426	8.43E-01	0.1714	0.0149	23934	9.76E-30	0.0354	0.0036	24305	1.04E-21	0.0278	0.0048	24320	1.65E-08	0.0541	0.0062	24319	8.25E-18
AKT1S1	0.0040	0.0078	48799	8.43E-01	0.0550	0.0063	27661	1.03E-17	0.0133	0.0015	28098	2.81E-17	0.0106	0.0020	28115	3.68E-07	0.0129	0.0026	28114	1.77E-06
ARL2BP	0.0024	0.0046	42109	8.43E-01	0.0970	0.0125	23248	3.09E-14	0.0244	0.0031	23603	4.89E-15	0.0281	0.0040	23617	9.40E-12	0.0250	0.0052	23616	2.95E-06
GBP2	-0.0036	0.0069	49043	8.43E-01	0.0518	0.0071	27807	1.37E-12	0.0085	0.0018	28251	2.09E-06	0.0083	0.0023	28266	5.31E-04	0.0104	0.0030	28265	7.28E-04
CUZD1	-0.0022	0.0043	42343	8.43E-01	-0.0566	0.0134	23314	5.00E-05	0.0127	0.0033	23671	1.65E-04	0.0164	0.0043	23685	2.59E-04	0.0195	0.0055	23684	7.40E-04
STAM	0.0022	0.0043	43331	8.43E-01	0.0422	0.0133	23884	2.60E-03	0.0092	0.0033	24254	6.89E-03	0.0116	0.0043	24269	1.09E-02	0.0162	0.0055	24268	5.34E-03

NXP1	-0.0023	0.0044	48799	8.43E-01	-0.0347	0.0111	27661	3.16E-03	-0.0378	0.0027	28098	6.96E-43	-0.0570	0.0036	28115	1.56E-55	-0.0662	0.0046	28114	1.50E-45
CEBPB	0.0023	0.0045	49059	8.43E-01	0.0216	0.0112	27799	7.92E-02	0.0313	0.0027	28234	1.67E-29	0.0219	0.0036	28248	2.96E-09	0.0484	0.0046	28247	1.13E-24
MNAT1	-0.0026	0.0050	42740	8.43E-01	-0.0181	0.0114	23551	1.54E-01	0.0003	0.0028	23912	9.38E-01	-0.0021	0.0037	23927	6.37E-01	-0.0018	0.0047	23926	7.52E-01
UHRF2	-0.0020	0.0040	42109	8.43E-01	-0.0100	0.0146	23248	5.69E-01	-0.0025	0.0036	23603	5.39E-01	-0.0036	0.0047	23617	5.07E-01	-0.0089	0.0061	23616	1.88E-01
CD2	0.0023	0.0044	42109	8.43E-01	-0.0030	0.0132	23248	8.60E-01	0.0069	0.0032	23603	4.55E-02	0.0135	0.0043	23617	2.64E-03	0.0137	0.0055	23616	1.90E-02
ANK2	0.0042	0.0082	42109	8.43E-01	-0.0036	0.0071	23248	6.80E-01	0.0000	0.0017	23603	9.88E-01	-0.0016	0.0023	23617	5.59E-01	0.0005	0.0029	23616	8.97E-01
CRTAP	0.0029	0.0057	42343	8.43E-01	-0.0020	0.0103	23314	8.80E-01	0.0093	0.0025	23671	3.71E-04	0.0128	0.0033	23685	2.34E-04	0.0119	0.0043	23684	8.83E-03
PRKD2	0.0027	0.0053	42109	8.43E-01	0.0043	0.0111	23248	7.56E-01	0.0131	0.0027	23603	2.74E-06	0.0154	0.0036	23617	3.36E-05	0.0165	0.0046	23616	6.30E-04
YARS1	0.0086	0.0168	43346	8.44E-01	0.0355	0.0033	23893	1.38E-25	0.0111	0.0008	24266	2.29E-41	0.0124	0.0011	24281	1.53E-29	0.0129	0.0014	24280	6.44E-20
ORM1	-0.0012	0.0024	43446	8.45E-01	0.2722	0.0238	23936	2.61E-29	0.0644	0.0058	24306	1.16E-27	0.0563	0.0077	24321	6.97E-13	0.0911	0.0099	24320	1.60E-19
PTPN1	0.0047	0.0092	49589	8.45E-01	0.0514	0.0053	28083	1.60E-21	0.0161	0.0013	28527	1.07E-34	0.0167	0.0017	28543	8.01E-22	0.0220	0.0022	28542	6.34E-23
CEP112	-0.0026	0.0052	42109	8.45E-01	-0.0340	0.0110	23248	3.48E-03	0.0072	0.0027	23603	1.08E-02	0.0054	0.0036	23617	1.71E-01	0.0109	0.0046	23616	2.68E-02
AOC1	0.0033	0.0065	49043	8.45E-01	0.0131	0.0077	27807	1.25E-01	0.0063	0.0019	28251	1.37E-03	0.0060	0.0025	28266	2.35E-02	0.0060	0.0032	28265	8.33E-02
TK1	-0.0026	0.0052	42740	8.45E-01	0.0118	0.0109	23551	3.50E-01	0.0147	0.0027	23912	8.16E-08	0.0166	0.0035	23927	5.08E-06	0.0230	0.0045	23926	8.18E-07
SEZ6L	-0.0017	0.0033	50125	8.45E-01	-0.0141	0.0147	28423	4.11E-01	-0.0779	0.0036	28868	4.02E-103	-0.1041	0.0047	28885	3.73E-106	-0.1154	0.0061	28884	5.12E-79
OPTC	0.0027	0.0053	49744	8.45E-01	0.0014	0.0091	28212	9.07E-01	-0.0443	0.0022	28661	1.24E-87	-0.0571	0.0029	28678	5.73E-84	-0.0626	0.0037	28677	2.94E-61
PAIP2B	0.0031	0.0060	41908	8.46E-01	0.0073	0.0097	23101	5.25E-01	-0.0020	0.0024	23461	4.55E-01	0.0004	0.0032	23476	9.22E-01	-0.0010	0.0041	23475	8.46E-01
ITI4	-0.0015	0.0030	43602	8.47E-01	0.2950	0.0186	24051	7.90E-55	0.0141	0.0046	24424	3.29E-03	-0.0045	0.0060	24439	5.19E-01	0.0003	0.0078	24438	9.79E-01
CRADD	0.0044	0.0087	49507	8.47E-01	0.0625	0.0056	28030	2.35E-28	0.0097	0.0014	28473	3.34E-12	0.0102	0.0018	28489	2.96E-08	0.0081	0.0023	28488	8.32E-04
CNST	0.0063	0.0125	49984	8.47E-01	0.0351	0.0038	28340	2.36E-19	0.0128	0.0009	28785	1.19E-41	0.0145	0.0012	28801	3.21E-31	0.0155	0.0016	28800	8.50E-22
SCRIB	0.0052	0.0104	42387	8.47E-01	0.0217	0.0055	23360	1.80E-04	0.0107	0.0014	23719	8.25E-15	0.0121	0.0018	23733	4.51E-11	0.0165	0.0023	23732	2.78E-12
C1QTNF9	-0.0028	0.0055	42500	8.47E-01	-0.0321	0.0103	23437	3.36E-03	-0.0051	0.0025	23799	5.95E-02	-0.0111	0.0033	23812	1.53E-03	-0.0115	0.0043	23811	1.17E-02
DPEP1	-0.0028	0.0056	49507	8.47E-01	-0.0037	0.0087	28030	7.37E-01	-0.0159	0.0021	28473	2.50E-13	-0.0206	0.0028	28489	5.38E-13	-0.0235	0.0036	28488	2.05E-10
RNF31	0.0021	0.0042	42274	8.47E-01	0.0042	0.0138	23352	8.11E-01	0.0124	0.0034	23710	4.14E-04	0.0156	0.0045	23723	9.08E-04	0.0132	0.0058	23722	3.27E-02
FCRLB	-0.0035	0.0070	48785	8.48E-01	-0.0063	0.0070	27677	4.41E-01	0.0045	0.0017	28109	1.30E-02	-0.0004	0.0023	28125	9.01E-01	0.0056	0.0029	28124	7.88E-02
ADAMTSL5	0.0022	0.0045	43535	8.49E-01	-0.0937	0.0125	24011	2.39E-13	-0.0096	0.0031	24384	2.55E-03	-0.0067	0.0040	24399	1.30E-01	-0.0073	0.0052	24398	2.04E-01
SPART	0.0045	0.0090	42580	8.49E-01	0.0614	0.0063	23496	1.67E-21	0.0134	0.0016	23858	2.11E-17	0.0141	0.0021	23871	1.82E-11	0.0164	0.0026	23870	1.29E-09
COL2A1	0.0046	0.0092	42387	8.49E-01	0.0426	0.0062	23360	1.94E-11	0.0102	0.0015	23719	5.03E-11	0.0124	0.0020	23733	1.62E-09	0.0083	0.0026	23732	2.34E-03
PPM1A	0.0018	0.0036	48785	8.49E-01	0.0536	0.0138	27677	1.99E-04	0.0169	0.0034	28109	1.14E-06	0.0209	0.0045	28125	5.15E-06	0.0206	0.0057	28124	5.58E-04
UGDH	-0.0057	0.0115	42109	8.49E-01	-0.0148	0.0052	23248	7.13E-03	-0.0016	0.0013	23603	2.50E-01	-0.0018	0.0017	23617	3.39E-01	-0.0027	0.0021	23616	2.54E-01
TSC1	-0.0043	0.0086	42274	8.49E-01	-0.0046	0.0067	23352	5.70E-01	0.0022	0.0017	23710	2.34E-01	0.0025	0.0022	23723	3.16E-01	0.0023	0.0028	23722	4.80E-01
CYTH3	-0.0042	0.0084	41982	8.49E-01	-0.0047	0.0070	23146	5.75E-01	-0.0020	0.0017	23506	2.78E-01	-0.0028	0.0022	23521	2.67E-01	-0.0039	0.0029	23520	2.22E-01
NUDT10	0.0015	0.0029	42387	8.49E-01	-0.0317	0.0193	23360	1.40E-01	-0.0153	0.0048	23719	2.08E-03	-0.0140	0.0063	23733	3.76E-02	-0.0250	0.0081	23732	3.21E-03
TACSTD2	-0.0018	0.0036	44274	8.49E-01	0.0218	0.0150	24977	1.95E-01	-0.0661	0.0036	25366	4.37E-72	-0.0870	0.0048	25382	4.92E-72	-0.0994	0.0061	25381	9.51E-58
DENND2B	-0.0028	0.0057	42109	8.49E-01	-0.0021	0.0101	23248	8.76E-01	-0.0038	0.0025	23603	1.50E-01	-0.0055	0.0032	23617	1.23E-01	-0.0046	0.0042	23616	3.29E-01
PTPRB	0.0017	0.0034	43535	8.50E-01	0.1154	0.0163	24011	5.15E-12	0.0538	0.0040	24384	1.11E-40	0.0322	0.0053	24399	2.34E-09	0.0591	0.0068	24398	1.03E-17
SPACA5_SPACA5B	-0.0016	0.0034	43455	8.52E-01	-0.0082	0.0167	23960	6.92E-01	-0.0116	0.0041	24328	6.82E-03	-0.0112	0.0054	24343	5.40E-02	-0.0126	0.0069	24342	9.43E-02
GID8	0.0019	0.0038	43455	8.52E-01	0.0255	0.0146	23960	1.16E-01	0.0046	0.0036	24328	2.39E-01	0.0064	0.0047	24343	2.21E-01	0.0048	0.0061	24342	4.97E-01
ANKRA2	-0.0031	0.0064	41982	8.52E-01	-0.0051	0.0092	23146	6.48E-01	-0.0011	0.0022	23506	6.60E-01	-0.0016	0.0030	23521	6.58E-01	-0.0008	0.0038	23520	8.55E-01
LAP3	-0.0027	0.0056	49043	8.53E-01	0.0983	0.0087	27807	1.66E-28	0.0254	0.0021	28251	7.65E-32	0.0249	0.0028	28266	3.30E-18	0.0265	0.0036	28265	7.94E-13
TFPI2	-0.0022	0.0045	49972	8.53E-01	0.1145	0.0107	28333	4.51E-26	-0.0051	0.0026	28777	6.63E-02	-0.0162	0.0034	28794	5.34E-06	-0.0010	0.0044	28793	8.59E-01
HSD17B14	-0.0035	0.0071	43426	8.53E-01	-0.0027	0.0079	23934	7.89E-01	0.0190	0.0019	24305	1.35E-22	0.0101	0.0025	24320	1.19E-04	0.0082	0.0033	24319	1.72E-02
PGLYRP4	0.0034	0.0070	42109	8.53E-01	-0.0017	0.0083	23248	8.73E-01	0.0028	0.0020	23603	2.11E-01	0.0027	0.0027	23617	3.84E-01	0.0016	0.0035	23616	6.94E-01

STX8	0.0028	0.0057	49907	8.53E-01	0.1055	0.0085	28300	6.45E-34	0.0214	0.0021	28746	5.18E-24	0.0253	0.0028	28762	1.69E-19	0.0294	0.0035	28761	3.79E-16
STK24	0.0035	0.0071	48799	8.54E-01	0.0638	0.0069	27661	8.40E-20	0.0202	0.0017	28098	3.47E-32	0.0202	0.0022	28115	3.59E-19	0.0200	0.0029	28114	8.72E-12
SPARC	0.0039	0.0082	50125	8.54E-01	0.0835	0.0059	28423	1.20E-43	0.0151	0.0015	28868	9.04E-25	0.0173	0.0019	28885	6.86E-19	0.0157	0.0025	28884	4.45E-10
ANXA4	0.0040	0.0084	49748	8.54E-01	0.0741	0.0058	28209	4.65E-36	0.0095	0.0014	28651	6.05E-11	0.0104	0.0019	28667	6.10E-08	0.0085	0.0024	28666	7.44E-04
DCTD	0.0052	0.0108	42580	8.54E-01	0.0605	0.0052	23496	8.27E-30	0.0136	0.0013	23858	1.64E-25	0.0160	0.0017	23871	2.31E-20	0.0148	0.0022	23870	3.71E-11
STX7	-0.0028	0.0058	42274	8.54E-01	0.1128	0.0099	23352	4.27E-29	0.0149	0.0024	23710	2.30E-09	0.0254	0.0032	23723	9.19E-15	0.0220	0.0041	23722	2.33E-07
GBA	-0.0030	0.0062	42343	8.54E-01	0.0840	0.0094	23314	1.56E-18	0.0063	0.0023	23671	8.87E-03	0.0109	0.0030	23685	5.32E-04	0.0091	0.0039	23684	2.82E-02
BIN2	-0.0051	0.0105	49982	8.54E-01	0.0399	0.0046	28299	1.46E-17	0.0120	0.0011	28747	7.78E-26	0.0134	0.0015	28764	4.65E-19	0.0135	0.0019	28763	4.50E-12
MMUT	0.0027	0.0057	42109	8.54E-01	0.0517	0.0102	23248	9.43E-07	0.0120	0.0025	23603	2.76E-06	0.0133	0.0033	23617	9.88E-05	0.0127	0.0042	23616	4.36E-03
CD93	0.0017	0.0036	48100	8.54E-01	-0.0215	0.0138	27272	1.62E-01	-0.0473	0.0034	27688	8.12E-44	-0.0492	0.0044	27703	1.11E-27	-0.0494	0.0057	27702	2.63E-17
SCARAS	-0.0017	0.0035	50415	8.54E-01	0.0186	0.0136	28544	2.23E-01	0.0477	0.0033	28996	2.68E-46	0.0436	0.0044	29013	5.93E-23	0.0587	0.0056	29012	6.50E-25
GTF2IRD1	-0.0039	0.0081	42740	8.54E-01	0.0063	0.0070	23551	4.41E-01	-0.0012	0.0017	23912	5.30E-01	0.0000	0.0023	23927	9.98E-01	0.0002	0.0029	23926	9.63E-01
DLL4	-0.0048	0.0099	42387	8.54E-01	0.0032	0.0059	23360	6.59E-01	0.0031	0.0014	23719	4.40E-02	0.0042	0.0019	23733	3.95E-02	0.0058	0.0024	23732	2.70E-02
ENPEP	0.0024	0.0050	42109	8.54E-01	0.0039	0.0115	23248	7.89E-01	-0.0012	0.0028	23603	7.18E-01	-0.0040	0.0037	23617	3.42E-01	-0.0081	0.0048	23616	1.18E-01
LYPD1	-0.0035	0.0073	48799	8.54E-01	-0.0014	0.0068	27661	8.76E-01	0.0001	0.0017	28098	9.54E-01	-0.0004	0.0022	28115	8.78E-01	-0.0030	0.0028	28114	3.55E-01
SERPINB1	0.0050	0.0104	49821	8.55E-01	0.0570	0.0047	28216	3.65E-33	0.0107	0.0011	28663	2.80E-20	0.0108	0.0015	28680	2.02E-12	0.0108	0.0019	28679	6.58E-08
WASHC3	0.0042	0.0088	43426	8.56E-01	0.0534	0.0064	23934	2.73E-16	0.0202	0.0016	24305	1.73E-37	0.0222	0.0021	24320	2.30E-26	0.0283	0.0026	24319	7.80E-26
MGLL	0.0048	0.0100	50106	8.56E-01	0.0485	0.0048	28399	2.96E-23	0.0180	0.0012	28844	7.89E-52	0.0187	0.0015	28860	1.03E-32	0.0175	0.0020	28859	7.44E-18
RSPO3	-0.0015	0.0032	50397	8.56E-01	0.1238	0.0147	28576	1.29E-16	-0.0327	0.0036	29025	2.65E-19	-0.0253	0.0047	29042	1.98E-07	-0.0209	0.0061	29041	1.04E-03
RNF5	0.0040	0.0083	42387	8.56E-01	0.0388	0.0068	23360	3.18E-08	0.0162	0.0017	23719	1.32E-21	0.0173	0.0022	23733	1.55E-14	0.0140	0.0028	23732	1.82E-06
HEG1	0.0015	0.0032	42580	8.56E-01	0.0917	0.0178	23496	6.10E-07	0.0719	0.0043	23858	3.28E-60	0.0575	0.0057	23871	6.32E-23	0.0689	0.0074	23870	4.50E-20
RUVBL1	0.0056	0.0118	48785	8.56E-01	-0.0074	0.0042	27677	1.06E-01	-0.0001	0.0010	28109	9.23E-01	-0.0008	0.0013	28125	6.20E-01	0.0002	0.0017	28124	9.25E-01
SLC44A4	-0.0037	0.0078	42343	8.56E-01	-0.0086	0.0073	23314	3.04E-01	-0.0004	0.0018	23671	8.35E-01	-0.0010	0.0024	23685	7.36E-01	0.0015	0.0030	23684	6.69E-01
DIPK2B	0.0015	0.0032	42580	8.56E-01	0.0079	0.0178	23496	7.20E-01	-0.0111	0.0044	23858	1.60E-02	-0.0285	0.0058	23871	1.62E-06	-0.0344	0.0074	23870	6.94E-06
KRT14	-0.0016	0.0034	47279	8.56E-01	0.0048	0.0151	26909	8.03E-01	0.0044	0.0037	27331	2.84E-01	0.0040	0.0049	27348	4.81E-01	0.0015	0.0063	27347	8.43E-01
VTA1	0.0039	0.0082	50415	8.57E-01	0.0627	0.0058	28544	4.11E-26	0.0022	0.0014	28996	1.55E-01	0.0018	0.0019	29013	4.10E-01	-0.0047	0.0024	29012	7.03E-02
FETUB	-0.0018	0.0039	50096	8.57E-01	-0.0340	0.0124	28410	1.03E-02	0.0502	0.0030	28851	1.71E-60	0.0372	0.0040	28867	5.06E-20	0.0449	0.0051	28866	1.01E-17
PPP1R14A	0.0042	0.0089	43455	8.58E-01	0.0533	0.0062	23960	5.13E-17	0.0170	0.0015	24328	2.63E-28	0.0189	0.0020	24343	2.18E-20	0.0182	0.0026	24342	5.86E-12
USP28	-0.0020	0.0042	43426	8.59E-01	0.0342	0.0133	23934	1.67E-02	0.0044	0.0033	24305	2.23E-01	0.0053	0.0043	24320	2.69E-01	0.0104	0.0056	24319	8.37E-02
C2orf69	0.0031	0.0066	42343	8.59E-01	0.0559	0.0085	23314	1.53E-10	0.0099	0.0021	23671	3.61E-06	0.0102	0.0028	23685	3.91E-04	0.0132	0.0035	23684	3.56E-04
ACADSB	0.0047	0.0101	43535	8.61E-01	0.0659	0.0055	24011	1.78E-31	0.0184	0.0014	24384	7.32E-41	0.0180	0.0018	24399	5.21E-23	0.0208	0.0023	24398	8.96E-19
PROS1	0.0014	0.0029	43602	8.61E-01	0.1923	0.0191	24051	4.08E-23	0.0644	0.0047	24424	1.52E-42	0.0522	0.0062	24439	7.04E-17	0.0515	0.0079	24438	1.96E-10
AIDA	-0.0046	0.0098	42343	8.61E-01	0.0002	0.0060	23314	9.82E-01	0.0015	0.0015	23671	3.52E-01	0.0030	0.0019	23685	1.62E-01	0.0020	0.0025	23684	5.01E-01
DNAJB6	0.0045	0.0097	42183	8.61E-01	0.0648	0.0059	23295	4.50E-27	0.0183	0.0015	23654	1.03E-35	0.0199	0.0019	23666	1.20E-24	0.0214	0.0025	23665	1.63E-17
ELAC1	0.0045	0.0097	43455	8.61E-01	0.0627	0.0058	23960	9.41E-27	0.0167	0.0014	24328	8.35E-32	0.0183	0.0019	24343	2.92E-22	0.0181	0.0024	24342	1.03E-13
MFAP3L	-0.0035	0.0075	42343	8.61E-01	0.0034	0.0077	23314	7.23E-01	0.0005	0.0019	23671	8.40E-01	0.0005	0.0025	23685	8.58E-01	0.0003	0.0032	23684	9.40E-01
EIF5	-0.0023	0.0050	42109	8.62E-01	0.0501	0.0115	23248	2.73E-05	0.0043	0.0028	23603	1.66E-01	0.0062	0.0037	23617	1.31E-01	0.0038	0.0048	23616	4.99E-01
CRH	0.0047	0.0102	48702	8.62E-01	0.0090	0.0048	27632	9.34E-02	-0.0047	0.0012	28064	1.35E-04	0.0005	0.0016	28080	7.76E-01	-0.0005	0.0020	28079	8.37E-01
RNF4	0.0035	0.0075	42740	8.62E-01	-0.0056	0.0075	23551	5.35E-01	0.0026	0.0019	23912	1.95E-01	0.0029	0.0024	23927	2.91E-01	0.0021	0.0031	23926	5.69E-01
SDC4	-0.0025	0.0053	49984	8.64E-01	0.1475	0.0091	28340	1.05E-57	0.0213	0.0022	28785	2.89E-21	0.0297	0.0029	28801	1.39E-23	0.0156	0.0038	28800	6.13E-05
EZR	0.0013	0.0029	50415	8.64E-01	0.0381	0.0167	28544	3.57E-02	0.0659	0.0041	28996	1.96E-57	0.0634	0.0054	29013	4.04E-31	0.1099	0.0069	29012	1.35E-55
MORF4L2	0.0020	0.0043	41982	8.64E-01	-0.0206	0.0137	23146	1.82E-01	0.0001	0.0034	23506	9.76E-01	0.0053	0.0045	23521	2.91E-01	0.0049	0.0057	23520	4.58E-01
TNN	0.0023	0.0050	43537	8.65E-01	-0.0230	0.0112	24024	6.19E-02	0.0245	0.0028	24398	2.09E-18	0.0123	0.0036	24413	1.26E-03	0.0192	0.0047	24412	7.21E-05

SFTPA2	-0.0028	0.0061	48785	8.65E-01	0.0116	0.0081	27677	2.00E-01	-0.0089	0.0020	28109	1.21E-05	-0.0135	0.0026	28125	5.06E-07	-0.0155	0.0034	28124	7.19E-06
ADGRF5	0.0015	0.0032	43535	8.67E-01	0.2917	0.0171	24011	5.82E-63	0.0381	0.0042	24384	5.00E-19	0.0413	0.0056	24399	3.29E-13	0.0549	0.0072	24398	5.65E-14
UBQLN3	-0.0026	0.0056	42109	8.67E-01	0.0130	0.0102	23248	2.58E-01	0.0040	0.0025	23603	1.33E-01	0.0037	0.0033	23617	3.12E-01	0.0040	0.0042	23616	4.11E-01
RPL14	-0.0021	0.0047	42387	8.67E-01	0.0071	0.0124	23360	6.37E-01	0.0222	0.0030	23719	8.07E-13	0.0202	0.0040	23733	9.37E-07	0.0389	0.0052	23732	1.54E-13
TPR	-0.0026	0.0057	42109	8.67E-01	-0.0114	0.0105	23248	3.47E-01	0.0048	0.0026	23603	8.45E-02	-0.0022	0.0034	23617	5.84E-01	0.0091	0.0044	23616	5.22E-02
ARMCX2	-0.0032	0.0070	42120	8.67E-01	0.0038	0.0082	23217	7.11E-01	-0.0027	0.0020	23575	2.11E-01	-0.0022	0.0026	23590	4.70E-01	-0.0041	0.0034	23589	2.88E-01
SFRP1	-0.0023	0.0051	49424	8.68E-01	0.2043	0.0095	27991	2.19E-100	0.0113	0.0023	28431	2.46E-06	0.0046	0.0031	28447	1.73E-01	-0.0010	0.0040	28446	8.30E-01
ERP29	0.0060	0.0136	42580	8.68E-01	0.0556	0.0042	23496	3.93E-39	0.0117	0.0010	23858	1.67E-29	0.0137	0.0014	23871	2.79E-23	0.0131	0.0017	23870	1.94E-13
SERPINB9	0.0017	0.0038	49589	8.68E-01	0.1224	0.0127	28083	3.45E-21	0.0216	0.0031	28527	8.43E-12	0.0224	0.0041	28543	9.87E-08	0.0151	0.0053	28542	6.54E-03
CLU	0.0016	0.0035	43602	8.68E-01	0.1026	0.0155	24051	9.75E-11	0.0108	0.0038	24424	6.88E-03	0.0064	0.0050	24439	2.53E-01	-0.0025	0.0064	24438	7.43E-01
SCGB3A2	-0.0045	0.0100	50106	8.68E-01	0.0297	0.0048	28399	1.62E-09	-0.0302	0.0012	28844	6.59E-145	-0.0317	0.0015	28860	2.91E-92	-0.0404	0.0020	28859	7.63E-91
BTD	-0.0011	0.0024	43602	8.68E-01	0.1453	0.0236	24051	2.14E-09	0.1077	0.0058	24424	2.14E-76	0.1054	0.0076	24439	1.81E-42	0.1022	0.0098	24438	1.19E-24
FCRL1	0.0024	0.0053	49984	8.68E-01	-0.0539	0.0091	28340	9.63E-09	0.0273	0.0022	28785	9.26E-34	0.0235	0.0029	28801	3.63E-15	0.0362	0.0038	28800	4.35E-21
TMEM25	-0.0023	0.0052	43455	8.68E-01	-0.0518	0.0109	23960	4.45E-06	-0.0156	0.0027	24328	9.79E-09	-0.0121	0.0035	24343	1.01E-03	-0.0145	0.0045	24342	2.30E-03
DNPEP	0.0030	0.0066	43426	8.68E-01	0.0327	0.0084	23934	1.96E-04	0.0126	0.0021	24305	1.76E-09	0.0105	0.0027	24320	1.92E-04	0.0126	0.0035	24319	5.14E-04
IL16	0.0022	0.0050	50529	8.68E-01	0.0257	0.0097	28636	1.35E-02	0.0432	0.0024	29090	5.16E-72	0.0391	0.0031	29107	1.25E-34	0.0702	0.0040	29106	2.39E-66
S100P	-0.0029	0.0064	49059	8.68E-01	0.0208	0.0080	27799	1.51E-02	0.0094	0.0020	28234	2.68E-06	0.0047	0.0026	28248	9.25E-02	0.0174	0.0033	28247	2.75E-07
IDO1	-0.0033	0.0074	42387	8.68E-01	0.0153	0.0078	23360	7.39E-02	0.0216	0.0019	23719	1.34E-28	0.0192	0.0025	23733	1.25E-13	0.0219	0.0033	23732	4.97E-11
GABARAP	-0.0025	0.0056	43331	8.68E-01	-0.0166	0.0100	23884	1.38E-01	-0.0061	0.0025	24254	1.81E-02	-0.0070	0.0032	24269	4.52E-02	-0.0087	0.0042	24268	5.33E-02
BTLA	-0.0045	0.0100	41982	8.68E-01	-0.0061	0.0059	23146	3.69E-01	0.0017	0.0014	23506	2.68E-01	0.0005	0.0019	23521	8.17E-01	0.0016	0.0024	23520	5.71E-01
VWA5A	0.0041	0.0091	41982	8.68E-01	-0.0056	0.0064	23146	4.60E-01	0.0006	0.0016	23506	7.33E-01	-0.0004	0.0021	23521	8.89E-01	0.0014	0.0027	23520	6.66E-01
PRR5	-0.0024	0.0053	42274	8.68E-01	-0.0076	0.0106	23352	5.43E-01	0.0022	0.0026	23710	4.61E-01	0.0026	0.0035	23723	5.08E-01	0.0036	0.0044	23722	4.89E-01
EFCAB14	-0.0014	0.0032	43346	8.68E-01	0.0087	0.0178	23893	6.94E-01	0.0320	0.0044	24266	4.34E-13	0.0334	0.0057	24281	1.21E-08	0.0577	0.0074	24280	1.58E-14
PDE4D	0.0031	0.0070	42109	8.68E-01	0.0027	0.0083	23248	7.99E-01	-0.0026	0.0021	23603	2.39E-01	-0.0027	0.0027	23617	3.81E-01	-0.0041	0.0035	23616	2.99E-01
IL6ST	0.0009	0.0020	49984	8.68E-01	-0.0003	0.0239	28340	9.94E-01	-0.0105	0.0058	28785	9.31E-02	-0.0396	0.0077	28801	5.25E-07	-0.0376	0.0099	28800	2.55E-04
XPNPEP2	-0.0050	0.0113	50125	8.69E-01	0.0142	0.0043	28423	1.58E-03	0.0006	0.0010	28868	6.28E-01	0.0036	0.0014	28885	1.27E-02	0.0005	0.0018	28884	8.08E-01
BAMBI	-0.0015	0.0034	48785	8.69E-01	0.0861	0.0143	27677	4.63E-09	-0.0116	0.0035	28109	1.54E-03	-0.0107	0.0046	28125	3.09E-02	-0.0012	0.0060	28124	8.65E-01
KRT5	0.0026	0.0058	48799	8.69E-01	-0.0059	0.0084	27661	5.53E-01	0.0091	0.0021	28098	1.67E-05	0.0112	0.0027	28115	6.16E-05	0.0126	0.0035	28114	5.33E-04
RALB	0.0015	0.0034	42274	8.71E-01	-0.0266	0.0171	23352	1.64E-01	0.0158	0.0042	23710	2.84E-04	0.0155	0.0055	23723	7.88E-03	0.0213	0.0071	23722	4.52E-03
RBM19	0.0024	0.0054	42109	8.71E-01	-0.0076	0.0106	23248	5.48E-01	-0.0047	0.0026	23603	9.10E-02	-0.0033	0.0034	23617	3.95E-01	-0.0026	0.0044	23616	6.26E-01
COL9A2	-0.0023	0.0051	42740	8.72E-01	0.0053	0.0110	23551	6.97E-01	0.0079	0.0027	23912	5.37E-03	0.0071	0.0036	23927	6.47E-02	0.0119	0.0046	23926	1.41E-02
ADAM23	-0.0018	0.0040	50529	8.72E-01	-0.0395	0.0119	28636	1.55E-03	-0.0012	0.0029	29090	7.27E-01	0.0007	0.0038	29107	8.85E-01	0.0002	0.0049	29106	9.79E-01
SH3GL3	-0.0042	0.0096	42506	8.72E-01	-0.0051	0.0060	23419	4.75E-01	0.0017	0.0015	23780	2.95E-01	0.0024	0.0019	23795	2.80E-01	0.0010	0.0025	23794	7.27E-01
KLRC1	0.0030	0.0069	42120	8.72E-01	-0.0004	0.0083	23217	9.68E-01	-0.0024	0.0020	23575	2.88E-01	-0.0037	0.0027	23590	2.16E-01	-0.0039	0.0034	23589	3.16E-01
ADAMTS13	-0.0012	0.0027	50594	8.73E-01	-0.0653	0.0179	28667	5.04E-04	0.0364	0.0044	29116	2.38E-16	0.0149	0.0058	29132	1.46E-02	-0.0002	0.0074	29131	9.86E-01
ENO3	-0.0031	0.0070	42387	8.73E-01	-0.0210	0.0082	23360	1.64E-02	0.0546	0.0020	23719	1.43E-163	0.0615	0.0026	23733	1.78E-119	0.0735	0.0034	23732	3.69E-103
CIAPIN1	0.0032	0.0073	50125	8.73E-01	0.0661	0.0066	28423	4.28E-23	0.0144	0.0016	28868	1.22E-18	0.0138	0.0021	28885	1.93E-10	0.0135	0.0027	28884	1.53E-06
DCC	-0.0011	0.0026	42343	8.73E-01	-0.0803	0.0220	23314	5.09E-04	0.0107	0.0054	23671	6.36E-02	0.0146	0.0071	23685	5.84E-02	0.0150	0.0092	23684	1.36E-01
SCG2	-0.0016	0.0038	50167	8.73E-01	-0.3064	0.0126	28415	1.26E-127	0.0548	0.0031	28861	1.38E-68	0.0679	0.0041	28878	7.10E-61	0.1340	0.0052	28877	1.33E-142
C8B	-0.0015	0.0035	43602	8.73E-01	0.2449	0.0160	24051	5.21E-51	0.0153	0.0040	24424	1.75E-04	0.0007	0.0052	24439	9.09E-01	-0.0005	0.0067	24438	9.52E-01
CD40	0.0025	0.0058	49947	8.73E-01	0.1095	0.0083	28320	1.93E-38	0.0291	0.0020	28764	2.41E-45	0.0326	0.0027	28779	4.64E-33	0.0367	0.0034	28778	1.16E-25
PCYT2	0.0037	0.0087	43346	8.73E-01	0.0728	0.0064	23893	6.98E-29	0.0172	0.0016	24266	4.14E-27	0.0186	0.0021	24281	1.06E-18	0.0172	0.0027	24280	3.17E-10
GMFG	0.0035	0.0082	43535	8.73E-01	0.0748	0.0068	24011	4.10E-27	0.0170	0.0017	24384	1.08E-23	0.0182	0.0022	24399	4.29E-16	0.0161	0.0028	24398	3.00E-08

CDH17	0.0034	0.0079	49984	8.73E-01	-0.0624	0.0061	28340	9.65E-24	0.0052	0.0015	28785	7.73E-04	0.0058	0.0020	28801	5.28E-03	0.0052	0.0025	28800	5.68E-02
TP53I3	0.0026	0.0062	41661	8.73E-01	0.0767	0.0094	23038	1.38E-15	0.0160	0.0023	23393	8.94E-12	0.0152	0.0030	23405	1.23E-06	0.0225	0.0039	23404	2.00E-08
AFAP1	0.0041	0.0097	42580	8.73E-01	0.0338	0.0059	23496	2.69E-08	0.0078	0.0015	23858	1.61E-07	0.0093	0.0019	23871	2.43E-06	0.0094	0.0025	23870	2.25E-04
SEMA6C	0.0013	0.0030	42274	8.73E-01	-0.0885	0.0193	23352	9.69E-06	0.0043	0.0048	23710	4.14E-01	0.0025	0.0063	23723	7.43E-01	0.0042	0.0081	23722	6.58E-01
NBL1	-0.0013	0.0031	50125	8.73E-01	-0.0536	0.0154	28423	9.42E-04	0.0056	0.0038	28868	1.70E-01	0.0112	0.0050	28885	3.61E-02	0.0459	0.0064	28884	2.18E-12
INPP5J	-0.0021	0.0048	43455	8.73E-01	-0.0288	0.0117	23960	2.21E-02	-0.0027	0.0029	24328	3.98E-01	-0.0039	0.0038	24343	3.53E-01	0.0007	0.0048	24342	9.01E-01
NCR3LG1	-0.0017	0.0039	43346	8.73E-01	0.0343	0.0144	23893	2.77E-02	-0.0534	0.0035	24266	1.13E-50	-0.0667	0.0047	24281	2.19E-45	-0.0683	0.0060	24280	3.11E-29
PAM	-0.0014	0.0032	50348	8.73E-01	0.0318	0.0148	28504	4.92E-02	0.0130	0.0036	28951	5.07E-04	-0.0015	0.0048	28965	7.86E-01	0.0059	0.0061	28965	3.99E-01
PCDH7	-0.0017	0.0040	43346	8.73E-01	-0.0302	0.0142	23893	5.02E-02	0.0196	0.0035	24266	3.87E-08	0.0173	0.0046	24281	2.95E-04	0.0300	0.0059	24280	7.74E-07
LTO1	-0.0020	0.0048	49043	8.73E-01	0.0161	0.0104	27807	1.65E-01	0.0065	0.0026	28251	1.56E-02	0.0065	0.0034	28266	7.09E-02	0.0090	0.0043	28265	5.20E-02
CD5	0.0017	0.0040	50324	8.73E-01	-0.0163	0.0118	28535	2.21E-01	0.0335	0.0029	28983	1.48E-30	0.0377	0.0038	29000	1.56E-22	0.0646	0.0049	28999	4.89E-39
ZCCHC8	-0.0030	0.0069	42109	8.73E-01	-0.0090	0.0085	23248	3.63E-01	-0.0024	0.0021	23603	2.97E-01	-0.0046	0.0028	23617	1.32E-01	-0.0031	0.0036	23616	4.52E-01
THBD	-0.0014	0.0033	49984	8.73E-01	0.0122	0.0146	28340	4.77E-01	-0.0126	0.0036	28785	6.92E-04	-0.0183	0.0047	28801	1.84E-04	-0.0091	0.0060	28800	1.71E-01
MYOM3	0.0046	0.0107	42580	8.73E-01	-0.0041	0.0053	23496	5.20E-01	-0.0088	0.0013	23858	4.95E-11	-0.0037	0.0017	23871	4.63E-02	-0.0075	0.0022	23870	1.33E-03
LGALS1	-0.0018	0.0042	49984	8.73E-01	0.1379	0.0116	28340	1.81E-31	0.0253	0.0028	28785	1.57E-18	0.0216	0.0037	28801	1.84E-08	0.0157	0.0048	28800	1.92E-03
TGFB1	0.0019	0.0045	50446	8.73E-01	0.1447	0.0107	28610	1.36E-40	0.0424	0.0026	29064	3.99E-58	0.0444	0.0034	29081	5.11E-37	0.0578	0.0044	29080	6.01E-38
KLK8	0.0018	0.0042	48302	8.73E-01	-0.0421	0.0120	27351	8.14E-04	-0.0113	0.0029	27776	1.87E-04	-0.0075	0.0039	27793	7.09E-02	-0.0088	0.0050	27792	1.03E-01
PODXL2	0.0014	0.0033	50125	8.73E-01	0.0468	0.0148	28423	2.83E-03	-0.0751	0.0036	28868	1.97E-94	-0.0936	0.0047	28885	1.38E-84	-0.1012	0.0061	28884	5.71E-60
RAB39B	-0.0044	0.0103	42109	8.73E-01	0.0074	0.0056	23248	2.43E-01	0.0015	0.0014	23603	3.27E-01	0.0005	0.0018	23617	8.07E-01	0.0009	0.0023	23616	7.43E-01
PTTG1	0.0020	0.0047	42740	8.73E-01	0.0046	0.0121	23551	7.62E-01	0.0039	0.0030	23912	2.24E-01	0.0061	0.0039	23927	1.54E-01	0.0029	0.0050	23926	6.28E-01
OMD	0.0022	0.0051	50189	8.74E-01	-0.1012	0.0094	28442	3.00E-26	-0.0206	0.0023	28888	9.08E-19	-0.0276	0.0030	28904	2.67E-19	-0.0274	0.0039	28903	5.50E-12
SNU13	-0.0031	0.0074	42109	8.74E-01	-0.0208	0.0081	23248	1.68E-02	0.0035	0.0020	23603	9.87E-02	0.0036	0.0026	23617	2.16E-01	0.0058	0.0034	23616	1.13E-01
CRTAM	-0.0024	0.0058	49589	8.74E-01	-0.0201	0.0083	28083	2.52E-02	-0.0072	0.0020	28527	6.84E-04	-0.0076	0.0027	28543	7.32E-03	-0.0064	0.0035	28542	8.55E-02
NECTIN4	0.0015	0.0036	50125	8.74E-01	0.0282	0.0131	28423	4.80E-02	-0.0515	0.0032	28868	6.54E-57	-0.0524	0.0042	28885	2.14E-34	-0.0447	0.0054	28884	8.02E-16
CEBPA	0.0018	0.0043	42274	8.74E-01	-0.0182	0.0135	23352	2.31E-01	0.0105	0.0033	23710	2.33E-03	0.0082	0.0044	23723	8.30E-02	0.0157	0.0056	23722	8.22E-03
PDCD1LG2	0.0015	0.0036	49744	8.74E-01	-0.0024	0.0135	28212	8.93E-01	-0.0170	0.0033	28661	4.77E-07	-0.0209	0.0043	28678	3.02E-06	-0.0138	0.0056	28677	2.10E-02
CXCL1	-0.0046	0.0111	49873	8.74E-01	0.0350	0.0044	28288	3.68E-15	0.0076	0.0011	28733	2.80E-12	0.0067	0.0014	28748	3.77E-06	0.0069	0.0018	28747	2.70E-04
TRPV3	0.0024	0.0057	42109	8.76E-01	0.0023	0.0101	23248	8.60E-01	0.0010	0.0025	23603	7.19E-01	0.0045	0.0033	23617	2.13E-01	0.0031	0.0042	23616	5.27E-01
TARS1	0.0018	0.0042	43331	8.76E-01	0.0623	0.0134	23884	6.74E-06	0.0240	0.0033	24254	6.60E-13	0.0299	0.0043	24269	1.25E-11	0.0302	0.0056	24268	1.25E-07
CD40LG	0.0037	0.0090	50529	8.77E-01	0.0992	0.0053	28636	1.25E-75	0.0090	0.0013	29090	1.69E-11	0.0134	0.0017	29107	1.86E-14	0.0043	0.0022	29106	7.24E-02
SLC9A3R1	0.0040	0.0097	42580	8.77E-01	0.0642	0.0058	23496	3.05E-27	0.0166	0.0014	23858	1.77E-30	0.0193	0.0019	23871	9.81E-24	0.0205	0.0024	23870	1.30E-16
CDH6	-0.0018	0.0044	49984	8.77E-01	-0.0605	0.0110	28340	8.31E-08	-0.0161	0.0027	28785	3.16E-09	-0.0186	0.0035	28801	2.61E-07	-0.0179	0.0045	28800	1.37E-04
HTR1B	0.0020	0.0049	42120	8.77E-01	-0.0127	0.0118	23217	3.50E-01	-0.0023	0.0029	23575	4.87E-01	0.0005	0.0038	23590	9.17E-01	-0.0015	0.0049	23589	8.01E-01
RGMB	0.0013	0.0030	50415	8.77E-01	-0.1136	0.0155	28544	8.38E-13	-0.0060	0.0038	28996	1.45E-01	-0.0082	0.0050	29013	1.36E-01	-0.0021	0.0064	29012	7.92E-01
NRP2	0.0014	0.0033	49982	8.77E-01	0.1637	0.0145	28299	2.07E-28	-0.0243	0.0036	28747	1.97E-11	-0.0525	0.0047	28764	2.54E-28	-0.0468	0.0060	28763	3.08E-14
AZU1	-0.0038	0.0092	48466	8.77E-01	0.0408	0.0056	27429	7.51E-13	-0.0011	0.0014	27862	4.52E-01	-0.0026	0.0018	27873	1.92E-01	0.0071	0.0023	27873	3.50E-03
IQGAP2	0.0026	0.0064	49744	8.77E-01	0.0468	0.0077	28212	2.80E-09	0.0317	0.0019	28661	3.12E-63	0.0326	0.0025	28678	6.00E-39	0.0425	0.0032	28677	3.91E-40
FGR	-0.0029	0.0070	48799	8.77E-01	0.0386	0.0074	27661	3.88E-07	0.0101	0.0018	28098	5.15E-08	0.0052	0.0024	28115	4.05E-02	0.0199	0.0031	28114	1.94E-10
DCTPP1	-0.0015	0.0037	49984	8.77E-01	0.0644	0.0132	28340	2.41E-06	0.0028	0.0032	28785	4.36E-01	-0.0084	0.0042	28801	6.82E-02	0.0080	0.0055	28800	1.88E-01
RRM2	-0.0024	0.0059	48785	8.77E-01	0.0232	0.0084	27677	9.35E-03	0.0183	0.0021	28109	1.45E-18	0.0124	0.0027	28125	8.42E-06	0.0287	0.0035	28124	5.81E-16
CDC25A	0.0019	0.0046	41982	8.77E-01	0.0168	0.0127	23146	2.41E-01	-0.0046	0.0031	23506	1.73E-01	-0.0020	0.0041	23521	6.89E-01	-0.0060	0.0053	23520	3.14E-01
TSHB	0.0036	0.0089	49984	8.77E-01	0.0011	0.0055	28340	8.76E-01	0.0031	0.0013	28785	2.62E-02	-0.0031	0.0018	28801	1.02E-01	-0.0010	0.0023	28800	7.24E-01
TG	0.0052	0.0127	43331	8.78E-01	-0.0161	0.0044	23884	5.45E-04	-0.0074	0.0011	24254	3.26E-11	-0.0089	0.0014	24269	1.64E-09	-0.0095	0.0018	24268	5.59E-07

DMP1	0.0029	0.0071	42387	8.78E-01	-0.0125	0.0081	23360	1.67E-01	-0.0341	0.0020	23719	1.07E-64	-0.0351	0.0026	23733	5.49E-40	-0.0472	0.0034	23732	1.89E-43
PTN	0.0023	0.0058	49059	8.79E-01	0.1109	0.0085	27799	2.38E-37	0.0008	0.0021	28234	7.46E-01	-0.0056	0.0028	28248	5.78E-02	-0.0103	0.0035	28247	5.76E-03
MCEE	0.0020	0.0049	43455	8.80E-01	0.0616	0.0117	23960	2.99E-07	-0.0024	0.0029	24328	4.51E-01	-0.0021	0.0038	24343	6.41E-01	-0.0063	0.0048	24342	2.45E-01
NFU1	0.0046	0.0117	43346	8.80E-01	0.0801	0.0048	23893	2.88E-61	0.0081	0.0012	24266	9.69E-12	0.0098	0.0016	24281	6.62E-10	0.0088	0.0020	24280	2.10E-05
APP	0.0030	0.0077	49909	8.80E-01	0.1038	0.0063	28253	3.23E-59	0.0100	0.0015	28699	2.43E-10	0.0134	0.0020	28716	1.02E-10	0.0110	0.0026	28715	5.01E-05
HMGCL	0.0023	0.0057	42387	8.80E-01	0.1218	0.0101	23360	3.02E-32	0.0213	0.0025	23719	4.09E-17	0.0260	0.0033	23733	8.75E-15	0.0244	0.0042	23732	1.75E-08
PMM2	0.0028	0.0069	42109	8.80E-01	0.0817	0.0084	23248	1.26E-21	0.0114	0.0021	23603	5.48E-08	0.0135	0.0027	23617	1.33E-06	0.0082	0.0035	23616	2.76E-02
TPK1	0.0013	0.0032	43535	8.80E-01	0.1260	0.0178	24011	4.13E-12	-0.0130	0.0044	24384	4.29E-03	-0.0092	0.0057	24399	1.46E-01	-0.0107	0.0074	24398	1.89E-01
SPINT1	-0.0012	0.0030	49818	8.80E-01	0.1033	0.0159	28196	2.57E-10	-0.0299	0.0039	28642	3.50E-14	-0.0430	0.0051	28659	1.14E-16	-0.0405	0.0066	28658	1.68E-09
PAFAH2	0.0023	0.0056	42740	8.80E-01	0.0600	0.0101	23551	7.56E-09	0.0280	0.0025	23912	5.51E-29	0.0304	0.0033	23927	4.73E-20	0.0335	0.0042	23926	5.46E-15
THOP1	-0.0015	0.0037	49748	8.80E-01	0.0706	0.0134	28218	3.29E-07	0.0349	0.0033	28655	3.64E-26	0.0302	0.0043	28671	5.75E-12	0.0481	0.0055	28670	1.28E-17
TTF2	-0.0023	0.0057	42343	8.80E-01	0.0455	0.0103	23314	2.02E-05	0.0257	0.0025	23671	4.98E-24	0.0308	0.0033	23685	5.31E-20	0.0347	0.0042	23684	1.09E-15
LHPP	0.0028	0.0069	50020	8.80E-01	0.0236	0.0071	28327	1.67E-03	-0.0099	0.0017	28769	2.84E-08	-0.0135	0.0023	28785	9.48E-09	-0.0142	0.0029	28784	2.90E-06
C7orf50	0.0011	0.0027	43426	8.80E-01	0.0499	0.0219	23934	3.58E-02	0.0252	0.0054	24305	5.13E-06	0.0161	0.0071	24320	3.43E-02	0.0519	0.0091	24319	2.90E-08
PNLIPRP2	0.0133	0.0338	49941	8.80E-01	-0.0026	0.0014	28321	1.03E-01	0.0012	0.0003	28766	1.19E-03	0.0012	0.0005	28782	1.12E-02	0.0025	0.0006	28781	4.39E-05
KLK3	-0.0040	0.0100	43537	8.80E-01	0.0091	0.0056	24024	1.42E-01	-0.0078	0.0014	24398	1.75E-08	-0.0071	0.0018	24413	1.34E-04	-0.0088	0.0023	24412	2.74E-04
ASPN	-0.0012	0.0031	43535	8.80E-01	0.0279	0.0179	24011	1.64E-01	-0.0375	0.0044	24384	3.38E-17	-0.0609	0.0058	24399	3.19E-25	-0.0891	0.0074	24398	3.41E-32
EPHA10	0.0030	0.0075	48799	8.80E-01	-0.0099	0.0066	27661	1.76E-01	-0.0032	0.0016	28098	6.19E-02	-0.0063	0.0021	28115	4.78E-03	-0.0057	0.0027	28114	5.16E-02
PRDX6	-0.0028	0.0071	50397	8.80E-01	-0.0098	0.0068	28576	1.99E-01	-0.0249	0.0017	29025	9.97E-50	-0.0290	0.0022	29042	5.15E-39	-0.0344	0.0028	29041	2.42E-33
IL10	-0.0038	0.0094	49043	8.80E-01	-0.0075	0.0052	27807	2.00E-01	-0.0004	0.0013	28251	7.75E-01	-0.0018	0.0017	28266	3.47E-01	-0.0028	0.0022	28265	2.56E-01
PROCR	0.0016	0.0041	42109	8.80E-01	0.0170	0.0142	23248	2.92E-01	-0.0133	0.0035	23603	2.21E-04	-0.0109	0.0046	23617	2.64E-02	-0.0134	0.0059	23616	3.43E-02
SLITRK1	-0.0016	0.0040	42274	8.80E-01	-0.0159	0.0146	23352	3.46E-01	-0.0895	0.0036	23710	1.91E-136	-0.1096	0.0047	23723	2.96E-117	-0.1303	0.0060	23722	1.52E-100
MYL6B	0.0042	0.0106	42343	8.80E-01	-0.0059	0.0055	23314	3.51E-01	-0.0011	0.0013	23671	4.61E-01	-0.0009	0.0018	23685	6.73E-01	-0.0016	0.0023	23684	5.57E-01
SIGLEC6	-0.0015	0.0038	50397	8.80E-01	-0.0110	0.0123	28576	4.45E-01	0.0123	0.0030	29025	8.09E-05	0.0126	0.0040	29042	2.54E-03	0.0272	0.0051	29041	2.10E-07
AMN	-0.0022	0.0055	49043	8.80E-01	0.0047	0.0089	27807	6.66E-01	0.0376	0.0022	28251	2.95E-65	0.0383	0.0029	28266	1.94E-39	0.0538	0.0037	28265	7.37E-47
CKMT1A_CKMT1B	0.0031	0.0078	49780	8.80E-01	-0.0022	0.0063	28235	7.85E-01	0.0005	0.0015	28677	7.74E-01	0.0020	0.0020	28692	3.93E-01	0.0047	0.0026	28691	9.72E-02
PNMA2	0.0020	0.0050	42120	8.80E-01	0.0018	0.0116	23217	9.05E-01	0.0064	0.0029	23575	3.39E-02	0.0064	0.0038	23590	1.22E-01	0.0068	0.0048	23589	2.07E-01
DAPP1	0.0055	0.0139	49907	8.81E-01	0.0390	0.0035	28300	4.53E-28	0.0096	0.0009	28746	1.13E-28	0.0100	0.0011	28762	2.31E-18	0.0080	0.0014	28761	8.62E-08
KCNC4	-0.0025	0.0063	42120	8.81E-01	0.0096	0.0091	23217	3.60E-01	0.0002	0.0022	23575	9.37E-01	0.0012	0.0029	23590	7.36E-01	0.0003	0.0038	23589	9.52E-01
CRACR2A	0.0040	0.0101	48785	8.81E-01	0.0207	0.0049	27677	4.87E-05	0.0102	0.0012	28109	8.06E-17	0.0100	0.0016	28125	6.63E-10	0.0158	0.0020	28124	3.38E-14
BTC	0.0034	0.0086	48785	8.82E-01	0.0605	0.0057	27677	2.08E-25	0.0068	0.0014	28109	2.60E-06	0.0077	0.0019	28125	6.43E-05	0.0034	0.0024	28124	1.93E-01
CEP152	0.0019	0.0049	41982	8.82E-01	0.0164	0.0122	23146	2.35E-01	-0.0002	0.0030	23506	9.62E-01	-0.0034	0.0040	23521	4.47E-01	-0.0026	0.0051	23520	6.64E-01
NOP56	0.0049	0.0127	42109	8.82E-01	-0.0009	0.0046	23248	8.76E-01	0.0014	0.0011	23603	2.44E-01	0.0017	0.0015	23617	3.17E-01	0.0024	0.0019	23616	2.60E-01
PDIA4	0.0027	0.0070	43537	8.83E-01	0.0832	0.0080	24024	2.17E-24	0.0234	0.0020	24398	6.74E-32	0.0262	0.0026	24413	3.45E-23	0.0268	0.0033	24412	3.79E-15
FXN	0.0033	0.0084	50397	8.83E-01	0.0977	0.0056	28576	1.77E-65	0.0098	0.0014	29025	4.17E-12	0.0100	0.0018	29042	7.71E-08	0.0091	0.0023	29041	2.01E-04
RAB27B	-0.0036	0.0094	43535	8.83E-01	0.0540	0.0060	24011	5.78E-19	0.0197	0.0015	24384	8.01E-41	0.0215	0.0019	24399	3.76E-28	0.0219	0.0025	24398	4.30E-18
ADAMTS4	-0.0016	0.0041	42274	8.83E-01	0.0860	0.0140	23352	2.02E-09	0.0131	0.0034	23710	2.33E-04	0.0103	0.0045	23723	3.42E-02	0.0200	0.0058	23722	1.03E-03
TOP1	-0.0050	0.0129	43346	8.83E-01	-0.0142	0.0044	23893	2.03E-03	0.0020	0.0011	24266	8.12E-02	0.0008	0.0014	24281	6.41E-01	0.0027	0.0018	24280	1.76E-01
FMNL1	0.0029	0.0075	48799	8.83E-01	-0.0166	0.0069	27661	2.57E-02	0.0158	0.0017	28098	3.52E-20	0.0102	0.0022	28115	9.29E-06	0.0282	0.0029	28114	4.11E-22
GCLM	0.0020	0.0052	42109	8.83E-01	0.0207	0.0113	23248	9.48E-02	-0.0010	0.0028	23603	7.48E-01	-0.0020	0.0036	23617	6.45E-01	-0.0003	0.0047	23616	9.58E-01
DNMBP	0.0028	0.0073	49589	8.85E-01	0.0659	0.0067	28083	6.04E-22	0.0174	0.0016	28527	1.62E-25	0.0176	0.0022	28543	1.37E-15	0.0236	0.0028	28542	1.13E-16
IGDCC4	0.0012	0.0030	43537	8.85E-01	-0.1116	0.0184	24024	3.31E-09	-0.0463	0.0045	24398	3.49E-24	-0.0507	0.0059	24413	5.25E-17	-0.0656	0.0076	24412	3.59E-17
ZP3	-0.0115	0.0299	42387	8.85E-01	-0.0020	0.0019	23360	3.55E-01	-0.0013	0.0005	23719	9.55E-03	-0.0011	0.0006	23733	1.03E-01	-0.0014	0.0008	23732	1.08E-01

IGFBP6	-0.0013	0.0035	49772	8.85E-01	-0.0125	0.0138	28267	4.37E-01	0.0210	0.0034	28705	9.06E-10	0.0256	0.0044	28720	1.53E-08	0.0439	0.0057	28719	3.82E-14
CD276	0.0016	0.0041	49941	8.85E-01	-0.0008	0.0117	28321	9.59E-01	-0.0199	0.0029	28766	8.12E-12	-0.0301	0.0038	28782	4.80E-15	-0.0150	0.0049	28781	3.26E-03
PGLYRP1	-0.0019	0.0050	50352	8.85E-01	0.1670	0.0096	28527	6.76E-66	-0.0060	0.0024	28973	1.60E-02	-0.0026	0.0031	28987	4.56E-01	-0.0001	0.0040	28986	9.92E-01
SSC5D	0.0019	0.0051	50176	8.86E-01	0.0213	0.0094	28453	3.73E-02	0.0668	0.0023	28897	2.15E-184	0.0584	0.0030	28913	2.27E-81	0.0693	0.0039	28912	2.21E-69
EIF1AX	0.0024	0.0063	43426	8.86E-01	0.0246	0.0090	23934	1.08E-02	0.0065	0.0022	24305	5.01E-03	0.0088	0.0029	24320	4.13E-03	0.0084	0.0037	24319	3.65E-02
ACTN4	-0.0014	0.0037	49043	8.86E-01	0.0363	0.0134	27807	1.15E-02	-0.0042	0.0033	28251	2.41E-01	-0.0053	0.0043	28266	2.69E-01	-0.0075	0.0056	28265	2.22E-01
ACE	-0.0011	0.0030	43572	8.86E-01	0.0194	0.0188	24036	3.72E-01	0.0157	0.0046	24408	1.03E-03	0.0155	0.0061	24423	1.61E-02	0.0124	0.0078	24422	1.49E-01
DIABLO	0.0048	0.0127	49824	8.86E-01	0.0482	0.0038	28260	3.01E-35	0.0111	0.0009	28704	1.80E-31	0.0113	0.0012	28719	2.08E-19	0.0109	0.0016	28718	1.51E-11
DRAXIN	-0.0019	0.0050	49589	8.86E-01	-0.0298	0.0098	28083	4.15E-03	0.0037	0.0024	28527	1.55E-01	-0.0011	0.0032	28543	7.79E-01	0.0090	0.0041	28542	3.91E-02
SAT2	-0.0030	0.0078	42740	8.86E-01	0.0457	0.0072	23551	5.18E-10	0.0114	0.0018	23912	1.65E-10	0.0130	0.0023	23927	4.41E-08	0.0115	0.0030	23926	2.14E-04
TCP11	0.0025	0.0066	42740	8.86E-01	0.0109	0.0084	23551	2.55E-01	-0.0013	0.0021	23912	5.78E-01	-0.0006	0.0027	23927	8.53E-01	-0.0026	0.0035	23926	5.24E-01
CNTNAP4	-0.0045	0.0119	42343	8.86E-01	-0.0101	0.0049	23314	5.95E-02	0.0015	0.0012	23671	2.50E-01	0.0032	0.0016	23685	5.70E-02	0.0029	0.0020	23684	1.99E-01
NID1	0.0016	0.0044	50014	8.87E-01	0.2204	0.0109	28386	3.29E-88	0.0249	0.0027	28825	8.07E-20	0.0257	0.0035	28841	1.10E-12	0.0355	0.0046	28840	2.44E-14
CD82	-0.0018	0.0048	42740	8.87E-01	0.0029	0.0120	23551	8.55E-01	0.0005	0.0030	23912	8.87E-01	0.0035	0.0039	23927	4.27E-01	0.0050	0.0050	23926	3.84E-01
KIR2DS4	-0.0073	0.0195	43346	8.87E-01	0.0000	0.0029	23893	9.94E-01	-0.0010	0.0007	24266	2.06E-01	-0.0016	0.0009	24281	1.13E-01	-0.0017	0.0012	24280	1.93E-01
VAT1	-0.0008	0.0023	49744	8.87E-01	0.4289	0.0212	28212	2.27E-88	-0.0444	0.0052	28661	4.84E-17	-0.0205	0.0069	28678	4.66E-03	-0.0109	0.0088	28677	2.70E-01
NT5C	0.0032	0.0084	43535	8.87E-01	0.0597	0.0066	24011	1.25E-18	0.0109	0.0016	24384	5.10E-11	0.0129	0.0021	24399	4.28E-09	0.0116	0.0028	24398	4.69E-05
PPL	-0.0014	0.0038	42274	8.87E-01	0.1277	0.0153	23352	3.70E-16	0.0176	0.0038	23710	5.55E-06	0.0135	0.0050	23723	1.04E-02	0.0228	0.0064	23722	6.32E-04
GLO1	0.0026	0.0069	49059	8.87E-01	0.0527	0.0072	27799	9.93E-13	-0.0060	0.0018	28234	1.12E-03	-0.0073	0.0023	28248	2.77E-03	-0.0054	0.0030	28247	9.38E-02
ITPA	0.0029	0.0078	42109	8.87E-01	0.0481	0.0075	23248	3.39E-10	0.0066	0.0018	23603	4.63E-04	0.0075	0.0024	23617	3.15E-03	0.0077	0.0031	23616	2.05E-02
PSIP1	0.0028	0.0076	49907	8.87E-01	0.0207	0.0065	28300	2.40E-03	0.0222	0.0016	28746	1.06E-43	0.0215	0.0021	28762	3.79E-24	0.0375	0.0027	28761	2.52E-43
LAIR2	-0.0045	0.0121	49589	8.87E-01	0.0042	0.0040	28083	3.65E-01	0.0025	0.0010	28527	1.54E-02	0.0042	0.0013	28543	1.87E-03	0.0057	0.0017	28542	1.15E-03
CD164L2	-0.0015	0.0041	42343	8.87E-01	-0.0144	0.0139	23314	3.69E-01	-0.0031	0.0034	23671	4.13E-01	0.0000	0.0045	23685	9.97E-01	-0.0033	0.0058	23684	6.30E-01
FGF16	-0.0020	0.0054	42274	8.87E-01	0.0099	0.0106	23352	4.21E-01	0.0149	0.0026	23710	1.99E-08	0.0185	0.0034	23723	1.37E-07	0.0211	0.0044	23722	3.49E-06
PDCD6	-0.0030	0.0081	49984	8.87E-01	0.0299	0.0060	28340	1.42E-06	-0.0054	0.0015	28785	4.12E-04	-0.0056	0.0019	28801	6.03E-03	-0.0085	0.0025	28800	1.03E-03
NPHS2	-0.0044	0.0118	42274	8.88E-01	0.0013	0.0049	23352	8.42E-01	-0.0002	0.0012	23710	8.70E-01	-0.0017	0.0016	23723	3.51E-01	-0.0004	0.0020	23722	8.75E-01
MECR	0.0039	0.0105	42387	8.88E-01	0.0885	0.0055	23360	2.44E-57	0.0119	0.0014	23719	4.73E-18	0.0142	0.0018	23733	5.32E-15	0.0142	0.0023	23732	1.55E-09
NDUFS6	0.0033	0.0091	48785	8.88E-01	0.0486	0.0054	27677	7.65E-19	0.0077	0.0013	28109	1.17E-08	0.0069	0.0017	28125	1.49E-04	0.0089	0.0022	28124	1.27E-04
CCN4	-0.0017	0.0047	50397	8.88E-01	0.0521	0.0102	28576	8.14E-07	0.0202	0.0025	29025	2.18E-15	0.0162	0.0033	29042	1.87E-06	0.0166	0.0042	29041	1.71E-04
SLIRP	-0.0024	0.0065	41982	8.88E-01	0.0328	0.0089	23146	4.34E-04	0.0047	0.0022	23506	4.47E-02	0.0035	0.0029	23521	2.84E-01	0.0053	0.0037	23520	1.99E-01
IL36G	-0.0028	0.0077	42112	8.88E-01	0.0179	0.0074	23277	2.53E-02	0.0007	0.0018	23633	7.36E-01	0.0005	0.0024	23646	8.75E-01	0.0055	0.0031	23645	1.01E-01
LTB	-0.0015	0.0040	43331	8.88E-01	-0.0299	0.0142	23884	5.31E-02	0.0237	0.0035	24254	2.04E-11	0.0266	0.0046	24269	1.44E-08	0.0358	0.0059	24268	2.81E-09
PAFAH1B3	-0.0049	0.0134	43455	8.88E-01	-0.0083	0.0043	23960	7.40E-02	0.0005	0.0010	24328	6.78E-01	0.0020	0.0014	24343	1.94E-01	0.0013	0.0018	24342	5.19E-01
TFAP2A	-0.0025	0.0068	42120	8.88E-01	-0.0017	0.0084	23217	8.76E-01	0.0000	0.0021	23575	9.95E-01	-0.0012	0.0027	23590	7.03E-01	0.0002	0.0035	23589	9.61E-01
OSM	-0.0031	0.0086	49674	8.89E-01	0.1752	0.0056	28165	7.86E-209	0.0093	0.0014	28609	6.11E-11	0.0146	0.0018	28624	5.48E-15	0.0166	0.0024	28623	4.80E-12
ERMAP	0.0019	0.0052	42274	8.89E-01	0.1078	0.0111	23352	1.13E-21	0.0341	0.0027	23710	3.65E-35	0.0399	0.0036	23723	7.30E-28	0.0529	0.0046	23722	1.52E-29
LCP1	0.0020	0.0055	43537	8.89E-01	0.0597	0.0102	24024	1.48E-08	0.0122	0.0025	24398	2.25E-06	0.0100	0.0033	24413	3.97E-03	0.0159	0.0043	24412	3.51E-04
IGSF21	-0.0016	0.0045	42387	8.90E-01	-0.0450	0.0127	23360	6.90E-04	0.0045	0.0031	23719	1.85E-01	0.0048	0.0041	23733	2.99E-01	0.0028	0.0053	23732	6.62E-01
NAGK	-0.0024	0.0066	42309	8.90E-01	0.0924	0.0087	23330	2.70E-25	0.0293	0.0022	23689	2.75E-41	0.0290	0.0028	23703	9.32E-24	0.0339	0.0036	23702	7.37E-20
AK1	0.0027	0.0075	49984	8.91E-01	0.0179	0.0066	28340	1.07E-02	-0.0113	0.0016	28785	5.18E-12	-0.0165	0.0021	28801	1.78E-14	-0.0152	0.0027	28800	5.42E-08
PLCB1	-0.0018	0.0051	42274	8.91E-01	-0.0243	0.0113	23352	4.87E-02	0.0003	0.0028	23710	9.19E-01	0.0015	0.0037	23723	7.36E-01	0.0008	0.0047	23722	8.90E-01
GPI	0.0019	0.0055	43572	8.92E-01	0.1321	0.0102	24036	5.80E-37	0.0302	0.0025	24408	1.50E-32	0.0336	0.0033	24423	2.03E-23	0.0386	0.0043	24422	7.36E-19
MGMT	-0.0050	0.0140	49907	8.92E-01	0.0418	0.0034	28300	1.02E-32	0.0087	0.0008	28746	1.59E-24	0.0097	0.0011	28762	1.08E-17	0.0077	0.0014	28761	1.46E-07

OGN	-0.0017	0.0049	49982	8.92E-01	0.1085	0.0097	28299	3.67E-28	-0.0054	0.0024	28747	3.17E-02	-0.0027	0.0031	28764	4.51E-01	0.0036	0.0040	28763	4.39E-01
SPRR3	0.0028	0.0077	43426	8.92E-01	-0.0517	0.0073	23934	3.90E-12	0.0089	0.0018	24305	1.01E-06	0.0096	0.0023	24320	8.17E-05	0.0274	0.0030	24319	4.29E-19
SLIT2	-0.0021	0.0060	48799	8.92E-01	0.0403	0.0082	27661	2.13E-06	0.0188	0.0020	28098	3.95E-20	0.0167	0.0027	28115	7.86E-10	0.0213	0.0034	28114	1.11E-09
MTR	0.0027	0.0075	42109	8.92E-01	0.0059	0.0078	23248	5.26E-01	-0.0008	0.0019	23603	7.37E-01	-0.0020	0.0025	23617	4.97E-01	-0.0029	0.0032	23616	4.35E-01
CCL23	-0.0017	0.0049	50189	8.92E-01	0.01543	0.0098	28442	1.95E-54	0.0152	0.0024	28888	4.55E-10	0.0124	0.0032	28904	1.66E-04	0.0093	0.0041	28903	3.33E-02
F11R	0.0023	0.0065	49982	8.94E-01	0.0555	0.0074	28299	2.40E-13	0.0342	0.0018	28747	2.04E-78	0.0380	0.0024	28764	3.94E-56	0.0401	0.0031	28763	5.16E-38
PECR	0.0011	0.0033	42387	8.94E-01	0.1123	0.0178	23360	8.03E-10	0.0295	0.0044	23719	4.18E-11	0.0367	0.0058	23733	5.54E-10	0.0408	0.0074	23732	9.05E-08
IFNGR1	-0.0008	0.0024	50189	8.94E-01	-0.0737	0.0198	28442	3.87E-04	-0.0346	0.0049	28888	2.49E-12	-0.0464	0.0064	28904	1.07E-12	-0.0412	0.0082	28903	1.19E-06
OLFM4	-0.0050	0.0141	41003	8.94E-01	0.0143	0.0042	22645	1.27E-03	0.0063	0.0010	22993	2.74E-09	0.0055	0.0014	23005	1.15E-04	0.0086	0.0018	23004	1.89E-06
APOBR	0.0017	0.0049	42387	8.94E-01	0.0342	0.0119	23360	6.66E-03	-0.0167	0.0029	23719	2.17E-08	-0.0217	0.0038	23733	3.62E-08	-0.0241	0.0049	23732	2.28E-06
PGA4	-0.0028	0.0081	43572	8.94E-01	-0.0098	0.0069	24036	2.08E-01	-0.0005	0.0017	24408	8.04E-01	0.0048	0.0022	24423	4.35E-02	0.0080	0.0029	24422	8.65E-03
RNF168	0.0016	0.0047	42274	8.94E-01	-0.0058	0.0124	23352	7.04E-01	0.0012	0.0031	23710	7.29E-01	0.0016	0.0040	23723	7.41E-01	0.0031	0.0052	23722	6.08E-01
SMPD3	-0.0023	0.0067	42274	8.94E-01	0.0010	0.0087	23352	9.33E-01	-0.0033	0.0022	23710	1.59E-01	-0.0026	0.0028	23723	4.21E-01	-0.0023	0.0036	23722	5.86E-01
SCN3B	0.0019	0.0053	42120	8.96E-01	0.0162	0.0110	23217	1.91E-01	0.0031	0.0027	23575	2.99E-01	0.0054	0.0036	23590	1.71E-01	0.0030	0.0046	23589	5.82E-01
INSL4	-0.0020	0.0058	43331	8.96E-01	0.0289	0.0096	23884	4.75E-03	-0.0057	0.0024	24254	2.19E-02	-0.0051	0.0031	24269	1.38E-01	-0.0041	0.0040	24268	3.68E-01
CDK1	0.0014	0.0042	41982	8.97E-01	0.0272	0.0140	23146	7.73E-02	0.0050	0.0034	23506	1.79E-01	0.0047	0.0045	23521	3.56E-01	0.0101	0.0058	23520	1.13E-01
GDF2	0.0014	0.0042	49984	8.97E-01	0.0204	0.0116	28340	1.13E-01	-0.0248	0.0028	28785	7.88E-18	-0.0436	0.0037	28801	1.46E-30	-0.0498	0.0048	28800	2.37E-24
GRK5	0.0020	0.0059	49059	8.97E-01	0.0450	0.0082	27799	1.19E-07	0.0145	0.0020	28234	1.13E-12	0.0151	0.0026	28248	2.79E-08	0.0187	0.0034	28247	8.77E-08
CCL24	-0.0033	0.0096	50106	8.97E-01	0.0093	0.0050	28399	9.27E-02	0.0105	0.0012	28844	3.69E-17	0.0096	0.0016	28860	8.24E-09	0.0158	0.0021	28859	1.01E-13
DNAJA1	-0.0018	0.0053	41982	8.97E-01	0.0078	0.0110	23146	5.51E-01	0.0025	0.0027	23506	4.00E-01	0.0074	0.0035	23521	5.01E-02	0.0096	0.0045	23520	4.84E-02
PPIB	0.0037	0.0110	50024	8.97E-01	0.0667	0.0044	28327	2.95E-50	0.0138	0.0011	28770	1.28E-36	0.0145	0.0014	28784	1.04E-23	0.0134	0.0018	28783	5.58E-13
LONP1	0.0034	0.0100	42387	8.97E-01	0.0823	0.0057	23360	1.37E-45	0.0151	0.0014	23719	4.70E-26	0.0176	0.0019	23733	1.09E-20	0.0191	0.0024	23732	4.24E-15
CETN3	0.0030	0.0089	43346	8.97E-01	0.0687	0.0063	23893	1.25E-26	0.0189	0.0016	24266	1.63E-33	0.0212	0.0020	24281	2.31E-24	0.0210	0.0026	24280	5.23E-15
PHYKPL	-0.0016	0.0048	42580	8.97E-01	0.1261	0.0118	23496	7.89E-26	0.0327	0.0029	23858	4.86E-29	0.0351	0.0038	23871	1.20E-19	0.0380	0.0049	23870	2.57E-14
NECAP2	0.0026	0.0076	42109	8.97E-01	0.0498	0.0076	23248	1.61E-10	0.0124	0.0019	23603	5.27E-11	0.0122	0.0025	23617	1.54E-06	0.0107	0.0032	23616	1.22E-03
TIGIT	0.0014	0.0042	42740	8.97E-01	0.0339	0.0137	23551	2.21E-02	-0.0044	0.0034	23912	2.38E-01	-0.0003	0.0045	23927	9.62E-01	0.0029	0.0057	23926	6.76E-01
CPE	0.0015	0.0045	50005	8.97E-01	0.0257	0.0108	28330	2.79E-02	-0.0145	0.0027	28774	9.33E-08	-0.0211	0.0035	28791	3.18E-09	-0.0265	0.0045	28790	7.96E-09
GLI2	-0.0013	0.0038	42274	8.97E-01	-0.0260	0.0151	23352	1.20E-01	-0.0057	0.0037	23710	1.55E-01	-0.0030	0.0049	23723	6.04E-01	-0.0069	0.0063	23722	3.31E-01
GUCY2C	0.0032	0.0095	42740	8.97E-01	0.0059	0.0060	23551	3.94E-01	0.0002	0.0015	23912	9.21E-01	0.0000	0.0019	23927	9.93E-01	0.0004	0.0025	23926	9.07E-01
IL9	0.0022	0.0063	42740	8.97E-01	-0.0080	0.0088	23551	4.33E-01	-0.0019	0.0022	23912	4.44E-01	-0.0012	0.0029	23927	7.36E-01	0.0035	0.0037	23926	3.97E-01
TMED10	0.0019	0.0056	42109	8.97E-01	-0.0034	0.0103	23248	7.94E-01	-0.0048	0.0025	23603	7.62E-02	-0.0068	0.0033	23617	5.71E-02	-0.0090	0.0043	23616	4.94E-02
TPBGL	0.0016	0.0047	42343	8.97E-01	-0.0038	0.0123	23314	8.10E-01	0.0056	0.0030	23671	8.38E-02	0.0080	0.0040	23685	6.35E-02	0.0041	0.0051	23684	4.94E-01
EVPL	0.0013	0.0038	42740	8.98E-01	0.0373	0.0148	23551	1.91E-02	-0.0071	0.0036	23912	6.64E-02	-0.0094	0.0048	23927	6.73E-02	-0.0130	0.0061	23926	4.90E-02
CD3D	0.0013	0.0039	42120	8.98E-01	0.0162	0.0148	23217	3.42E-01	-0.0069	0.0036	23575	7.58E-02	-0.0093	0.0048	23590	7.27E-02	-0.0139	0.0061	23589	3.53E-02
ATP1B2	0.0012	0.0036	42109	8.98E-01	-0.0170	0.0161	23248	3.63E-01	-0.0110	0.0040	23603	8.04E-03	-0.0095	0.0052	23617	9.55E-02	-0.0144	0.0067	23616	4.57E-02
DUOX2	-0.0028	0.0083	49059	8.98E-01	0.0005	0.0060	27799	9.54E-01	0.0015	0.0015	28234	3.70E-01	0.0014	0.0019	28248	5.32E-01	0.0024	0.0025	28247	3.93E-01
OFD1	0.0025	0.0075	42740	9.01E-01	-0.0012	0.0075	23551	9.00E-01	-0.0003	0.0018	23912	8.96E-01	-0.0019	0.0024	23927	4.94E-01	0.0009	0.0031	23926	8.21E-01
EVI2B	0.0015	0.0045	41982	9.01E-01	0.0017	0.0124	23146	9.15E-01	-0.0040	0.0030	23506	2.26E-01	-0.0047	0.0040	23521	2.93E-01	-0.0082	0.0052	23520	1.47E-01
GADD45GIP1	0.0020	0.0061	42387	9.01E-01	0.1321	0.0094	23360	4.52E-43	0.0237	0.0023	23719	1.27E-23	0.0285	0.0031	23733	7.27E-20	0.0286	0.0040	23732	1.39E-12
AMIGO2	0.0009	0.0026	49744	9.01E-01	0.2263	0.0184	28212	1.44E-33	-0.0088	0.0045	28661	6.83E-02	-0.0253	0.0059	28678	3.84E-05	-0.0248	0.0076	28677	1.90E-03
MCEMP1	0.0034	0.0104	42274	9.01E-01	0.0668	0.0055	23352	1.49E-32	0.0089	0.0014	23710	1.83E-10	0.0112	0.0018	23723	1.36E-09	0.0090	0.0023	23722	1.92E-04
IGF1R	0.0008	0.0025	49744	9.01E-01	0.1894	0.0195	28212	1.24E-21	-0.0091	0.0048	28661	7.35E-02	-0.0187	0.0063	28678	4.55E-03	-0.0177	0.0081	28677	4.11E-02
FCGR2B	0.0022	0.0067	48785	9.01E-01	0.0581	0.0074	27677	1.01E-14	0.0200	0.0018	28109	7.27E-28	0.0190	0.0024	28125	5.23E-15	0.0263	0.0031	28124	3.24E-17

KLK13	0.0017	0.0052	48865	9.01E-01	-0.0320	0.0096	27724	1.47E-03	-0.0014	0.0023	28166	5.96E-01	-0.0052	0.0031	28183	1.25E-01	0.0104	0.0039	28182	1.27E-02
NLGN2	-0.0018	0.0054	42120	9.01E-01	0.0027	0.0107	23217	8.43E-01	-0.0095	0.0026	23575	5.13E-04	-0.0096	0.0035	23590	8.55E-03	-0.0136	0.0045	23589	3.64E-03
NELL1	0.0016	0.0048	50125	9.01E-01	-0.0719	0.0099	28423	1.24E-12	0.0168	0.0024	28868	1.08E-11	0.0091	0.0032	28885	6.79E-03	0.0097	0.0041	28884	2.74E-02
CENPJ	0.0027	0.0081	42740	9.01E-01	0.0076	0.0070	23551	3.44E-01	0.0050	0.0017	23912	5.23E-03	0.0066	0.0023	23927	5.80E-03	0.0092	0.0029	23926	2.44E-03
INPP1	-0.0020	0.0062	49744	9.02E-01	0.0719	0.0078	28212	2.22E-19	0.0158	0.0019	28661	5.11E-16	0.0175	0.0025	28678	1.16E-11	0.0135	0.0032	28677	5.67E-05
PXN	-0.0020	0.0061	48799	9.02E-01	0.0312	0.0082	27661	2.61E-04	0.0250	0.0020	28098	1.04E-34	0.0201	0.0026	28115	8.82E-14	0.0416	0.0034	28114	1.89E-33
AXL	-0.0010	0.0032	50176	9.02E-01	-0.0386	0.0150	28453	1.66E-02	0.0114	0.0037	28897	2.92E-03	0.0124	0.0048	28913	1.59E-02	0.0305	0.0062	28912	1.92E-06
TGFBR1	-0.0008	0.0025	42274	9.02E-01	0.0136	0.0233	23352	6.32E-01	-0.0123	0.0058	23710	4.32E-02	-0.0057	0.0076	23723	5.19E-01	-0.0008	0.0097	23722	9.50E-01
HTR1A	0.0028	0.0087	42120	9.02E-01	-0.0035	0.0066	23217	6.68E-01	0.0004	0.0016	23575	8.53E-01	0.0010	0.0021	23590	6.89E-01	0.0019	0.0027	23589	5.64E-01
SRPX	-0.0013	0.0040	43535	9.02E-01	0.1082	0.0139	24011	2.68E-14	-0.0268	0.0034	24384	8.78E-15	-0.0418	0.0045	24399	5.39E-20	-0.0331	0.0058	24398	2.19E-08
CAPS	-0.0035	0.0107	43426	9.02E-01	0.0301	0.0052	23934	2.24E-08	-0.0042	0.0013	24305	1.64E-03	-0.0054	0.0017	24320	2.35E-03	-0.0065	0.0022	24319	4.25E-03
CD22	0.0016	0.0049	50529	9.03E-01	-0.0378	0.0097	28636	1.90E-04	0.0421	0.0024	29090	4.36E-69	0.0367	0.0031	29107	5.78E-31	0.0511	0.0040	29106	4.16E-36
TP53BP1	-0.0032	0.0100	42274	9.03E-01	-0.0056	0.0057	23352	3.99E-01	-0.0030	0.0014	23710	4.44E-02	-0.0046	0.0019	23723	2.04E-02	-0.0049	0.0024	23722	5.82E-02
SEPTIN7	-0.0020	0.0061	42740	9.03E-01	0.0271	0.0095	23551	7.22E-03	-0.0014	0.0023	23912	6.12E-01	-0.0021	0.0031	23927	5.63E-01	-0.0055	0.0039	23926	2.11E-01
VSIR	0.0023	0.0071	49907	9.03E-01	0.0928	0.0068	28291	1.20E-40	0.0223	0.0017	28735	7.42E-40	0.0249	0.0022	28750	7.32E-29	0.0273	0.0028	28749	3.04E-21
MVK	-0.0030	0.0094	49043	9.03E-01	0.0576	0.0053	27807	5.46E-27	0.0347	0.0013	28251	4.67E-161	0.0349	0.0017	28266	2.44E-94	0.0421	0.0022	28265	1.11E-82
TNFRSF13B	-0.0013	0.0040	50024	9.03E-01	0.0780	0.0121	28363	3.64E-10	0.0187	0.0030	28808	7.37E-10	0.0162	0.0039	28824	6.24E-05	0.0398	0.0050	28823	9.44E-15
NRTN	0.0018	0.0058	49043	9.03E-01	0.0035	0.0087	27807	7.50E-01	0.0077	0.0021	28251	4.35E-04	0.0060	0.0028	28266	4.57E-02	0.0093	0.0036	28265	1.51E-02
RALY	0.0018	0.0056	43331	9.04E-01	-0.0020	0.0102	23884	8.83E-01	0.0056	0.0025	24254	3.61E-02	0.0000	0.0033	24269	9.93E-01	0.0094	0.0043	24268	3.94E-02
IVD	-0.0018	0.0057	48799	9.04E-01	0.0124	0.0086	27661	1.96E-01	0.0041	0.0021	28098	6.65E-02	0.0042	0.0028	28115	1.70E-01	0.0043	0.0036	28114	2.80E-01
MUC2	-0.0033	0.0105	43537	9.05E-01	-0.0088	0.0054	24024	1.41E-01	0.0040	0.0013	24398	3.65E-03	0.0010	0.0017	24413	6.18E-01	0.0053	0.0022	24412	2.51E-02
MDGA1	0.0025	0.0081	49589	9.07E-01	-0.0165	0.0061	28083	1.08E-02	0.0030	0.0015	28527	5.38E-02	-0.0009	0.0020	28543	6.95E-01	-0.0015	0.0025	28542	6.18E-01
FRZB	-0.0010	0.0031	49423	9.08E-01	0.1633	0.0160	27995	9.16E-24	0.0183	0.0039	28433	5.39E-06	0.0131	0.0052	28449	1.67E-02	0.0189	0.0066	28448	6.83E-03
LACTB2	-0.0024	0.0076	49984	9.08E-01	0.0789	0.0063	28340	1.17E-34	0.0151	0.0015	28785	6.62E-22	0.0160	0.0020	28801	1.22E-14	0.0154	0.0026	28800	8.47E-09
COMMD1	0.0022	0.0071	42387	9.08E-01	0.0799	0.0081	23360	2.97E-22	0.0235	0.0020	23719	2.02E-31	0.0259	0.0026	23733	2.87E-22	0.0296	0.0034	23732	8.86E-18
SRC	0.0043	0.0139	50042	9.08E-01	0.0295	0.0035	28379	9.63E-17	0.0110	0.0009	28823	1.52E-37	0.0121	0.0011	28840	1.60E-26	0.0112	0.0014	28839	2.71E-14
DDX58	0.0021	0.0067	48785	9.08E-01	0.0363	0.0075	27677	2.64E-06	0.0068	0.0018	28109	3.76E-04	0.0029	0.0024	28125	2.83E-01	0.0106	0.0031	28124	1.15E-03
SPINK8	0.0013	0.0042	42109	9.08E-01	0.0108	0.0135	23248	4.98E-01	-0.0105	0.0033	23603	2.24E-03	-0.0128	0.0044	23617	5.49E-03	-0.0141	0.0056	23616	1.86E-02
GRIN2B	0.0020	0.0064	42120	9.08E-01	0.0052	0.0091	23217	6.38E-01	-0.0016	0.0022	23575	5.32E-01	0.0002	0.0029	23590	9.60E-01	-0.0014	0.0038	23589	7.66E-01
DCUN1D2	0.0028	0.0092	41982	9.08E-01	0.0036	0.0064	23146	6.46E-01	0.0011	0.0016	23506	5.45E-01	0.0011	0.0021	23521	6.60E-01	-0.0006	0.0026	23520	8.47E-01
SOX9	0.0010	0.0031	42343	9.08E-01	0.0072	0.0186	23314	7.57E-01	-0.0003	0.0045	23671	9.62E-01	0.0021	0.0060	23685	7.72E-01	0.0112	0.0077	23684	1.90E-01
THAP12	-0.0032	0.0102	41908	9.08E-01	0.0018	0.0058	23101	8.05E-01	0.0049	0.0014	23461	1.00E-03	0.0038	0.0019	23476	6.08E-02	0.0060	0.0024	23475	1.93E-02
TFF3	-0.0016	0.0053	49929	9.10E-01	0.0504	0.0090	28285	5.86E-08	-0.0248	0.0022	28726	1.00E-28	-0.0287	0.0029	28742	2.47E-22	-0.0247	0.0037	28741	1.08E-10
MAPK13	0.0015	0.0050	41982	9.10E-01	0.0000	0.0121	23146	9.98E-01	-0.0014	0.0030	23506	6.80E-01	-0.0055	0.0039	23521	2.02E-01	0.0032	0.0050	23520	5.87E-01
EGLN1	0.0020	0.0066	49907	9.10E-01	0.0590	0.0075	28300	1.21E-14	0.0230	0.0018	28746	2.04E-35	0.0191	0.0024	28762	9.07E-15	0.0383	0.0031	28761	4.32E-34
MPRIP	0.0015	0.0050	43250	9.10E-01	0.0083	0.0111	23822	5.29E-01	0.0330	0.0027	24192	4.92E-33	0.0338	0.0036	24207	2.70E-20	0.0360	0.0046	24206	2.47E-14
FMR1	0.0012	0.0041	48785	9.11E-01	0.0434	0.0121	27677	5.92E-04	0.0174	0.0030	28109	8.55E-09	0.0202	0.0039	28125	4.63E-07	0.0233	0.0050	28124	6.58E-06
MYL4	0.0019	0.0061	42387	9.11E-01	-0.0193	0.0096	23360	6.70E-02	-0.0136	0.0024	23719	1.81E-08	-0.0198	0.0031	23733	5.55E-10	-0.0139	0.0040	23732	9.58E-04
ATP5F1D	-0.0018	0.0059	42109	9.11E-01	0.0224	0.0099	23248	3.65E-02	0.0026	0.0024	23603	3.38E-01	0.0026	0.0032	23617	4.73E-01	0.0021	0.0041	23616	6.62E-01
VSIG2	-0.0021	0.0068	43331	9.11E-01	0.0035	0.0083	23884	7.40E-01	-0.0056	0.0020	24254	8.50E-03	0.0002	0.0027	24269	9.46E-01	0.0099	0.0034	24268	6.36E-03
HTRA2	0.0021	0.0071	50125	9.11E-01	0.0875	0.0068	28423	8.80E-37	0.0229	0.0017	28868	3.51E-42	0.0246	0.0022	28885	1.48E-28	0.0252	0.0028	28884	1.63E-18
EPHB4	0.0009	0.0028	50594	9.11E-01	0.0738	0.0166	28667	1.91E-05	-0.0502	0.0041	29116	1.96E-34	-0.0520	0.0053	29132	9.73E-22	-0.0458	0.0069	29131	7.40E-11
NOTCH1	0.0005	0.0018	50594	9.11E-01	-0.0178	0.0263	28667	5.73E-01	-0.0146	0.0064	29116	3.21E-02	-0.0458	0.0084	29132	1.22E-07	-0.0711	0.0108	29131	1.52E-10

METAP1D	-0.0029	0.0095	49907	9.12E-01	0.0928	0.0051	28300	4.97E-73	0.0144	0.0012	28746	3.05E-30	0.0161	0.0016	28762	4.39E-22	0.0159	0.0021	28761	1.59E-13
CDH22	-0.0010	0.0032	42740	9.12E-01	0.0119	0.0175	23551	5.71E-01	-0.0112	0.0043	23912	1.38E-02	-0.0114	0.0057	23927	6.36E-02	-0.0132	0.0073	23926	9.79E-02
CACYBP	0.0035	0.0118	42501	9.13E-01	0.0549	0.0048	23445	5.01E-29	0.0130	0.0012	23807	2.58E-27	0.0145	0.0016	23819	8.11E-20	0.0146	0.0020	23818	1.17E-12
DTNB	-0.0015	0.0051	43247	9.13E-01	0.1165	0.0111	23843	7.08E-25	0.0268	0.0027	24213	2.97E-22	0.0287	0.0036	24228	4.36E-15	0.0453	0.0046	24227	5.28E-22
CD7	0.0015	0.0050	42192	9.13E-01	0.0432	0.0115	23302	3.44E-04	0.0062	0.0028	23659	3.95E-02	0.0088	0.0038	23672	2.88E-02	0.0183	0.0048	23671	2.65E-04
SCG3	0.0012	0.0039	50024	9.16E-01	-0.0162	0.0123	28363	2.44E-01	-0.0736	0.0030	28808	1.18E-130	-0.0985	0.0039	28824	5.94E-135	-0.1071	0.0051	28823	1.68E-96
MAP2	0.0016	0.0053	43426	9.16E-01	0.1071	0.0106	23934	2.60E-23	0.0220	0.0026	24305	6.07E-17	0.0224	0.0034	24320	1.48E-10	0.0289	0.0044	24319	1.19E-10
NRP1	-0.0009	0.0032	50261	9.17E-01	0.3667	0.0149	28487	3.92E-130	-0.0583	0.0037	28931	1.03E-55	-0.0680	0.0048	28947	7.91E-44	-0.0552	0.0062	28946	3.27E-18
AK2	0.0035	0.0121	43426	9.17E-01	0.0570	0.0046	23934	8.40E-34	0.0116	0.0011	24305	6.40E-24	0.0142	0.0015	24320	7.59E-21	0.0126	0.0019	24319	1.59E-10
LEPR	-0.0011	0.0037	49984	9.17E-01	0.0630	0.0130	28340	3.13E-06	-0.0714	0.0032	28785	6.47E-111	-0.0844	0.0042	28801	2.00E-89	-0.1088	0.0053	28800	8.71E-90
VEGFB	0.0010	0.0034	42274	9.17E-01	0.0468	0.0168	23352	9.15E-03	0.0346	0.0041	23710	1.64E-16	0.0193	0.0055	23723	7.40E-04	0.0471	0.0070	23722	5.43E-11
FCER1A	0.0008	0.0027	43455	9.17E-01	0.0431	0.0208	23960	5.75E-02	-0.0081	0.0051	24328	1.41E-01	-0.0139	0.0067	24343	5.35E-02	-0.0179	0.0086	24342	5.31E-02
FGFBP2	0.0017	0.0058	43537	9.17E-01	-0.0194	0.0097	24024	6.70E-02	0.0127	0.0024	24398	1.58E-07	0.0112	0.0031	24413	5.87E-04	0.0053	0.0040	24412	2.41E-01
COL4A4	0.0017	0.0060	42669	9.17E-01	-0.0102	0.0095	23512	3.52E-01	-0.0004	0.0023	23873	8.99E-01	0.0030	0.0031	23888	3.91E-01	-0.0015	0.0040	23887	7.60E-01
FXYS5	0.0022	0.0075	49043	9.17E-01	0.0852	0.0065	27807	6.28E-38	0.0161	0.0016	28251	2.02E-23	0.0183	0.0021	28266	1.22E-17	0.0147	0.0027	28265	1.21E-07
EPHX2	-0.0021	0.0071	49059	9.17E-01	0.0090	0.0069	27799	2.53E-01	0.0145	0.0017	28234	2.98E-17	0.0148	0.0022	28248	9.15E-11	0.0145	0.0029	28247	8.30E-07
RPGR	-0.0014	0.0047	42343	9.17E-01	-0.0112	0.0122	23314	4.35E-01	0.0057	0.0030	23671	7.02E-02	0.0075	0.0039	23685	7.50E-02	0.0064	0.0050	23684	2.53E-01
ITIH5	0.0015	0.0051	43331	9.17E-01	-0.0145	0.0111	23884	2.48E-01	0.0054	0.0027	24254	6.14E-02	0.0074	0.0036	24269	5.53E-02	0.0078	0.0046	24268	1.21E-01
MLLT1	-0.0023	0.0079	41982	9.17E-01	-0.0047	0.0074	23146	5.99E-01	-0.0005	0.0018	23506	8.28E-01	-0.0001	0.0024	23521	9.62E-01	0.0020	0.0031	23520	5.80E-01
TYRP1	0.0021	0.0072	42274	9.17E-01	0.0242	0.0080	23352	4.51E-03	-0.0051	0.0020	23710	1.39E-02	-0.0031	0.0026	23723	2.84E-01	-0.0079	0.0033	23722	2.77E-02
CYP24A1	-0.0028	0.0099	42109	9.17E-01	-0.0044	0.0059	23248	5.25E-01	0.0017	0.0014	23603	2.80E-01	0.0014	0.0019	23617	5.17E-01	0.0025	0.0024	23616	3.77E-01
PMCH	0.0027	0.0094	42109	9.17E-01	-0.0100	0.0061	23248	1.37E-01	-0.0034	0.0015	23603	3.10E-02	-0.0042	0.0020	23617	4.78E-02	-0.0055	0.0025	23616	4.12E-02
SIRPB1	-0.0015	0.0053	49857	9.18E-01	0.0264	0.0090	28278	6.06E-03	-0.0051	0.0022	28721	3.11E-02	-0.0080	0.0029	28737	9.47E-03	0.0008	0.0038	28736	8.64E-01
CEACAM3	-0.0016	0.0055	48785	9.18E-01	0.0239	0.0090	27677	1.34E-02	0.0050	0.0022	28109	3.41E-02	0.0031	0.0029	28125	3.52E-01	0.0072	0.0038	28124	7.88E-02
IL5	-0.0046	0.0163	49043	9.19E-01	-0.0001	0.0030	27807	9.85E-01	-0.0016	0.0007	28251	3.97E-02	-0.0025	0.0010	28266	1.50E-02	-0.0033	0.0012	28265	1.18E-02
LAT	0.0025	0.0088	50529	9.19E-01	0.0756	0.0055	28636	2.44E-42	0.0226	0.0013	29090	9.48E-63	0.0251	0.0018	29107	4.95E-45	0.0256	0.0023	29106	1.21E-28
PMVK	-0.0036	0.0127	48721	9.19E-01	0.0454	0.0039	27646	1.33E-30	0.0102	0.0010	28082	6.05E-26	0.0099	0.0013	28099	1.18E-14	0.0080	0.0016	28098	1.55E-06
CEP170	0.0025	0.0089	42387	9.19E-01	0.0460	0.0064	23360	1.68E-12	0.0115	0.0016	23719	7.01E-13	0.0130	0.0021	23733	8.95E-10	0.0154	0.0027	23732	1.65E-08
IL7R	-0.0017	0.0062	49982	9.19E-01	-0.0329	0.0078	28299	4.97E-05	-0.0171	0.0019	28747	6.66E-19	-0.0231	0.0025	28764	9.66E-20	-0.0330	0.0032	28763	7.36E-24
NUDT5	0.0017	0.0060	49982	9.19E-01	0.1053	0.0081	28299	1.03E-37	0.0175	0.0020	28747	2.59E-18	0.0172	0.0026	28764	1.09E-10	0.0176	0.0034	28763	3.11E-07
PLPBP	0.0022	0.0079	49984	9.19E-01	0.0568	0.0061	28340	1.08E-19	0.0050	0.0015	28785	1.36E-03	0.0027	0.0020	28801	2.20E-01	0.0018	0.0025	28800	5.50E-01
WIF1	-0.0011	0.0040	50397	9.20E-01	0.2171	0.0119	28576	3.53E-72	-0.0397	0.0029	29025	3.56E-41	-0.0346	0.0038	29042	1.02E-18	-0.0277	0.0050	29041	4.94E-08
TBC1D23	0.0029	0.0105	49744	9.20E-01	0.0493	0.0046	28212	1.40E-25	0.0154	0.0011	28661	1.54E-41	0.0160	0.0015	28678	3.35E-26	0.0175	0.0019	28677	2.86E-19
SPOCK1	-0.0008	0.0030	49589	9.20E-01	0.1677	0.0163	28083	6.62E-24	-0.0095	0.0040	28527	2.53E-02	-0.0412	0.0053	28543	1.51E-14	-0.0707	0.0068	28542	8.23E-25
CCL26	-0.0029	0.0104	49907	9.20E-01	0.0470	0.0047	28300	1.55E-22	0.0063	0.0012	28746	1.13E-07	0.0067	0.0015	28762	1.89E-05	0.0074	0.0020	28761	2.65E-04
SLC16A1	0.0019	0.0067	48799	9.20E-01	0.0372	0.0074	27661	1.08E-06	0.0088	0.0018	28098	2.25E-06	0.0090	0.0024	28115	2.99E-04	0.0107	0.0031	28114	8.66E-04
PDIAS	-0.0019	0.0069	41982	9.20E-01	0.0416	0.0083	23146	1.33E-06	0.0079	0.0020	23506	1.85E-04	0.0113	0.0027	23521	4.78E-05	0.0089	0.0035	23520	1.61E-02
ENG	0.0005	0.0020	50594	9.20E-01	0.0923	0.0239	28667	2.27E-04	-0.0614	0.0058	29116	2.76E-25	-0.0741	0.0077	29132	2.10E-21	-0.0989	0.0099	29131	7.23E-23
PSMD9	0.0018	0.0065	49744	9.20E-01	0.0209	0.0077	28212	1.07E-02	-0.0185	0.0019	28661	1.27E-22	-0.0235	0.0025	28678	5.25E-21	-0.0196	0.0032	28677	1.36E-09
ISLR2	0.0012	0.0044	48106	9.20E-01	-0.0285	0.0114	27209	2.06E-02	-0.0132	0.0028	27637	4.05E-06	-0.0163	0.0037	27654	1.75E-05	-0.0181	0.0047	27653	2.51E-04
PGM2	-0.0019	0.0068	42343	9.20E-01	0.0124	0.0085	23314	1.93E-01	-0.0002	0.0021	23671	9.28E-01	0.0022	0.0027	23685	4.77E-01	0.0025	0.0035	23684	5.50E-01
ACP1	-0.0014	0.0052	42274	9.20E-01	-0.0130	0.0115	23352	3.23E-01	-0.0160	0.0028	23710	2.75E-08	-0.0226	0.0037	23723	2.92E-09	-0.0307	0.0048	23722	3.56E-10
SOWAHA	0.0015	0.0056	42343	9.20E-01	-0.0088	0.0103	23314	4.66E-01	-0.0036	0.0025	23671	1.97E-01	-0.0036	0.0033	23685	3.45E-01	-0.0033	0.0043	23684	5.10E-01

ERCC1	0.0010	0.0038	41982	9.20E-01	-0.0017	0.0153	23146	9.33E-01	-0.0057	0.0037	23506	1.62E-01	-0.0058	0.0049	23521	2.96E-01	-0.0090	0.0063	23520	1.98E-01
STX3	-0.0012	0.0044	43426	9.20E-01	0.0008	0.0129	23934	9.63E-01	0.0061	0.0031	24305	6.88E-02	0.0089	0.0041	24320	4.50E-02	0.0073	0.0053	24319	2.17E-01
GRSF1	0.0025	0.0093	41761	9.21E-01	0.0499	0.0063	22999	1.20E-14	0.0136	0.0016	23357	6.64E-18	0.0171	0.0020	23372	2.30E-16	0.0190	0.0026	23371	1.82E-12
FABP5	0.0022	0.0081	50250	9.22E-01	0.0975	0.0060	28476	1.99E-58	0.0191	0.0015	28927	2.28E-38	0.0194	0.0019	28944	3.37E-23	0.0212	0.0025	28943	4.41E-17
DDR1	0.0007	0.0026	50415	9.22E-01	0.0527	0.0180	28544	5.96E-03	-0.0282	0.0044	28996	2.83E-10	-0.0457	0.0058	29013	5.93E-15	-0.0283	0.0074	29012	2.44E-04
IGF2BP3	-0.0014	0.0053	42109	9.22E-01	-0.0255	0.0111	23248	3.27E-02	0.0054	0.0027	23603	5.94E-02	0.0067	0.0036	23617	8.34E-02	0.0038	0.0046	23616	4.80E-01
MAG	0.0014	0.0054	42343	9.22E-01	0.0101	0.0107	23314	4.20E-01	-0.0043	0.0026	23671	1.28E-01	-0.0038	0.0035	23685	3.31E-01	-0.0066	0.0044	23684	1.82E-01
KYAT1	0.0018	0.0066	49901	9.23E-01	0.0702	0.0074	28308	7.51E-21	0.0183	0.0018	28752	1.02E-23	0.0164	0.0024	28768	1.22E-11	0.0161	0.0030	28767	2.80E-07
RASSF2	0.0018	0.0067	48785	9.23E-01	0.0347	0.0075	27677	9.11E-06	0.0149	0.0019	28109	2.36E-15	0.0112	0.0024	28125	8.30E-06	0.0293	0.0031	28124	4.09E-20
FSHB	-0.0020	0.0074	42387	9.23E-01	0.0042	0.0077	23360	6.57E-01	0.0041	0.0019	23719	4.20E-02	0.0049	0.0025	23733	7.23E-02	0.0082	0.0032	23732	1.68E-02
CTHRC1	-0.0009	0.0033	43537	9.23E-01	-0.0023	0.0168	24024	9.18E-01	0.0475	0.0041	24398	3.23E-30	0.0371	0.0054	24413	2.15E-11	0.0790	0.0070	24412	6.62E-29
MMP7	-0.0015	0.0057	48982	9.24E-01	0.0405	0.0085	27757	4.25E-06	0.0073	0.0021	28188	6.59E-04	-0.0067	0.0027	28202	2.07E-02	0.0028	0.0035	28201	4.89E-01
THPO	-0.0012	0.0045	49059	9.24E-01	0.1804	0.0111	27799	8.32E-58	0.0099	0.0027	28234	4.32E-04	0.0104	0.0036	28248	5.87E-03	0.0059	0.0046	28247	2.51E-01
CAPN3	-0.0011	0.0043	43331	9.26E-01	-0.0062	0.0130	23884	7.01E-01	-0.0010	0.0032	24254	7.83E-01	0.0046	0.0042	24269	3.28E-01	0.0018	0.0054	24268	7.92E-01
FAM171A2	-0.0047	0.0180	43455	9.26E-01	0.0001	0.0031	23960	9.75E-01	-0.0002	0.0008	24328	8.28E-01	-0.0004	0.0010	24343	7.50E-01	0.0003	0.0013	24342	8.62E-01
DBI	0.0024	0.0091	49750	9.26E-01	0.0903	0.0053	28190	3.09E-63	0.0125	0.0013	28636	2.14E-21	0.0142	0.0017	28653	4.77E-16	0.0127	0.0022	28652	1.99E-08
CLIC5	-0.0010	0.0036	42343	9.26E-01	0.2094	0.0158	23314	7.91E-39	-0.0308	0.0039	23671	5.14E-15	-0.0275	0.0051	23685	1.63E-07	-0.0400	0.0066	23684	2.93E-09
IL31RA	-0.0012	0.0046	42109	9.27E-01	-0.0348	0.0127	23259	1.04E-02	0.0064	0.0031	23616	5.50E-02	0.0068	0.0041	23629	1.30E-01	-0.0019	0.0053	23628	7.73E-01
IL1A	0.0017	0.0065	49043	9.27E-01	0.0121	0.0077	27807	1.58E-01	0.0036	0.0019	28251	7.74E-02	0.0036	0.0025	28266	1.90E-01	0.0039	0.0032	28265	2.70E-01
LECT2	0.0020	0.0076	43535	9.27E-01	0.0094	0.0074	24011	2.63E-01	0.0291	0.0018	24384	2.14E-57	0.0260	0.0024	24399	4.65E-27	0.0367	0.0031	24398	3.24E-32
ROBO1	0.0007	0.0028	50024	9.27E-01	0.0204	0.0171	28363	2.95E-01	0.0397	0.0042	28808	6.91E-21	0.0186	0.0055	28824	1.25E-03	0.0293	0.0071	28823	6.58E-05
LY9	-0.0009	0.0034	49400	9.27E-01	0.0314	0.0144	27992	4.51E-02	0.0103	0.0035	28437	5.09E-03	0.0001	0.0046	28454	9.87E-01	0.0118	0.0060	28453	6.69E-02
NPPC	-0.0014	0.0055	49907	9.27E-01	0.0082	0.0088	28300	4.25E-01	0.0173	0.0021	28746	1.59E-15	0.0120	0.0028	28762	3.54E-05	0.0308	0.0036	28761	7.07E-17
PTPN6	-0.0026	0.0103	50106	9.28E-01	0.0442	0.0047	28399	1.99E-20	0.0095	0.0011	28844	2.74E-16	0.0105	0.0015	28860	8.73E-12	0.0065	0.0019	28859	1.47E-03
IL7	0.0019	0.0074	49907	9.28E-01	0.0791	0.0065	28300	6.93E-33	0.0158	0.0016	28746	1.36E-22	0.0163	0.0021	28762	2.59E-14	0.0127	0.0027	28761	5.23E-06
PRKAR1A	-0.0025	0.0096	49984	9.28E-01	0.0501	0.0050	28340	1.04E-22	0.0174	0.0012	28785	5.32E-45	0.0177	0.0016	28801	3.11E-27	0.0194	0.0021	28800	4.45E-20
TIGAR	-0.0014	0.0055	48717	9.28E-01	0.0760	0.0091	27608	3.28E-16	0.0122	0.0022	28044	9.59E-08	0.0131	0.0030	28061	1.66E-05	0.0194	0.0038	28060	6.68E-07
PECAM1	0.0009	0.0035	49982	9.28E-01	0.0674	0.0138	28299	2.52E-06	0.0357	0.0034	28747	1.98E-25	0.0349	0.0045	28764	1.60E-14	0.0367	0.0057	28763	4.36E-10
IGFBP1	-0.0039	0.0154	50512	9.28E-01	0.1500	0.0030	28612	0.00E+00	-0.0405	0.0007	29059	0.00E+00	-0.0362	0.0010	29075	4.86E-291	-0.0506	0.0013	29074	0.00E+00
SNCG	0.0020	0.0081	49589	9.28E-01	0.0334	0.0060	28083	6.93E-08	0.0247	0.0015	28527	1.54E-62	0.0250	0.0019	28543	2.17E-37	0.0397	0.0025	28542	2.45E-56
FCER2	-0.0015	0.0059	49982	9.28E-01	-0.0041	0.0082	28299	6.82E-01	0.0210	0.0020	28747	1.80E-25	0.0196	0.0026	28764	2.20E-13	0.0334	0.0034	28763	2.34E-22
IL25	0.0010	0.0039	41836	9.29E-01	0.0193	0.0148	23048	2.49E-01	0.0031	0.0036	23406	4.53E-01	0.0021	0.0048	23421	7.16E-01	0.0006	0.0062	23420	9.32E-01
MARS1	0.0024	0.0098	42501	9.30E-01	0.0505	0.0058	23445	1.04E-17	0.0187	0.0014	23807	5.88E-39	0.0200	0.0019	23819	5.39E-26	0.0218	0.0024	23818	5.75E-19
BNIP2	0.0010	0.0039	43535	9.30E-01	0.1036	0.0146	24011	4.05E-12	0.0122	0.0036	24384	1.00E-03	0.0153	0.0047	24399	1.89E-03	0.0080	0.0061	24398	2.38E-01
NPTX2	-0.0009	0.0038	43537	9.30E-01	0.0749	0.0147	24024	8.13E-07	-0.0395	0.0036	24398	2.03E-27	-0.0481	0.0047	24413	1.75E-23	-0.0502	0.0061	24412	7.19E-16
CLEC1A	0.0009	0.0038	49059	9.30E-01	0.0606	0.0128	27799	4.82E-06	-0.0093	0.0031	28234	4.53E-03	-0.0105	0.0041	28248	1.69E-02	-0.0053	0.0053	28247	3.75E-01
SMARCA2	0.0020	0.0083	48799	9.30E-01	0.0247	0.0059	27661	5.08E-05	0.0113	0.0014	28098	1.18E-14	0.0114	0.0019	28115	3.45E-09	0.0121	0.0024	28114	1.52E-06
RNASE3	-0.0032	0.0131	49747	9.30E-01	0.0146	0.0038	28211	2.56E-04	0.0005	0.0009	28654	6.72E-01	-0.0021	0.0012	28668	1.13E-01	0.0031	0.0016	28667	6.69E-02
AMBP	-0.0006	0.0024	50324	9.30E-01	-0.0628	0.0201	28535	3.11E-03	0.0867	0.0049	28983	5.73E-69	0.0781	0.0064	29000	8.10E-33	0.1117	0.0083	28999	2.71E-40
GLRX	0.0016	0.0067	49665	9.30E-01	0.0220	0.0074	28161	5.12E-03	-0.0089	0.0018	28605	1.46E-06	-0.0151	0.0024	28619	4.37E-10	-0.0102	0.0031	28618	1.36E-03
DHPS	0.0011	0.0047	43331	9.30E-01	0.0341	0.0121	23884	8.08E-03	0.0342	0.0030	24254	3.28E-30	0.0292	0.0039	24269	2.24E-13	0.0441	0.0050	24268	6.43E-18
ADRA2A	-0.0020	0.0082	42109	9.30E-01	-0.0093	0.0072	23248	2.50E-01	-0.0002	0.0018	23603	9.08E-01	0.0007	0.0023	23617	8.03E-01	-0.0017	0.0030	23616	6.25E-01
HNF1A	0.0020	0.0082	42343	9.30E-01	-0.0060	0.0071	23314	4.75E-01	0.0004	0.0017	23671	8.39E-01	0.0013	0.0023	23685	6.20E-01	0.0012	0.0030	23684	7.28E-01

TMPRSS11B	0.0022	0.0087	42120	9.30E-01	0.0052	0.0066	23217	5.01E-01	-0.0001	0.0016	23575	9.62E-01	0.0003	0.0021	23590	9.17E-01	0.0013	0.0027	23589	6.91E-01
GSAP	-0.0024	0.0099	48785	9.30E-01	0.0013	0.0049	27677	8.34E-01	0.0015	0.0012	28109	2.45E-01	0.0018	0.0016	28125	3.07E-01	0.0038	0.0020	28124	9.18E-02
LHB	-0.0025	0.0101	48785	9.30E-01	-0.0012	0.0049	27677	8.58E-01	0.0030	0.0012	28109	2.00E-02	0.0039	0.0016	28125	2.25E-02	0.0047	0.0021	28124	3.32E-02
HRAS	0.0028	0.0112	42665	9.30E-01	-0.0011	0.0051	23528	8.74E-01	0.0015	0.0013	23888	2.94E-01	0.0014	0.0017	23903	4.74E-01	0.0019	0.0021	23902	4.26E-01
NPTN	0.0023	0.0094	48785	9.30E-01	-0.0010	0.0052	27677	8.81E-01	-0.0029	0.0013	28109	3.54E-02	-0.0026	0.0017	28125	1.67E-01	-0.0037	0.0022	28124	1.16E-01
F2	-0.0004	0.0017	43602	9.30E-01	0.2044	0.0332	24051	1.95E-09	0.0567	0.0081	24424	7.43E-12	0.0385	0.0107	24439	5.82E-04	0.0498	0.0138	24438	5.46E-04
ECE1	-0.0010	0.0041	48799	9.30E-01	0.0246	0.0122	27661	6.44E-02	-0.0056	0.0030	28098	7.75E-02	-0.0108	0.0039	28115	9.62E-03	-0.0212	0.0051	28114	5.14E-05
ECM1	0.0010	0.0042	42416	9.30E-01	0.0217	0.0137	23462	1.54E-01	0.0172	0.0034	23825	5.09E-07	0.0155	0.0044	23839	8.12E-04	0.0158	0.0057	23838	8.58E-03
AMIGO1	-0.0014	0.0058	42343	9.30E-01	-0.0085	0.0101	23314	4.77E-01	0.0011	0.0025	23671	6.95E-01	0.0034	0.0033	23685	3.51E-01	0.0046	0.0042	23684	3.30E-01
CD69	-0.0024	0.0101	49742	9.30E-01	0.0556	0.0048	28211	5.77E-30	0.0145	0.0012	28654	2.47E-34	0.0155	0.0015	28669	5.17E-23	0.0143	0.0020	28668	1.58E-12
MDK	-0.0014	0.0059	49975	9.31E-01	0.1856	0.0082	28316	6.92E-111	0.0045	0.0020	28760	3.63E-02	0.0054	0.0027	28777	6.02E-02	0.0064	0.0034	28776	8.49E-02
PRDX3	0.0020	0.0083	49043	9.31E-01	0.1019	0.0059	27807	5.38E-65	0.0169	0.0014	28251	5.77E-31	0.0186	0.0019	28266	4.90E-22	0.0209	0.0024	28265	4.90E-17
MAGED1	0.0013	0.0055	48785	9.31E-01	0.0574	0.0089	27677	2.73E-10	0.0159	0.0022	28109	6.97E-13	0.0181	0.0029	28125	6.75E-10	0.0196	0.0037	28124	2.39E-07
CCL11	-0.0011	0.0044	50529	9.31E-01	0.0011	0.0108	28636	9.41E-01	0.0132	0.0027	29090	1.10E-06	0.0164	0.0035	29107	4.71E-06	0.0478	0.0045	29106	8.02E-26
RBM25	-0.0013	0.0052	41982	9.31E-01	0.0006	0.0110	23146	9.68E-01	0.0017	0.0027	23506	5.88E-01	0.0022	0.0036	23521	6.04E-01	-0.0091	0.0046	23520	6.43E-02
OXCT1	0.0019	0.0080	42387	9.31E-01	0.1116	0.0072	23360	4.01E-53	0.0047	0.0018	23719	1.09E-02	0.0076	0.0023	23733	1.83E-03	0.0050	0.0030	23732	1.24E-01
SNED1	-0.0009	0.0037	42387	9.31E-01	0.1075	0.0153	23360	7.62E-12	0.0277	0.0038	23719	5.40E-13	0.0272	0.0050	23733	1.01E-07	0.0341	0.0064	23732	2.08E-07
CDKL5	0.0014	0.0060	42120	9.31E-01	-0.0033	0.0096	23217	7.82E-01	-0.0046	0.0023	23575	6.32E-02	-0.0042	0.0031	23590	2.21E-01	-0.0074	0.0040	23589	8.32E-02
EPPK1	0.0020	0.0085	42387	9.31E-01	0.0024	0.0068	23360	7.81E-01	0.0054	0.0017	23719	1.83E-03	0.0028	0.0022	23733	2.56E-01	0.0082	0.0028	23732	5.59E-03
DBH	-0.0030	0.0126	43492	9.32E-01	0.0067	0.0045	24007	1.83E-01	-0.0026	0.0011	24379	2.41E-02	-0.0032	0.0014	24394	3.76E-02	-0.0053	0.0019	24393	7.35E-03
DECR1	0.0026	0.0111	49907	9.32E-01	0.0674	0.0043	28300	7.75E-53	0.0137	0.0011	28746	5.15E-37	0.0150	0.0014	28762	4.80E-26	0.0165	0.0018	28761	2.66E-19
IL21R	-0.0015	0.0063	42274	9.32E-01	-0.0213	0.0091	23352	3.11E-02	-0.0011	0.0023	23710	6.60E-01	-0.0006	0.0030	23723	8.76E-01	-0.0011	0.0038	23722	8.20E-01
CHAD	0.0014	0.0059	42580	9.32E-01	-0.0163	0.0096	23496	1.27E-01	-0.0121	0.0024	23858	5.65E-07	-0.0070	0.0031	23871	3.52E-02	-0.0022	0.0040	23870	6.48E-01
GIMAP8	-0.0014	0.0058	41982	9.32E-01	0.0116	0.0101	23146	3.16E-01	0.0161	0.0025	23506	1.36E-10	0.0115	0.0033	23521	7.52E-04	0.0210	0.0042	23520	1.07E-06
SPRING1	-0.0016	0.0069	41982	9.32E-01	-0.0057	0.0085	23146	5.75E-01	-0.0008	0.0021	23506	7.50E-01	0.0014	0.0028	23521	6.82E-01	-0.0004	0.0035	23520	9.18E-01
IL2	0.0008	0.0036	49043	9.32E-01	0.0180	0.0136	27807	2.42E-01	0.0065	0.0033	28251	6.65E-02	0.0073	0.0044	28266	1.25E-01	0.0046	0.0056	28265	4.79E-01
CCL17	0.0025	0.0106	49865	9.32E-01	0.0741	0.0046	28284	1.33E-57	0.0081	0.0011	28728	1.72E-12	0.0086	0.0015	28743	1.32E-08	0.0106	0.0019	28742	4.84E-08
NENF	0.0030	0.0128	43331	9.32E-01	-0.0006	0.0045	23884	9.14E-01	0.0019	0.0011	24254	1.13E-01	0.0035	0.0015	24269	2.55E-02	0.0040	0.0019	24268	4.81E-02
SIRT5	0.0014	0.0063	48799	9.33E-01	0.0052	0.0079	27661	5.84E-01	0.0043	0.0020	28098	3.65E-02	0.0052	0.0026	28115	5.96E-02	0.0069	0.0033	28114	5.28E-02
IL1B	0.0015	0.0066	48808	9.33E-01	0.1288	0.0076	27631	8.95E-63	0.0133	0.0019	28070	2.08E-12	0.0195	0.0025	28085	4.95E-15	0.0105	0.0032	28084	1.55E-03
CBLN4	-0.0008	0.0037	50397	9.33E-01	-0.1432	0.0131	28576	5.56E-27	0.0698	0.0032	29025	3.52E-105	0.0654	0.0042	29042	1.25E-53	0.0678	0.0054	29041	2.95E-35
APCS	-0.0010	0.0043	43218	9.33E-01	0.1507	0.0131	23824	1.79E-29	0.0813	0.0032	24192	3.94E-139	0.0760	0.0042	24207	5.13E-70	0.0824	0.0055	24206	4.60E-50
KIR3DL1	-0.0032	0.0142	48785	9.33E-01	0.0053	0.0035	27677	1.75E-01	-0.0003	0.0009	28109	7.81E-01	-0.0003	0.0011	28125	8.56E-01	0.0000	0.0014	28124	9.95E-01
TTR	0.0007	0.0029	43132	9.33E-01	0.0129	0.0196	23808	5.84E-01	0.0789	0.0048	24177	5.99E-60	0.0835	0.0063	24192	6.96E-39	0.0447	0.0081	24191	8.74E-08
TTN	0.0018	0.0078	42109	9.33E-01	0.0012	0.0075	23248	9.03E-01	-0.0019	0.0018	23603	3.50E-01	0.0039	0.0024	23617	1.50E-01	0.0060	0.0031	23616	7.86E-02
AHCY	-0.0018	0.0079	49984	9.34E-01	0.0612	0.0061	28340	1.42E-22	0.0103	0.0015	28785	1.84E-11	0.0098	0.0020	28801	1.62E-06	0.0121	0.0025	28800	3.69E-06
CHRM1	0.0010	0.0042	42343	9.34E-01	-0.0132	0.0137	23314	4.07E-01	-0.0057	0.0034	23671	1.13E-01	-0.0029	0.0044	23685	5.83E-01	-0.0061	0.0057	23684	3.41E-01
UBE2Z	-0.0015	0.0067	42274	9.34E-01	0.0323	0.0084	23352	2.45E-04	0.0067	0.0021	23710	1.99E-03	0.0080	0.0028	23723	5.81E-03	0.0062	0.0035	23722	1.06E-01
BEX3	0.0012	0.0053	41982	9.35E-01	-0.0082	0.0108	23146	5.23E-01	-0.0064	0.0026	23506	2.27E-02	-0.0068	0.0035	23521	7.28E-02	-0.0083	0.0045	23520	8.81E-02
FZD10	0.0015	0.0067	42343	9.35E-01	-0.0028	0.0085	23314	7.94E-01	0.0015	0.0021	23671	5.34E-01	0.0032	0.0027	23685	2.90E-01	0.0034	0.0035	23684	3.98E-01
DTD1	0.0022	0.0100	42580	9.36E-01	0.0661	0.0057	23496	5.24E-30	0.0146	0.0014	23858	9.26E-25	0.0173	0.0018	23871	2.74E-20	0.0161	0.0024	23870	3.39E-11
GPHA2	0.0012	0.0053	43346	9.36E-01	-0.0096	0.0106	23893	4.37E-01	-0.0166	0.0026	24266	3.81E-10	-0.0173	0.0034	24281	8.79E-07	-0.0216	0.0044	24280	1.98E-06
SMNDC1	0.0016	0.0072	43346	9.37E-01	0.0083	0.0081	23893	3.75E-01	0.0154	0.0020	24266	2.69E-14	0.0111	0.0026	24281	4.34E-05	0.0288	0.0034	24280	4.44E-17

STOML2	0.0023	0.0106	41982	9.37E-01	0.0121	0.0055	23146	4.38E-02	0.0017	0.0014	23506	2.42E-01	0.0026	0.0018	23521	1.81E-01	0.0018	0.0023	23520	4.97E-01
F12	-0.0010	0.0048	43602	9.38E-01	0.0589	0.0117	24051	1.22E-06	0.0240	0.0029	24424	1.75E-16	0.0173	0.0038	24439	1.05E-05	0.0117	0.0049	24438	2.51E-02
NPHS1	-0.0008	0.0039	42274	9.38E-01	-0.0167	0.0148	23352	3.26E-01	0.0236	0.0036	23710	2.07E-10	0.0137	0.0048	23723	6.96E-03	0.0075	0.0062	23722	2.77E-01
CBLN1	-0.0024	0.0109	42120	9.38E-01	-0.0008	0.0053	23217	9.10E-01	-0.0020	0.0013	23575	1.62E-01	-0.0028	0.0017	23590	1.37E-01	-0.0034	0.0022	23589	1.70E-01
JMJD1C	0.0014	0.0064	41982	9.39E-01	0.0049	0.0089	23146	6.51E-01	0.0026	0.0022	23506	2.76E-01	0.0035	0.0029	23521	2.84E-01	0.0055	0.0037	23520	1.80E-01
TXNRD1	-0.0012	0.0054	49982	9.39E-01	0.0897	0.0090	28299	8.19E-23	0.0336	0.0022	28747	5.53E-52	0.0324	0.0029	28764	1.73E-28	0.0377	0.0037	28763	1.65E-23
PLSCR3	-0.0015	0.0068	43351	9.39E-01	0.0745	0.0083	23896	1.11E-18	0.0353	0.0020	24266	7.09E-67	0.0376	0.0027	24281	7.78E-44	0.0448	0.0034	24280	7.50E-38
LUZP2	0.0011	0.0051	43331	9.39E-01	-0.0456	0.0110	23884	6.71E-05	-0.0201	0.0027	24254	1.77E-13	-0.0260	0.0035	24269	6.29E-13	-0.0283	0.0046	24268	1.45E-09
PCDH1	0.0005	0.0024	50367	9.39E-01	-0.0640	0.0196	28565	2.01E-03	0.0196	0.0048	29019	7.95E-05	0.0160	0.0063	29036	1.73E-02	0.0174	0.0082	29035	4.76E-02
PSMA1	0.0011	0.0053	48785	9.39E-01	-0.0258	0.0092	27677	8.80E-03	-0.0003	0.0023	28109	9.00E-01	0.0016	0.0030	28125	6.56E-01	0.0008	0.0038	28124	8.68E-01
ATP5PO	-0.0010	0.0048	48799	9.39E-01	0.0126	0.0101	27661	2.72E-01	0.0047	0.0025	28098	7.69E-02	0.0059	0.0033	28115	9.98E-02	0.0049	0.0042	28114	2.99E-01
CADPS	-0.0010	0.0049	42343	9.39E-01	0.0126	0.0118	23314	3.54E-01	-0.0036	0.0029	23671	2.57E-01	-0.0033	0.0038	23685	4.48E-01	-0.0067	0.0049	23684	2.16E-01
LCAT	-0.0006	0.0027	43572	9.40E-01	0.2901	0.0210	24036	5.01E-42	0.1582	0.0051	24408	1.70E-207	0.1555	0.0067	24423	1.78E-114	0.1627	0.0087	24422	3.94E-76
LAMA4	-0.0008	0.0039	50189	9.40E-01	0.1300	0.0123	28442	4.73E-25	0.0145	0.0030	28888	3.03E-06	0.0174	0.0040	28904	2.54E-05	0.0170	0.0051	28903	1.52E-03
TMED4	0.0014	0.0064	42109	9.40E-01	-0.0151	0.0090	23248	1.29E-01	-0.0019	0.0022	23603	4.34E-01	-0.0011	0.0029	23617	7.59E-01	-0.0047	0.0037	23616	2.55E-01
SHC1	0.0028	0.0132	41982	9.40E-01	-0.0067	0.0044	23146	1.71E-01	-0.0010	0.0011	23506	3.87E-01	-0.0004	0.0014	23521	8.23E-01	-0.0005	0.0018	23520	8.09E-01
ARNT	-0.0009	0.0043	49043	9.42E-01	-0.0152	0.0115	27807	2.42E-01	0.0045	0.0028	28251	1.37E-01	0.0080	0.0037	28266	4.35E-02	0.0097	0.0048	28265	5.90E-02
DTX3	-0.0006	0.0028	49744	9.42E-01	0.1398	0.0174	28212	3.63E-15	-0.0150	0.0043	28661	6.73E-04	-0.0191	0.0056	28678	1.10E-03	0.0018	0.0072	28677	8.37E-01
SMOC1	0.0008	0.0039	50397	9.43E-01	0.1025	0.0124	28576	5.02E-16	0.0613	0.0030	29025	5.31E-90	0.0576	0.0040	29042	2.41E-46	0.1117	0.0051	29041	3.59E-104
MSRA	0.0017	0.0084	50125	9.43E-01	0.0852	0.0057	28423	1.25E-48	0.0193	0.0014	28868	4.42E-42	0.0199	0.0018	28885	2.70E-26	0.0200	0.0024	28884	1.83E-16
DUSP13	0.0010	0.0047	43331	9.43E-01	-0.0491	0.0118	23884	6.24E-05	0.0145	0.0029	24254	8.60E-07	0.0087	0.0038	24269	3.26E-02	0.0014	0.0049	24268	8.14E-01
SLC27A4	0.0016	0.0078	48799	9.43E-01	0.0587	0.0063	27661	5.75E-20	0.0134	0.0015	28098	1.11E-17	0.0138	0.0020	28115	3.29E-11	0.0172	0.0026	28114	1.29E-10
NMT1	0.0015	0.0075	43455	9.43E-01	0.0489	0.0074	23960	1.46E-10	0.0122	0.0018	24328	5.36E-11	0.0139	0.0024	24343	1.83E-08	0.0152	0.0031	24342	1.84E-06
ADCYAP1R1	0.0008	0.0040	48785	9.43E-01	0.0040	0.0121	27677	7.95E-01	0.0030	0.0030	28109	3.69E-01	0.0060	0.0039	28125	1.61E-01	0.0097	0.0050	28124	7.55E-02
BCAT1	0.0007	0.0035	43535	9.44E-01	0.1585	0.0163	24011	1.29E-21	0.0415	0.0040	24384	8.94E-25	0.0409	0.0053	24399	2.20E-14	0.0529	0.0068	24398	1.71E-14
CDNF	-0.0007	0.0037	49744	9.44E-01	-0.0328	0.0130	28212	1.91E-02	0.0197	0.0032	28661	1.08E-09	0.0289	0.0042	28678	1.22E-11	0.0314	0.0054	28677	1.23E-08
HPSE	-0.0022	0.0108	42967	9.44E-01	0.0878	0.0052	23786	3.26E-61	0.0145	0.0013	24159	1.15E-28	0.0159	0.0017	24174	3.58E-20	0.0174	0.0022	24173	7.09E-15
PDGFB	0.0020	0.0099	50189	9.44E-01	0.0908	0.0048	28442	2.79E-76	0.0108	0.0012	28888	2.65E-19	0.0132	0.0016	28904	9.99E-17	0.0108	0.0020	28903	1.90E-07
CDC37	0.0019	0.0097	50125	9.44E-01	0.0547	0.0050	28423	1.84E-27	0.0119	0.0012	28868	3.97E-22	0.0121	0.0016	28885	9.52E-14	0.0117	0.0021	28884	3.13E-08
LTA4H	0.0014	0.0069	50397	9.44E-01	0.0451	0.0069	28576	1.49E-10	-0.0015	0.0017	29025	4.28E-01	-0.0025	0.0022	29042	3.14E-01	-0.0036	0.0028	29041	2.60E-01
MB	0.0012	0.0061	50594	9.44E-01	0.0291	0.0078	28667	3.88E-04	-0.0079	0.0019	29116	6.86E-05	0.0072	0.0025	29132	6.47E-03	0.0034	0.0032	29131	3.54E-01
IFNAR1	-0.0006	0.0029	43346	9.44E-01	0.0550	0.0193	23893	7.63E-03	0.0121	0.0047	24266	1.55E-02	0.0040	0.0063	24281	5.86E-01	-0.0109	0.0080	24280	2.24E-01
UNC5D	-0.0006	0.0031	42274	9.44E-01	0.0248	0.0190	23352	2.48E-01	-0.0613	0.0047	23710	8.94E-39	-0.0751	0.0061	23723	2.14E-33	-0.0889	0.0079	23722	1.57E-28
NBN	0.0012	0.0063	49043	9.44E-01	0.0039	0.0080	27807	6.94E-01	0.0150	0.0020	28251	6.67E-14	0.0114	0.0026	28266	2.00E-05	0.0293	0.0033	28265	5.52E-18
IGFL4	0.0017	0.0085	42274	9.44E-01	-0.0010	0.0067	23352	9.10E-01	0.0003	0.0017	23710	8.91E-01	-0.0005	0.0022	23723	8.58E-01	0.0007	0.0028	23722	8.47E-01
CALCOCO2	0.0017	0.0089	42387	9.45E-01	0.0516	0.0064	23360	4.66E-15	0.0186	0.0016	23719	6.62E-31	0.0199	0.0021	23733	1.07E-20	0.0248	0.0027	23732	1.21E-19
CLPS	0.0016	0.0081	49900	9.45E-01	-0.0557	0.0059	28257	3.59E-20	0.0015	0.0015	28705	3.71E-01	-0.0004	0.0019	28722	8.67E-01	0.0032	0.0025	28721	2.52E-01
CD1C	0.0005	0.0028	50125	9.46E-01	-0.0477	0.0171	28423	9.05E-03	-0.0193	0.0042	28868	6.72E-06	-0.0158	0.0055	28885	6.39E-03	-0.0208	0.0071	28884	5.39E-03
NRXN3	0.0008	0.0040	42343	9.46E-01	-0.0158	0.0143	23314	3.38E-01	0.0013	0.0035	23671	7.50E-01	0.0056	0.0046	23685	2.78E-01	0.0037	0.0060	23684	5.99E-01
LYPD8	-0.0011	0.0059	48785	9.46E-01	-0.0054	0.0082	27677	5.85E-01	0.0088	0.0020	28109	2.24E-05	0.0090	0.0027	28125	1.29E-03	0.0160	0.0034	28124	5.71E-06
MAGEA3	-0.0019	0.0097	42740	9.46E-01	0.0022	0.0059	23551	7.73E-01	0.0006	0.0015	23912	7.22E-01	0.0001	0.0019	23927	9.81E-01	-0.0018	0.0025	23926	5.24E-01
F11	-0.0007	0.0035	42981	9.46E-01	0.1725	0.0159	23707	1.63E-26	0.0427	0.0039	24077	4.21E-27	0.0313	0.0052	24092	3.25E-09	0.0352	0.0066	24091	2.53E-07
CCL4	-0.0015	0.0076	50030	9.46E-01	0.0684	0.0064	28363	4.85E-26	0.0156	0.0016	28808	7.85E-23	0.0151	0.0021	28823	6.08E-13	0.0169	0.0026	28822	3.94E-10

METAP2	0.0013	0.0066	50324	9.46E-01	0.0749	0.0072	28528	8.12E-25	0.0198	0.0018	28976	4.90E-29	0.0201	0.0023	28993	9.71E-18	0.0213	0.0030	28992	2.37E-12
SPINK5	0.0007	0.0039	49982	9.46E-01	-0.0910	0.0124	28299	6.53E-13	-0.0395	0.0030	28747	4.18E-38	-0.0542	0.0040	28764	3.36E-41	-0.0693	0.0051	28763	1.27E-40
MAMDC4	-0.0012	0.0064	43331	9.46E-01	-0.0317	0.0088	23884	6.03E-04	0.0408	0.0021	24254	4.71E-79	0.0376	0.0028	24269	3.69E-39	0.0322	0.0036	24268	3.88E-18
YY1	0.0006	0.0032	42274	9.46E-01	-0.0384	0.0180	23352	5.05E-02	0.0018	0.0044	23710	7.29E-01	0.0033	0.0059	23723	6.29E-01	0.0077	0.0075	23722	3.70E-01
IFNL2	0.0014	0.0072	42120	9.46E-01	0.0039	0.0082	23217	7.00E-01	0.0024	0.0020	23575	2.84E-01	0.0030	0.0027	23590	3.08E-01	0.0025	0.0034	23589	5.36E-01
CNP	0.0017	0.0092	42309	9.47E-01	0.0520	0.0062	23330	1.99E-16	0.0118	0.0015	23689	2.76E-14	0.0125	0.0020	23703	1.36E-09	0.0147	0.0026	23702	2.94E-08
PDE1C	0.0012	0.0063	41982	9.47E-01	-0.0020	0.0093	23146	8.73E-01	0.0002	0.0023	23506	9.39E-01	0.0030	0.0030	23521	3.82E-01	0.0028	0.0039	23520	5.39E-01
KIAA0319	0.0007	0.0036	43426	9.48E-01	0.0337	0.0157	23934	4.93E-02	-0.0860	0.0038	24305	1.59E-109	-0.1108	0.0050	24320	1.45E-104	-0.1244	0.0065	24319	5.07E-80
SHMT1	-0.0019	0.0100	50106	9.48E-01	0.0424	0.0048	28399	4.67E-18	0.0192	0.0012	28844	4.15E-59	0.0191	0.0015	28860	6.64E-34	0.0209	0.0020	28859	4.93E-25
PDAP1	0.0020	0.0111	43535	9.48E-01	0.0588	0.0050	24011	6.27E-31	0.0120	0.0012	24384	3.97E-22	0.0138	0.0016	24399	4.70E-17	0.0129	0.0021	24398	1.31E-09
ALDH5A1	-0.0010	0.0054	43455	9.48E-01	0.0737	0.0105	23960	5.84E-12	0.0291	0.0025	24328	1.38E-29	0.0293	0.0034	24343	1.07E-17	0.0370	0.0043	24342	3.89E-17
CHCHD6	-0.0006	0.0033	43331	9.48E-01	0.1200	0.0170	23884	5.88E-12	0.0282	0.0042	24254	2.39E-11	0.0251	0.0055	24269	8.60E-06	0.0313	0.0070	24268	1.66E-05
PCDH12	0.0005	0.0029	43455	9.48E-01	-0.1221	0.0193	23960	7.77E-10	0.0130	0.0047	24328	8.89E-03	-0.0008	0.0062	24343	9.16E-01	-0.0087	0.0080	24342	3.36E-01
DAPK2	-0.0012	0.0064	42274	9.48E-01	0.0537	0.0093	23352	2.36E-08	0.0101	0.0023	23710	2.06E-05	0.0076	0.0030	23723	1.88E-02	0.0134	0.0039	23722	1.04E-03
FABP9	-0.0012	0.0065	49907	9.48E-01	0.0352	0.0075	28300	5.21E-06	-0.0192	0.0018	28746	3.11E-25	-0.0150	0.0024	28762	9.92E-10	-0.0142	0.0031	28761	8.19E-06
HDAC9	0.0013	0.0073	42120	9.48E-01	0.0166	0.0079	23217	5.20E-02	-0.0019	0.0019	23575	3.73E-01	-0.0046	0.0025	23590	9.40E-02	-0.0062	0.0033	23589	7.77E-02
DDX1	0.0011	0.0057	43346	9.48E-01	-0.0163	0.0098	23893	1.36E-01	0.0039	0.0024	24266	1.30E-01	0.0056	0.0032	24281	1.10E-01	0.0070	0.0041	24280	1.18E-01
FOLR1	-0.0006	0.0033	49898	9.48E-01	-0.0238	0.0144	28249	1.38E-01	-0.0591	0.0035	28692	1.35E-61	-0.0712	0.0046	28709	1.20E-51	-0.0706	0.0060	28708	3.77E-31
REG3G	-0.0008	0.0045	43331	9.48E-01	-0.0162	0.0124	23884	2.47E-01	0.0046	0.0030	24254	1.66E-01	0.0087	0.0040	24269	4.45E-02	0.0169	0.0052	24268	1.74E-03
SPINT3	-0.0030	0.0168	43346	9.48E-01	-0.0039	0.0034	23893	3.11E-01	-0.0011	0.0008	24266	2.18E-01	-0.0005	0.0011	24281	7.21E-01	-0.0004	0.0014	24280	8.32E-01
PPM1F	0.0011	0.0060	43535	9.49E-01	0.1074	0.0093	24011	4.44E-30	0.0193	0.0023	24384	4.44E-17	0.0222	0.0030	24399	3.92E-13	0.0174	0.0038	24398	1.28E-05
CLSPN	0.0007	0.0040	48717	9.50E-01	0.0178	0.0124	27608	2.01E-01	0.0092	0.0030	28044	3.64E-03	0.0080	0.0040	28061	6.45E-02	0.0057	0.0051	28060	3.29E-01
PDIA3	0.0005	0.0029	42580	9.50E-01	0.2340	0.0198	23496	3.68E-31	0.0181	0.0049	23858	3.55E-04	0.0126	0.0064	23871	7.04E-02	0.0222	0.0083	23870	1.14E-02
PTX3	0.0010	0.0058	49907	9.52E-01	0.1506	0.0084	28300	1.52E-69	-0.0347	0.0021	28746	3.84E-62	-0.0417	0.0027	28762	7.10E-52	-0.0483	0.0035	28761	2.05E-42
PDP1	-0.0010	0.0058	48785	9.52E-01	0.0488	0.0085	27677	2.23E-08	0.0124	0.0021	28109	5.34E-09	0.0160	0.0027	28125	1.17E-08	0.0166	0.0035	28124	5.14E-06
PSCA	0.0051	0.0294	43346	9.54E-01	-0.0027	0.0019	23893	2.10E-01	-0.0015	0.0005	24266	2.19E-03	-0.0014	0.0006	24281	4.01E-02	-0.0008	0.0008	24280	3.98E-01
DLL1	-0.0006	0.0035	50125	9.55E-01	0.1308	0.0138	28423	1.21E-20	-0.0260	0.0034	28868	3.22E-14	-0.0349	0.0044	28885	1.35E-14	-0.0209	0.0057	28884	4.62E-04
MRPL28	-0.0007	0.0042	43455	9.55E-01	-0.0001	0.0135	23960	9.94E-01	-0.0030	0.0033	24328	4.25E-01	-0.0053	0.0044	24343	2.82E-01	-0.0093	0.0056	24342	1.31E-01
NUDC	0.0012	0.0073	50529	9.55E-01	0.0796	0.0065	28636	1.19E-33	0.0206	0.0016	29090	1.02E-37	0.0204	0.0021	29107	1.04E-21	0.0213	0.0027	29106	9.47E-15
HDAC8	-0.0012	0.0070	42274	9.55E-01	0.0004	0.0082	23352	9.73E-01	0.0000	0.0020	23710	9.95E-01	0.0000	0.0027	23723	9.96E-01	-0.0008	0.0034	23722	8.57E-01
GRHPR	-0.0012	0.0073	43535	9.56E-01	0.0860	0.0076	24011	1.31E-28	0.0232	0.0019	24384	8.04E-35	0.0228	0.0025	24399	6.36E-20	0.0241	0.0032	24398	7.53E-14
SCGN	-0.0008	0.0051	49043	9.56E-01	-0.1111	0.0097	27807	1.25E-29	-0.0031	0.0024	28251	2.26E-01	0.0011	0.0031	28266	7.59E-01	0.0008	0.0040	28265	8.66E-01
LBR	-0.0013	0.0080	50415	9.56E-01	0.0547	0.0061	28544	1.39E-18	0.0181	0.0015	28996	4.18E-33	0.0152	0.0020	29013	2.71E-14	0.0257	0.0025	29012	1.42E-23
NTRK2	-0.0005	0.0030	49984	9.56E-01	-0.0851	0.0161	28340	3.12E-07	0.0408	0.0039	28785	1.11E-24	0.0292	0.0052	28801	3.54E-08	0.0327	0.0067	28800	1.91E-06
TNFRSF12A	0.0007	0.0041	50125	9.56E-01	0.0520	0.0115	28423	1.26E-05	0.0099	0.0028	28868	6.42E-04	-0.0003	0.0037	28885	9.42E-01	0.0043	0.0048	28884	4.28E-01
B3GAT3	-0.0004	0.0023	42109	9.56E-01	-0.0445	0.0249	23248	1.05E-01	-0.0129	0.0061	23603	4.74E-02	-0.0109	0.0081	23617	2.24E-01	-0.0247	0.0104	23616	2.57E-02
GP2	0.0016	0.0100	48421	9.56E-01	-0.0020	0.0050	27391	7.47E-01	-0.0057	0.0012	27822	5.94E-06	-0.0062	0.0016	27836	2.15E-04	-0.0043	0.0021	27835	5.53E-02
TOP1MT	0.0009	0.0056	41982	9.56E-01	-0.0006	0.0104	23146	9.68E-01	-0.0038	0.0026	23506	1.68E-01	-0.0072	0.0034	23521	4.62E-02	-0.0075	0.0043	23520	1.13E-01
RTN4IP1	0.0017	0.0105	43455	9.57E-01	0.0844	0.0054	23960	5.57E-54	0.0120	0.0013	24328	2.75E-19	0.0146	0.0017	24343	1.89E-16	0.0140	0.0022	24342	9.05E-10
CLNS1A	0.0006	0.0039	42343	9.57E-01	-0.0610	0.0150	23314	9.60E-05	-0.0334	0.0037	23671	3.09E-19	-0.0379	0.0048	23685	1.44E-14	-0.0343	0.0062	23684	8.37E-08
FAM171B	-0.0005	0.0031	43331	9.57E-01	0.0118	0.0182	23884	5.91E-01	-0.0151	0.0045	24254	1.10E-03	-0.0195	0.0059	24269	1.54E-03	-0.0221	0.0076	24268	5.50E-03
CEP290	0.0010	0.0060	42740	9.57E-01	0.0009	0.0095	23551	9.43E-01	0.0017	0.0023	23912	5.23E-01	0.0034	0.0031	23927	3.21E-01	0.0062	0.0039	23926	1.54E-01
MFAP3	0.0009	0.0056	49059	9.57E-01	-0.0032	0.0088	27799	7.77E-01	0.0046	0.0022	28234	4.31E-02	0.0042	0.0028	28248	1.84E-01	0.0079	0.0036	28247	4.38E-02

ATOX1	-0.0013	0.0083	50125	9.58E-01	0.0837	0.0058	28423	6.43E-46	0.0148	0.0014	28868	1.02E-24	0.0161	0.0019	28885	3.02E-17	0.0141	0.0024	28884	1.18E-08
PTPRK	-0.0004	0.0025	43346	9.58E-01	0.0584	0.0230	23893	1.78E-02	0.0370	0.0056	24266	1.08E-10	0.0173	0.0074	24281	2.93E-02	0.0348	0.0095	24280	4.60E-04
EPHB6	-0.0006	0.0036	49507	9.58E-01	0.0250	0.0133	28030	8.73E-02	-0.0511	0.0033	28473	2.25E-54	-0.0564	0.0043	28489	1.52E-38	-0.0537	0.0055	28488	1.21E-21
LRTM1	-0.0008	0.0047	42343	9.58E-01	0.0050	0.0122	23314	7.45E-01	-0.0053	0.0030	23671	9.95E-02	-0.0040	0.0039	23685	3.76E-01	-0.0038	0.0051	23684	5.16E-01
BGLAP	0.0017	0.0104	43537	9.58E-01	-0.0011	0.0054	24024	8.73E-01	-0.0049	0.0013	24398	4.19E-04	-0.0056	0.0018	24413	2.43E-03	-0.0025	0.0023	24412	3.32E-01
MORN4	0.0014	0.0090	41982	9.58E-01	-0.0007	0.0065	23146	9.33E-01	-0.0003	0.0016	23506	8.55E-01	0.0003	0.0021	23521	8.94E-01	0.0001	0.0027	23520	9.85E-01
AGR2	0.0018	0.0116	48409	9.58E-01	-0.0394	0.0043	27450	1.91E-19	0.0109	0.0011	27885	8.16E-25	0.0169	0.0014	27902	1.60E-33	0.0274	0.0018	27901	1.54E-52
KLF4	0.0007	0.0047	42120	9.58E-01	0.1069	0.0126	23217	9.65E-17	0.0089	0.0031	23575	5.67E-03	0.0034	0.0041	23590	4.62E-01	0.0188	0.0052	23589	5.95E-04
NAPRT	0.0006	0.0038	43426	9.58E-01	0.0326	0.0148	23934	4.25E-02	0.0033	0.0036	24305	4.09E-01	0.0042	0.0048	24320	4.36E-01	0.0053	0.0061	24319	4.55E-01
ATP6V1D	0.0005	0.0030	49744	9.58E-01	-0.0175	0.0163	28212	3.52E-01	-0.0029	0.0040	28661	5.13E-01	0.0002	0.0052	28678	9.80E-01	0.0007	0.0067	28677	9.28E-01
CCAR2	0.0010	0.0063	43426	9.58E-01	0.0008	0.0088	23934	9.43E-01	0.0021	0.0022	24305	3.74E-01	0.0025	0.0029	24320	4.51E-01	0.0042	0.0037	24319	3.14E-01
ACRV1	0.0013	0.0087	42274	9.58E-01	-0.0004	0.0066	23352	9.66E-01	-0.0024	0.0016	23710	1.76E-01	-0.0015	0.0021	23723	5.33E-01	-0.0040	0.0027	23722	1.89E-01
CACNA1H	-0.0010	0.0066	42109	9.58E-01	-0.0164	0.0088	23248	8.87E-02	-0.0058	0.0021	23603	9.26E-03	-0.0079	0.0028	23617	7.98E-03	-0.0090	0.0036	23616	1.98E-02
MPI	0.0015	0.0099	49744	9.59E-01	0.0650	0.0049	28212	4.55E-39	0.0145	0.0012	28661	3.10E-33	0.0161	0.0016	28678	7.87E-24	0.0129	0.0020	28677	5.32E-10
MCFD2	0.0008	0.0051	49750	9.59E-01	0.1119	0.0095	28195	6.25E-31	0.0301	0.0023	28638	2.06E-37	0.0315	0.0031	28653	4.19E-24	0.0396	0.0039	28652	5.05E-23
LY6D	-0.0007	0.0043	49697	9.59E-01	0.0696	0.0109	28155	5.35E-10	-0.0250	0.0027	28594	3.74E-20	-0.0266	0.0035	28609	1.45E-13	-0.0266	0.0045	28608	1.06E-08
LY75	-0.0007	0.0045	49907	9.59E-01	-0.0314	0.0108	28300	6.02E-03	0.0089	0.0026	28746	1.07E-03	-0.0005	0.0035	28762	9.17E-01	-0.0029	0.0045	28761	5.85E-01
KEL	0.0006	0.0042	48799	9.59E-01	-0.0242	0.0119	27661	6.18E-02	0.0035	0.0029	28098	2.78E-01	0.0011	0.0038	28115	8.14E-01	-0.0032	0.0049	28114	5.80E-01
BABAM1	0.0005	0.0033	42274	9.59E-01	-0.0010	0.0171	23352	9.65E-01	0.0118	0.0042	23710	7.35E-03	0.0118	0.0056	23723	4.92E-02	0.0134	0.0071	23722	8.32E-02
RECK	-0.0004	0.0024	42387	9.59E-01	0.1004	0.0241	23360	6.12E-05	-0.0396	0.0059	23719	5.08E-11	-0.0615	0.0078	23733	9.22E-15	-0.0732	0.0100	23732	8.49E-13
PPP1R14D	0.0006	0.0043	43455	9.59E-01	0.1745	0.0130	23960	5.82E-40	-0.0313	0.0032	24328	2.28E-22	-0.0286	0.0042	24343	2.46E-11	-0.0348	0.0054	24342	2.94E-10
ROR1	0.0005	0.0036	49984	9.59E-01	-0.0921	0.0132	28340	8.02E-12	-0.0564	0.0032	28785	5.48E-68	-0.0641	0.0042	28801	1.24E-50	-0.0631	0.0054	28800	3.13E-30
TFF1	0.0014	0.0092	49747	9.59E-01	0.0269	0.0052	28181	6.94E-07	-0.0064	0.0013	28629	1.21E-06	-0.0001	0.0017	28646	9.48E-01	0.0070	0.0022	28645	2.05E-03
MAPT	-0.0009	0.0060	48799	9.59E-01	0.0152	0.0081	27661	8.71E-02	0.0014	0.0020	28098	5.37E-01	0.0003	0.0026	28115	9.29E-01	0.0005	0.0034	28114	9.07E-01
REXO2	-0.0008	0.0056	42109	9.59E-01	-0.0013	0.0106	23248	9.26E-01	-0.0061	0.0026	23603	2.68E-02	-0.0039	0.0034	23617	3.17E-01	-0.0076	0.0044	23616	1.18E-01
COX5B	-0.0012	0.0080	49744	9.60E-01	0.1076	0.0060	28212	6.59E-69	0.0146	0.0015	28661	3.15E-22	0.0169	0.0020	28678	1.39E-17	0.0165	0.0025	28677	1.32E-10
LGALS4	-0.0009	0.0064	49941	9.60E-01	0.0858	0.0075	28321	4.69E-29	0.0171	0.0018	28766	6.68E-20	0.0198	0.0024	28782	9.59E-16	0.0256	0.0031	28781	7.70E-16
GJA8	-0.0010	0.0071	41982	9.60E-01	-0.0040	0.0082	23146	6.94E-01	-0.0020	0.0020	23506	3.78E-01	-0.0014	0.0027	23521	6.55E-01	-0.0016	0.0034	23520	6.96E-01
SPTBN2	-0.0005	0.0037	42120	9.60E-01	-0.0100	0.0158	23217	6.01E-01	0.0014	0.0039	23575	7.51E-01	0.0032	0.0051	23590	5.96E-01	0.0045	0.0066	23589	5.59E-01
EGFR	0.0003	0.0019	50594	9.61E-01	0.2216	0.0252	28667	7.65E-18	0.0446	0.0062	29116	1.20E-12	0.0224	0.0081	29132	9.20E-03	-0.0344	0.0105	29131	1.66E-03
GASK1A	0.0007	0.0050	42109	9.61E-01	-0.0200	0.0116	23248	1.20E-01	0.0450	0.0028	23603	8.08E-56	0.0507	0.0037	23617	1.06E-40	0.0501	0.0048	23616	1.20E-24
AHNAK2	-0.0005	0.0034	42387	9.61E-01	0.0143	0.0168	23360	4.68E-01	0.0062	0.0041	23719	1.68E-01	0.0129	0.0054	23733	2.63E-02	0.0202	0.0070	23732	6.30E-03
ATF2	-0.0011	0.0079	48799	9.61E-01	0.0050	0.0063	27661	4.98E-01	0.0026	0.0016	28098	1.22E-01	0.0004	0.0020	28115	8.67E-01	0.0011	0.0026	28114	7.34E-01
CALB1	-0.0007	0.0050	49744	9.61E-01	-0.0009	0.0096	28212	9.46E-01	-0.0470	0.0023	28661	1.39E-88	-0.0644	0.0031	28678	1.08E-95	-0.0694	0.0039	28677	1.87E-67
CD302	-0.0005	0.0036	49744	9.62E-01	0.1730	0.0133	28212	3.09E-37	0.0231	0.0033	28661	3.72E-12	0.0336	0.0043	28678	1.48E-14	0.0622	0.0055	28677	1.43E-28
CYB5R2	-0.0009	0.0065	42857	9.63E-01	0.0978	0.0088	23619	1.72E-27	0.0115	0.0022	23990	2.11E-07	0.0105	0.0029	24005	4.49E-04	0.0080	0.0037	24004	4.40E-02
MUC16	-0.0030	0.0217	49744	9.63E-01	0.0046	0.0022	28212	6.23E-02	-0.0006	0.0005	28661	3.54E-01	-0.0006	0.0007	28678	4.78E-01	-0.0001	0.0009	28677	9.03E-01
CEP350	0.0006	0.0042	41982	9.63E-01	0.0196	0.0138	23146	2.07E-01	-0.0038	0.0034	23506	3.06E-01	-0.0064	0.0045	23521	1.96E-01	-0.0099	0.0057	23520	1.15E-01
GFER	0.0010	0.0075	48785	9.65E-01	0.0892	0.0065	27677	3.32E-41	0.0315	0.0016	28109	6.82E-85	0.0363	0.0021	28125	2.85E-65	0.0411	0.0027	28124	6.69E-51
MED18	0.0012	0.0088	48785	9.65E-01	0.0741	0.0056	27677	4.15E-39	0.0157	0.0014	28109	1.08E-29	0.0165	0.0018	28125	2.52E-19	0.0154	0.0023	28124	8.65E-11
SERPINE1	-0.0010	0.0079	50594	9.65E-01	0.0796	0.0061	28667	9.10E-38	0.0195	0.0015	29116	1.49E-38	0.0205	0.0020	29132	6.58E-25	0.0174	0.0025	29131	1.70E-11
VTI1A	0.0009	0.0068	42580	9.65E-01	0.0855	0.0084	23496	2.38E-23	0.0211	0.0021	23858	8.49E-24	0.0233	0.0027	23871	6.22E-17	0.0290	0.0035	23870	5.40E-16
IL1RL1	-0.0007	0.0054	50433	9.65E-01	0.0775	0.0090	28587	2.51E-17	-0.0032	0.0022	29035	1.82E-01	-0.0091	0.0029	29050	2.69E-03	-0.0090	0.0037	29049	2.25E-02

ITGB7	0.0007	0.0053	50397	9.65E-01	-0.0733	0.0091	28576	2.15E-15	0.0013	0.0022	29025	5.99E-01	0.0008	0.0029	29042	8.16E-01	0.0061	0.0038	29041	1.36E-01
FSTL1	-0.0004	0.0026	42387	9.65E-01	0.1676	0.0219	23360	6.49E-14	-0.0385	0.0054	23719	2.02E-12	-0.0458	0.0071	23733	2.57E-10	-0.0214	0.0091	23732	2.83E-02
TRDMT1	0.0013	0.0097	42740	9.65E-01	0.0329	0.0057	23551	2.67E-08	0.0093	0.0014	23912	7.99E-11	0.0098	0.0019	23927	2.77E-07	0.0107	0.0024	23926	1.58E-05
OSCAR	-0.0005	0.0039	50024	9.65E-01	0.0695	0.0122	28363	3.28E-08	-0.0107	0.0030	28808	5.51E-04	-0.0127	0.0039	28824	2.12E-03	-0.0008	0.0051	28823	8.97E-01
SLAMF6	0.0006	0.0044	48785	9.65E-01	0.0567	0.0112	27677	9.64E-07	0.0222	0.0028	28109	1.60E-15	0.0252	0.0036	28125	9.06E-12	0.0359	0.0047	28124	3.84E-14
AHSP	0.0013	0.0100	49900	9.65E-01	-0.0223	0.0049	28257	1.36E-05	-0.0071	0.0012	28705	9.82E-09	-0.0102	0.0016	28722	3.59E-10	-0.0100	0.0020	28721	2.07E-06
NRN1	-0.0005	0.0041	43455	9.65E-01	-0.0379	0.0139	23960	1.05E-02	-0.0021	0.0034	24328	5.83E-01	0.0023	0.0045	24343	6.62E-01	0.0001	0.0057	24342	9.86E-01
SLC12A2	0.0004	0.0032	42109	9.65E-01	0.0171	0.0184	23248	4.28E-01	-0.0057	0.0045	23603	2.50E-01	-0.0026	0.0060	23617	7.21E-01	-0.0021	0.0077	23616	8.26E-01
IL15RA	-0.0005	0.0040	49043	9.65E-01	0.0091	0.0121	27807	5.29E-01	-0.0087	0.0030	28251	5.08E-03	-0.0168	0.0039	28266	3.14E-05	-0.0081	0.0050	28265	1.44E-01
FOSB	0.0006	0.0045	48799	9.65E-01	0.0063	0.0111	27661	6.42E-01	0.0056	0.0027	28098	5.16E-02	0.0062	0.0036	28115	1.12E-01	0.0112	0.0046	28114	2.22E-02
WDR46	0.0006	0.0042	43331	9.65E-01	0.0045	0.0136	23884	7.92E-01	0.0259	0.0033	24254	1.57E-14	0.0204	0.0044	24269	6.53E-06	0.0515	0.0056	24268	2.95E-19
F2R	0.0009	0.0066	50106	9.66E-01	0.1087	0.0072	28399	2.28E-49	0.0183	0.0018	28844	3.38E-24	0.0219	0.0023	28860	3.56E-20	0.0184	0.0030	28859	2.79E-09
DDX39A	0.0003	0.0026	42274	9.67E-01	-0.0131	0.0220	23352	6.23E-01	0.0007	0.0054	23710	9.10E-01	0.0024	0.0071	23723	7.80E-01	0.0067	0.0092	23722	5.34E-01
MAP3K5	0.0015	0.0116	48785	9.67E-01	0.0169	0.0042	27677	1.21E-04	0.0093	0.0010	28109	9.43E-19	0.0103	0.0014	28125	1.48E-13	0.0138	0.0018	28124	1.09E-14
LARP1	-0.0009	0.0073	43331	9.67E-01	0.0294	0.0078	23884	3.01E-04	0.0145	0.0019	24254	7.78E-14	0.0154	0.0025	24269	2.02E-09	0.0173	0.0032	24268	1.99E-07
MANEAL	-0.0007	0.0058	41982	9.67E-01	-0.0066	0.0100	23146	5.86E-01	0.0002	0.0025	23506	9.38E-01	-0.0034	0.0032	23521	3.49E-01	-0.0036	0.0042	23520	4.55E-01
CXCL3	0.0014	0.0109	49947	9.67E-01	0.0416	0.0045	28320	5.18E-20	0.0146	0.0011	28764	4.16E-40	0.0150	0.0014	28779	8.46E-25	0.0137	0.0018	28778	3.96E-13
PI3	-0.0008	0.0063	49327	9.67E-01	0.0689	0.0076	27904	8.90E-19	-0.0094	0.0019	28339	9.40E-07	-0.0110	0.0025	28353	1.55E-05	-0.0025	0.0032	28352	4.97E-01
NELL2	-0.0004	0.0034	50189	9.67E-01	-0.0539	0.0144	28442	3.67E-04	-0.0349	0.0035	28888	1.54E-22	-0.0613	0.0046	28904	7.50E-39	-0.0634	0.0060	28903	1.72E-25
CRISP3	-0.0004	0.0031	43177	9.67E-01	0.0131	0.0179	23834	5.38E-01	-0.0377	0.0044	24201	2.90E-17	-0.0412	0.0058	24216	3.51E-12	-0.0563	0.0075	24215	1.34E-13
GP6	-0.0012	0.0102	49900	9.68E-01	0.0745	0.0048	28257	1.89E-53	0.0097	0.0012	28705	2.43E-16	0.0114	0.0015	28722	4.79E-13	0.0066	0.0020	28721	1.46E-03
GLRX5	0.0012	0.0102	42580	9.68E-01	0.0859	0.0056	23496	1.85E-51	0.0102	0.0014	23858	2.73E-13	0.0124	0.0018	23871	2.11E-11	0.0116	0.0023	23870	1.61E-06
TST	-0.0011	0.0087	48718	9.68E-01	0.0775	0.0057	27594	3.70E-41	0.0120	0.0014	28031	2.97E-17	0.0116	0.0018	28048	6.78E-10	0.0082	0.0024	28047	9.46E-04
UBE2L6	0.0008	0.0071	43535	9.68E-01	0.1023	0.0079	24011	1.82E-37	0.0162	0.0019	24384	1.29E-16	0.0179	0.0025	24399	5.20E-12	0.0195	0.0033	24398	5.71E-09
VAMP8	0.0012	0.0101	42274	9.68E-01	0.0614	0.0057	23352	1.40E-26	0.0181	0.0014	23710	7.74E-38	0.0191	0.0018	23723	1.32E-24	0.0210	0.0024	23722	2.56E-18
FGF9	-0.0006	0.0047	41908	9.68E-01	0.0730	0.0125	23101	1.50E-08	-0.0011	0.0031	23461	7.55E-01	0.0011	0.0041	23476	8.26E-01	-0.0003	0.0052	23475	9.63E-01
TIMM8A	0.0012	0.0099	43426	9.68E-01	0.0281	0.0057	23934	1.63E-06	0.0193	0.0014	24305	4.44E-43	0.0258	0.0018	24320	2.94E-44	0.0284	0.0023	24319	1.03E-32
IL12RB1	0.0005	0.0043	49043	9.68E-01	0.0382	0.0113	27807	1.33E-03	0.0172	0.0028	28251	8.23E-10	0.0150	0.0036	28266	6.34E-05	0.0296	0.0047	28265	5.66E-10
DNAJA4	-0.0010	0.0083	43426	9.68E-01	-0.0129	0.0069	23934	9.12E-02	-0.0215	0.0017	24305	2.06E-36	-0.0274	0.0022	24320	8.34E-34	-0.0250	0.0029	24319	9.96E-18
NGF	-0.0002	0.0014	49589	9.68E-01	0.0344	0.0349	28083	3.95E-01	-0.0175	0.0086	28527	5.40E-02	-0.0209	0.0112	28543	8.64E-02	-0.0260	0.0145	28542	9.81E-02
ITGAX	-0.0007	0.0060	42740	9.68E-01	0.0023	0.0093	23551	8.52E-01	-0.0031	0.0023	23912	2.16E-01	-0.0061	0.0030	23927	6.08E-02	-0.0055	0.0039	23926	2.06E-01
IL13	-0.0007	0.0056	49043	9.69E-01	0.0066	0.0089	27807	5.33E-01	-0.0020	0.0022	28251	4.10E-01	-0.0018	0.0029	28266	5.94E-01	-0.0040	0.0037	28265	3.40E-01
ADGRE2	-0.0004	0.0033	50189	9.69E-01	-0.1039	0.0145	28442	2.93E-12	0.0121	0.0036	28888	1.06E-03	-0.0088	0.0047	28904	8.49E-02	-0.0080	0.0060	28903	2.31E-01
NINJ1	0.0007	0.0064	48785	9.70E-01	0.0342	0.0077	27677	2.04E-05	0.0011	0.0019	28109	6.28E-01	-0.0010	0.0025	28125	7.43E-01	0.0019	0.0032	28124	6.28E-01
RAC3	-0.0009	0.0078	42343	9.70E-01	0.0013	0.0073	23314	8.94E-01	0.0003	0.0018	23671	8.93E-01	-0.0009	0.0024	23685	7.48E-01	0.0011	0.0030	23684	7.69E-01
ALCAM	-0.0002	0.0022	50594	9.72E-01	-0.0084	0.0213	28667	7.54E-01	-0.0151	0.0052	29116	5.27E-03	-0.0383	0.0068	29132	4.05E-08	-0.0411	0.0088	29131	5.44E-06
MMP15	-0.0006	0.0056	43535	9.72E-01	0.0027	0.0100	24011	8.36E-01	-0.0006	0.0025	24384	8.50E-01	0.0000	0.0032	24399	9.95E-01	-0.0001	0.0042	24398	9.92E-01
CD84	0.0004	0.0036	49907	9.74E-01	0.1831	0.0134	28300	4.02E-41	0.0253	0.0033	28746	3.64E-14	0.0411	0.0043	28762	8.21E-21	0.0189	0.0056	28761	1.19E-03
STK4	0.0011	0.0100	49984	9.74E-01	0.0500	0.0048	28340	3.40E-24	0.0115	0.0012	28785	7.43E-22	0.0128	0.0016	28801	7.28E-16	0.0113	0.0020	28800	3.52E-08
KLK4	0.0008	0.0072	50397	9.74E-01	0.0488	0.0066	28576	6.61E-13	-0.0218	0.0016	29025	3.23E-40	-0.0268	0.0021	29042	2.98E-35	-0.0206	0.0027	29041	2.36E-13
CD6	0.0007	0.0062	50446	9.74E-01	-0.0229	0.0077	28610	5.15E-03	0.0308	0.0019	29064	1.27E-58	0.0332	0.0025	29081	1.39E-39	0.0454	0.0032	29080	1.46E-44
ATP6AP2	0.0005	0.0047	48785	9.74E-01	0.0177	0.0105	27677	1.30E-01	0.0198	0.0026	28109	5.01E-14	0.0195	0.0034	28125	2.32E-08	0.0272	0.0044	28124	1.44E-09
CTLA4	0.0004	0.0034	43537	9.74E-01	-0.0062	0.0165	24024	7.65E-01	-0.0030	0.0041	24398	5.13E-01	-0.0033	0.0054	24413	5.95E-01	-0.0017	0.0069	24412	8.39E-01

SPRR1B	-0.0010	0.0097	42740	9.74E-01	-0.0019	0.0058	23551	7.98E-01	0.0007	0.0014	23912	6.56E-01	0.0029	0.0019	23927	1.65E-01	0.0033	0.0024	23926	2.27E-01
INSL3	-0.0009	0.0085	43426	9.74E-01	-0.0023	0.0066	23934	7.81E-01	0.0000	0.0016	24305	9.87E-01	0.0015	0.0021	24320	5.58E-01	0.0013	0.0027	24319	6.80E-01
MINDY1	0.0013	0.0124	43331	9.76E-01	0.0391	0.0045	23884	2.43E-17	0.0117	0.0011	24254	1.30E-25	0.0133	0.0015	24269	3.67E-19	0.0144	0.0019	24268	7.09E-14
ATP5IF1	0.0013	0.0127	50189	9.76E-01	0.0582	0.0038	28442	4.38E-52	0.0132	0.0009	28888	5.67E-45	0.0136	0.0012	28904	4.54E-28	0.0140	0.0016	28903	1.99E-18
CES2	0.0006	0.0065	49744	9.76E-01	0.0856	0.0075	28212	5.90E-29	0.0251	0.0018	28661	1.20E-41	0.0205	0.0024	28678	8.14E-17	0.0220	0.0031	28677	4.69E-12
GH1	0.0021	0.0209	49910	9.76E-01	0.0210	0.0023	28300	7.44E-19	-0.0164	0.0006	28742	5.75E-183	-0.0189	0.0007	28758	2.96E-140	-0.0233	0.0010	28757	2.00E-128
ITGB5	0.0004	0.0043	50125	9.76E-01	0.0601	0.0111	28423	1.40E-07	0.0045	0.0027	28868	1.29E-01	0.0050	0.0036	28885	2.06E-01	-0.0004	0.0046	28884	9.50E-01
SPINK4	-0.0007	0.0075	49907	9.76E-01	-0.0048	0.0064	28300	5.23E-01	0.0048	0.0016	28746	2.99E-03	0.0079	0.0021	28762	1.97E-04	0.0212	0.0026	28761	3.11E-15
CLPP	-0.0011	0.0111	49507	9.76E-01	0.0580	0.0044	28030	1.75E-38	0.0113	0.0011	28473	3.77E-25	0.0126	0.0014	28489	2.16E-18	0.0127	0.0018	28488	9.15E-12
VEGFA	0.0006	0.0068	50369	9.76E-01	0.0705	0.0071	28538	1.18E-22	0.0262	0.0017	28990	1.25E-50	0.0289	0.0023	29006	8.47E-36	0.0399	0.0029	29005	6.23E-41
SULT1A1	-0.0014	0.0149	50415	9.76E-01	0.0232	0.0032	28544	2.03E-12	0.0026	0.0008	28996	1.39E-03	0.0030	0.0010	29013	6.19E-03	-0.0004	0.0013	29012	8.20E-01
CLEC14A	-0.0004	0.0036	49982	9.76E-01	0.0546	0.0131	28299	6.78E-05	-0.0273	0.0032	28747	5.61E-17	-0.0256	0.0042	28764	3.41E-09	-0.0145	0.0055	28763	1.21E-02
CST6	0.0005	0.0056	48681	9.76E-01	0.0358	0.0088	27722	9.69E-05	-0.0230	0.0021	28161	3.38E-26	-0.0208	0.0028	28175	5.11E-13	-0.0128	0.0036	28174	7.67E-04
DIPK1C	0.0005	0.0048	42343	9.76E-01	-0.0248	0.0120	23314	5.80E-02	-0.0007	0.0029	23671	8.52E-01	0.0015	0.0039	23685	7.53E-01	-0.0005	0.0050	23684	9.35E-01
IDS	-0.0001	0.0010	50529	9.76E-01	0.0816	0.0466	28636	1.15E-01	-0.0904	0.0114	29090	6.89E-15	-0.1061	0.0150	29107	4.74E-12	-0.1514	0.0193	29106	1.71E-14
PFDN6	0.0007	0.0075	42343	9.76E-01	-0.0124	0.0077	23314	1.51E-01	0.0002	0.0019	23671	9.24E-01	0.0008	0.0025	23685	7.95E-01	0.0023	0.0032	23684	5.40E-01
MICB_MICA	0.0016	0.0173	49907	9.76E-01	0.0036	0.0028	28300	2.58E-01	0.0022	0.0007	28746	2.21E-03	0.0024	0.0009	28762	1.31E-02	0.0026	0.0012	28761	3.94E-02
DNLZ	-0.0010	0.0102	42120	9.76E-01	0.0047	0.0056	23217	4.77E-01	0.0004	0.0014	23575	8.28E-01	0.0003	0.0018	23590	8.98E-01	-0.0017	0.0023	23589	5.47E-01
CPOX	0.0003	0.0031	42274	9.76E-01	0.0048	0.0180	23352	8.37E-01	-0.0008	0.0044	23710	8.83E-01	0.0019	0.0058	23723	7.83E-01	-0.0086	0.0075	23722	3.09E-01
BST1	0.0005	0.0053	50415	9.76E-01	0.0022	0.0089	28544	8.45E-01	-0.0004	0.0022	28996	8.91E-01	-0.0031	0.0029	29013	3.39E-01	-0.0065	0.0037	29012	1.07E-01
CEMIP2	-0.0004	0.0038	42274	9.76E-01	0.0023	0.0151	23352	9.10E-01	0.0489	0.0037	23710	6.26E-39	0.0410	0.0049	23723	1.70E-16	0.0529	0.0063	23722	1.46E-16
PKD1	-0.0003	0.0030	43535	9.77E-01	-0.1657	0.0185	24011	1.87E-18	0.0023	0.0045	24384	6.61E-01	-0.0219	0.0060	24399	4.15E-04	-0.0239	0.0077	24398	3.01E-03
NARS1	-0.0005	0.0054	43455	9.77E-01	0.0837	0.0104	23960	2.96E-15	0.0312	0.0025	24328	7.04E-34	0.0342	0.0034	24343	9.82E-24	0.0343	0.0043	24342	6.40E-15
MSMB	0.0008	0.0082	49859	9.77E-01	0.0249	0.0059	28174	5.25E-05	-0.0186	0.0014	28617	4.09E-37	-0.0172	0.0019	28630	6.64E-19	-0.0183	0.0024	28630	2.02E-13
NAMPT	-0.0006	0.0062	48785	9.77E-01	0.0318	0.0082	27677	2.23E-04	0.0105	0.0020	28109	3.62E-07	0.0080	0.0027	28125	4.50E-03	0.0183	0.0034	28124	1.93E-07
PSMD5	0.0006	0.0063	42343	9.77E-01	-0.0216	0.0091	23314	2.84E-02	-0.0040	0.0022	23671	9.34E-02	-0.0037	0.0030	23685	2.62E-01	-0.0048	0.0038	23684	2.55E-01
CLASP1	-0.0008	0.0083	41982	9.77E-01	0.0051	0.0070	23146	5.39E-01	0.0060	0.0017	23506	7.55E-04	0.0074	0.0023	23521	1.69E-03	0.0072	0.0029	23520	1.99E-02
BHLHE40	0.0008	0.0081	42120	9.77E-01	-0.0039	0.0072	23217	6.63E-01	-0.0007	0.0018	23575	7.27E-01	-0.0011	0.0023	23590	6.89E-01	-0.0015	0.0030	23589	6.79E-01
KCNH2	-0.0008	0.0087	42343	9.77E-01	-0.0020	0.0065	23314	8.07E-01	0.0004	0.0016	23671	8.54E-01	-0.0005	0.0021	23685	8.28E-01	-0.0007	0.0027	23684	8.24E-01
SAG	0.0005	0.0059	42120	9.77E-01	-0.0010	0.0096	23217	9.40E-01	-0.0054	0.0024	23575	3.16E-02	-0.0056	0.0031	23590	9.90E-02	-0.0097	0.0040	23589	2.39E-02
DSCAM	0.0004	0.0041	43455	9.77E-01	-0.0516	0.0137	23960	3.37E-04	0.0368	0.0034	24328	2.29E-27	0.0279	0.0044	24343	7.15E-10	0.0355	0.0057	24342	1.13E-09
CCL15	-0.0005	0.0051	50594	9.77E-01	-0.0160	0.0093	28667	1.20E-01	0.0328	0.0023	29116	2.75E-46	0.0290	0.0030	29132	1.29E-21	0.0619	0.0038	29131	3.48E-57
FGF12	0.0005	0.0053	42274	9.78E-01	-0.0219	0.0108	23352	6.30E-02	-0.0070	0.0027	23710	1.16E-02	-0.0080	0.0035	23723	3.18E-02	-0.0107	0.0045	23722	2.62E-02
LYZL2	0.0004	0.0041	41982	9.78E-01	0.0166	0.0142	23146	3.07E-01	0.0093	0.0035	23506	1.09E-02	0.0101	0.0046	23521	3.94E-02	0.0042	0.0059	23520	5.45E-01
MUCL3	-0.0004	0.0050	41982	9.78E-01	0.0012	0.0116	23146	9.36E-01	0.0009	0.0029	23506	7.96E-01	0.0011	0.0038	23521	8.02E-01	0.0027	0.0048	23520	6.42E-01
ENO1	-0.0008	0.0091	49917	9.79E-01	0.0428	0.0053	28255	2.36E-15	0.0063	0.0013	28699	2.35E-06	0.0064	0.0017	28716	2.99E-04	0.0024	0.0022	28715	3.45E-01
HAGH	-0.0007	0.0085	50251	9.79E-01	-0.0103	0.0058	28487	1.08E-01	-0.0199	0.0014	28934	2.98E-44	-0.0216	0.0019	28951	1.54E-30	-0.0274	0.0024	28950	1.42E-29
BDNF	0.0008	0.0095	43537	9.80E-01	0.0885	0.0059	24024	3.29E-49	0.0059	0.0015	24398	8.03E-05	0.0106	0.0019	24413	5.97E-08	0.0069	0.0025	24412	7.92E-03
CD46	0.0003	0.0033	49689	9.80E-01	0.1325	0.0145	28202	3.72E-19	0.0129	0.0036	28638	4.51E-04	0.0161	0.0047	28653	1.01E-03	0.0188	0.0060	28652	2.96E-03
SCRG1	-0.0003	0.0031	43535	9.80E-01	0.0400	0.0178	24011	3.86E-02	0.0095	0.0044	24384	4.03E-02	0.0082	0.0058	24399	1.99E-01	0.0154	0.0074	24398	5.26E-02
SLC34A3	0.0005	0.0056	41982	9.80E-01	0.0188	0.0103	23146	9.70E-02	-0.0015	0.0025	23506	6.07E-01	-0.0003	0.0033	23521	9.36E-01	0.0014	0.0043	23520	7.90E-01
EP300	-0.0003	0.0035	42274	9.80E-01	0.0445	0.0167	23352	1.28E-02	0.0056	0.0041	23710	2.10E-01	0.0060	0.0054	23723	3.22E-01	0.0110	0.0070	23722	1.49E-01
CCDC50	0.0007	0.0087	43455	9.80E-01	0.0249	0.0065	23960	2.30E-04	-0.0037	0.0016	24328	2.63E-02	-0.0038	0.0021	24343	9.13E-02	-0.0064	0.0027	24342	2.58E-02

SH3BGL2	0.0006	0.0070	42120	9.80E-01	0.0254	0.0082	23217	3.62E-03	0.0063	0.0020	23575	2.90E-03	0.0097	0.0027	23590	4.73E-04	0.0060	0.0034	23589	1.11E-01
OSTN	-0.0004	0.0047	42343	9.80E-01	-0.0184	0.0121	23314	1.75E-01	0.0071	0.0030	23671	2.43E-02	0.0083	0.0039	23685	5.03E-02	0.0092	0.0050	23684	9.49E-02
STX1B	-0.0004	0.0048	42343	9.80E-01	0.0112	0.0121	23314	4.30E-01	-0.0029	0.0030	23671	3.90E-01	-0.0044	0.0039	23685	3.20E-01	-0.0031	0.0050	23684	6.04E-01
CACNB1	-0.0005	0.0068	42120	9.80E-01	0.0046	0.0085	23217	6.62E-01	-0.0019	0.0021	23575	4.28E-01	0.0028	0.0028	23590	3.78E-01	0.0014	0.0035	23589	7.34E-01
ACOT13	0.0010	0.0130	43346	9.81E-01	0.0672	0.0043	23893	6.14E-53	0.0090	0.0011	24266	7.94E-17	0.0111	0.0014	24281	7.05E-15	0.0106	0.0018	24280	8.05E-09
CA13	-0.0009	0.0120	49431	9.81E-01	0.0539	0.0041	27988	5.26E-39	0.0112	0.0010	28428	6.72E-29	0.0125	0.0013	28444	4.37E-21	0.0105	0.0017	28443	1.02E-09
CD36	0.0004	0.0053	42274	9.82E-01	0.1141	0.0109	23352	1.27E-24	0.0320	0.0027	23710	6.61E-32	0.0358	0.0036	23723	3.53E-23	0.0402	0.0046	23722	6.03E-18
PLA2G1B	0.0004	0.0050	50511	9.82E-01	-0.0117	0.0095	28635	2.75E-01	-0.0359	0.0023	29084	1.64E-53	-0.0340	0.0030	29100	2.45E-28	-0.0451	0.0039	29099	6.27E-30
FH	0.0007	0.0096	42120	9.82E-01	-0.0064	0.0061	23217	3.63E-01	0.0015	0.0015	23575	3.71E-01	0.0012	0.0020	23590	5.92E-01	0.0028	0.0025	23589	3.28E-01
HMBS	0.0004	0.0050	50397	9.82E-01	-0.0434	0.0096	28576	1.30E-05	-0.0226	0.0023	29025	1.78E-21	-0.0314	0.0031	29042	1.24E-23	-0.0338	0.0040	29041	6.54E-17
ZBP1	0.0003	0.0047	42274	9.82E-01	0.0380	0.0123	23352	3.66E-03	0.0130	0.0030	23710	3.40E-05	0.0143	0.0040	23723	6.75E-04	0.0320	0.0052	23722	1.37E-09
HIP1	-0.0003	0.0039	42109	9.82E-01	-0.0028	0.0152	23248	8.90E-01	-0.0028	0.0037	23603	5.07E-01	-0.0040	0.0049	23617	4.79E-01	-0.0033	0.0063	23616	6.59E-01
CSDE1	-0.0010	0.0138	42109	9.83E-01	0.0106	0.0043	23248	2.13E-02	0.0074	0.0010	23603	3.43E-12	0.0094	0.0014	23617	1.82E-11	0.0094	0.0018	23616	2.75E-07
MANF	0.0010	0.0138	50189	9.83E-01	0.0522	0.0035	28442	2.28E-49	0.0104	0.0009	28888	1.18E-33	0.0109	0.0011	28904	9.73E-22	0.0094	0.0014	28903	2.45E-10
CTSV	0.0003	0.0048	50230	9.83E-01	0.0983	0.0101	28471	8.15E-22	-0.0021	0.0025	28918	4.52E-01	-0.0057	0.0032	28935	1.03E-01	-0.0132	0.0042	28934	2.57E-03
HDGFL2	0.0005	0.0074	43426	9.83E-01	0.0475	0.0077	23934	1.59E-09	0.0246	0.0019	24305	2.13E-38	0.0236	0.0025	24320	7.10E-21	0.0341	0.0032	24319	5.78E-26
GOT1	-0.0003	0.0048	43537	9.83E-01	0.0601	0.0118	24024	8.04E-07	0.0040	0.0029	24398	2.08E-01	-0.0025	0.0038	24413	5.79E-01	-0.0043	0.0049	24412	4.40E-01
SCN2A	0.0004	0.0055	42120	9.83E-01	0.0160	0.0104	23217	1.67E-01	-0.0008	0.0025	23575	8.00E-01	-0.0019	0.0034	23590	6.30E-01	-0.0031	0.0043	23589	5.44E-01
AKR1C4	-0.0004	0.0061	49059	9.83E-01	-0.0100	0.0081	27799	2.72E-01	0.0130	0.0020	28234	9.42E-11	0.0110	0.0026	28248	4.16E-05	0.0151	0.0033	28247	1.21E-05
VWEC2	0.0003	0.0046	49423	9.83E-01	0.0117	0.0104	27983	3.29E-01	-0.0028	0.0026	28424	3.22E-01	-0.0056	0.0034	28440	1.30E-01	0.0012	0.0043	28439	8.26E-01
ABO	-0.0011	0.0164	43572	9.83E-01	-0.0029	0.0034	24036	4.62E-01	0.0008	0.0008	24408	3.68E-01	0.0005	0.0011	24423	7.24E-01	0.0024	0.0014	24422	1.26E-01
GH2	-0.0012	0.0191	48785	9.85E-01	-0.0039	0.0026	27677	1.85E-01	0.0004	0.0006	28109	5.97E-01	-0.0001	0.0008	28125	8.94E-01	-0.0001	0.0011	28124	9.37E-01
TFF2	0.0004	0.0069	50106	9.86E-01	0.0251	0.0070	28399	6.34E-04	-0.0104	0.0017	28844	2.30E-09	-0.0089	0.0023	28860	1.42E-04	-0.0060	0.0029	28859	5.45E-02
CHIT1	-0.0011	0.0178	50190	9.86E-01	0.0040	0.0027	28440	1.93E-01	-0.0029	0.0007	28883	1.95E-05	-0.0024	0.0009	28897	9.37E-03	-0.0025	0.0011	28896	3.70E-02
MYLPF	-0.0003	0.0056	42343	9.86E-01	0.0749	0.0104	23314	1.71E-12	-0.0020	0.0025	23671	4.76E-01	0.0044	0.0034	23685	2.38E-01	0.0092	0.0043	23684	4.73E-02
BID	0.0005	0.0079	49907	9.87E-01	0.0893	0.0062	28300	1.12E-45	0.0203	0.0015	28746	8.09E-40	0.0226	0.0020	28762	9.71E-29	0.0226	0.0026	28761	6.03E-18
SORBS1	-0.0003	0.0045	43455	9.87E-01	0.0596	0.0123	23960	2.79E-06	0.0198	0.0030	24328	1.28E-10	0.0204	0.0040	24343	6.26E-07	0.0349	0.0051	24342	2.62E-11
FCGR3B	0.0003	0.0057	50020	9.87E-01	0.0168	0.0085	28371	7.12E-02	-0.0047	0.0021	28815	3.38E-02	-0.0059	0.0027	28830	4.49E-02	-0.0055	0.0035	28829	1.52E-01
ZNF174	0.0003	0.0043	42274	9.87E-01	-0.0116	0.0133	23352	4.57E-01	-0.0025	0.0033	23710	5.01E-01	-0.0020	0.0043	23723	7.03E-01	0.0023	0.0056	23722	7.29E-01
TMED1	0.0004	0.0062	42740	9.87E-01	0.0009	0.0093	23551	9.45E-01	-0.0015	0.0023	23912	5.73E-01	-0.0023	0.0030	23927	5.19E-01	-0.0023	0.0039	23926	6.21E-01
MYBPC2	-0.0006	0.0097	42387	9.87E-01	0.0309	0.0059	23360	4.09E-07	0.0016	0.0015	23719	3.12E-01	0.0052	0.0019	23733	1.13E-02	0.0091	0.0025	23732	4.46E-04
NFATC3	0.0004	0.0069	49043	9.87E-01	0.0151	0.0072	27807	5.45E-02	0.0204	0.0017	28251	6.50E-31	0.0213	0.0023	28266	5.39E-20	0.0236	0.0029	28265	4.77E-15
TP53	-0.0003	0.0050	48785	9.88E-01	0.0243	0.0098	27677	2.10E-02	0.0308	0.0024	28109	6.91E-37	0.0329	0.0032	28125	1.42E-24	0.0417	0.0041	28124	6.01E-24
CDKN2D	-0.0006	0.0109	49744	9.88E-01	0.0544	0.0045	28212	4.40E-33	0.0122	0.0011	28661	2.52E-28	0.0127	0.0014	28678	3.50E-18	0.0106	0.0018	28677	2.67E-08
TEK	-0.0001	0.0025	50125	9.88E-01	0.1389	0.0191	28423	1.24E-12	0.0284	0.0047	28868	2.83E-09	0.0176	0.0062	28885	6.92E-03	0.0285	0.0079	28884	5.76E-04
SOX2	0.0002	0.0027	43372	9.88E-01	0.0266	0.0208	23919	2.58E-01	-0.0090	0.0051	24287	9.89E-02	-0.0106	0.0067	24302	1.49E-01	-0.0128	0.0086	24301	1.78E-01
NLGN1	0.0004	0.0078	42343	9.88E-01	-0.0057	0.0074	23314	5.13E-01	-0.0010	0.0018	23671	6.20E-01	-0.0012	0.0024	23685	6.72E-01	-0.0014	0.0031	23684	6.95E-01
TEF	-0.0003	0.0049	42109	9.88E-01	0.0259	0.0119	23248	4.48E-02	0.0022	0.0029	23603	5.04E-01	0.0024	0.0038	23617	5.95E-01	-0.0038	0.0049	23616	5.12E-01
MPIG6B	0.0005	0.0088	50106	9.89E-01	0.0710	0.0055	28399	2.11E-37	0.0145	0.0013	28844	8.74E-27	0.0168	0.0018	28860	9.32E-21	0.0134	0.0023	28859	9.48E-09
GPNMB	0.0002	0.0033	48626	9.89E-01	-0.0477	0.0151	27627	2.73E-03	-0.0008	0.0037	28058	8.55E-01	-0.0176	0.0048	28071	4.96E-04	-0.0151	0.0062	28070	2.35E-02
VEGFC	0.0003	0.0064	50125	9.89E-01	0.1322	0.0075	28423	8.04E-68	0.0218	0.0018	28868	1.49E-31	0.0254	0.0024	28885	4.83E-25	0.0244	0.0031	28884	1.65E-14
MATN2	0.0002	0.0034	50024	9.89E-01	-0.1739	0.0140	28363	3.15E-34	0.0491	0.0034	28808	1.53E-45	0.0413	0.0045	28824	2.49E-19	0.0824	0.0058	28823	1.46E-44
ACRBP	0.0002	0.0044	43331	9.89E-01	0.1090	0.0127	23884	3.61E-17	0.0274	0.0031	24254	3.91E-18	0.0298	0.0041	24269	1.11E-12	0.0307	0.0053	24268	1.43E-08

ATXN2	-0.0006	0.0126	42120	9.89E-01	0.0110	0.0046	23217	2.64E-02	0.0050	0.0011	23575	1.41E-05	0.0052	0.0015	23590	7.88E-04	0.0056	0.0019	23589	5.53E-03
TPSG1	-0.0002	0.0031	42274	9.89E-01	-0.0313	0.0189	23352	1.37E-01	0.0023	0.0047	23710	6.64E-01	0.0013	0.0061	23723	8.67E-01	-0.0046	0.0079	23722	6.23E-01
PTPN9	-0.0002	0.0044	42197	9.89E-01	-0.0156	0.0131	23297	2.97E-01	-0.0030	0.0032	23654	4.00E-01	-0.0050	0.0043	23667	2.99E-01	-0.0085	0.0055	23666	1.60E-01
BGN	0.0007	0.0138	48703	9.90E-01	-0.1011	0.0035	27631	1.55E-177	0.0000	0.0009	28062	9.88E-01	-0.0028	0.0012	28078	2.36E-02	0.0017	0.0015	28077	3.08E-01
ANXA10	-0.0005	0.0095	48799	9.90E-01	0.0044	0.0052	27661	4.71E-01	-0.0056	0.0013	28098	2.27E-05	-0.0049	0.0017	28115	5.76E-03	0.0033	0.0022	28114	1.61E-01
PHLDB1	-0.0003	0.0062	43346	9.90E-01	0.0615	0.0090	23893	2.62E-11	0.0246	0.0022	24266	2.80E-28	0.0247	0.0029	24281	7.33E-17	0.0333	0.0037	24280	2.44E-18
IL12RB2	-0.0002	0.0048	42274	9.90E-01	-0.0281	0.0120	23352	3.07E-02	-0.0063	0.0030	23710	4.53E-02	-0.0085	0.0039	23723	4.44E-02	-0.0117	0.0050	23722	3.08E-02
DEFB116	-0.0004	0.0086	42120	9.90E-01	0.0144	0.0066	23217	4.51E-02	-0.0029	0.0016	23575	9.69E-02	-0.0028	0.0021	23590	2.44E-01	-0.0031	0.0027	23589	3.14E-01
CD200R1	0.0002	0.0040	49743	9.90E-01	-0.0247	0.0120	28213	6.06E-02	0.0154	0.0029	28657	3.27E-07	0.0137	0.0039	28673	7.28E-04	0.0156	0.0050	28672	2.88E-03
IGHMBP2	-0.0003	0.0065	42109	9.90E-01	0.0094	0.0091	23248	3.72E-01	0.0115	0.0022	23603	4.90E-07	0.0125	0.0029	23617	4.15E-05	0.0130	0.0038	23616	9.96E-04
TRIAP1	-0.0003	0.0073	50397	9.90E-01	0.1263	0.0065	28576	6.11E-81	0.0186	0.0016	29025	2.18E-30	0.0214	0.0021	29042	3.03E-23	0.0196	0.0027	29041	2.14E-12
IFT20	-0.0002	0.0050	42343	9.90E-01	0.0443	0.0116	23314	2.71E-04	0.0238	0.0028	23671	1.67E-16	0.0279	0.0038	23685	3.03E-13	0.0357	0.0048	23684	4.17E-13
EDEM2	0.0002	0.0042	42109	9.90E-01	-0.0048	0.0137	23248	7.81E-01	-0.0056	0.0034	23603	1.23E-01	-0.0071	0.0044	23617	1.47E-01	-0.0097	0.0057	23616	1.17E-01
GATD3	0.0004	0.0089	42387	9.91E-01	0.0958	0.0065	23360	3.27E-48	0.0142	0.0016	23719	2.18E-18	0.0163	0.0021	23733	2.87E-14	0.0161	0.0027	23732	6.50E-09
ANXA3	-0.0003	0.0081	50331	9.91E-01	0.0857	0.0059	28491	3.32E-46	0.0127	0.0014	28942	5.39E-18	0.0125	0.0019	28959	1.26E-10	0.0122	0.0024	28958	1.30E-06
ECI2	-0.0003	0.0071	42109	9.91E-01	0.0760	0.0082	23248	8.41E-20	0.0117	0.0020	23603	1.18E-08	0.0142	0.0027	23617	1.92E-07	0.0166	0.0034	23616	2.27E-06
PARP1	-0.0003	0.0067	49907	9.91E-01	0.0395	0.0073	28300	1.75E-07	0.0209	0.0018	28746	1.44E-30	0.0228	0.0024	28762	2.98E-21	0.0323	0.0030	28761	1.37E-25
SLC28A1	-0.0003	0.0068	41982	9.91E-01	0.0173	0.0086	23146	6.64E-02	0.0027	0.0021	23506	2.40E-01	0.0030	0.0028	23521	3.47E-01	0.0010	0.0036	23520	8.16E-01
EIF5A	-0.0001	0.0034	49043	9.91E-01	0.0200	0.0143	27807	2.15E-01	0.0040	0.0035	28251	3.05E-01	0.0051	0.0046	28266	3.20E-01	0.0072	0.0059	28265	2.77E-01
LYVE1	0.0001	0.0022	43602	9.91E-01	-0.0251	0.0252	24051	3.90E-01	-0.0177	0.0062	24424	6.24E-03	-0.0189	0.0081	24439	2.99E-02	-0.0048	0.0105	24438	6.99E-01
PLAU	0.0001	0.0034	49982	9.91E-01	0.0050	0.0145	28299	7.83E-01	-0.0116	0.0035	28747	1.71E-03	-0.0246	0.0047	28764	2.75E-07	-0.0216	0.0060	28763	5.46E-04
CD72	-0.0002	0.0050	42580	9.92E-01	0.0315	0.0113	23496	8.74E-03	0.0356	0.0028	23858	3.24E-37	0.0340	0.0036	23871	4.27E-20	0.0582	0.0047	23870	1.32E-34
PFDN4	-0.0002	0.0061	41982	9.92E-01	0.0100	0.0095	23146	3.65E-01	-0.0007	0.0023	23506	8.16E-01	0.0004	0.0031	23521	9.20E-01	0.0007	0.0040	23520	8.80E-01
LAMTOR5	0.0002	0.0047	43331	9.92E-01	0.0067	0.0121	23884	6.51E-01	0.0049	0.0030	24254	1.27E-01	0.0143	0.0039	24269	4.31E-04	0.0184	0.0050	24268	4.33E-04
TPRKB	0.0003	0.0074	41982	9.92E-01	0.0034	0.0077	23146	7.20E-01	0.0002	0.0019	23506	9.20E-01	-0.0004	0.0025	23521	8.96E-01	-0.0001	0.0032	23520	9.85E-01
S100A13	0.0001	0.0040	42274	9.92E-01	0.0065	0.0142	23352	7.13E-01	0.0126	0.0035	23710	5.02E-04	0.0118	0.0046	23723	1.60E-02	0.0167	0.0059	23722	7.86E-03
EDAR	0.0004	0.0106	49907	9.93E-01	0.0300	0.0046	28300	1.63E-10	0.0142	0.0011	28746	7.49E-36	0.0170	0.0015	28762	4.17E-30	0.0112	0.0019	28761	7.51E-09
ABCA2	0.0001	0.0041	42109	9.93E-01	-0.0308	0.0140	23248	4.20E-02	0.0206	0.0034	23603	2.74E-09	0.0210	0.0045	23617	5.88E-06	0.0317	0.0058	23616	8.62E-08
SLAMF7	-0.0002	0.0068	49907	9.93E-01	0.0033	0.0071	28300	7.07E-01	0.0006	0.0017	28746	7.62E-01	-0.0046	0.0023	28762	6.09E-02	0.0037	0.0029	28761	2.60E-01
TXK	0.0003	0.0086	42740	9.93E-01	-0.0028	0.0067	23551	7.40E-01	0.0011	0.0016	23912	5.61E-01	0.0041	0.0022	23927	8.38E-02	0.0049	0.0028	23926	1.06E-01
EHD3	0.0004	0.0133	42387	9.93E-01	0.0408	0.0043	23360	9.13E-21	0.0105	0.0011	23719	1.05E-22	0.0111	0.0014	23733	4.70E-15	0.0096	0.0018	23732	1.54E-07
MYOM2	-0.0002	0.0058	42109	9.93E-01	0.0266	0.0099	23248	1.22E-02	-0.0119	0.0024	23603	2.12E-06	-0.0047	0.0032	23617	1.87E-01	-0.0049	0.0041	23616	2.91E-01
KLK11	0.0001	0.0035	49645	9.93E-01	-0.0322	0.0137	28160	2.97E-02	-0.0281	0.0034	28603	1.27E-16	-0.0313	0.0044	28620	3.31E-12	-0.0216	0.0057	28619	2.61E-04
PRC1	0.0002	0.0051	43331	9.94E-01	-0.0135	0.0108	23884	2.73E-01	0.0053	0.0027	24254	6.36E-02	0.0089	0.0035	24269	1.77E-02	0.0105	0.0045	24268	3.02E-02
CFC1	-0.0002	0.0054	48785	9.94E-01	-0.0194	0.0091	27677	4.92E-02	0.0249	0.0022	28109	1.52E-28	0.0223	0.0029	28125	7.12E-14	0.0390	0.0038	28124	2.41E-24
SERPINE2	0.0002	0.0074	43535	9.95E-01	0.0996	0.0076	24011	1.08E-37	0.0145	0.0019	24384	2.12E-14	0.0179	0.0025	24399	1.10E-12	0.0160	0.0032	24398	9.94E-07
LILRA6	0.0002	0.0084	43535	9.95E-01	0.0146	0.0067	24011	4.36E-02	0.0035	0.0016	24384	4.46E-02	0.0002	0.0022	24399	9.27E-01	0.0030	0.0028	24398	3.45E-01
SERPINC1	0.0000	0.0017	43518	9.95E-01	0.3326	0.0330	24001	4.80E-23	-0.0299	0.0081	24373	3.71E-04	-0.0518	0.0107	24388	2.55E-06	-0.0697	0.0138	24387	8.60E-07
TMCO5A	0.0002	0.0061	42343	9.95E-01	0.0704	0.0094	23314	2.54E-13	0.0104	0.0023	23671	1.05E-05	0.0118	0.0030	23685	1.99E-04	0.0073	0.0039	23684	8.56E-02
CDH4	-0.0001	0.0054	42120	9.95E-01	0.0328	0.0106	23217	3.42E-03	0.0046	0.0026	23575	1.02E-01	0.0025	0.0034	23590	5.37E-01	0.0014	0.0044	23589	7.96E-01
AARSD1	0.0002	0.0065	49744	9.95E-01	0.0031	0.0075	28212	7.44E-01	-0.0108	0.0018	28661	8.03E-09	-0.0176	0.0024	28678	1.00E-12	-0.0126	0.0031	28677	1.01E-04
LIPF	-0.0002	0.0070	42387	9.95E-01	0.0065	0.0082	23360	5.08E-01	0.0154	0.0020	23719	7.06E-14	0.0237	0.0027	23733	2.27E-18	0.0239	0.0034	23732	8.87E-12
SCARF1	-0.0001	0.0049	50594	9.95E-01	0.1792	0.0097	28667	5.46E-74	0.0152	0.0024	29116	3.85E-10	0.0214	0.0031	29132	2.52E-11	0.0159	0.0040	29131	1.52E-04

ESAM	0.0001	0.0037	50594	9.95E-01	0.1364	0.0129	28667	3.35E-25	0.0006	0.0032	29116	8.81E-01	0.0063	0.0042	29132	1.73E-01	0.0104	0.0054	29131	7.17E-02
HLA_E	0.0001	0.0033	49907	9.95E-01	0.0886	0.0144	28300	1.99E-09	0.0114	0.0035	28746	1.85E-03	0.0217	0.0046	28762	5.27E-06	0.0482	0.0059	28761	2.10E-15
IRAG2	0.0002	0.0104	49059	9.95E-01	0.0163	0.0047	27799	1.02E-03	0.0070	0.0012	28234	3.24E-09	0.0070	0.0015	28248	8.34E-06	0.0122	0.0020	28247	1.33E-09
PDCL2	-0.0001	0.0061	41982	9.95E-01	0.0214	0.0097	23146	4.12E-02	0.0055	0.0024	23506	2.83E-02	0.0104	0.0031	23521	1.44E-03	0.0114	0.0040	23520	6.90E-03
LAMB1	0.0001	0.0035	42387	9.95E-01	0.0267	0.0166	23360	1.51E-01	0.0303	0.0041	23719	2.72E-13	0.0198	0.0054	23733	4.21E-04	0.0263	0.0069	23732	2.59E-04
TET2	-0.0003	0.0114	42665	9.95E-01	-0.0071	0.0050	23528	2.08E-01	-0.0006	0.0012	23888	6.89E-01	-0.0016	0.0016	23903	3.68E-01	-0.0032	0.0021	23902	1.62E-01
CD79B	-0.0001	0.0052	50529	9.95E-01	-0.0125	0.0092	28636	2.28E-01	0.0102	0.0022	29090	1.03E-05	0.0127	0.0030	29107	3.09E-05	0.0348	0.0038	29106	2.23E-19
RAP1A	-0.0002	0.0079	42274	9.95E-01	-0.0092	0.0073	23352	2.61E-01	0.0011	0.0018	23710	6.01E-01	0.0003	0.0024	23723	9.26E-01	-0.0006	0.0030	23722	8.78E-01
MORC3	-0.0001	0.0032	43426	9.95E-01	0.0112	0.0176	23934	5.96E-01	-0.0005	0.0043	24305	9.23E-01	-0.0003	0.0057	24320	9.65E-01	0.0058	0.0073	24319	4.97E-01
MYL1	-0.0001	0.0046	42109	9.95E-01	0.0056	0.0124	23248	7.15E-01	-0.0085	0.0031	23603	7.58E-03	-0.0069	0.0040	23617	1.16E-01	-0.0062	0.0052	23616	2.88E-01
ADAM15	0.0001	0.0035	49059	9.95E-01	-0.0058	0.0139	27799	7.40E-01	-0.0292	0.0034	28234	2.15E-17	-0.0387	0.0045	28248	1.71E-17	-0.0452	0.0057	28247	1.27E-14
GLIPR1	-0.0019	0.0738	162	9.95E-01	0.0114	0.1680	93	9.61E-01	-0.0430	0.0508	95	4.52E-01	-0.0463	0.0704	95	5.76E-01	-0.0625	0.0911	95	5.61E-01
SEMA4C	0.0001	0.0032	49744	9.96E-01	0.0654	0.0151	28212	3.05E-05	-0.0075	0.0037	28661	5.63E-02	-0.0240	0.0048	28678	1.39E-06	-0.0195	0.0062	28677	2.92E-03
SPON1	0.0001	0.0038	50024	9.96E-01	0.0598	0.0127	28363	5.36E-06	-0.0051	0.0031	28808	1.32E-01	-0.0178	0.0041	28824	2.65E-05	0.0097	0.0053	28823	8.79E-02
L3HYPDH	0.0002	0.0102	43535	9.96E-01	0.0781	0.0055	24011	7.16E-45	0.0142	0.0013	24384	1.24E-25	0.0154	0.0018	24399	1.02E-17	0.0152	0.0023	24398	6.49E-11
AGER	-0.0001	0.0048	49858	9.96E-01	-0.0787	0.0100	28248	1.06E-14	-0.0223	0.0024	28692	2.50E-19	-0.0253	0.0032	28708	1.17E-14	-0.0266	0.0041	28707	3.17E-10
SMTN	-0.0002	0.0112	43342	9.96E-01	0.0314	0.0051	23868	1.38E-09	0.0077	0.0012	24237	1.01E-09	0.0085	0.0016	24252	3.87E-07	0.0127	0.0021	24251	3.85E-09
FCRL3	0.0001	0.0062	49043	9.96E-01	-0.0312	0.0079	27807	1.56E-04	0.0112	0.0019	28251	1.32E-08	0.0077	0.0025	28266	4.14E-03	0.0132	0.0033	28265	1.07E-04
CCS	0.0001	0.0055	49589	9.96E-01	0.0133	0.0089	28083	1.81E-01	-0.0062	0.0022	28527	6.62E-03	-0.0093	0.0029	28543	1.84E-03	-0.0110	0.0037	28542	4.39E-03
CPTP	0.0001	0.0046	42109	9.97E-01	0.0173	0.0128	23248	2.31E-01	-0.0062	0.0031	23603	6.22E-02	-0.0026	0.0041	23617	5.94E-01	-0.0033	0.0053	23616	5.93E-01
LETM1	0.0001	0.0061	43455	9.97E-01	0.1217	0.0093	23960	4.84E-38	0.0192	0.0023	24328	1.09E-16	0.0227	0.0030	24343	1.07E-13	0.0277	0.0039	24342	2.28E-12
KLK10	-0.0001	0.0046	49974	9.97E-01	0.0536	0.0104	28327	5.54E-07	-0.0083	0.0025	28772	1.72E-03	-0.0132	0.0033	28789	1.40E-04	-0.0067	0.0043	28788	1.59E-01
KHDC3L	-0.0001	0.0077	41982	9.97E-01	0.0017	0.0076	23146	8.61E-01	0.0014	0.0019	23506	5.07E-01	0.0008	0.0024	23521	7.72E-01	0.0008	0.0031	23520	8.29E-01
PLA2G2A	-0.0001	0.0065	49884	9.97E-01	0.0537	0.0075	28270	1.93E-12	0.0061	0.0018	28709	1.36E-03	0.0043	0.0024	28724	9.94E-02	0.0095	0.0031	28723	3.62E-03
HDGF	-0.0001	0.0108	50325	9.97E-01	0.0204	0.0044	28540	8.97E-06	0.0019	0.0011	28989	9.88E-02	0.0011	0.0014	29006	5.02E-01	0.0014	0.0018	29005	5.12E-01
ZPR1	0.0001	0.0109	42120	9.98E-01	0.0040	0.0053	23217	5.25E-01	0.0001	0.0013	23575	9.47E-01	0.0007	0.0017	23590	7.24E-01	0.0007	0.0022	23589	7.97E-01
CXCL14	-0.0001	0.0071	49043	9.98E-01	0.0238	0.0070	27807	1.33E-03	-0.0009	0.0017	28251	6.69E-01	0.0021	0.0023	28266	4.16E-01	-0.0022	0.0029	28265	5.25E-01
IL2RG	0.0000	0.0043	43331	9.98E-01	-0.0181	0.0133	23884	2.27E-01	-0.0008	0.0033	24254	8.46E-01	-0.0019	0.0043	24269	7.11E-01	-0.0020	0.0055	24268	7.69E-01
MEGF11	0.0000	0.0037	42109	9.98E-01	-0.0202	0.0157	23248	2.56E-01	0.0047	0.0038	23603	2.64E-01	-0.0006	0.0051	23617	9.29E-01	-0.0016	0.0065	23616	8.38E-01
IZUMO1	0.0001	0.0055	41982	9.98E-01	-0.0087	0.0105	23146	4.78E-01	-0.0038	0.0026	23506	1.70E-01	-0.0075	0.0034	23521	3.87E-02	-0.0085	0.0043	23520	6.82E-02
PDRG1	0.0000	0.0059	42343	9.99E-01	0.0203	0.0098	23314	5.67E-02	0.0057	0.0024	23671	2.51E-02	0.0074	0.0032	23685	2.86E-02	0.0097	0.0040	23684	2.53E-02
FABP4	0.0000	0.0072	50594	9.99E-01	0.0926	0.0066	28667	4.95E-43	0.0396	0.0016	29116	2.83E-131	0.0378	0.0021	29132	5.49E-69	0.0558	0.0027	29131	7.47E-91
RRM2B	0.0000	0.0078	48785	9.99E-01	0.0692	0.0063	27677	4.34E-27	0.0222	0.0015	28109	8.32E-46	0.0231	0.0020	28125	5.57E-29	0.0239	0.0026	28124	3.80E-19
PVALB	-0.0001	0.0131	50167	9.99E-01	0.0382	0.0037	28458	3.87E-24	0.0033	0.0009	28904	4.68E-04	0.0034	0.0012	28919	7.09E-03	0.0007	0.0015	28918	7.02E-01
CPXM2	0.0000	0.0029	43535	9.99E-01	0.1048	0.0191	24011	1.07E-07	0.0450	0.0047	24384	2.14E-21	0.0413	0.0062	24399	5.39E-11	0.0658	0.0079	24398	3.81E-16
ICAM5	0.0000	0.0054	49984	9.99E-01	0.0431	0.0090	28340	3.38E-06	-0.0216	0.0022	28785	1.55E-22	-0.0274	0.0029	28801	6.25E-21	-0.0335	0.0037	28800	4.92E-19
KLK1	-0.0001	0.0147	49488	9.99E-01	-0.0037	0.0033	28073	3.33E-01	-0.0058	0.0008	28511	3.52E-12	-0.0071	0.0011	28528	1.22E-10	-0.0056	0.0014	28527	1.02E-04
NUBP1	0.0000	0.0112	43331	9.99E-01	-0.0050	0.0051	23884	3.96E-01	0.0024	0.0012	24254	7.69E-02	0.0035	0.0016	24269	4.55E-02	0.0034	0.0021	24268	1.47E-01
CA11	0.0000	0.0037	48785	9.99E-01	0.0124	0.0134	27677	4.31E-01	-0.0015	0.0033	28109	6.92E-01	-0.0003	0.0043	28125	9.55E-01	-0.0005	0.0056	28124	9.47E-01
RRP15	0.0000	0.0105	42120	9.99E-01	0.0007	0.0056	23217	9.25E-01	-0.0031	0.0014	23575	3.54E-02	-0.0035	0.0018	23590	7.75E-02	-0.0048	0.0023	23589	5.36E-02
ARHGAP30	0.0000	0.0045	42740	1.00E+00	-0.0192	0.0128	23551	1.83E-01	0.0048	0.0032	23912	1.60E-01	0.0116	0.0042	23927	8.26E-03	0.0107	0.0053	23926	6.32E-02
JAM3	0.0000	0.0058	42580	1.00E+00	0.0898	0.0099	23496	4.27E-19	0.0133	0.0024	23858	8.81E-08	0.0166	0.0032	23871	4.51E-07	0.0193	0.0041	23870	5.47E-06
TNFRSF10C	0.0000	0.0057	50102	1.00E+00	0.0646	0.0085	28373	8.10E-14	-0.0025	0.0021	28819	2.67E-01	0.0000	0.0027	28833	9.97E-01	-0.0005	0.0035	28833	9.05E-01

CHEK2	0.0000	0.0038	49059	1.00E+00	-0.0392	0.0129	27799	4.09E-03	-0.0024	0.0031	28234	5.00E-01	-0.0052	0.0041	28248	2.60E-01	-0.0013	0.0053	28247	8.38E-01
LDLR	0.0000	0.0064	50112	1.00E+00	-0.0205	0.0076	28364	1.13E-02	0.0717	0.0018	28808	0.00E+00	0.0669	0.0024	28823	1.96E-167	0.0676	0.0031	28822	3.27E-103
SRP14	0.0000	0.0071	49744	1.00E+00	0.0107	0.0070	28212	1.69E-01	0.0176	0.0017	28661	1.83E-24	0.0150	0.0022	28678	4.82E-11	0.0286	0.0029	28677	1.33E-22

Supplementary Table 10: Pathways downregulated in APOE E4 carriers in plasma

#category	term ID	term description	observed gene count	background gene count	strength	false discovery rate	matching proteins in your network (labels)
KEGG	hsa04142	Lysosome	18	125	1.2	2.58E-13	ARSA, CTSZ, GLA, ACP5, PLA2G15, CTSB, IDUA, ARSB, TPP1, GUSB, GLB1, CTSF, SGGH, SMPD1, CTSL, PSAP, CTSO, NPC2
KEGG	hsa01100	Metabolic pathways	35	1435	0.43	1.63E-05	GSTA3, GLA, ACP5, IDUA, KYNU, ARSB, SORD, HNMT, PTS, ALDH1A1, PCBD1, AGXT, GUSB, DCXR, ADH1B, GLB1, SGGH, COQ7, UPB1, ENPP7, ENTPD5, GSTA1, SMPD1, ASS1, HAO1, SUOX, FTCD, CBS, GGT5, ACY1, PLA2G10, FBP1, ADH4, ST3GAL1, SCLY
KEGG	hsa00531	Glycosaminoglycan degradation	5	19	1.46	0.00023	IDUA, ARSB, GUSB, GLB1, SGGH
KEGG	hsa00600	Sphingolipid metabolism	6	47	1.15	0.00067	ARSA, GLA, GLB1, ENPP7, SMPD1, PSAP
KEGG	hsa04210	Apoptosis	8	131	0.83	0.0026	GZMB, CTSZ, CTSB, TNFSF10, CTSF, CTSL, ERN1, CTSO
KEGG	hsa04612	Antigen processing and presentation	6	64	1.01	0.0026	CD74, IFNG, CTSL, HLA-DRA, IFI30, CD8A
KEGG	hsa04979	Cholesterol metabolism	5	48	1.06	0.0054	APOA1, APOE, APOA4, ANGPTL3, NPC2
KEGG	hsa04610	Complement and coagulation cascades	6	82	0.91	0.0061	SERPIND1, VWF, C9, C2, F7, CFB
KEGG	hsa05323	Rheumatoid arthritis	6	83	0.9	0.0061	ACPS, IFNG, CD80, CSF1, CTSL, HLA-DRA
KEGG	hsa04640	Hematopoietic cell lineage	6	90	0.87	0.0078	ITGA5, CSF1, IL2RA, HLA-DRA, CD8A, MME
KEGG	hsa04514	Cell adhesion molecules	7	138	0.75	0.0106	SELPLG, CDH1, CD80, CDH2, OCLN, HLA-DRA, CD8A
KEGG	hsa05330	Allograft rejection	4	34	1.11	0.0106	GZMB, IFNG, CD80, HLA-DRA
KEGG	hsa04151	PI3K-Akt signaling pathway	11	349	0.54	0.0113	HGF, VWF, ITGA5, ANGPT2, CSF1, THBS2, EFNA1, IL2RA, PDGFC, FGF21, GHR
KEGG	hsa05332	Graft-versus-host disease	4	36	1.09	0.0113	GZMB, IFNG, CD80, HLA-DRA
KEGG	hsa00980	Metabolism of xenobiotics by cytochrome P450	5	69	0.9	0.0122	GSTA3, SULT2A1, ADH1B, GSTA1, ADH4
KEGG	hsa04940	Type I diabetes mellitus	4	38	1.06	0.0122	GZMB, IFNG, CD80, HLA-DRA
KEGG	hsa00983	Drug metabolism - other enzymes	5	74	0.87	0.0146	GSTA3, GUSB, UPB1, GSTA1, CES1
KEGG	hsa05204	Chemical carcinogenesis	5	76	0.86	0.0154	GSTA3, SULT2A1, ADH1B, GSTA1, ADH4
KEGG	hsa04380	Osteoclast differentiation	6	120	0.74	0.0175	ACPS, IFNG, TNFRSF11B, CSF1, TREM2, LILRA5
KEGG	hsa04060	Cytokine-cytokine receptor interaction	9	282	0.55	0.0223	IFNG, TNFSF10, GDF15, TNFRSF11B, CXCL10, CSF1, IL2RA, IL18R1, GHR
KEGG	hsa05150	Staphylococcus aureus infection	5	86	0.81	0.0223	SELPLG, C2, KRT18, HLA-DRA, CFB
KEGG	hsa00790	Folate biosynthesis	3	25	1.12	0.0304	GGH, PTS, PCBD1
KEGG	hsa05322	Systemic lupus erythematosus	5	94	0.77	0.0304	IFNG, C9, CD80, C2, HLA-DRA
KEGG	hsa04061	Viral protein interaction with cytokine and cytokine receptor	5	96	0.76	0.0309	TNFSF10, CXCL10, CSF1, IL2RA, IL18R1
KEGG	hsa04974	Protein digestion and absorption	5	100	0.74	0.0352	MEP1B, COL18A1, COL5A1, PRCP, MME
KEGG	hsa04015	Rap1 signaling pathway	7	201	0.58	0.0366	HGF, CDH1, ANGPT2, CSF1, EFNA1, PDGFC, FGF21
KEGG	hsa00982	Drug metabolism - cytochrome P450	4	64	0.84	0.0411	GSTA3, ADH1B, GSTA1, ADH4
KEGG	hsa00040	Pentose and glucuronate interconversions	3	33	1	0.0495	SORD, GUSB, DCXR
Reactome	HSA-381426	Regulation of Insulin-like Growth Factor (IGF) transport and uptake by Insulin-like Growth Factor Binding Proteins (IGFBPs)	15	124	1.12	4.85E-09	FSTL3, BPIFB2, SERPIND1, GZMH, APOA1, VGF, APOE, CDH2, AHSG, IGFBP7, CSF1, IGFBP3, CST3, VWA1, FAM20A
Reactome	HSA-8957275	Post-translational protein phosphorylation	14	107	1.16	5.16E-09	FSTL3, BPIFB2, SERPIND1, APOA1, VGF, APOE, CDH2, AHSG, IGFBP7, CSF1, IGFBP3, CST3, VWA1, FAM20A
Reactome	HSA-168256	Immune System	50	1979	0.44	1.54E-08	CD74, GRN, CEACAM1, BPIFB2, ARSA, CTSZ, GLA, HGF, IFNG, CTSB, GGH, CDH1, C9, CD80, ARSB, AHSG, TNFRSF11B, C2, GUSB, CXCL10, GLB1, CTSF, SIGLEC7, CSF1, CTSL, PIGR, VNN1, GBP1, CREG1, DPP7, TREM2, IL2RA, IFNGR2, CLEC6A, PRCP, PSAP, HLA-DRA, LGALS9, CST3, IFI30, CD8A, IL18R1, LILRA5, CTSO, CEB, MME, RNASET2, NPC2, CD300LE, GHR

Reactome	HSA-1430728	Metabolism	48	2092	0.4	8.18E-07	GSTA3, ARSA, GLA, ACP5, PLA2G15, SULT2A1, APOA1, IDUA, APOE, ENPP2, KYNU, ARSB, SORD, HNMT, PTS, MAN2B2, ALDH1A1, PCBD1, AGXT, GUSB, DCXR, ADH1B, GLB1, SGSH, COQ7, UPB1, ENPP7, ENTPD5, GSTA1, SMPD1, APOA4, CES1, HS3ST3B1, VNN1, ASS1, HSPG2, HAO1, SUOX, PSAP, FTCD, GGT5, ACY1, PLA2G10, FBP1, ADH4, ST3GAL1, PON2, SC1Y
Reactome	HSA-6798695	Neutrophil degranulation	21	476	0.69	2.09E-06	GRN, CEACAM1, ARSA, CTSZ, GLA, CTSZ, GGH, ARSB, AHSG, GUSB, GLB1, PIGR, VNN1, CREG1, DPP7, PRCP, PSAP, CST3, MME, RNASET2, NPC2
Reactome	HSA-2206281	Mucopolysaccharidoses	5	11	1.7	8.59E-05	IDUA, ARSB, GUSB, GLB1, SGSH
Reactome	HSA-168249	Innate Immune System	28	1041	0.47	0.00011	GRN, CEACAM1, BPIFB2, ARSA, CTSZ, GLA, CTSZ, GGH, C9, ARSB, AHSG, C2, GUSB, GLB1, CTSZ, PIGR, VNN1, CREG1, DPP7, TREM2, CLEC6A, PRCP, PSAP, CST3, CFB, MME, RNASET2, NPC2
Reactome	HSA-1660662	Glycosphingolipid metabolism	7	45	1.23	0.00012	ARSA, GLA, ARSB, GLB1, ENPP7, SMPD1, PSAP
Reactome	HSA-2022377	Metabolism of Angiotensinogen to Angiotensins	5	18	1.49	0.00037	GZMH, CTSZ, CTSZ, CES1, MME
Reactome	HSA-5663084	Diseases of carbohydrate metabolism	6	34	1.29	0.00037	IDUA, ARSB, GUSB, DCXR, GLB1, SGSH
Reactome	HSA-8963899	Plasma lipoprotein remodeling	6	34	1.29	0.00037	APOA1, APOE, APOA4, ANGPTL3, FGF21, FURIN
Reactome	HSA-2024096	HS-GAG degradation	5	22	1.4	0.00073	IDUA, GUSB, GLB1, SGSH, HSPG2
Reactome	HSA-71387	Metabolism of carbohydrates	13	292	0.69	0.00073	IDUA, ARSB, SORD, MAN2B2, ALDH1A1, GUSB, DCXR, GLB1, SGSH, HS3ST3B1, HSPG2, FBP1, ST3GAL1
Reactome	HSA-174824	Plasma lipoprotein assembly, remodeling, and clearance	7	75	1.01	0.0015	APOA1, APOE, APOA4, ANGPTL3, NPC2, FGF21, FURIN
Reactome	HSA-977225	Amyloid fiber formation	7	79	0.99	0.0019	APOA1, APOE, CALCA, APOA4, HSPG2, CST3, FURIN
Reactome	HSA-1638091	Heparan sulfate/heparin (HS-GAG) metabolism	6	55	1.08	0.0026	IDUA, GUSB, GLB1, SGSH, HS3ST3B1, HSPG2
Reactome	HSA-1474244	Extracellular matrix organization	12	300	0.64	0.0035	CEACAM1, CTSZ, VWF, CDH1, ITGA5, LTBP3, CTSZ, COL18A1, COL5A1, HSPG2, FBLN2, FURIN
Reactome	HSA-1630316	Glycosaminoglycan metabolism	8	124	0.85	0.0035	IDUA, ARSB, GUSB, GLB1, SGSH, HS3ST3B1, HSPG2, ST3GAL1
Reactome	HSA-5668914	Diseases of metabolism	11	250	0.69	0.0035	IDUA, ARSB, GUSB, DCXR, GLB1, SGSH, ADAMTSL2, THBS2, HSPG2, ACY1, SPON2
Reactome	HSA-8963889	Assembly of active LPL and LIPC lipase complexes	4	19	1.36	0.0054	APOA4, ANGPTL3, FGF21, FURIN
Reactome	HSA-392499	Metabolism of proteins	35	1917	0.3	0.0059	FSTL3, BPIFB2, SERPIND1, ARSA, GZMH, CTSZ, CTSZ, APOA1, VGF, APOE, ARSB, CDH2, ASGR1, AHSG, FUOM, IGFBP7, GLB1, CSF1, CALCA, CPM, ADAMTSL2, APOA4, CES1, THBS2, VNN1, HSPG2, F7, IGFBP3, CST3, VWA1, MME, ST3GAL1, FAM20A, FURIN, SPON2
Reactome	HSA-196854	Metabolism of vitamins and cofactors	9	188	0.72	0.0076	ACPS, APOA1, APOE, ENPP2, PTS, COQ7, APOA4, VNN1, HSPG2
Reactome	HSA-597592	Post-translational protein modification	28	1405	0.34	0.008	FSTL3, BPIFB2, SERPIND1, ARSA, CTSZ, APOA1, VGF, APOE, ARSB, CDH2, ASGR1, AHSG, FUOM, IGFBP7, GLB1, CSF1, CPM, ADAMTSL2, THBS2, VNN1, F7, IGFBP3, CST3, VWA1, ST3GAL1, FAM20A, FURIN, SPON2
Reactome	HSA-109582	Hemostasis	16	607	0.46	0.0154	CD74, CEACAM1, SERPIND1, HGF, SELPLG, APOA1, VWF, LGALS3BP, AHSG, ITGA5, ANGPT2, FCAMR, F7, PRCP, PSAP, CD99L2
Reactome	HSA-2132295	MHC class II antigen presentation	7	122	0.8	0.0154	CD74, CTSZ, CTSF, CTSZ, HLA-DRA, IFI30, CTSO
Reactome	HSA-216083	Integrin cell surface interactions	6	85	0.89	0.0154	VWF, CDH1, ITGA5, COL18A1, COL5A1, HSPG2
Reactome	HSA-211859	Biological oxidations	9	215	0.66	0.0157	GSTA3, SULT2A1, ALDH1A1, ADH1B, GSTA1, CES1, GGT5, ACY1, ADH4
Reactome	HSA-8963888	Chylomicron assembly	3	10	1.52	0.0157	APOA1, APOE, APOA4
Reactome	HSA-8963901	Chylomicron remodeling	3	10	1.52	0.0157	APOA1, APOE, APOA4
Reactome	HSA-71384	Ethanol oxidation	3	12	1.44	0.0222	ALDH1A1, ADH1B, ADH4
Reactome	HSA-202733	Cell surface interactions at the vascular wall	7	139	0.74	0.0258	CD74, CEACAM1, SELPLG, ITGA5, ANGPT2, FCAMR, CD99L2
Reactome	HSA-1474228	Degradation of the extracellular matrix	7	140	0.74	0.0261	CTSZ, CDH1, CTSZ, COL18A1, COL5A1, HSPG2, FURIN

Reactome	HSA-1442490	Collagen degradation	5	64	0.93	0.0265	CTSD, CTSL, COL18A1, COL5A1, FURIN
Reactome	HSA-140877	Formation of Fibrin Clot (Clotting Cascade)	4	39	1.05	0.0389	SERPIND1, VWF, F7, PRCP
Reactome	HSA-163841	Gamma carboxylation, hypusine formation and arylsulfatase activation	4	42	1.02	0.049	ARSA, ARSB, F7, FURIN

Supplementary Table 11: pathways upregulated with BHBA

#category	term ID	term description	observed gene count	background gene count	strength	false discovery rate	matching proteins in your network (labels)
Reactome	HSA-168256	Immune System	406	1979	0.42	5.22E-64	PGLYRP1, CD74, CD4, TNFRSF17, GRN, ICAM3, KIF22, CEACAM1, TNFRSF1A, BPIFB2, CPB2, PILRA, CEACAM6, SNAP29, MIF, OSM, HMOX1, ARSA, MYH9, LBP, TIMP1, GLA, OLFM4, CCL22, DCTN5, RETN, TGFBI, ICAM5, HGF, PDAP1, CS, BLNK, MPO, DUSP3, NFKB1, LTA4H, LTB, CLEC4A, EIF2AK2, APOB, IL1RL1, AZU1, PPP3R1, PRTN3, CTSO, MMP8, CLTA, PI3, CEACAM8, C3, VAPB, LIF, SNAP23, NECTIN2, BST2, BPIFB1, LGALS3, TRIM21, CLEC10A, SNAP25, CFHR5, TCN1, EDAR, TANK, IL136G, IL1RN, ORM1, CTSV, TLR2, GGI, LMNB1, PPP2R5A, TNFRSF13B, BLMH, ELOB, ERP44, TIMP2, SLA2, A1BG, EP300, IL1B, COMMD9, CS, IL7, VAMP8, CD80, FGF2, RAB10, ICAM1, ARSB, CD27, TP53, IFNAR1, SOD1, S100A11, AHSG, OSMR, IQGAP2, NFKBIE, SERPING1, CTF1, IL18, LY96, APP, CASP10, PRG3, UBE2L6, IL17B, TNFRSF13C, CSTB, FADD, NCR1, PGLYRP2, STAS5, TNFSF12, VCAM1, PTX3, PPBP, ITGB5, S100P, FABP5, INPPL1, C2, CLEC4D, MMP3, ANPEP, PDIA3, RILP, FADD, RNASE6, RNASE3, MAP2K1, CLEC7A, LRG1, GUSB, IL16, THOP1, CXCL10, FOS, ITPR1, CXCL8, ICAM1, F2, CCL19, OLRI, CASP3, HAVCR2, PRG2, CASP2, GH1, CCL3, TNFRSF9, IRAK4, CCL4, IKBKG, B2M, IL19, AKT3A, WASF1, PRKARIA, BCL2L11, SPRK2, FDX2, SEC31A, BTC, GNE, CHMP1A, GP1BB, GPs, ACY1, CDKN1A, F11, CD14, IL6, POLR2F, PTPN6, ELOA, SFTPA1, RANBP1, MAVS, BRAP, FGF4, FGF2, CD36, XRC4, ERBIN, STG3AL1, LYN, BRK1, CASP1, TXNRD1, CDC27, PSMO9, SLIC6A1, DAG1, SOD2, MRK1, DPEP2, SPON1, YES1, MAP2K6, NMT1, MYO9B, IRAK4, OPLAH, AP2B1, IKBKG, HAVCR1, ENO1, TBL1X, KITLG, B2M, FGA, BIN2, BTD, AKT3, SERPINA3, NPC2, ADAM8, PECAM1, YES1, CFD, MAP2K6, MYO9B, GMFG, HMOX2, BIRC2, NOS1, OSCAR, IRAK4, IKBKG, SERPINB6, B2M, FGA, BIN2, CDS9TSS, CD101, IRAK1, TNFRSF6B, VAV3, GBP4, GBP2, GBP1, CD40LG, ZBP1, JUN, C8B, DPP7, NPDC1, PTPN1, IL13RA1, FCN1, IFIT3, PTEN, CD40, MMP9, ABL1, DNMI1, LCN2, CSF3R, TREM2, SRC, TXLNA, PRKG1, FGR, ATP6V1G1, CDC26, TXN, TNFSF13B, BCL2L11, TNFRSF1B, HLA-E, WAS, ANXA1, BTN3A2, SUGT1, APRT, FOXO1, NHLRC3, TXNDC5, DDYS8, IL2RA, TRIM5, COL2A1, SERPINA1, CD99, CD274, SIRPB1, ASAH1, CPED1, CLEC6A, PSME1, LILRB4, LILRA2, LAIR1, LILRB2, LRRFIP1, AKT2, CRLF1, WASF1, RAB37, CD300, LGMN, BCL2L11, REG3A, NIT2, PROS1, CFI, PSAP, SEC31A, LAT, LGALS9, CXCL1, EDA2R, TAX1BP1, LILRA6, BCL2, CST3, LAT2, LCP1, GSP1, COLEC12, EIF4G3, PLA2G2A, DEF1B1, HPSE, CDKN1A, IFI30, C15, CD14, IL6, POLR2F, NFATC1, PTPN6, PILRB, MAPK9, CD70, SFTPA1, TNF, NAPRT, MAVS, PVR, TREML1, LILRA5, GPI, LILRB5, LAMP2, CRACR2A, SIGLEC9, CTSO, ICAM2, CD36, SERPINA1, EIF4G1, CFB, ATP6V1F, DBNL, TREML2, DAPP1, EIF4E, LYN, ATOX1, BRK1, CASP1, CDC27, IL18BP, GNLV, IST1, ARHGAP45, CLEC4C, PSMO9, IL22, C1R, SOD2, CD63, CLEC5A, SERPINA3, NPC2, ADAM8, MRC1, PECAM1, CD226, CD300LF, YES1, TNFRSF11A, CFD, MAP2K6, TNFSF14, IL12RB1, MYO9B, GMFG, CCL5, IL12RB2, BIRC2, CCL3, NCR1, TNFRSF6B, VAV3, GBP4, GBP2, GBP1, CD40LG, ZBP1, JUN, C8B, DPP7, NPDC1, PTPN1, IL13RA1, FCN1, IFIT3, ITPR1, CD4, GRN, ICAM3, CEACAM1, BPIFB2, CPB2, CEACAM6, SNAP29, MIF, HMOX1, ARSA, MYH9, LBP, GLA, OLFM4, RETN, 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PDGFA, FN1, PDSEA, DNMI3, GFRA1, OPHN1, RSP01, RSP03, SCRIB, CASP8, STIP1, CCL20, WWP2, PTPRF, NR2P, CCL28, CXCL5, CDC42BPB, ACTN2, DLL1, PARP1, MAPKAPK2, TAB2, PLA2G4A, NCF2, F11R, IL6R, GOPC, RGS10, MYO6, IRAK1, VAV3, XIAP, JUN, PTPN1, PTEN, MMP9, ABL1, STK4, DNMI1, SRC, DKK1, PRKG1, ATP6V1G1, PARD3, BAMB1, MAGED1, COL4A1, BCL2L1, APPB1IP, WAS, ANXA1, GPCS, SPRY2, STAM, CCL7, EDN1, FOXO1, IL2RA, TEK, COL2A1, CD274, CAMKK1, YWHAQ, FGF9, PSME1, ACVRL1, AITK151, PPP1R12B, TNFRSF1A, MIF, OSM, HMOX1, LBP, TIMP1, CCL22, TGFBI, HGF, BLNK, DUSP3, NFKB1, LTA4H, AZU1, PRTN3, CTSO, MMP8, CEACAM8, C3, SNAP23, BST2, LGALS3, SNAP25, TCN1, ORM1, TLR2, GGI, ERP44, TIMP2, A1BG, COMMD9, VAMP8, RAB10, ARSB, S100A11, AHSG, IQGAP2, PRG3, CSTB, PTX3, PPBP, S100P, FABP5, CLEC4D, ANPEP, RNASE3, LRG1, GUSB, CANT1, OLRI, PRG2, MCEMP1, LAMP1, ACAA1, PTPRB, PLAUR, QPCT, PTGES2, CTSB, ANXA2, LRMP, FCAR, VAT1, PIGR, IGFB2, GM2A, CEACAM3, CD300A, DYNLT1, QSOX1, VNN1, S100A12, CTSS, DPP7, FCN1, MMP9, LCN2, FGR, 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MMP9, LCN2, FGR, TNFRSF1B, APRT, NHLRC3, TXNDC5, SERPINA1, SIRPB1, ASAH1, CPED1, LAIR1, LILRB2, RAB37, NIT2, PSAP, CXCL1, CST3, GSTP1, HPSE, CD14, PTPN6, NAPRT, GPI, LAMP2, CRACR2A, SIGLEC9, CD36, SERPINA1, DBNL, IST1, ARHGAP45, CLEC4C, CD63, CLEC5A, SERPINA3, NPC2, ADAM8, PECAM1, CFD, GMFG, HMOX2, OSCAR, SERPINB6, B2M, BIN2, TNFRSF1A, MIF, OSM, HMOX1, LBP, TIMP1, CCL22, TGFBI, HGF, BLNK, DUSP3, NFKB1, LTA4H, AZU1, PRTN3, CTSO, MMP8, CEACAM8, C3, SNAP23, BST2, LGALS3, SNAP25, TCN1, ORM1, TLR2, GGI, ERP44, TIMP2, A1BG, COMMD9, VAMP8, RAB10, ARSB, S100A11, AHSG, IQGAP2, PRG3, CSTB, PTX3, PPBP, S100P, FABP5, CLEC4D, ANPEP, RNASE3, LRG1, GUSB, CANT1, OLRI, PRG2, MCEMP1, LAMP1, ACAA1, PTPRB, PLAUR, QPCT, PTGES2, CTSB, ANXA2, LRMP, FCAR, VAT1, PIGR, IGFB2, GM2A, CEACAM3, CD300A, DYNLT1, QSOX1, VNN1, S100A12, CTSS, DPP7, FCN1, MMP9, LCN2, FGR, TNFRSF1B, APRT, NHLRC3, TXNDC5, SERPINA1, SIRPB1, ASAH1, CPED1, LAIR1, LILRB2, RAB37, NIT2, PSAP, CXCL1, CST3, GSTP1, HPSE, CD14, PTPN6, NAPRT, GPI, LAMP2, CRACR2A, SIGLEC9, CD36, SERPINA1, DBNL, IST1, ARHGAP45, CLEC4C, CD63, CLEC5A, SERPINA3, NPC2, ADAM8, PECAM1, CFD, GMFG, HMOX2, OSCAR, SERPINB6, B2M, BIN2, TNFRSF1A, MIF, OSM, HMOX1, LBP, TIMP1, CCL22, TGFBI, HGF, BLNK, DUSP3, NFKB1, LTA4H, AZU1, PRTN3, CTSO, MMP8, CEACAM8, C3, SNAP23, BST2, LGALS3, SNAP25, TCN1, ORM1, TLR2, GGI, ERP44, TIMP2, A1BG, COMMD9, VAMP8, RAB10, ARSB, S100A11, AHSG, IQGAP2, PRG3, CSTB, PTX3, PPBP, S100P, FABP5, CLEC4D, ANPEP, RNASE3, LRG1, GUSB, CANT1, OLRI, PRG2, MCEMP1, LAMP1, ACAA1, PTPRB, PLAUR, QPCT, PTGES2, CTSB, ANXA2, LRMP, FCAR, VAT1, PIGR, IGFB2, GM2A, CEACAM3, CD300A, DYNLT1, QSOX1, VNN1, S100A12, CTSS, DPP7, FCN1, MMP9, LCN2, FGR, TNFRSF1B, APRT, NHLRC3, TXNDC5, SERPINA1, SIRPB1, ASAH1, CPED1, LAIR1, LILRB2, RAB37, NIT2, PSAP, CXCL1, CST3, GSTP1, HPSE, CD14, PTPN6, NAPRT, GPI, LAMP2, CRACR2A, SIGLEC9, CD36, SERPINA1, DBNL, IST1, ARHGAP45, CLEC4C, CD63, CLEC5A, SERPINA3, NPC2, ADAM8, PECAM1, CFD, GMFG, HMOX2, OSCAR, SERPINB6, B2M, BIN2, TNFRSF1A, MIF, OSM, HMOX1, LBP, TIMP1, CCL22, TGFBI, HGF, BLNK, DUSP3, NFKB1, LTA4H, AZU1, PRTN3, CTSO, MMP8, CEACAM8, C3, SNAP23, BST2, LGALS3, SNAP25, TCN1, ORM1, TLR2, GGI, ERP44, TIMP2, A1BG, COMMD9, VAMP8, RAB10, ARSB, S100A11, AHSG, IQGAP2, PRG3, CSTB, PTX3, PPBP, S100P, FABP5, CLEC4D, ANPEP, RNASE3, LRG1, GUSB, CANT1, OLRI, PRG2, MCEMP1, LAMP1, ACAA1, PTPRB, PLAUR, QPCT, PTGES2, CTSB, ANXA2, LRMP, FCAR, VAT1, PIGR, IGFB2, GM2A, CEACAM3, CD300A, DYNLT1, QSOX1, VNN1, S100A12, CTSS, DPP7, FCN1, MMP9, LCN2, FGR, TNFRSF1B, APRT, NHLRC3, TXNDC5, SERPINA1, SIRPB1, ASAH1, CPED1, LAIR1, LILRB2, RAB37, NIT2, PSAP, CXCL1, CST3, GSTP1, HPSE, CD14, PTPN6, NAPRT, GPI, LAMP2, CRACR2A, SIGLEC9, CD36, SERPINA1, DBNL, IST1, ARHGAP45, CLEC4C, CD63, CLEC5A, SERPINA3, NPC2, ADAM8, PECAM1, CFD, GMFG, HMOX2, OSCAR, SERPINB6, B2M, BIN2, TNFRSF1A, MIF, OSM, HMOX1, LBP, TIMP1, CCL22, TGFBI, HGF, BLNK, DUSP3, NFKB1, LTA4H, AZU1, PRTN3, CTSO, MMP8, CEACAM8, C3, SNAP23, BST2, LGALS3, SNAP25, TCN1, ORM1, TLR2, GGI, ERP44, TIMP2, A1BG, COMMD9, VAMP8, RAB10, ARSB, S100A11, AHSG, IQGAP2, PRG3, CSTB, PTX3, PPBP, S100P, FABP5, CLEC4D, ANPEP, RNASE3, LRG1, GUSB, CANT1, OLRI, PRG2, MCEMP1, LAMP1, ACAA1, PTPRB, PLAUR, QPCT, PTGES2, CTSB, ANXA2, LRMP, FCAR, VAT1, PIGR, IGFB2, GM2A, CEACAM3, CD300A, DYNLT1, QSOX1, VNN1, S100A12, CTSS, DPP7, FCN1, MMP9, LCN2, FGR, TNFRSF1B, APRT, NHLRC3, TXNDC5, SERPINA1, SIRPB1, ASAH1, CPED1, LAIR1, LILRB2, RAB37, NIT2, PSAP, CXCL1, CST3, GSTP1, HPSE, CD14, PTPN6, NAPRT, GPI, LAMP2, CRACR2A, SIGLEC9, CD36, SERPINA1, DBNL, IST1, ARHGAP45, CLEC4C, CD63, CLEC5A, SERPINA3, NPC2, ADAM8, PECAM1, CFD, GMFG, HMOX2, OSCAR, SERPINB6, B2M, BIN2, TNFRSF1A, MIF, OSM, HMOX1, LBP, TIMP1, CCL22, TGFBI, HGF, BLNK, DUSP3, NFKB1, LTA4H, AZU1, PRTN3, CTSO, MMP8, CEACAM8, C3, SNAP23, BST2, LGALS3, SNAP25, TCN1, ORM1, TLR2, GGI, ERP44, TIMP2, A1BG, COMMD9, VAMP8, RAB10, ARSB, S100A11, AHSG, IQGAP2, PRG3, CSTB, PTX3, PPBP, S100P, FABP5, CLEC4D, ANPEP, RNASE3, LRG1, GUSB, CANT1, OLRI, PRG2, MCEMP1, LAMP1, ACAA1, PTPRB, PLAUR, QPCT, PTGES2, CTSB, ANXA2, LRMP, FCAR, VAT1, PIGR, IGFB2, GM2A, CEACAM3, CD300A, DYNLT1, QSOX1, VNN1, S100A12, CTSS, DPP7, FCN1, MMP9, LCN2, FGR, TNFRSF1B, APRT, NHLRC3, TXNDC5, SERPINA1, SIRPB1, ASAH1, CPED1, LAIR1, LILRB2, RAB37, NIT2, PSAP, CXCL1, CST3, GSTP1, HPSE, CD14, PTPN6, NAPRT, GPI, LAMP2, CRACR2A, SIGLEC9, CD36, SERPINA1, DBNL, IST1, ARHGAP45, CLEC4C, CD63, CLEC5A, SERPINA3, NPC2, ADAM8, PECAM1, CFD, GMFG, HMOX2, OSCAR, SERPINB6, B2M, BIN2, TNFRSF1A, MIF, OSM, HMOX1, LBP, TIMP1, CCL22, TGFBI, HGF, BLNK, DUSP3, NFKB1, LTA4H, AZU1, PRTN3, CTSO, MMP8, CEACAM8, C3, SNAP23, BST2, LGALS3, SNAP25, TCN1, ORM1, TLR2, GGI, ERP44, TIMP2, A1BG, COMMD9, VAMP8, RAB10, ARSB, S100A11, AHSG, IQGAP2, PRG3, CSTB, PTX3, PPBP, S100P, FABP5, CLEC4D, ANPEP, RNASE3, LRG1, GUSB, CANT1, OLRI, PRG2, MCEMP1, LAMP1, ACAA1, PTPRB, PLAUR, QPCT, PTGES2, CTSB, ANXA2, LRMP, FCAR, VAT1, PIGR, IGFB2, GM2A, CEACAM3, CD300A, DYNLT1, QSOX1, VNN1, S100A12, CTSS, DPP7, FCN1, MMP9, LCN2, FGR, TNFRSF1B, APRT, NHLRC3, TXNDC5, SERPINA1, SIRPB1, ASAH1, CPED1, LAIR1, LILRB2, RAB37, NIT2, PSAP, CXCL1, CST3, GSTP1, HPSE, CD14, PTPN6, NAPRT, GPI, LAMP2, CRACR2A, SIGLEC9, CD36, SERPINA1, DBNL, IST1, ARHGAP45, CLEC4C, CD63, CLEC5A, SERPINA3, NPC2, ADAM8, PECAM1, CFD, GMFG, HMOX2, OSCAR, SERPINB6, B2M, BIN2, TNFRSF1A, MIF, OSM, HMOX1, LBP, TIMP1, CCL22, TGFBI, HGF, BLNK, DUSP3, NFKB1, LTA4H, AZU1, PRTN3, CTSO, MMP8, CEACAM8, C3, SNAP23, BST2,

Reactome	HSA-162582	Signal transduction	326	2540	0.22	5.39E-16	FKBP4, CX3CL1, ARHGEF5, TNFRSF1A, GOLGA3, MYH9, GZMB, CSNK2A1, OX1, CCL22, CCL17, SFRP1, TGFBI, PLIN3, CDC37, HGF, SERPINE1, CS, ACTA2, C1QBP, CCL13, DUSP3, CXCL6, NFKB1, LAMA4, HBEFG, SPARC, NCK2, DOK1, IL1RL1, PPP3R1, CTS5, CLTA, EREG, PSPN, C3, HSPB1, VGF, SNAP23, APOE, GFAP, DNAJB1, FST, MMP7, PLCB2, PEBP1, LMNB1, VWF, PPP2R5A, DSG2, FLT4, SMAAD5, AXIN1, EP300, KDR, CD80, FAM13A, RAPGEF2, FGF2, MGLL, EGF, NRP1, PRKAR2A, GAL, AMIGO2, ERBB3, PXN, TP53, ERBB2, PROK1, WNT9A, LRIG1, IQGAP2, EGFR, TNFRSF10B, FLT1, APP, RHOC, CASP10, WIF1, CXCL13, BAG4, KIT, ARAF, TFF1, PKN3, FGFRA4, BAX, STATS5B, ITGAS, CXCL16, INHBB, COL6A3, FSTL1, CXCL3, CXCL5, PPBP, PF4, ITGB5, FAPB5, ARF6, CXB, LEO1, MMP3, PLIN1, PPP1R14A, SPINT2, SOST, FADD, LTBP3, MAP2K1, FNTA, BCR, INSR, CXCL10, LETM1, SMAD1, FOS, ITPR1, CXCL8, CXCL11, F2, CCL19, PLG, ARHGAP1, CASP5, VEGFB, CASP2, IL1RAP, SWAP70, DNMBP, BAIAP2, MET, NUDC, TUBB3, F2R, STK11, TACC3, PPM1A, P4HB, CASP9, PDGFB, LEPR, HGS, CALCA, SMAAD3, WASF3, FHL3, FGD3, ARHGEF1, EBAG9, FGFBP3, GRAP2, FOXO3, PIK3AP1, LBR, EIF4EBP1, PTN, PPP1CC, SPINT1, RNH41, AV03, SH2B3, CRKL, PDGFA, FNI, PDE5A, DNMT3, GFRA1, OPHN1, RSP01, RSP03, SCRIB, CASP8, STIP1, CCL20, WWP2, PTPRF, NR2F, CCL28, CXCL9, CDC42BPB, ACTN2, DLL1, PARP1, MAPKAPK2, TAB2, PLA2G4A, NCF2, F11R, IL6R, GOPC, RGS10, MYO6, IRAK1, VAV3, XIAP, JUN, PTN1, PTEN, MMP9, ABL1, STK4, DNMT1, SRC, DKK1, PRKGI, ATP6V1G1, PARD3, BAMB1, MAGED1, COL4A1, BCL2L1, APBB1IP, WAS, ANXA1, GPC5, SPRY2, STAM, CCL7, EDN1, FOXO1, IL2RA, TEK, COL2A1, CD274, CAMKK1, YWHAQ, FGF9, PSME1, ACVRL1, AKT1S1, PPP1R12B, AKT2, WASF1, PRKARIA, GRK5, BCL2L1, DBN1, FABP6, DGKA, ARL13B, GIT1, PSAP, SPP1, DAAM1, LAT, BTC, CXCL1, CXCL12, TAX1BP1, USP8, ARHGEF12, BCL2, CDKN1A, MAD1L1, MDK, IL6, POLR2F, ARHGAP25, EIF4B, MLN, PPP1R12A, NFATC1, PTPN6, TNF, PENK, TIA1, BRAP, TGFA, GDNF, FGF2, DGK2, SEPTIN7, MST1, BDNF, EIF4G1, NDUFA5, ATP6V1F, NSF1C, HGFC, PDGFC, AMOTL2, EIF4E, ERBIN, ANGPT1, LYN, TFF3, ARHGEF10, BRK1, PTPRK, CALCB, TOR1AIP1, ADM, LATS1, ARHGAP45, PSMOD9, PRKAB1, SMAD5, FKBP5, NUMB, YES1, OTUD7B, APOC1, PAK4, MYO9B, CCL5, HMOX2, BIRC2, CCL3, CCL16, YAP1, IRAK1, VEGFC, CCL23, NEFL, CGA, CCL4, AP2B1, IKKKG, TBL1X, ICAM3, PILRA, ICAM5, C3, NECTIN2, ICAM1, NCR1, VCAM1, LILRB1, SIGLEC8, SIGLEC7, CLEC4G, CD300C, NCR3G1, ICAM4, KIR2DL3, SIGLEC10, FCGR2B, CD300A, SLAMF6, CD40LG, NPDC1, CD40, TREM2, HLA-E, COL2A1, CD99, LILRB4, LILRA2, LILRA1, LILRB2, CD300E, IL1RA6, COLECT2, PILRB, PVR, TREM1, IL1RA5, IL1RB5, SIGLEC9, ICAM2, TREM2, CD226, CD300F, OSCAR, B2M
Reactome	HSA-198933	Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell	46	130	0.66	1.82E-12	IL1RA6, COLECT2, PILRB, PVR, TREM1, IL1RA5, IL1RB5, SIGLEC9, ICAM2, TREM2, CD226, CD300F, OSCAR, B2M
Reactome	HSA-9006934	Signaling by Receptor Tyrosine Kinases	100	521	0.39	3.92E-12	CD37, HGF, DUSP3, LAMA4, HBEFG, SPARC, NCK2, CTS5, CLTA, EREG, HSPB1, VGF, APOE, GFAP, FLT4, EP300, KDR, FGF2, EGF, NRP1, ERBB3, PXN, ERBB2, LRG1, EGFR, FLT3, KIT, FGFFR, BAX, STATS5B, COL6A3, ARF6, SPINT2, MAP2K3, INSR, FOS, ITPR1, PLG, VEGFB, BAIAP2, MET, PDGFB, HGS, WASF3, FGFBP3, GRAP2, PTN, SPINT1, RNH41, SH2B3, CRKL, PDGFA, FNI, DNMT3, PTPRF, NR2F, MAPKAPK2, TAB2, NCF2, VAV3, PTPN1, MMP9, DNMT1, SRC, ATP6V1G1, COL4A1, SPRY2, STAM, COL2A1, CD274, FGF9, AKT2, WASF1, SPP1, BTC, CXCL12, USP8, MDK, POLR2F, PTPN6, TIA1, TGFA, FGF2, MST1, BDNF, ATP6V1F, HGFC, PDGFC, ERBIN, LYN, BRK1, PTPRK, YES1, YAP1, VEGFC, ARB4, KITLG, IGF1R, NLG4, AKT3
Reactome	HSA-381426	Regulation of Insulin-like Growth Factor (IGF) transport and uptake by Insulin-like Growth Factor Binding Proteins (IGFBPs)	44	124	0.66	5.43E-12	BP1F8, SERPIND1, LGSAL1, GZMH, TIMP1, APOB, IGFBP2, PROC, APOA1, C3, VGF, APOE, VCAN, TNC, CDH2, IGFBP4, AHSJ, IGFBP1, APP, FSTL1, SHISAS, F2, PLG, APO1, MMP1, CSF1, P4HB, PAPP, GAS6, FNI, QSOX1, SERPINC1, APOA2, CHGB, MSLN, SPP1, APP, CST3, MATN3, IL6, TF, PENK, SERPINA1, FGA
Reactome	HSA-1474244	Extracellular matrix organization	70	300	0.48	1.24E-11	ICAM3, CEACAM1, CEACAM6, NID2, TIMP1, TGFBI, ICAM5, SERPINE1, LAMA4, SPARC, CTS5, MMP8, CEACAM8, NCAN, CTSV, MMP7, VWF, TIMP2, KDR, NID1, FGF2, KLKB1, ICAM1, VCAN, TNC, ADAMTS16, APP, ITGA5, VCAM1, COL6A3, ITGB5, JAM3, MMP3, MMP1, LTBP3, PLG, PHYKL, CASP3, MMP1, P4HB, PDGFB, ICAM4, CTS5, CTSB, PDGFA, FNI, COL18A1, DMD, ADAMT5, F11R, CTS5, MMP9, SDC4, HSPG2, COL15A1, COL4A1, AGRN, COL2A1, EFEMP1, SPP1, MATN3, ITGA6, ICAM2, DDR1, SERPINH1, DAG1, ADAM8, PECCAM1, MMP12, FGA
Reactome	HSA-1643685	Disease	221	1702	0.22	1.26E-10	FKBP4, CD4, ST6GAL1, TCN2, HMOX1, MYH9, AHCY, F9, CORO1A, TGFBI, CDC37, HGF, BLNK, C1QBP, NFKB1, HBEFG, EIF2AK2, APOA1, VPS4B, CLTA, NMI, EREG, C3, GGT1, NCAN, BST2, F12, GRSF1, SNAP25, AP3B1, NTSE, TLR2, FOX1, KHK, SYTL1, PEBP1, LMNB1, VWF, PPP2R5A, SMAAD2, ELOB, AXIN1, PDX1, EP300, IL18, KDR, FGF2, KLKB1, ARSB, VCAN, EGF, NRP1, PRKAR2A, ERBB3, PPM2, TP53, ERBB2, IFNARI, ADAMTS16, MMJUT, EGFR, SERPING1, IL18, LY96, APP, BAG4, KIT, ARAF, FGFRA4, STATS5B, PVB, SLCT27A4, FADD, MAP2K1, GUSB, FNTA, BCR, ITPR1, EIF2AK3, F2, BAG1, TPMT, STAT2, BANTP2, MET, CHMP6, GYS1, MPR1, VPS37A, TUBB3, IL17RA, TALDO1, TRIM25, NOS2, GP1BA, CASP9, PDGFB, HGS, SMAAD3, WASF3, ENTPD5, LAR1, FOXO3, PIK3AP1, TRIM24, PPP1CC, SVTA, ADAMTSL2, PDGFA, FNI, CASP9, PCBP2, FUT8, COMT, DCTN1, BECN1, DLL1, PARP1, FGFRI1OP, TAB2, VTA1, ADAMT5A4, IL6R, SV2A, IRAK1, VAV3, ZBP1, JUN, PTEN, ABL1, SDC4, SRC, RPA2, DKK1, FGR, CDC26, TXN, HSPG2, RNF5, F10, OGN, BCL2L1, APBB1IP, HNRNP, HLA-E, WAS, GPC5, VPS28, STAM, SUGT1, APRT, AGRN, FOXO1, DDX58, PS CCL3, TNFRSF9, IRAK4, CCL4, IKKKG, B2M, IL19, AKT3A, WASF1, PRKARIA, BCL2L1, SRPK2, FOX2, SEC31A, BTC, GNE, CHMP1A, GP1BB, GPs, ACY1, CDKN1A, F11, CD14, IL6, POLR2F, PTPN6, ELOA, SFTPA1, RANBP1, MAVS, BRAP, TGFA, FGF2, CD36, XRC4, ERBIN, ST3GAL1, LYN, BRK1, CASP1, TXNRD1, CD27, PSMOD9, SLC16A1, ADG1, SOD2, MRC1, DPEP2, SPON1, YES1, MAP2K6, NMT1, MYO9B, IRAK4, OPLAH, AP3B1, IKKKG, HAVERC1, ENO1, TBL1X, KITLG, B2M, FGA, BIN2, BTD, AKT3, CD74, CD4, ICAM3, KIF22, PILRA, DCTN6, ICAM5, BLNK, NFKB1, PPP3R1, CTS5, CLTA, C3, VASP, SNAP23, NECTIN2, TRIM21, CTSV, TLR2, PPP2R5A, BLHM, ELOB, VAMP8, CD80, ICAM1, NFKBIE, LY96, UBE2L6, NCR1, VCAM1, ITGB5, PDIA3, RILP, THO1, ITPR1, LILRB1, STX4, TUBB3, SIGLEC8, SIGLEC7, CLEC4G, CD300C, ZBTB16, GRAP2, PIK3AP1, PPL, NCR3LG1, ICAM4, KIR2DL3, RNF41, SIGLEC10, CTS5, CTSB, DNMT3, TNFRSF14, FCGR2B, CD300A, UBE2Z, DCTN1, BECN1, ENAH, TAB2, NCF2, SLAMF6, CTS5, CD101, CDML6, NPDC1, PTEN, CD40, DNMT1, TREM2, SRC, PRKGI, CDC36, HLA-E, WAS, BTN3A2, COL2A1, CD99, CD274, PSME1, LILRB4, LILRA2, LILRA1, LILRB2, AKT2, CD300E, IGMN, SEC31A, LAT, LILRA6, COLECT2, IFI30, CD14, NFATC1, PTPN6, PILRB, PVR, TREM1, IL1RA5, IL1RB5, SIGLEC9, CTS5, ICAM2, CD36, TRIM21, DAPK1, LYN, CDC27, RAMP3, ARF6, CD36, CD300E, YES1, OSCAR, APOB, HSP90, BAX, BAX, FGA, AKT3
Reactome	HSA-1280218	Adaptive Immune System	122	758	0.32	2.33E-10	BP1F8, SERPIND1, LGSAL1, TIMP1, APOB, IGFBP2, PROC, APOA1, C3, VGF, APOE, VCAN, TNC, CDH2, IGFBP4, AHSJ, IGFBP1, APP, FSTL1, SHISAS, APO1, CSF1, P4HB, GAS6, FNI, QSOX1, SERPINC1, APOA2, CHGB, MSLN, SPP1, APP, CST3, MATN3, IL6, TF, PENK, SERPINA1, FGA
Reactome	HSA-8957275	Post-translational protein phosphorylation	38	107	0.66	2.33E-10	CD74, CEACAM1, CEACAM6, MIF, TGFBI, CEACAM5, APOB, PROC, CEACAM8, SELP, DOK2, TNFRSF10B, ESAM, ITGA5, MERTK, PF4, JAM3, F2, GP6, PSG1, OLR1, CD84, ANGPT2, MMP1, SELE, GAS6, FNI, CEACAM3, F11R, CD244, SDC4, SRC, TEK, CD99, PROS1, ITGA6, PTPN6, ANGPT1, LYN, SLC16A1, PECCAM1, YES1, CD9912
Reactome	HSA-202733	Cell surface interactions at the vascular wall	43	139	0.6	3.46E-10	OSM, HMOX1, LBP, TIMP1, CCL22, TGFBI, HGF, LIF, IL1B, FGF2, ICAM1, TP53, IL18, BATF, VCAM1, MMP3, FOS, CXCL8, MMP1, NOS2, FOXO3, FNI, IL6R, IL13RA1, MMP9, LCN2, BCL2L1, TNFRSF1B, ANXA1, FOXO1, BCL2, CDKN1A, IL6, TNF, CD36
Reactome	HSA-140877	Formation of Fibrin Clot (Clotting Cascade)	22	39	0.86	1.09E-08	SERPIND1, F9, C1QBP, TFP1, PROC, PRTN3, F12, VWF, KLKB1, SERPING1, PF4, F2, F2R, GP1BA, SERPINC1, F10, PROS1, GP1BB, GP5, F11, SERPINE2, FGA
Reactome	HSA-380108	Chemokine receptors bind chemokines	25	57	0.75	3.55E-08	CXCL11, CCL22, CCL17, CCL13, CXCL6, CXCL3, CXCL5, PPBP, PF4, CXCL10, CXCL8, CXCL11, CCL19, CCL20, CCL18, CXCL9, CXCL7, CXCL1, CXCL12, CCL5, CCL3, CCL16, CCL4
Reactome	HSA-140837	Intrinsic Pathway of Fibrin Clot Formation	17	23	0.98	6.72E-08	SERPIND1, F9, C1QBP, PROC, F12, VWF, KLKB1, SERPING1, F2, GP1BA, SERPINC1, F10, PROS1, GP1BB, GP5, F11, SERPINE2
Reactome	HSA-6783783	Interleukin-10 signaling	22	45	0.8	7.61E-08	TNFRSF1A, TIMP1, CCL22, LIF, IL1RN, IL1B, CD80, ICAM1, IL18, CXCL10, CXCL8, CCL19, CSF1, IL1R2, CCL20, TNFRSF1B, CXCL1, IL6, TNF, CCL5, CCL3, CCL4
Reactome	HSA-166658	Complement cascade	24	59	0.72	2.31E-07	CPB2, C5, C3, CFHR5, C9, SERPING1, FCN2, C2, F2, CD46, CLU, C7, CFHR2, CFHR4, CFH, C8B, FCN1, PROS1, CFI, C1S, CFB, C1R, CFD, CD59
Reactome	HSA-977606	Regulation of Complement cascade	21	49	0.74	1.06E-06	CPB2, C5, C3, CFHR5, C9, SERPING1, C2, F2, CD46, CLU, C7, CFHR2, CFHR4, CFH, C8B, PROS1, CFI, C1S, CFB, C1R, CFD, CD59
Reactome	HSA-5663202	Diseases of signal transduction by growth factor receptors and second messengers	70	430	0.32	6.10E-06	MYH9, TGFBI, CDC37, HGF, HBEFG, EREG, AP3B1, PEBP1, VWF, PPP2R5A, SMAAD2, AXIN1, EP300, KDR, CD80, FGF2, EGF, ERBB3, ERBB2, EGFR, BAG4, KIT, ARAF, FGFRA4, STATS5B, MAP2K1, BCR, EIF2AK3, MET, CASP9, PDGFB, SMAAD3, FOXO3, PIK3AP1, PIK3A1, TRIM24, PPP1CC, PDGFA, FNI, DCTN1, DLL1, FGFRI1OP, PTEN, SRC, DKK1, BCL2L1, APBB1IP, FOXO1, FGF9, PSME1, AKT1S1, LRRFP1, AKT2, PRKARIA, BCL2L1, SEC31A, BTC, CDKN1A, POLR2F, BRAP, TGFA, FGF2, ERBIN, LYN, PSMOD9, YES1, TBL1X, KITLG, FGA, BIN2, AKT3
Reactome	HSA-2219528	PI3K/AKT Signaling in Cancer	29	105	0.55	6.41E-06	HGF, HBEFG, EREG, CD80, FGF2, EGF, ERBB3, ERBB2, EGFR, KIT, FGFRA4, MET, CASP9, PDGFB, FOXO3, PIK3AP1, PDGFA, PTEN, SRC, FOXO1, FGF9, AKT1, BTC, TGFA, FGF2, IRAK4, KITLG, AKT3
Reactome	HSA-199418	Negative regulation of the PI3K/AKT network	30	113	0.53	7.73E-06	IRAK4, PTEN, SRC, FGF9, AKT1, BTC, TGFA, FGF2, IRAK4, KITLG, AKT3
Reactome	HSA-5653656	Vesicle-mediated transport	95	666	0.26	8.18E-06	MGRN, CD4, KIF22, SNAP25, MYH9, DCTN6, PLIN3, HBEFG, SPARC, APOB, APOA1, VPS4B, CLTA, EREG, SNAP23, APOE, HIP1R, APP3B1, SORL1, RAB39A, STX6, PREB, SYTA1, RAB27B, SCARF1, VAMPB, RAB10, SCARB2, USO1, EGF, EGFR, APP, SCGB3A2, ARF6, APCS1R1, AP1G2, DAB2, CHMP6, APO1, STX4, VPS37A, GCCL1, MARCO, TUBB3, KIF1C, COPB2, HGS, DNMT3, MAN1A2, IGF2R, SNM, DCTN1, PLA2G4A, VTA1, MYO6, STXB3, DNAIC6, STX16, DNMT1, RABEPK, SRC, LIDRAP1, COL4A1, VPS28, STAM, SNX5, KIAA0319, SNX2, TXNDC5, YWHAQ, STAB2, SSCSD, ALPP, AKT2, SNX9, VTI1A, SEC31A, BTC, CSNK1D, COLECT12, TF, MCFD2, NECAP2, BLOC1S3, VPS53, TGFA, MSRI, CD36, SERPINA1, PRKAB1, BARF1, HMOX1, AP2B1, CD59, AKT2

Reactome	HSA-375276	Peptide ligand-binding receptors	40	194	0.42	2.21E-05	CX3CL1, OXT, CCL22, CCL17, C5, CCL13, CXCL6, C3, GAL, PROK1, APP, CXCL13, CXCL16, CXCL3, CXCL5, PPBP, PF4, CXCL10, CXCL8, CXCL11, F2, CCL19, F2R, GHRL, CCL20, CCL28, CXCL9, ANXA1, CCL7, EDN1, PSAP, CXCL1, CXCL12, MLN, PENK, CCL5, CCL3, CCL16, CCL23, CCL4
Reactome	HSA-1430728	Metabolism	229	2092	0.15	2.52E-05	MRI1, OXCT1, GSTA3, ATP5F1D, NDUFB7, TCN2, HMOX1, ARSA, CSNK2A1, AHY, GLA, ACP5, NME3, PLA2G5, CRYM, DECR1, GSR, PLIN3, SULT2A1, NAMPT, AK1, MVK, LTA4H, ACOT13, DNPH1, RBP2, APOB, NTS1A, APOA1, MCEE, NTS, C, UROD, GG1, RRM2B, APOE, NCAN, RIDA, SNAP25, FABP4, TCN1, NTS, COX5B, NDU1T5, FDX1, PLCB2, GCHFR, KHK, ARG2, MARS1, SPTLC1, EP300, MECP, DARS1, KYNU, PIKFYVE, BCHE, ARSB, MGLL, VCAN, PECR, PRKAR2A, SORD, PGD, FABP2, NDUFS6, MMUT, GGCT, HMMT, QDPR, DDAH1, AKR1B1, THTPA, GSTT2B, ACOX1, CHAC2, GNPDA2, FABP1, FABP5, INPPL1, KCB, PCBD1, PLIN1, CA4, CACNB3, GPD1, ANGPTL4, GUS8, DTYMK, ITPR1, ADH1B, B4GAT1, PHYKPL, TPMT, GRHPR, GBA, OSBP2, GYS1, SHMT1, CA13, TALDO1, VNN2, COQ7, DCTPP1, STK11, GLRX5, ACA11, ENTDP5, GSTA1, LBR, SMPD1, PPP1CC, SERPINA6, PPCDC, PTGES2, PDDXL2, DCTD, GM2A, RPE, AKR1B10, TPX1, RRM2, H3S3T81, COMT, HSD17B1, PFKFB2, MAPKAPK2, PLA2G4A, VNN1, APOA2, PMVK, ECHS1, LHPP, ACADS, TNFAIPB2, GOT1, ACADM, PTEN, SDC4, STXBP1, GLO1, FABP3, MED18, LDLRAP1, HMGCL, TXN, HSPG2, HSD17B3, SDHB, OGN CCL3, TNFRSF9, IRAK4, CCL4, IKBKG, B2M, IL19, AKT34, WASF1, PRKAR1A, BCL2L11, SRPK2, FDX2, SEC31A, BTC, GNE, CHMP1A, GP1BB, G5, ACY1, CDKN1A, F11, CD14, IL6, POLR2F, PTPN6, ELOA, SFTPA1, RANBP1, MAVS, BRAP, TGFA, FGFR2, CD36, XRCC4, ERBIN, ST3GAL1, LYN, BRK1, CASP1, TXNRD1, CDC27, PSM29, SLC16A1, DAG1, SOD2, MRC1, DPEP2, SPON1, YES1, MAP2K6, NMT1, MYO9B, IRAK4, OPLAH, AP2B1, IKBKG, HAVCR1, ENO1, TBL1X, KITLG, B2M, FGA, BIN2, BTD, AKT3, SERPINA3, NPC2, ADAM8, PECAM1, YES1, CFD, MAP2K6, MYO9B, GMFG, HMOX2, BIRC2, NOS1, OSCAR, IRAK4, NME3, GSR, AK1, DNPH1, NTS1A, NTS5, RRM2B, NTS5, NUDT15, DTYMK, DCTPP1, ENTDP5, DCTD, RRM2, TXN, APR7, GLRX, ITPA, DUT, TYMP, NUDT5, NUDT16, TXNRD1, GMPR2, NTS3A, AK2
Reactome	HSA-15869	Metabolism of nucleotides	26	97	0.54	4.08E-05	NME3, ICAM5, VWF, KDR, ICAM1, TNC, ITGA5, VCAM1, COL6A3, ITGB5, JAM3, ICAM4, FN1, COL18A1, F11R, HSPG2, COL4A1, AGRN, COL2A1, SPPI, ITGA6, ICAM2, PECAM1, FGA
Reactome	HSA-216083	Integrin cell surface interactions	24	85	0.56	4.88E-05	TNFRSF17, TNFRSF14, EDAR, TNFRSF13B, CD27, TNFSF13, TNFRSF14, TNFRSF6B, TNFSF13B, TNFRSF1B, EDA2R, CD70, TNFSF14, TNFRSF9
Reactome	HSA-5669034	TNFs bind their physiological receptors	14	28	0.81	5.11E-05	HGF, HBEGF, IL1RL1, EREG, PPP2R5A, CD80, FGF2, EGF, ERBB3, ERBB2, EGFR, KIT, FGFR4, INSR, IL1RAP, MET, PDGFB, PIK3AP1, PDGFA, IRAK1, SRC, FGF9, BTC, TGFA, FGFR2, IRAK4, KITLG
Reactome	HSA-6811558	PISP, PP2A and IER3 Regulate PI3K/AKT Signaling	27	106	0.51	5.31E-05	GZMB, CDC37, CIQBP, PPP3R1, LMNB1, DSG2, IL1B, ADD1, TP53, TNFRSF10B, IL18, LY96, BAX, FADD, FNTA, CASP3, CHMP6, BID, CASP9, OCLN, CASP8, CASP7, XIAP, MAGED1, BCL2L1, STK24, DFFA, YWHAQ, PSME1, AKT2, BCL2L11, BCL2, CD14, DBN1, CASP1, PSM29, NMT1, BIRC2, DAPK2, AKT3
Reactome	HSA-5357801	Programmed Cell Death	40	206	0.4	6.97E-05	F9, F12, VWF, KLB1, SERPING1, F2, GP1BA, F10, GP1BB, G5, F11
Reactome	HSA-9651496	Defects of contact activation system (CAS) and kallikrein/kinin system (KKS)	11	16	0.95	7.32E-05	LBP, DUSP3, NFKB1, APOB, TANK, CTSV, TLR2, TP53, LY96, APP, FADD, MAP2K1, FOS, CTSL, CTSB, DNMT3, CASP8, MAPKAPK2, TAB2, S100A12, CTSS, IRAK1, JUN, DNMT1, LGMN, CD14, MAPK9, SFTPA1, CD36, MAP2K6, BIRC2, IRAK4, IKBKG, FGA
Reactome	HSA-168898	Toll-like Receptor Cascades	34	161	0.43	8.12E-05	GZMB, CIQBP, PPP3R1, TP53, BAX, CASP3, BID, CASP9, CASP8, CASP7, XIAP, BCL2L1, YWHAQ, AKT2, BCL2L11, BCL2, NMT1, AKT3
Reactome	HSA-109606	Intrinsic Pathway for Apoptosis	18	52	0.65	9.14E-05	TNFRSF17, TNFRSF14, LTR, EDAR, TNFRSF13B, CD27, TNFSF13C, TNFSF12, TNFRSF12A, TNFSF13, TNFRSF14, TNFRSF6B, CD40LG, CD40, TNFSF13B, TNFRSF1B, PSME1, EDA2R, CD70, TNF, PSM29, TNFSF11A, TNFSF14, BIRC2, TNFRSF9
Reactome	HSA-5668541	TNFR2 non-canonical NF-kB pathway	25	99	0.51	0.00013	GZMB, CIQBP, PPP3R1, LMNB1, DSG2, ADD1, TP53, TNFRSF10B, LY96, BAX, FADD, FNTA, CASP3, BID, CASP9, OCLN, CASP8, CASP7, XIAP, MAGED1, BCL2L1, STK24, DFFA, YWHAQ, PSME1, AKT2, BCL2L11, BCL2, CD14, DBN1, PSM29, NMT1, BIRC2, DAPK2, AKT3
Reactome	HSA-109581	Apoptosis	35	175	0.41	0.00015	HGF, HBEGF, EREG, PSPN, HSPB1, DNAJB1, PEPP1, VWF, PPP2R5A, RARGEF2, FGF2, EGF, ERBB3, ERBB2, EGFR, KIT, ARAF, FGFR4, MAP2K1, FNTA, MET, PDGFB, FOXO3, PPP1CC, PDGFA, FN1, GFRA1, ACTN2, IL6R, JUN, SRC, BCL2L1, APBB1IP, FOXO1, IL2RA, TEK, FGF9, PSME1, LAT, BTC, IL6, BRAP, TGFA, GDNF, EGER2, SEPTIN7, ANGPT1, PSM29, NEFL, KITLG, DLG4, FGA
Reactome	HSA-5683057	MAPK family signaling cascades	52	322	0.32	0.00021	KBPA, CD4, STGAL1, HMOX1, MYH9, CORO1A, TGFBI, BLNK, NFKB1, HBEGF, EIF2AK2, VPS4B, CLTA, NMI, C3, GGT1, BST2, GRSF1, SNAP25, NTS, TLR2, SYT1, ELOB, EP300, IL1B, NRP1, PRKAR2A, IFNAR1, EGFR, IL18, APP, PPIB, MAP2K1, FNTA, ITPR1, BAIAP2, BAIAP2, MET, CHMP6, VPS37A, TUBB3, IL17RA, TRIM25, NOS2, HGS, SMAD3, WASF3, ENTDP5, LARP1, CTSL, PCBP2, FUTA, COMT, BECN1, PARP1, TAB2, VTA1, IL6R, SV2A, IRAK1, VAV3, ZBP1, JUN, ABL1, SDC4, SRC, FGR, TXN, HSPG2, BCL2L1, HNRNPK, HLA-E, WAS, GPC5, VPS28, STAM, SUGT1, AGRN, DDX58, PIP1, YWHAQ, PSME1, AKT2, WASF1, PRKAR1A, SRPK2, CHMP1A, IL6, POLR2F, PTPN6, ELOA, RANBP1, MAVS, XRCC4, ST3GAL1, LYN, BRK1, CASP1, TXNRD1, PSM29, MRC1, DPEP2, YES1, MAP2K6, NMT1, MYO9B, AP2B1, IKBKG, HAVCR1, ENO1, IL1B, IL6, BRAP, TGFA, GDNF, EGER2, SEPTIN7, ANGPT1, PSM29, NEFL, KITLG, DLG4, FGA
Reactome	HSA-499943	Interconversion of nucleotide di- and triphosphates	13	29	0.76	0.00025	NME3, GSR, AK1, RRM2B, DTYMK, DCTPP1, DCTD, RRM2, TXN, GLRX, DUT, TXNRD1, AK2
Reactome	HSA-8863795	Downregulation of ERBB2 signaling	13	29	0.76	0.00025	CDK37, HBEGF, EREG, EGF, ERBB3, ERBB2, EGFR, RNF41, AKT2, BTC, USP8, ERBIN, AKT3
Reactome	HSA-2219530	Constitutive Signaling by Aberrant PI3K in Cancer	21	78	0.54	0.00031	HGF, HBEGF, EREG, CD80, FGF2, EGF, ERBB3, ERBB2, EGFR, KIT, FGFR4, MET, PDGFB, PIK3AP1, PDGFA, SRC, FGF9, BTC, TGFA, FGFR2, KITLG
Reactome	HSA-5676594	TNF receptor superfamily (TNFSF) members mediating non-canonical NF-kB pathway	10	17	0.88	0.00048	LTBR, TNFRSF13C, TNFSF12, TNFRSF12A, CD40LG, CD40, TNFSF13B, TNFRSF11A, TNFSF14, BIRC2
Reactome	HSA-1474228	Degradation of the extracellular matrix	29	140	0.43	0.00051	TIMP1, CTSD, MMP8, CTSV, MMP7, TIMP2, NID1, KLB1, ADAMTS16, COL6A3, MMP3, PLG, PHYKPL, CASP3, MMP1, CTSL, CTSB, FN1, COL18A1, ADAMTS4, CTSS, MMP9, HSPG2, COL15A1, COL4A1, COL2A1, SPPI, ADAM8, MMP12
Reactome	HSA-2173782	Binding and Uptake of Ligands by Scavenger Receptors	15	43	0.65	0.00051	SPARC, APOB, APOA1, APOE, SCARF1, SCGB3A2, APO1, MARCO, COL4A1, STAB2, SSCSD, COLEC12, MSR1, CD36, HYOU1
Reactome	HSA-75205	Dissolution of Fibrin Clot	9	13	0.95	0.00051	SERPINE1, HRG, PLG, SERPINF2, SERPINB8, PLAUR, ANXA2, SERPINE2, SERPINB6
Reactome	HSA-140875	Common Pathway of Fibrin Clot Formation	11	22	0.81	0.00052	SERPIND1, PROC, PRTN3, PF4, F2, F2R, SERPIN1, F10, PROS1, SERPINE2, FGA
Reactome	HSA-5684996	MAPK1/MAPK3 signaling	46	283	0.32	0.00053	HGF, HBEGF, EREG, PSPN, PEPP1, VWF, PPP2R5A, RARGEF2, FGF2, EGF, ERBB3, ERBB2, EGFR, KIT, ARAF, FGFR4, MAP2K1, FNTA, MET, PDGFB, PPP1CC, PDGFA, FN1, GFRA1, ACTN2, IL6R, SRC, BCL2L1, APBB1IP, IL2RA, TEK, FGF9, PSME1, LAT, BTC, IL6, BRAP, TGFA, GDNF, EGER2, ANGPT1, PSM29, NEFL, KITLG, DLG4, FGA
Reactome	HSA-9614085	FOXO-mediated transcription	18	65	0.55	0.00089	RETN, SMAD2, EP300, IGFBP1, STK11, SMAD3, FOXO3, PLXNA4, TXN, KLF4, FOXO1, YWHAQ, AKT2, BCL2L11, CDKN1A, SOD2, ATXN3, AKT3
Reactome	HSA-163560	Triglyceride catabolism	11	24	0.77	0.00092	PLIN3, FABP4, MGLL, FABP2, FABP1, FABP5, PLIN1, PPP1CC, FABP3, FABP9, FABP6
Reactome	HSA-3000171	Non-integrin membrane-ECM interactions	17	59	0.57	0.00092	TGFBI, LAMA4, FGF2, TNC, ITGB5, PDGFB, PDGFA, FN1, DMD, SDC4, HSPG2, COL4A1, AGRN, COL2A1, ITGA6, DDR1, DAG1
Reactome	HSA-9634638	Estrogen-dependent nuclear events downstream of ESR-membrane signaling	11	24	0.77	0.00092	HBEGF, EREG, EGF, EGFR, FOS, FOXO3, AKT2, BTC, BCL2, TGFA, AKT3
Reactome	HSA-199991	Membrane Trafficking	81	626	0.22	0.00093	M6PR, CD4, KIF22, SNAP29, MYH9, DCTN6, PLIN3, HBEGF, APOB, VPS4B, CLTA, EREG, SNAP23, HIP1R, AP3B1, SORT1, RAB33A, STX6, PREB, SYT1, RAB27B, VAMPB, RAB10, SCARB2, USO1, EGF, EGFR, APP, ARF6, ASPSCR1, AP1G2, DAB2, CHMP6, STX4, VPS37A, GCC1, TUBB3, KIF1C, COPB2, HGS, DNMT3, MAN1A2, IGF2R, CHM, DCTN1, PLA2G4A, VTA1, MYO6, STXB3, DNAIC6, STX16, DNMT1, RABEPK, SRC, LDLRAP1, VPS28, STAM, SNX5, KIAA0319, SNX2, TXNDC5, YWHAQ, ALPP, AKT2, SNX9, VTI1A, SEC31A, BTC, CSNK1D, TFC, MCFD2, NECAP2, BCL11S, VPS53, TGFA, SERPINA1, PRKAB1, RABEP1, AP2B1, CD59, AKT3
Reactome	HSA-166016	Toll Like Receptor 4 (TLR4) Cascade	28	139	0.41	0.00094	LBP, DUSP3, NFKB1, TANK, TLR2, TP53, LY96, APP, FADD, MAP2K1, FOS, DNMT3, CASP8, MAPKAPK2, TAB2, S100A12, IRAK1, JUN, DNMT1, CD14, MAPK9, SFTPA1, CD36, MAP2K6, BIRC2, IRAK4, IKBKG, FGA
Reactome	HSA-9658195	Leishmania infection	31	165	0.38	0.0011	HMOX1, MYH9, NFKB1, C3, GGT1, NTS5, IL1B, PRKAR2A, IL18, APP, ITPR1, BAIAP2, WASF3, ENTDP5, VAV3, JUN, ABL1, SRC, FGR, TXN, WAS, SUGT1, WASF1, PRKAR1A, IL6, LYN, BRK1, CASP1, DPEP2, YES1, MYO9B
Reactome	HSA-3299685	Detoxification of Reactive Oxygen Species	13	36	0.67	0.0012	GSR, PRDX1, PRDX5, SOD1, PRDX3, P4HB, NCF2, TXN, NUDT2, GSTP1, ATOX1, TXNRD1, SOD2
Reactome	HSA-5673001	RAF/MAP kinase cascade	44	277	0.31	0.0012	HGF, HBEGF, EREG, PSPN, PEPP1, VWF, PPP2R5A, RARGEF2, FGF2, EGF, ERBB3, ERBB2, EGFR, KIT, ARAF, FGFR4, MAP2K1, FNTA, MET, PDGFB, PPP1CC, PDGFA, FN1, GFRA1, ACTN2, SRC, BCL2L1, APBB1IP, IL2RA, TEK, FGF9, PSME1, LAT, BTC, BRAP, TGFA, GDNF, FGFR2, ANGPT1, PSM29, NEFL, KITLG, DLG4, FGA

Reactome	HSA-168643	Nucleotide-binding domain, leucine rich repeat containing receptor (NLR) signaling pathways	16	55	0.57	0.0013	HMOX1, NFKB1, APP, CASP2, CASP9, CASP8, TAB2, IRAK1, TXN, BCL2L1, SUGT1, BCL2, CASP1, MAP2K6, BIRC2, IKKKG
Reactome	HSA-9660826	Purinergic signaling in leishmaniasis infection	11	26	0.74	0.0014	CDC37, HBEGF, EREG, EGF, ERBB3, ERBB2, EGFR, RNF41, SRC, AKT2, BTX, USP8, ERBIN, YES1, AKT3
Reactome	HSA-1227986	Signaling by ERBB2	15	50	0.59	0.0016	M6PR, CD4, HBEGF, APOB, CLTA, EREG, HIP1R, SYT1, VAMP8, SCARB2, EGF, EGFR, ARF6, DAB2, HGS, DNMS3, IGF2R, DNAJC6, DNMI1, LDLRAP1, STAM, KIAA0319, SNX9, BTC, TF, NECAP2, TGFA, AP2B1
Reactome	HSA-8856828	Clathrin-mediated endocytosis	28	145	0.39	0.0016	CSNK2A1, HGF, HBEGF, IL1RL1, EREG, PPP2R5A, CD80, FGF2, EGF, ERBB3, TP53, ERBB2, EGFR, KIT, FGFR4, INSR, ILIRAP, MET, CASP9, PDGFR, FOXO3, PIK3AP1, PDGFA, WWP2, IRAK1, XIAP, JUN, PTEN, SRC, FOXO1, FGF9, PSME1, AKT1S1, AKT2, BTC, CDKN1A, TGFA, FGF2, PSMID9, IRAK4, KITLG, AKT3
Reactome	HSA-1257604	PIP3 activates AKT signaling	42	266	0.31	0.0017	M6PR, CLTA, SNAP23, HIP1R, AP3B1, SORT1, VAMP8, APP, AP1G2, STX4, HGS, IGF2R, DNAJC6, SNX5, SNX2, TXNDC5, SNX9, BLOC1S3
Reactome	HSA-199992	trans-Golgi Network Vesicle Budding	18	72	0.51	0.0021	USP28, VASH1, STGAL1, BPIFB2, CPB2, DHPS, SERPIND1, LGSAL1, ARSA, GZMH, EIF5, CSNK2A1, F9, TIMP1, DCTN6, TBC8, TGFBI1, CEACAM5, APOB, IGF2R, PROC, CTSD, APOA1, C3, VGF, APOE, APC5, NARS1, RAB33A, NPL, PREB, MAR51, RAB27B, SMAD2, ELOB, AXIN1, UFD1, EP300, COMMD9, CNTN3, DARS1, TOP2B, BCHE, RAB10, USO1, ARS5, VCAN, TNC, PNM2, CDH2, ASGR1, TP53, IGF2R, REN, AHS6, ADAMTS16, PLA2G7, IGF2R1, FUOM, CCT5, ADGRF5, APP, UBE2L6, AMFR, UBXN1, INHBB, FSTL1, SHISA5, GALNT10, ABRAXAS2, LEO1, ANPEP, PDIA3, LY6D, MRPL58, SMAD1, TBCA, TADA3, COMMD1, F2, PLG, B4GAT1, MRPL46, GHI, MSRA, GBA, APO11, TNIP1, MPI, TUBB3, FARSA, VNN2, MMP1, GADD45GIP1, TRIM25, CSF1, P4HB, COPB2, PAPPB, HGS, CALCA, GAS6, SMAD3, GHR1, ZBTB16, PLAUR, PARK7, EIF4EBP1, ADAMTS12, FN1, ASGR2, MRPL52, WARS1, MAN1A2, CHM, RAD23B, FUT8, UBE2Z, MRPL24, DCTN1, BECN1, TOMM20, PARP1, ULBP2, QSOX1, SERPINC1, VNN1, APOA2, ADAMTS4, PFDN2, CETN2, XPNPEP2, PTEN, TBC8, YARS1, TXN, KLF4, HSPG2, EIF2S2, RNF5, F10, HNRNP3, STAM, RECK, CHGB, EIF1AX, DDX58, MTF13, PSME1, M, GRAP2, FOXO3, PIK3AP1, LBR, EIF4EBP1, PTN, PPP1CC, SPINT1, RNF41, APOD, SH2B3, CRKL, PDGFA, FN1, PDE5A, DNMT3, GFRA1, OPHN1, RSP01, RSP03, SCRI8, CASP8, STIP1, CCL20, WWP2, PTPRF, NRP2, CCL28, CXCL9, CDC42BPB, ACTN2, DLL1, PARP1, MAPKAPK2, TAB2, PLA2G4A, NCF2, F11R, IL6R, GOPC, RGS10, MYO6, IRAK1, VAV3, XIAP,
Reactome	HSA-9006925	Intracellular signaling by second messengers	46	306	0.29	0.0022	CSNK2A1, HGF, HBEGF, IL1RL1, EREG, PPP2R5A, CD80, FGF2, EGF, PRKAR2A, ERBB3, TP53, ERBB2, EGFR, KIT, FGFR4, INSR, ITPR1, ILIRAP, MET, CASP9, PDGFR, FOXO3, PIK3AP1, PDGFA, WWP2, IRAK1, XIAP, JUN, PTEN, SRC, FOXO1, CAMKK1, FGF9, PSME1, AKT1S1, AKT2, PRKARIA, BTC, CDKN1A, TGFA, EGER2, PSMID9, IRAK4, KITLG, AKT3
Reactome	HSA-449836	Other interleukin signaling	10	24	0.73	0.0031	CD4, PRTN3, SNAP25, IL16, CASP3, STX4, CSF1, IFN1L1, CSF3R, TXLNA
Reactome	HSA-9711123	Cellular response to chemical stress	33	195	0.34	0.0032	GSTA3, HMOX1, GSR, PRDX1, EP300, PRDX5, SOD1, PGD, FAPB1, PRDX3, TALDO1, P4HB, GSTA1, NCF2, TXN, NUDT2, PSME1, AKT2, GSTP1, BACH1, CDKN1A, ATOX1, TXNRD1, PSMID9, SOD2, COX6B1, HMOX2, TBL1X, AKT3
Reactome	HSA-8856825	Cargo recognition for clathrin-mediated endocytosis	22	105	0.43	0.0033	M6PR, CD4, HBEGF, APOB, CLTA, EREG, SYT1, VAMP8, SCARB2, EGF, EGFR, DAB2, HGS, IGF2R, LDLRAP1, STAM, KIAA0319, BTC, TF, NECAP2, TGFA, AP2B1
Reactome	HSA-5633008	TP53 Regulates Transcription of Cell Death Genes	13	43	0.59	0.0042	TP53I3, TP53, TNFRSF10B, CASP10, BAX, CASP2, BID, TNFRSF10C, CHM, BNIP3L, CASP1, CRADD, TRIA1
Reactome	HSA-168179	Toll Like Receptor TLR1:TLR2 Cascade	22	111	0.41	0.0064	DUSP3, NFKB1, TLR2, TP53, LY96, APP, MAP2K1, FOS, CASP8, MAPKAPK2, TAB2, S100A12, IRAK1, JUN, CD14, MAPK9, SFTA1P1, CD36, MAP2K6, IRAK4, IKKKG, FGA
Reactome	HSA-1592389	Activation of Matrix Metalloproteinases	11	33	0.63	0.0065	TIMP1, MMP8, CTSV, MMP7, TIMP2, KLKB1, MMP3, PLG, MMP1, COL18A1, MMP9
Reactome	HSA-9665686	Signaling by ERBB2 TMD/JMD mutants	9	22	0.72	0.0071	CDC37, HBEGF, EREG, EGF, ERBB3, ERBB2, EGFR, BTC, ERBIN
Reactome	HSA-180292	GAB1 signalosome	8	17	0.78	0.0072	HBEGF, EREG, EGF, PKN, EGFR, SRC, BTC, TGFA
Reactome	HSA-194138	Signaling by VEGF	21	105	0.41	0.0072	NCK2, HSPB1, FLT4, KDR, NRP1, PKN, FLT1, ITPR1, VEGFB, BAIAP2, WASF3, NRP2, MAPKAPK2, NCF2, VAV3, SRC, AKT2, WASF1, BRK1, VEGFC, AKT3
Reactome	HSA-5638303	Inhibition of Signaling by Overexpressed EGFR	6	8	0.98	0.0072	HBEGF, EREG, EGF, EGFR, BTC, TGFA
Reactome	HSA-74259	Purine catabolism	8	17	0.78	0.0072	DNPH1, NTSC1A, NTSC, NTSE, NUDT15, ITPA, NUDT5, NUDT16
Reactome	HSA-9818027	NFE2L2 regulating anti-oxidant/detoxification enzymes	8	17	0.78	0.0072	GSTA3, HMOX1, GSR, PRDX1, EP300, GSTA1, BACH1, TXNRD1
Reactome	HSA-9009391	Extra-nuclear estrogen signaling	17	75	0.46	0.0075	HBEGF, EREG, HSPB1, MMP7, EGF, EGFR, MMP3, FOS, FOXO3, MMP9, SRC, AKT2, BTC, BCL2, TGFA, IGF1R, AKT3
Reactome	HSA-3000178	ECM proteoglycans	17	76	0.46	0.0085	TGFBI1, SERPINE1, LAMA4, SPARC, NCAN, VCAN, TNC, APP, COL6A3, ITGB5, FN1, HSPG2, COL4A1, AGRN, COL2A1, MATN3, DAG1
Reactome	HSA-3000480	Scavenging by Class A Receptors	8	18	0.76	0.0088	APOB, APOA1, APOE, SCGB3A2, MARCO, COL4A1, COLEC12, MSR1
Reactome	HSA-8847993	ERBB2 Activates PTK6 Signaling	7	13	0.84	0.0088	HBEGF, EREG, EGF, ERBB3, ERBB2, EGFR, BTC
Reactome	HSA-8956319	Nucleotide catabolism	11	35	0.61	0.0088	DNPH1, NTSC1A, NTSC, NTSE, NUDT15, ENTPD5, ITPA, TYMP, NUDT5, NUDT16, NTSC3A
Reactome	HSA-933543	NF-kB activation through FADD/RIP-1 pathway mediated by caspase-8 and -10	7	13	0.84	0.0088	CASP10, FADD, TRIM25, CASP8, DDX58, MAVS, IKKKG
Reactome	HSA-159763	Transport of gamma-carboxylated protein precursors from the endoplasmic reticulum to the Golgi apparatus	6	9	0.93	0.0099	F9, PROC, F2, GAS6, F10, PROS1
Reactome	HSA-166058	MyD88:MAL(TIRAP) cascade initiated on plasma membrane	21	109	0.39	0.0099	DUSP3, NFKB1, TLR2, TP53, LY96, APP, MAP2K1, FOS, CASP8, MAPKAPK2, TAB2, S100A12, IRAK1, JUN, CD14, MAPK9, CD36, MAP2K6, IRAK4, IKKKG, FGA
Reactome	HSA-212718	EGFR interacts with phospholipase C-gamma	6	9	0.93	0.0099	HBEGF, EREG, EGF, EGFR, BTC, TGFA
Reactome	HSA-9668250	Defective factor IX causes hemophilia B	6	9	0.93	0.0099	F9, GP1BA, F10, GP1BB, GP5, F11
Reactome	HSA-9734009	Defective Intrinsic Pathway for Apoptosis	9	24	0.68	0.0099	C1QB, LMNB1, PRDX1, TP53, APP, FOXO3, JUN, BCL2L1, SOD2
Reactome	HSA-73887	Death Receptor Signaling	26	152	0.34	0.0107	ARHGFE5, TNFRSF1A, NFKB1, TNFRSF10B, CASP10, BAG4, FADD, CASP3, CASP2, FGD3, ARHGFE1, CASP8, MAPKAPK2, TAB2, IRAK1, VAV3, XIAP, MAGED1, BCL2L1, TAX1BP1, ARHGFE12, TNF, ARHGFE10, QTUD7B, BIRC2, IKKKG
Reactome	HSA-1442490	Collagen degradation	15	64	0.48	0.0108	CTSD, MMP8, MMP7, COL6A3, MMP3, PHYKPL, MMP1, CTSL, CTSB, COL18A1, MMP9, COL15A1, COL4A1, COL2A1, MMP12
Reactome	HSA-177929	Signaling by EGFR	13	50	0.52	0.0109	HBEGF, EREG, EGF, PKN, LRIG1, EGFR, HGS, SRC, SPRY2, STAM, BTC, TGFA, PTPRK
Reactome	HSA-196854	Metabolism of vitamins and cofactors	30	188	0.31	0.0112	TCN2, ACP5, NAMPT, RBP2, APOB, APOA1, APOE, TCN1, NTSE, GCHFR, MMUT, TH1PA, SHMT1, VNN2, COQ7, PPCDC, AKR1B10, TPK1, VNN1, APOA2, SDCA, LDLRAP1, HSPG2, APOM, GPC5, NADK, AGRN, MOC52, NAPRT, BTD
Reactome	HSA-182971	EGFR downregulation	10	31	0.62	0.0117	HBEGF, EREG, EGF, EGFR, HGS, SPRY2, STAM, BTC, TGFA, PTPRK
Reactome	HSA-9664565	Signaling by ERBB2 KD Mutants	9	25	0.67	0.0117	CDC37, HBEGF, EREG, EGF, ERBB3, ERBB2, EGFR, BTC, ERBIN
Reactome	HSA-1236394	Signaling by ERBB4	14	58	0.49	0.0122	HBEGF, SPARC, EREG, APOE, GFAP, EGF, ERBB3, EGFR, TAB2, SRC, BTC, CXCL12, YAP1, DLG4
Reactome	HSA-5218859	Regulated Necrosis	14	58	0.49	0.0122	GZMB, CDC37, IL1B, TP53, TNFRSF10B, IL18, BAX, FADD, CASP3, CHMP6, CASP8, XIAP, CASP1, BIRC2
Reactome	HSA-937061	TRIF(TICAM1)-mediated TLR4 signaling	20	104	0.39	0.0122	DUSP3, NFKB1, TANK, TP53, LY96, APP, FADD, MAP2K1, FOS, CASP8, MAPKAPK2, TAB2, S100A12, IRAK1, JUN, CD14, MAPK9, MAP2K6, BIRC2, IKKKG
Reactome	HSA-111465	Apoptotic cleavage of cellular proteins	11	38	0.57	0.0126	LMNB1, DSG2, ADD1, FN1A, CASP3, OCLN, CASP8, CASP7, STK24, DBNL, BIRC2
Reactome	HSA-1236975	Antigen processing-Cross presentation	20	105	0.39	0.0126	SNAP23, CTSV, TLR2, VAMP8, LY96, ITGB5, PDIA3, STX4, CTSL, NCF2, CTSS, HLA-E, PSME1, CD14, CD36, PSMID9, MRC1, IKKKG, B2M, FGA
Reactome	HSA-1566977	Fibronectin matrix formation	5	6	1.03	0.0126	CEACAM1, CEACAM6, CEACAM8, ITGA5, FN1
Reactome	HSA-159740	Gamma-carboxylation of protein precursors	6	10	0.89	0.0126	F9, PROC, F2, GAS6, F10, PROS1

Reactome	HSA-159782	Removal of aminoterminal propeptides from gamma-carboxylated proteins	6	10	0.89	0.0126	F9, PROC, F2, GAS6, F10, PROS1
Reactome	HSA-5686938	Regulation of TLR by endogenous ligand	8	20	0.71	0.0126	LBP, APOB, TLR2, LY96, CD14, SFTPA1, CD36, FGA
Reactome	HSA-6806942	MET Receptor Activation	5	6	1.03	0.0126	HGF, SPINT2, MET, SPINT1, HGFA
Reactome	HSA-9673221	Defective F9 activation	5	6	1.03	0.0126	F9, GP1BA, GP1BB, GPs, F11
Reactome	HSA-1251985	Nuclear signaling by ERBB4	10	32	0.6	0.0127	HBEGF, SPARC, EREG, APOE, GFAP, TAB2, SRC, BTC, CXCL12, YAP1
Reactome	HSA-5357769	Caspase activation via extrinsic apoptotic signalling pathway	9	26	0.65	0.0127	TNFRSF10B, LY96, FADD, CASP3, CASP9, CASP8, MAGED1, CD14, DAPK2
Reactome	HSA-6785631	ERBB2 Regulates Cell Motility	7	15	0.78	0.0127	HBEGF, EREG, EGF, ERBB3, ERBB2, EGFR, BTC
Reactome	HSA-2262752	Cellular responses to stress	85	747	0.17	0.0137	FKBP4, GSTA3, HMOX1, ST13, CSNK2A1, DCTN6, GSR, FKBP14, NFKB1, APOB, APOA1, DNAI1, TRIM21, COX5B, PREB, LMNB1, DNAJB6, ELOB, PRDX1, MYDGF, UFD1, EP300, ADD1, PRDX5, TP53, SOD1, PGD, IGFBP1, IMPACT, LY96, BAG4, FBP1, PRDX3, CLEC1B, TTP1, FOS, CXCL8, EIF2AK3, DNAJA2, TUBB3, TALDO1, PDIA5, P4HB, GSTA1, MINK1, STIP1, MAP3K5, DCTN1, EGLN1, MAPKAPK2, NCF2, HDGF, JUN, RPA2, ATP6V1G1, CDC26, TXN, EIF252, ZBTB17, NUDT2, PSM1E1, AKT151, AKT2, CDKN2D, HSPA2, SEC31A, GSTP1, BACH1, CDKN1A, IL6, HSP90, MAB2B, ARHGAP1, ATPO1, TXNIP1, CAC17, PSM9B, ERBB5, SOD2, CDYGR1, MAB2B6, HMOX2, HYOU1, TBL1Y, AKT3
Reactome	HSA-76009	Platelet Aggregation (Plug Formation)	11	39	0.56	0.0137	VWF, F2, GP1BA, FN1, PTPN1, SRC, APBB1IP, GP1BB, GPs, THPO, FGA
Reactome	HSA-622312	Inflammasomes	8	21	0.69	0.0146	HMOX1, NFKB1, APP, TXN, BCL2L1, SUGT1, BCL2, CASP1
Reactome	HSA-1433559	Regulation of KIT signaling	7	16	0.75	0.0161	KIT, SH2B3, SRC, PTPN6, LYN, YES1, KITLG
Reactome	HSA-1963642	PI3K events in ERBB2 signaling	7	16	0.75	0.0161	HBEGF, EREG, EGF, ERBB3, ERBB2, EGFR, BTC
Reactome	HSA-9012999	RHO GTPase cycle	56	449	0.2	0.0162	ARHGFE5, GOLGA3, CDC37, C10BP, NCK2, SNAP23, LMNB1, DSG2, FAM13A, AMIGO2, IQGAP2, RHOC, PKN3, CKB, BCR, LETM1, ARHGAP1, SWAP70, DNMBP, BAIAP2, NUDC, HGS, WASF3, FGD3, ARHGEF1, LBR, PDE5A, OPHN1, SCRIB, STIP1, WWP2, CDC42BPB, NCF2, GOPC, MYO6, VAV3, SRC, WAS, STAM, WASF1, DBN1, ARL13B, GIT1, DAAM1, ARHGFE12, ARHGAP25, NDUFA5, NSFL1C, ERBIN, ARHGFE10, BRK1, TOR1AIP1, ARHGAP45, PAK4, MYO9B, HMOX2
Reactome	HSA-195399	VEGF binds to VEGFR leading to receptor dimerization	5	7	0.96	0.0179	FLT4, KDR, FLT1, VEGFB, VEGFC
Reactome	HSA-6803157	Antimicrobial peptides	17	87	0.4	0.0211	PGLYRP1, CD4, BPIFB2, PRTN3, PI3, BPIFB1, TLR2, PGLYRP2, RNASE6, RNASE3, CLU, LCN2, REG3A, PLA2G2A, DEFB116, ATOX1, GNLY
Reactome	HSA-6806834	Signaling by MET	16	79	0.42	0.0211	HGF, LAMA4, LRIG1, ARF6, SPINT2, MET, HGS, SPINT1, CRKL, FN1, PTPN1, SRC, STAM, COL2A1, USP8, HGFA
Reactome	HSA-194306	Neurophilin interactions with VEGF and VEGFR	4	4	1.11	0.0257	KDR, NRP1, FLT1, NRP2
Reactome	HSA-75108	Activation, myristoylation of BID and translocation to mitochondria	4	4	1.11	0.0257	GZMB, BID, CASP8, NMT1
Reactome	HSA-166665	Terminal pathway of complement	5	8	0.9	0.0258	C5, C9, CLU, C7, C8B
Reactome	HSA-446652	Interleukin-1 family signaling	24	149	0.32	0.0258	NFKB1, IL1RL1, IL36G, IL1RN, IL18, TP53, IL18, APP, MAP2K1, IL1RAP, IL1R2, SMAD3, CASP8, TAB2, S100A12, IRAK1, PSM1E, PTPN6, CASP1, IL18BP, PSM9D, MAP2K6, IRAK4, IKBK
Reactome	HSA-9615017	FOXO-mediated transcription of oxidative stress, metabolic and neuronal genes	9	30	0.59	0.0258	RETN, SMAD2, IGFBP1, SMAD3, FOXO3, PLXNA4, FOXO1, SOD2, ATXN3
Reactome	HSA-166663	Initial triggering of complement	8	24	0.63	0.0264	C3, FCN2, C2, FCN1, C1S, CFB, C1R, CFD
Reactome	HSA-379716	Cytosolic tRNA aminoacylation	8	24	0.63	0.0264	NARS1, MARS1, DARS1, FARS1, WARS1, YARS1, TARS1, HARS1
Reactome	HSA-597592	Post-translational protein modification	142	1405	0.11	0.0264	USP28, VASH1, STGAL1, BPIFB2, DHPS, SERPIND1, LGLA5, ARSA, F9, TIMP1, DCTN6, TGFBI, CEACAM5, APOB, PROC, APOA1, C3, VGF, APOE, RAB33A, NPL, PREB, RAB27B, SMAD2, ELOB, AXIN1, UFD1, EP300, COMMD9, CNTN3, TOP2B, RAB10, USO1, ARSB, VCAN, TXN, PMM2, CDH2, ASGR1, TP53, IGFBP4, AHS, ADAMTS16, IGFBP1, FUOM, APP, AMFR, UBXN1, FSTL1, SHISA5, GALNT10, ABRAXA52, LEO1, PDIA3, LY6D, SMAD1, TADA3, COMMD1, F2, B4GAT1, APOL1, TNIP1, MPI, TUBB3, VNN2, TRIM25, CSF1, P4HB, COPB2, HGS, GAS6, SMAD3, ZBTB16, PLAU, PARK7, ADAMTS12, FN1, ASGR2, MAN1A2, CHM, RAD23B, FUT8, UBE2Z, DCTN1, RECN1, TOMM20, PARG1, ULBP2, QSOX1, SERPINC1, VNN1, APOA2, ADAMTS4, CTN2, XPNPEP2, PTEN, RNFS, F10, HNRNPK, STAM, RECK, CHGB, DDX58, PSM1E, MSLN, RAB37, STAMBP, PROS1, SPP1, SEC31A, AFP, USP8, GNE, RAB2B, CST3, CSNK1D, USP47, USP25, MATN3, CDKN1A, IL6, TF, MCFD2, PENK, MAVS, TGFA, SERPINA1, XRC4, ST3GALL1, PSM9D, DAG1, NUB1, SPON1, OTUD7B, BIRC2, NAGK, CGA, IKBK, ATXN3, SIF2, FGA, PAK4
Reactome	HSA-975138	TRAF6 mediated induction of NFkB and MAP kinases upon TLR7/8 or 9 activation	18	98	0.37	0.0265	DUSP3, NFKB1, TP53, LY96, APP, MAP2K1, FOS, CASP8, MAPKAPK2, TAB2, S100A12, IRAK1, IUN, CD14, MAPK9, MAP2K6, IRAK4, IKBK
Reactome	HSA-1358803	Downregulation of ERBB2:ERBB3 signaling	6	13	0.77	0.0269	ERBB3, ERBB2, RNF41, AKT2, USP8, AKT3
Reactome	HSA-179812	GRB2 events in EGFR signaling	6	13	0.77	0.0269	HBEGF, EREG, EGF, EGFR, BTC, TGFA
Reactome	HSA-975634	Retinoid metabolism and transport	11	44	0.51	0.0269	RBP2, APOB, APOA1, APOE, AKR1B10, APOA2, SDC4, HSPG2, APOM, GPC5, AGRN
Reactome	HSA-174824	Plasma lipoprotein assembly, remodeling, and clearance	15	75	0.41	0.0294	APOB, APOA1, CLTA, APOE, LCAT, ANGPL4, P4HB, APOA2, LDLRAP1, APOF, NPC2, APOBR, APOC1, FGF21, AP2B1
Reactome	HSA-75153	Apoptotic execution phase	12	52	0.47	0.0294	LMNB1, DSG2, ADD1, FNNTA, CASP3, OCLN, CASP8, CASP7, STK24, DFFA, DBNL, BIRC2
Reactome	HSA-9694614	Attachment and Entry	7	19	0.68	0.0302	NRP1, CTSL, SDC4, HSPG2, GPC5, AGRN, HAVCR1
Reactome	HSA-168164	Toll Like Receptor 3 (TLR3) Cascade	18	100	0.36	0.0305	DUSP3, NFKB1, TANK, TP53, APP, FADD, MAP2K1, FOS, CASP8, MAPKAPK2, TAB2, S100A12, IRAK1, JUN, MAPK9, MAP2K6, BIRC2, IKBK
Reactome	HSA-8939211	ESR-mediated signaling	28	190	0.28	0.0326	FKBP4, HBEGF, CTS, EREG, HSPB1, MMP7, AXIN1, EP300, EGF, EGFR, TFF1, MMP3, FOS, EBA69, FOXO3, JUN, MMP9, SRC, AKT2, BTC, CXCL12, BCL2, POLR2F, TGFA, TEF3, FKBP5, IGF1R, AKT3
Reactome	HSA-180336	SHC1 events in EGFR signaling	6	14	0.74	0.0338	HBEGF, EREG, EGF, EGFR, BTC, TGFA
Reactome	HSA-2022090	Assembly of collagen fibrils and other multimeric structures	13	61	0.44	0.0341	CTSV, MMP7, COL6A3, MMP3, CTSL, CTSB, COL18A1, CTSS, MMP9, COL15A1, COL4A1, COL2A1, ITGA6
Reactome	HSA-556833	Metabolism of lipids	81	739	0.15	0.0365	OXCT1, ARSA, CSNK2A1, GLA, PLA2G15, DECR1, PLIN3, SULT2A1, MVK, LTA4H, ACOT13, APOA1, MCEE, GGT1, FBP4, FDX1, SPTLC1, EP300, MECR, PIKFYVE, BCHE, ARSB, MGLL, PEGR, FBP2, MMUT, AKR1B1, ACOX1, FBP1, FBP5, INPPL1, PLIN1, GPD1, ANGPL4, GBA, OSBP12, ACAA1, LBR, SMPD1, PPP1CC, SERPINA6, PTGES2, GM2A, HSD11B1, MAPKAPK2, PLA2G4A, APOA2, PMVK, ECHS1, TNFAIP8L2, ACADM, PTEN, FBP3, MED18, LDLRAP1, HMGC1, HSD17B3, FBP9, EC12, ASAH1, LGMN, FDX2, FBP6, PSAP, DDHD2, PLA2G2A, CERT1, EPFB1, CD36, GC, TNFAIP8, TNFR1, BCL7, HBBP2, ACBE, FGA, DBI, PON2, TBL1Y, SLMF2, FSTL7, SKAP2, NCK2, VASP, NECTIN2, ACTN4, PXN, CDH12, ANG, CD2AP, ACTN2, NECTIN4, F11R, SRC, PARD3, SIRPB1, ITGA6, PTPN6, SFTPA1, PVR, CDH4, FYB1
Reactome	HSA-1500931	Cell-Cell communication	21	129	0.32	0.0381	MYH9, BAIAP2, WASF3, VAV3, ABL1, SRC, FGR, WAS, WASF1, LYN, BRK1, YES1, MYO9B
Reactome	HSA-9664422	FCGR3A-mediated phagocytosis	13	62	0.43	0.0381	TNFRSF1A, BAG4, FADD, CASP8, MAPKAPK2, TAB2, XIAP, TAX1BP1, TNF, OTUD7B, BIRC2, IKBK
Reactome	HSA-75893	TNF signaling	12	55	0.45	0.0401	TNFRSF1A, BAG4, FADD, CASP8, MAPKAPK2, TAB2, XIAP, TAX1BP1, TNF, OTUD7B, BIRC2, IKBK
Reactome	HSA-5628897	TP53 Regulates Metabolic Genes	16	87	0.37	0.0405	TIGAR, GSR, RRM2B, COX5B, PRDX1, PRDX5, TP53, PTEN, TXN, YWHAQ, AKT2, GPI, TXNRD1, PRKAB1, COX6B1, AKT3
Reactome	HSA-5620971	Pyroptosis	8	27	0.58	0.0414	GZMB, IL1B, TP53, IL18, BAX, CASP3, CHMP6, CASP1
Reactome	HSA-111447	Activation of BAD and translocation to mitochondria	6	15	0.71	0.0415	PPP3R1, BID, YWHAQ, AKT2, BCL2, AKT3
Reactome	HSA-381038	XBP1(S) activates chaperone genes	11	48	0.47	0.0415	FKBP14, PREB, MYDGF, ADD1, TTP1, PDIA5, DCTN1, HDGF, ZBTB17, SEC31A, HYOU1
Reactome	HSA-391160	Signal regulatory protein family interactions	6	15	0.71	0.0415	SKAP2, SRC, SIRPB1, PTPN6, SFTPA1, FYB1
Reactome	HSA-75892	Platelet Adhesion to exposed collagen	6	15	0.71	0.0415	VWF, GP6, GP1BA, GP1BB, GPs, LYN

Reactome	HSA-389513	CTLA4 inhibitory signaling	7	21	0.63	0.0422	PPP2R5A, CD80, SRC, AKT2, LYN, YES1, AKT3
Reactome	HSA-6807004	Negative regulation of MET activity	7	21	0.63	0.0422	HGF, LRIG1, MET, HGS, PTPN1, STAM, USP8
Reactome	HSA-8963899	Plasma lipoprotein remodeling	9	34	0.53	0.0422	APOB, APOA1, APOE, LCAT, ANGPTL4, P4HB, APOA2, APOF, FGF21
Reactome	HSA-432722	Golgi Associated Vesicle Biogenesis	12	56	0.44	0.0423	CLTA, HIP1R, AP3B1, SORT1, VAMP8, IGF2R, DNAIC6, SNX5, SNX2, TXNDC5, SNX9, BLOC153
Reactome	HSA-8963888	Chylomicron assembly	5	10	0.81	0.0423	APOB, APOA1, APOE, P4HB, APOA2
Reactome	HSA-9755511	KEAP1-NFE2L2 pathway	18	105	0.34	0.0423	GSTA3, HMOX1, CSNK2A1, GSR, TRIM21, PRDX1, UFD1, EP300, PGD, TALDO1, GSTA1, PSME1, AKT2, BACH1, CDKN1A, TXNRD1, PSMDB, AKT3
Reactome	HSA-168928	DDX58/FIH1-mediated induction of interferon-alpha/beta	15	80	0.38	0.0426	NFKB1, TANK, EP300, APP, CASP10, UBE2L6, FADD, TRIM25, CASP8, PCBP2, S100A12, DDX58, TAX1BP1, MAVS, IKBKKG
Reactome	HSA-9006931	Signaling by Nuclear Receptors	35	265	0.23	0.0447	FKBP4, HBEGF, CTS5, EREG, HSPB1, APOE, MMP7, AXIN1, EP300, EGF, EGFR, TFF1, FABP5, MMP3, PLIN1, FOS, EBAG9, FOXO3, APOD, JUN, MMP9, SRC, AKT2, FABP6, BTC, CXCL12, BCL2, POLR2F, TGFA, TFF3, FKBP5, APOC1, TBL1X, IGF1R, AKT3
Reactome	HSA-163841	Gamma carboxylation, hypusine formation and arylsulfatase activation	10	42	0.49	0.0468	DHPS, ARSA, F9, PROC, ARSB, F2, GAS6, F10, PROS1, SUMF2
Reactome	HSA-373076	Class A/1 (Rhodopsin-like receptors)	41	326	0.21	0.0468	CX3CL1, OXT, CCL22, CCL17, C5, CCL13, CXCL6, C3, GAL, PROK1, APP, CXCL13, CXCL16, CXCL3, CXCL5, PBP, PF4, CXCL10, CXCL8, CXCL11, F2, CCL19, F2R, GHRL, CCL20, CCL28, CXCL9, ANXA1, CCL7, EDN1, PSAP, CXCL1, CXCL12, MLN, PENK, CCL5, CCL3, CCL16, CCL23, CGA, CCL4
Reactome	HSA-168638	NOD1/2 Signaling Pathway	9	35	0.52	0.0471	CASP2, CASP9, CASP8, TAB2, IRAK1, CASP1, MAP2K6, BIRC2, IKBKKG
Reactome	HSA-9013106	RHOC GTPase cycle	14	73	0.39	0.0471	ARHGGEF5, C1QBP, RHOC, PKN3, BCR, ARHGAP1, ARHGGEF1, LBR, OPHN1, DAAMI, ARHGGEF12, ERBIN, ARHGGEF10, MYO9B
Reactome	HSA-1250196	SHC1 events in ERBB2 signaling	7	22	0.61	0.0485	HBEGF, EREG, EGF, ERBB3, ERBB2, EGFR, BTC
Reactome	HSA-1474290	Collagen formation	16	90	0.36	0.0485	CTSV, MMP7, COL6A3, MMP3, PPIB, P4HB, CTSL, CTSB, COL18A1, CTSS, MMP9, COL15A1, COL4A1, COL2A1, ITGA6, SERPINH1
Reactome	HSA-1963640	GRB2 events in ERBB2 signaling	6	16	0.68	0.0485	HBEGF, EREG, EGF, ERBB2, EGFR, BTC
Reactome	HSA-844456	The NLRP3 inflammasome	6	16	0.68	0.0485	HMOX1, NFKB1, APP, TXN, SUGT1, CASP1
Reactome	HSA-8862803	Deregulated CDK5 triggers multiple neurodegenerative pathways in Alzheimers disease models	7	22	0.61	0.0485	LMNB1, PRDX1, APP, FOXO3, JUN, BCL2L11, SOD2
Reactome	HSA-111459	Activation of caspases through apoptosome-mediated cleavage	4	6	0.93	0.0487	CASP3, CASP9, CASP7, XIAP
Reactome	HSA-3000471	Scavenging by Class B Receptors	4	6	0.93	0.0487	APOB, APOA1, SSCSD, CD36
Reactome	HSA-8964208	Phenylalanine metabolism	4	6	0.93	0.0487	QDPR, PCBD1, KYAT1, ASRGL1
Reactome	HSA-186797	Signaling by PDGF	12	58	0.42	0.0491	NCK2, STAT5B, COL6A3, PLG, PDGFB, CRKL, PDGFA, SRC, COL4A1, COL2A1, SPP1, PDGFC
Reactome	HSA-1433557	Signaling by SCF-KIT	10	43	0.48	0.0499	KIT, STAT5B, GRAP2, SH2B3, MMP9, SRC, PTPN6, LYN, YES1, KITLG

Supplementary Table 12: Pathways downregulated with valine

#category	term ID	term description	observed gene count	background gene count	strength	false discovery rate	matching proteins in your network (labels)
KEGG	hsa04060	Cytokine-cytokine receptor interaction	37	282	0.66	6.59E-11	CX3CL1, TNFRSF17, LTBR, IL5, IL17C, IL12RB2, TNFRSF8, CD27, OSMR, IL17RB, INHBB, BMP10, TNFRSF21, TNFRSF11B, IL7R, CXCL8, GH1, CSH1, LEPR, CCL28, CXCL9, IFNGR1, TNFRSF1B, TNFRSF4, IL2RA, TNFRSF19, ACVRL1, IL4R, CXCL12, IL1R1, LIFR, IL32, IL22, TGFBR1, GDF2, TNFRSF9, IL19
KEGG	hsa04514	Cell adhesion molecules	23	138	0.77	2.00E-08	ITGAV, CDH3, VCAN, VCAM1, NLGN2, ALCAM, CD34, CD276, CNTN2, NEO1, CNTNAP2, VTCN1, CD58, L1CAM, SDC1, ITGB1, PDCD1LG2, NCAM2, ICAM2, CNTN1, NCAM1, CDH5, SELL
KEGG	hsa04151	PI3K-Akt signaling pathway	32	349	0.51	3.33E-06	FLT3, PDGFRA, CHAD, ITGAV, TNC, OSMR, FLT1, ITGB6, KIT, VEGFD, IL7R, FGF5, GH1, CSH1, MET, ITGA11, FGF3, ATF4, EIF4EBP1, ERBB4, COL9A1, EPHA2, EFNA1, COL4A1, IL2RA, SPP1, AREG, IL4R, ITGB1, TNXB, EGF21
KEGG	hsa00910	Nitrogen metabolism	8	17	1.22	2.00E-05	CA12, CA2, CA3, CA4, CA14, CA6, CA9, CA1
KEGG	hsa04610	Complement and coagulation cascades	13	82	0.74	0.00015	PROCR, C9, C7, F3, PLAUR, CD55, CFHR4, SERPINC1, PLAU, MBL2, C1QA, THBD, SERPINA1
KEGG	hsa04640	Hematopoietic cell lineage	13	90	0.7	0.00031	IL5, FLT3, KIT, IL7R, CD34, CD55, CD1C, IL2RA, TFRC, IL4R, CD14, IL1R1, KITLG
KEGG	hsa04512	ECM-receptor interaction	12	88	0.68	0.001	CHAD, ITGAV, TNC, ITGB6, ITGA11, DMP1, COL9A1, COL4A1, SDC1, SPP1, ITGB1, TNXB
KEGG	hsa04010	MAPK signaling pathway	20	286	0.39	0.0125	FLT3, PDGFRA, FLT1, PTPRR, KIT, VEGFD, FGF5, MET, FGF3, CACNA1H, ATF4, ERBB4, EPHA2, EFNA1, AREG, CD14, IL1R1, TGFBR1, FGF21, KITLG
KEGG	hsa04360	Axon guidance	15	176	0.48	0.0125	NRP1, BOC, EPHA4, MET, NEO1, EPHB4, EPHA2, EFNA1, L1CAM, CXCL12, ITGB1, UNC5D, RGMA, EPHB6, EFN2
KEGG	hsa04630	JAK-STAT signaling pathway	14	158	0.49	0.0125	IL5, PDGFRA, IL12RB2, OSMR, IL7R, GH1, CSH1, LEPR, IFNGR1, IL2RA, IL4R, LIFR, IL22, IL19
KEGG	hsa05200	Pathways in cancer	30	515	0.31	0.0125	HMOX1, IL5, FLT3, NOTCH2, PDGFRA, ITGAV, IL12RB2, NOTCH3, WNT9A, KIT, VEGFD, IL7R, CXCL8, FGF5, KLF3, MET, FGF3, DLL1, IFNGR1, COL4A1, IL2RA, IL4R, CXCL12, ITGB1, GSTP1, TGFBR1, FGF21, KITLG, TPM3, NOTCH1
KEGG	hsa04658	Th1 and Th2 cell differentiation	9	85	0.57	0.0335	IL5, NOTCH2, IL12RB2, NOTCH3, DLL1, IFNGR1, IL2RA, IL4R, NOTCH1
Reactome	HSA-381426	Regulation of Insulin-like Growth Factor (IGF) transport and uptake by Insulin-like Growth Factor Binding Proteins (IGFBPs)	27	124	0.88	2.41E-11	SCG3, IGFBP2, APOA1, VGF, HRC, VCAN, STC2, TNC, IGFBP1, FSTL1, KLF1, AMBN, KLF3, PAPPA, GAS6, DMP1, SERPINC1, APOA2, CHGB, MSLN, SPP1, MATN3, TGOLN2, MXRA8, PENK, SPARCL1, SERPINA1
Reactome	HSA-8957275	Post-translational protein phosphorylation	23	107	0.88	1.46E-09	SCG3, APOA1, VGF, HRC, VCAN, STC2, TNC, IGFBP1, FSTL1, AMBN, GAS6, DMP1, SERPINC1, APOA2, CHGB, MSLN, SPP1, MATN3, TGOLN2, MXRA8, PENK, SPARCL1, SERPINA1
Reactome	HSA-1474244	Extracellular matrix organization	35	300	0.61	1.38E-08	DCN, CEACAM6, ICAM5, NCAN, MMP13, ITGAV, LTBP2, VCAN, TNC, MMP10, ITGB6, VCAM1, BMP10, MMP3, ITGA11, BCAN, DMP1, ICAM4, CTSB, ADAM15, COL9A1, OPTC, ASPN, COL4A1, SDC1, EFEMP1, SPP1, ITGB1, MATN3, ACAN, TNXB, ICAM2, DDR1, PTPRS, NCAM1
Reactome	HSA-168256	Immune System	110	1979	0.29	1.38E-08	PGLYRP1, TNFRSF17, CEACAM6, HMOX1, CHGA, PSME2, RETN, ICAM5, CRTAM, LTBR, CLEC4A, IL5, PRTN3, CAT, FLT3, PI3, IL17C, CD93, BPIFB1, BPIFA2, CLEC10A, TCN1, ITGAV, IL12RB2, C9, TNFRSF8, CD27, OSMR, RANBP2, KLHL41, PRG3, IL17RB, VCAM1, PTX3, TNFRSF11B, MMP3, LRG1, IL7R, CXCL8, OLR1, CD34, HAVCR2, PRG2, GH1, IL1RAP, CD209, CSH1, CD300LG, C7, PLAUR, NCR3LG1, PRDX6, ICAM4, KIR2DL3, CTSS, VAT1, ARG1, CD55, CHIT1, CFHR4, IFNGR1, CD1C, CD58, NPDC1, UBAC1, PLAU, LCN2, GSN, MBL2, C1QA, AGER, TNFRSF1B, TNFRSF4, IL2RA, SDC1, SIRPB1, PTPRN2, PTPR21, REG3A, IL4R, ITGB1, ADA2R, AMPD3, IL15RA, PDCD1LG2, GSTP1, CD14, IL1R1, CRISP3, LIFR, ICAM2, SERPINA1, CD200, CA1, IL32, FCGR3B, IL18BP, PSMD9, IL22, CLEC5A, SERPINA3, CD300LF, NOS1, TNFRSF9, OSCAR, CD177, NCAM1, PSMC3, SELL, IL19
Reactome	HSA-3000178	ECM proteoglycans	17	76	0.89	3.00E-07	DCN, NCAN, ITGAV, VCAN, TNC, ITGB6, BCAN, DMP1, COL9A1, ASPN, COL4A1, ITGB1, MATN3, ACAN, TNXB, PTPRS, NCAM1
Reactome	HSA-3560782	Diseases associated with glycosaminoglycan metabolism	12	41	1.01	6.09E-06	DCN, NCAN, GPC1, VCAN, B3GAT3, CSPG4, BCAN, OMD, OGN, SDC1, CSPG5, ACAN

Reactome	HSA-6798695	Neutrophil degranulation	39	476	0.46	6.09E-06	PGLYRP1, CEACAM6, RETN, PRTN3, CAT, CD93, TCN1, ITGAV, PRG3, PTX3, LRG1, OLR1, PRG2, PLAUR, PRDX6, CTSB, VAT1, ARG1, CD55, CHIT1, CD58, PLAUI, LCN2, GSN, TNFRSF1B, SIRPB1, PTPRN2, AMPD3, GSTP1, CD14, CRISP3, SERPINA1, FCGR3B, CLEC5A, SERPINA3, OSCAR, CD177, PSMC3, SELL
Reactome	HSA-1475029	Reversible hydration of carbon dioxide	8	12	1.37	8.93E-06	CA12, CA2, CA3, CA4, CA14, CA6, CA9, CA1
Reactome	HSA-3560801	Defective B3GAT3 causes JDSSDHD	9	20	1.2	1.41E-05	DCN, NCAN, GPC1, VCAN, B3GAT3, CSPG4, BCAN, SDC1, CSPG5
Reactome	HSA-1630316	Glycosaminoglycan metabolism	18	124	0.71	1.73E-05	DCN, NCAN, LYVE1, GPC1, VCAN, B3GAT3, HYAL1, B4GAT1, CSPG4, BCAN, IDS, OMD, OGN, SDC1, CSPG5, ACAN, ST3GAL1, HS6ST2
Reactome	HSA-2024101	CS/DS degradation	8	14	1.3	1.73E-05	DCN, NCAN, VCAN, HYAL1, CSPG4, BCAN, IDS, CSPG5
Reactome	HSA-202733	Cell surface interactions at the vascular wall	19	139	0.68	1.73E-05	CEACAM6, PROCR, CEACAM5, ATP1B2, ITGAV, EPCAM, GPC1, MERTK, PSG1, OLR1, GAS6, CD58, L1CAM, THBD, SDC1, ITGB1, JCHAIN, CD177, SELL
Reactome	HSA-163125	Post-translational modification: synthesis of GPI-anchored proteins	15	93	0.75	5.25E-05	CEACAM5, LYPD3, PSCA, LY6D, PRND, PLAUR, ART3, RECK, GP2, MSLN, CNTN4, FCGR3B, CNTN5, TEX101, GPIHBP1
Reactome	HSA-1971475	A tetrasaccharide linker sequence is required for GAG synthesis	9	26	1.08	5.51E-05	DCN, NCAN, GPC1, VCAN, B3GAT3, CSPG4, BCAN, SDC1, CSPG5
Reactome	HSA-1280215	Cytokine Signaling in Immune system	46	706	0.36	7.42E-05	TNFRSF17, HMOX1, PSME2, LTBR, IL5, PRTN3, FLT3, IL17C, IL12RB2, TNFRSF8, CD27, OSMR, RANBP2, IL17RB, VCAM1, TNFRSF11B, MMP3, IL7R, CXCL8, HAVCR2, GH1, IL1RAP, CSH1, IFNGR1, LCN2, AGER, TNFRSF1B, TNFRSF4, IL2RA, SDC1, PTPRZ1, IL4R, ITGB1, EDA2R, IL15RA, IL1R1, LIFR, CA1, IL32, IL18BP, PSM9, IL22, TNFRSF9, NCAM1, PSMC3
Reactome	HSA-3560783	Defective B4GALT7 causes EDS, progeroid type	8	20	1.15	8.79E-05	DCN, NCAN, GPC1, VCAN, CSPG4, BCAN, SDC1, CSPG5
Reactome	HSA-3781865	Diseases of glycosylation	18	144	0.64	8.79E-05	DCN, NCAN, NOTCH2, NOTCH3, GPC1, VCAN, B3GAT3, B4GAT1, CSPG4, ADAMTSL5, BCAN, OMD, OGN, SDC1, CSPG5, ACAN, SPON2, NOTCH1
Reactome	HSA-4420332	Defective B3GALT6 causes EDSP2 and SEMDJL1	8	20	1.15	8.79E-05	DCN, NCAN, GPC1, VCAN, CSPG4, BCAN, SDC1, CSPG5
Reactome	HSA-1793185	Chondroitin sulfate/dermatan sulfate metabolism	11	50	0.89	9.70E-05	DCN, NCAN, GPC1, VCAN, B3GAT3, HYAL1, CSPG4, BCAN, IDS, SDC1, CSPG5
Reactome	HSA-3595172	Defective CHST3 causes SEDCJD	6	8	1.42	0.00013	DCN, NCAN, VCAN, CSPG4, BCAN, CSPG5
Reactome	HSA-3595174	Defective CHST14 causes EDS, musculocontractural type	6	8	1.42	0.00013	DCN, NCAN, VCAN, CSPG4, BCAN, CSPG5
Reactome	HSA-3595177	Defective CHSY1 causes TPBS	6	8	1.42	0.00013	DCN, NCAN, VCAN, CSPG4, BCAN, CSPG5
Reactome	HSA-1638091	Heparan sulfate/heparin (HS-GAG) metabolism	11	55	0.85	0.00018	DCN, NCAN, GPC1, VCAN, B3GAT3, CSPG4, BCAN, IDS, SDC1, CSPG5, HS6ST2
Reactome	HSA-168249	Innate Immune System	58	1041	0.29	0.00019	PGLYRP1, CEACAM6, HMOX1, CHGA, PSME2, RETN, CLEC4A, PRTN3, CAT, PI3, CD93, BPIFB1, BPIFA2, CLEC10A, TCN1, ITGAV, C9, PRG3, PTX3, LRG1, OLR1, PRG2, CD209, C7, PLAUR, PRDX6, CTSB, VAT1, ARG1, CD55, CHIT1, CFHR4, CD58, PLAUI, LCN2, GSN, MBL2, C1QA, AGER, TNFRSF1B, SIRPB1, PTPRN2, REG3A, AMPD3, GSTP1, CD14, CRISP3, ICAM2, SERPINA1, FCGR3B, PSM9, CLEC5A, SERPINA3, NOS1, OSCAR, CD177, PSMC3, SELL
Reactome	HSA-975634	Retinoid metabolism and transport	10	44	0.9	0.00019	RBP2, APOA1, LRP1, GPC1, PLB1, APOA2, APOM, SDC1, GPIHBP1, LPL
Reactome	HSA-198933	Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell	16	130	0.63	0.00027	ICAM5, CRTAM, VCAM1, CD34, CD300LG, NCR3LG1, ICAM4, KIR2DL3, CD1C, NPDC1, ITGB1, ICAM2, CD200, CD300LF, OSCAR, SELL
Reactome	HSA-2022923	Dermatan sulfate biosynthesis	6	11	1.28	0.00034	DCN, NCAN, VCAN, CSPG4, BCAN, CSPG5
Reactome	HSA-5669034	TNFs bind their physiological receptors	8	28	1	0.0004	TNFRSF17, TNFRSF8, CD27, TNFRSF11B, TNFRSF1B, TNFRSF4, EDA2R, TNFRSF9
Reactome	HSA-449147	Signaling by Interleukins	32	453	0.39	0.00046	HMOX1, PSME2, IL5, PRTN3, IL17C, IL12RB2, OSMR, IL17RB, VCAM1, MMP3, IL7R, CXCL8, HAVCR2, IL1RAP, LCN2, AGER, TNFRSF1B, IL2RA, SDC1, PTPRZ1, IL4R, ITGB1, IL15RA, IL1R1, LIFR, CA1, IL32, IL18BP, PSM9, IL22, PSMC3, IL19
Reactome	HSA-216083	Integrin cell surface interactions	12	85	0.69	0.0011	ICAM5, ITGAV, TNC, ITGB6, VCAM1, ITGA11, ICAM4, COL9A1, COL4A1, SPP1, ITGB1, ICAM2

Reactome	HSA-422475	Axon guidance	34	551	0.34	0.0031	PSME2, CSNK2A1, NCAN, CHL1, ITGAV, GPC1, NRP1, GFRA3, SCN2B, EPHA4, ALCAM, MET, CNTN2, CACNA1H, NEO1, COL9A1, EPHB4, EPHA2, NRP2, EFNA1, L1CAM, COL4A1, CXCL12, ITGB1, UNC5D, NELL2, GFRA2, PSM9, CNTN1, RGM1, NCAM1, PSMC3, EPHB6, FENB2
Reactome	HSA-5668541	TNFR2 non-canonical NF-kB pathway	12	99	0.63	0.0041	TNFRSF17, PSME2, LTBR, TNFRSF8, CD27, TNFRSF11B, TNFRSF1B, TNFRSF4, EDA2R, PSM9, TNFRSF9, PSMC3
Reactome	HSA-2022870	Chondroitin sulfate biosynthesis	6	20	1.02	0.0043	DCN, NCAN, VCAN, CSPG4, BCAN, CSPG5
Reactome	HSA-5668914	Diseases of metabolism	20	250	0.45	0.0046	DCN, NCAN, NOTCH2, NOTCH3, GPC1, VCAN, B3GAT3, HYAL1, B4GAT1, CSPG4, ADAMTSL5, BCAN, IDS, OMD, OGN, SDC1, CSPG5, ACAN, SPON2, NOTCH1
Reactome	HSA-445144	Signal transduction by L1	6	21	1	0.0051	CSNK2A1, ITGAV, NRP1, L1CAM, ITGB1, NCAM1
Reactome	HSA-373760	L1CAM interactions	13	120	0.58	0.0053	CSNK2A1, NCAN, CHL1, ITGAV, NRP1, SCN2B, ALCAM, CNTN2, NRP2, L1CAM, ITGB1, CNTN1, NCAM1
Reactome	HSA-8963899	Plasma lipoprotein remodeling	7	34	0.86	0.0071	APOA1, APOA2, APOF, PLTP, FGF21, GPIHBP1, LPL
Reactome	HSA-2219530	Constitutive Signaling by Aberrant PI3K in Cancer	10	78	0.65	0.0092	FLT3, PDGFRA, KLB, KIT, FGF5, MET, FGF3, ERBB4, AREG, KITLG
Reactome	HSA-3299685	Detoxification of Reactive Oxygen Species	7	36	0.83	0.0092	CAT, PRDX1, PRDX2, PRDX6, SOD3, GSTP1, CCS
Reactome	HSA-71387	Metabolism of carbohydrates	21	292	0.4	0.0103	DCN, NCAN, LYVE1, GPC1, VCAN, B3GAT3, HYAL1, RANBP2, B4GAT1, CSPG4, BCAN, IDS, PKLR, OMD, OGN, SDC1, CSPG5, ACAN, GNPDA1, ST3GAL1, HS6ST2
Reactome	HSA-1247673	Erythrocytes take up oxygen and release carbon dioxide	4	8	1.24	0.0129	SLC4A1, CA2, CA4, CA1
Reactome	HSA-2187338	Visual phototransduction	11	99	0.59	0.0129	RBP2, APOA1, LRP1, GPC1, PLB1, APOA2, APOM, SDC1, SAG, GPIHBP1, LPL
Reactome	HSA-162582	Signal Transduction	102	2540	0.15	0.015	CX3CL1, HEBP1, ARHGEF5, PSME2, CSNK2A1, ACTA2, ILS, FLT3, OMG, VGF, GFAP, NOTCH2, PDGFRA, KLB, ITGAV, DSG2, LTBP2, NOTCH3, MCAM, NRP1, GAL, WNT9A, BOC, GFRA3, CRH, GPHA2, FLT1, RANBP2, ITGB6, WIF1, KIT, TFF1, INHBB, BMP10, FSTL1, VEGFD, CKB, MMP3, CXCL8, FGF5, KLK3, IL1RAP, MET, VIPR1, LEPR, PMCH, FLRT2, FGF3, F3, GHRL, EIF4EBP1, SPINT1, ERBB4, APOD, DNER, RSPO1, RSPO3, COL9A1, EPHA2, NRP2, NTRK3, CCL28, CXCL9, DLL1, CENPF, CD55, ROR1, BEX3, BAMB1, COL4A1, IL2RA, FGFBP1, ACVRL1, TFRC, PTPRZ1, FABP6, SPP1, AREG, CXCL12, ITGB1, AKAP12, PENK, RANGAP1, PLTP, GFRA2, TFF3, IL32, CALCB, PSM9, CNTN1, TGFBR1, GDF2, APOC1, PTPRS, NCAM1, PSMC3, NEFL, CGA, KITLG, CDH5, TPM3, NOTCH1
Reactome	HSA-419037	NCAM1 interactions	7	42	0.77	0.0186	NCAN, CNTN2, CACNA1H, COL9A1, COL4A1, GFRA2, NCAM1
Reactome	HSA-9006934	Signaling by Receptor Tyrosine Kinases	30	521	0.3	0.0186	FLT3, VGF, GFAP, PDGFRA, KLB, ITGAV, NRP1, FLT1, KIT, VEGFD, FGF5, MET, FLRT2, FGF3, F3, SPINT1, ERBB4, COL9A1, NRP2, NTRK3, COL4A1, FGFBP1, PTPRZ1, SPP1, AREG, CXCL12, ITGB1, PTPRS, KITLG, CDH5
Reactome	HSA-6811558	PI5P, PP2A and IER3 Regulate PI3K/AKT Signaling	11	106	0.56	0.0197	FLT3, PDGFRA, KLB, KIT, FGF5, IL1RAP, MET, FGF3, ERBB4, AREG, KITLG
Reactome	HSA-1266738	Developmental Biology	52	1108	0.22	0.021	PSME2, CSNK2A1, PI3, KLK12, NCAN, CHL1, DSG3, ITGAV, DSG2, GPC1, NRP1, BOC, GFRA3, SCN2B, DSC2, EPHA4, ALCAM, MET, CNTN2, CACNA1H, PKLR, NEO1, COL9A1, EPHB4, EPHA2, CELA2A, DSG4, SPINK5, NRP2, KRT19, DLL1, EFNA1, L1CAM, COL4A1, CDSN, KLK14, KLK8, CXCL12, ITGB1, UNC5D, ADIPOQ, NELL2, GFRA2, PSM9, CNTN1, RGM1, NCAM1, PSMC3, EPHB6, EFN2, LPL, NOTCH1
Reactome	HSA-8963901	Chylomicron remodeling	4	10	1.15	0.0214	APOA1, APOA2, GPIHBP1, LPL
Reactome	HSA-174824	Plasma lipoprotein assembly, remodeling, and clearance	9	75	0.62	0.0237	APOA1, APOA2, APOF, PLTP, APOBR, APOC1, FGF21, GPIHBP1, LPL
Reactome	HSA-388844	Receptor-type tyrosine-protein phosphatases	5	20	0.94	0.0237	IL1RAP, NTRK3, SLITRK1, PTPRS, SLITRK6
Reactome	HSA-6809371	Formation of the cornified envelope	12	128	0.52	0.0237	PI3, KLK12, DSG3, DSG2, DSC2, CELA2A, DSG4, SPINK5, KRT19, CDSN, KLK14, KLK8

Reactome	HSA-196854	Metabolism of vitamins and cofactors	15	188	0.45	0.0239	RBP2, APOA1, LRP1, TCN1, GCHFR, GPC1, PLB1, TPK1, APOA2, APOM, SDC1, MTHFD2, GPIHBP1, NMRK2, LPL
Reactome	HSA-5673001	RAF/MAP kinase cascade	19	277	0.38	0.027	PSME2, ILS, FLT3, PDGFRA, KLB, GFRA3, KIT, FGF5, MET, FGF3, ERBB4, IL2RA, AREG, GFRA2, PSMD9, NCAM1, PSMC3, NEFL, KITLG
Reactome	HSA-194306	Neurophilin interactions with VEGF and VEGFR	3	4	1.42	0.0277	NRP1, FLT1, NRP2
Reactome	HSA-140875	Common Pathway of Fibrin Clot Formation	5	22	0.9	0.0309	PROCR, PRTN3, SERPINC1, THBD, CD177
Reactome	HSA-1237044	Erythrocytes take up carbon dioxide and release oxygen	4	12	1.07	0.0311	SLC4A1, CA2, CA4, CA1
Reactome	HSA-9711123	Cellular response to chemical stress	15	195	0.43	0.0311	HMOX1, PSME2, CSNK2A1, CAT, PRDX1, BLVRB, PRDX2, ATF4, PRDX6, SOD3, GSTP1, CCS, PSMD9, PSMC3, NOTCH1
Reactome	HSA-5083630	Defective LFNG causes SCDO3	3	5	1.32	0.0388	NOTCH2, NOTCH3, NOTCH1
Reactome	HSA-1430728	Metabolism	84	2092	0.15	0.0391	DCN, CA12, HMOX1, PSME2, CSNK2A1, NME3, PON1, AK1, DNPH1, RBP2, APOA1, LRP1, NCAN, LYVE1, TCN1, GCHFR, BLVRB, GPC1, VCAN, B3GAT3, PON3, HYAL1, FABP2, RANBP2, CA2, CA3, ENPP6, TNFRSF21, CKB, CA4, ACHC, B4GAT1, PLA2G1B, CSPG4, BCAT2, PLB1, BCAN, IDS, PKLR, SMPD1, SERPINA6, PODXL2, ARG1, TPK1, GUK1, HSD11B1, APOA2, LHPP, CA14, GLO1, OMD, OGN, APOM, NUDT10, CA6, CA9, FABP9, SAT1, GLRX, SDC1, CSPG5, TYRP1, DBH, DPEP1, FABP6, MTHFD2, AMPD3, HAGH, GSTP1, ACAN, ADIPOQ, GC, GNPDA1, ST3GAL1, HS6ST2, CA1, PSMD9, DPEP2, COL4A1, SPP1, ACAN
Reactome	HSA-1474228	Degradation of the extracellular matrix	12	140	0.48	0.0391	DCN, MMP13, MMP10, MMP3, BCAN, CTSB, ADAM15, COL9A1, OPTC, COL4A1, SPP1, ACAN
Reactome	HSA-2129379	Molecules associated with elastic fibres	6	37	0.75	0.0391	ITGAV, LTBP2, ITGB6, BMP10, EFEMP1, ITGB1
Reactome	HSA-9006936	Signaling by TGFB family members	11	121	0.5	0.0391	ITGAV, LTBP2, ITGB6, INHBB, BMP10, FSTL1, BAMBI, ACVRL1, ITGB1, TGFB1, GDF2
Reactome	HSA-140877	Formation of Fibrin Clot (Clotting Cascade)	6	39	0.73	0.0477	PROCR, PRTN3, F3, SERPINC1, THBD, CD177

Supplementary Table 13: Pathways upregulated in APOE E4

#category	term ID	term description	observed gene count	background gene count	strength	false discovery rate	matching proteins in your network (labels)
GO Function	GO:0005515	Protein binding	53	7242	0.28	2.92E-05	SCT, CSNK2A1, RP2, PAG1, GFAP, SNAP25, CHL1, NOTCH2, KLB, PPP2R5A, MFGE8, AGRP, TNFSF12, HPGDS, CLEC3B, ITGA2, SMAD1, TADA3, AGR3, CD34, SSNA1, IL1RAP, GIMAP7, MTSS1, ITGA11, HEXIM1, GHRL, SKAP1, FGFBP3, PALM, DNER, NTRK3, CNTF, HSD11B1, CFHR4, APOA2, SNAPIN, FGFBP1, CCL25, APOF, NPY, CDKN1A, CCN1, PVR, DCTN2, IL32, BRK1, PTH, PPP1R9B, HYOU1, AP2B1, SLIME2, SNCA
GO Function	GO:0005102	Signaling receptor binding	22	1499	0.58	8.37E-05	SCT, GFAP, KLB, MFGE8, AGRP, TNFSF12, ITGA2, IL1RAP, MTSS1, ITGA11, GHRL, PALM, DNER, CNTF, APOA2, CCL25, APOF, NPY, CCN1, IL32, PTH, PPP1R9B
GO Function	GO:0001664	G protein-coupled receptor binding	8	295	0.85	0.0195	SCT, AGRP, GHRL, PALM, CCL25, NPY, PTH, PPP1R9B
GO Function	GO:0004857	Enzyme inhibitor activity	9	396	0.77	0.0195	TFPI, RARRES1, HEXIM1, APOA2, COL28A1, CDKN1A, SPINK2, PPP1R9B, SNCA
GO Function	GO:0005179	Hormone activity	6	129	1.08	0.0195	SCT, AGRP, GHRL, CCL25, NPY, PTH
GO Function	GO:0005488	Binding	66	12838	0.12	0.0195	SCT, CSNK2A1, RP2, PAG1, CLEC4A, NCAN, GFAP, CLEC10A, SNAP25, CHL1, NOTCH2, KLB, PPP2R5A, MFGE8, PLA2G7, ARAF, AGRP, TNFSF12, HPGDS, CLEC3B, ITGA2, SMAD1, TADA3, AGR3, CD34, SSNA1, IL1RAP, GIMAP7, MTSS1, ITGA11, HEXIM1, GHRL, SKAP1, FGFBP3, PALM, DNER, ELN, NTRK3, CNTF, HSD11B1, CFHR4, APOA2, SNAPIN, ENPP5, NCS1, APOM, FGFBP1, CCL25, APOF, NPY, VSNL1, CDKN1A, CCN1, PVR, DCTN2, SPARCL1, IL32, BRK1, PTH, GET3, HMOX2, PPP1R9B, HYOU1, AP2B1, SLIME2, SNCA
GO Function	GO:0098772	Molecular function regulator activity	21	1960	0.44	0.0195	SCT, RP2, TFPI, RARRES1, PPP2R5A, AGRP, TNFSF12, HEXIM1, GHRL, CNTF, APOA2, NCS1, CCL25, COL28A1, NPY, CDKN1A, SPINK2, IL32, PTH, PPP1R9B, SNCA
Reactome	HSA-162582	Signal Transduction	24	2540	0.39	0.044	SCT, CSNK2A1, PAG1, GFAP, NOTCH2, KLB, PPP2R5A, ARAF, ITGA2, SMAD1, IL1RAP, GHRL, FGFBP3, DNER, NTRK3, FGFBP1, CCL25, NPY, CDKN1A, IL32, BRK1, PTH, HMOX2, AP2B1

Supplementary Table 14: Pathways downregulated by BHBA

#category	term ID	term description	observed gene count	background gene count	strength	false discovery rate	matching proteins in your network (labels)
KEGG	hsa04514	Cell adhesion molecules	20	138	0.89	4.29E-09	CD22, SELPLG, ITGAV, CDH3, ITGB7, CD34, CD6, CNTN2, PDCD1, NFASC, CNTNAP2, L1CAM, NRCAM, ITGB2, JAM2, CD8A, CNTN1, PTPRM, ITGAM, CDH5
KEGG	hsa04060	Cytokine-cytokine receptor interaction	23	282	0.64	2.09E-06	TNFRSF10A, TNFSF8, CSF3, BMP4, EPO, MSTN, IL12RB2, IL1RL2, IL22RA1, IL15, CSF2, PRL, IL7R, LEP, IL21R, FASLG, IFNGR1, IL4R, IL34, LTA, GHR, FAS, IL31RA
KEGG	hsa04151	PI3K-Akt signaling pathway	25	349	0.58	3.56E-06	COMP, CSF3, COL1A1, FLT3, EPO, PDGFRA, ITGAV, ITGB7, NTRK2, ITGB6, FGF19, PRL, IL7R, ITGA11, THBS4, COL9A1, TNR, FASLG, IL4R, NTF3, TNXB, PGF, NTF4, FLT3LG, GHR
KEGG	hsa04640	Hematopoietic cell lineage	12	90	0.85	3.21E-05	CD22, CSF3, FLT3, EPO, CSF2, IL7R, CD34, CD1C, IL4R, CD8A, FLT3LG, ITGAM
KEGG	hsa04974	Protein digestion and absorption	12	100	0.81	7.12E-05	CPA2, COL1A1, MEP1A, CELA3A, COL3A1, COL9A1, ELN, CTRB1, PRCP, COL28A1, ACE2, CPB1
KEGG	hsa04630	JAK-STAT signaling pathway	14	158	0.67	0.00021	CSF3, EPO, PDGFRA, IL12RB2, IL22RA1, IL15, CSF2, PRL, IL7R, LEP, IL21R, IFNGR1, IL4R, GHR
KEGG	hsa04512	ECM-receptor interaction	10	88	0.78	0.00063	COMP, COL1A1, ITGAV, ITGB7, ITGB6, ITGA11, THBS4, COL9A1, TNR, TNXB
KEGG	hsa04972	Pancreatic secretion	10	97	0.74	0.0012	CPA2, CELA3A, PLCB1, ATP2B4, CTRB1, AMY2B, PNLP, PLA2G10, CPB1, AMY2A
KEGG	hsa00910	Nitrogen metabolism	5	17	1.2	0.0016	CA12, CA8, CA6, CA9, CA1
KEGG	hsa04510	Focal adhesion	12	195	0.52	0.0159	COMP, COL1A1, PDGFRA, ITGAV, ITGB7, ITGB6, ITGA11, THBS4, COL9A1, TNR, TNXB, PGF
KEGG	hsa05146	Amoebiasis	8	101	0.63	0.028	COL1A1, CSF2, COL3A1, PLCB1, ARG1, CD1C, ITGB2, ITGAM
KEGG	hsa04977	Vitamin digestion and absorption	4	24	0.95	0.0455	CBLIF, PLB1, APOA4, PNLP
KEGG	hsa00514	Other types of O-glycan biosynthesis	5	43	0.79	0.0473	GALNT5, GALNT7, GALNT2, B4GALT1, GALNT3
Reactome	HSA-1474244	Extracellular matrix organization	26	300	0.67	9.39E-07	DCN, COMP, COL1A1, BMP4, ADAMTS8, ITGAV, ITGB7, ITGB6, COL3A1, ITGA11, BGN, BSG, TPSAB1, COL9A1, ELN, CTRB1, TNR, MFAP4, ITGB2, COL28A1, JAM2, ACAN, TNXB, KLK7, FIBRIN, ITGAM
Reactome	HSA-3781865	Diseases of glycosylation	17	144	0.8	8.61E-06	DCN, ADAMTS8, THSD1, NOTCH3, GPC1, ADAMTS15, GLB1, CSPG4, BGN, ADAMTS15, ADAMTS14, ADAMTS13, OMD, B4GALT1, GALNT3, ACAN, SPON2
Reactome	HSA-216083	Integrin cell surface interactions	12	85	0.88	0.00017	COMP, COL1A1, ITGAV, ITGB7, ITGB6, COL3A1, ITGA11, BSG, COL9A1, ITGB2, JAM2, ITGAM
Reactome	HSA-3000178	ECM proteoglycans	11	76	0.89	0.00032	DCN, COMP, COL1A1, ITGAV, ITGB6, COL3A1, BGN, COL9A1, TNR, ACAN, TNXB
Reactome	HSA-5668914	Diseases of metabolism	19	250	0.61	0.00032	DCN, IDUA, CBLIF, ADAMTS8, THSD1, NOTCH3, GPC1, ADAMTS15, GLB1, CSPG4, BGN, ADAMTS15, ADAMTS14, ADAMTS13, OMD, B4GALT1, GALNT3, ACAN, SPON2
Reactome	HSA-198933	Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell	13	130	0.73	0.00094	CD22, COL1A1, CRTAM, KLRB1, ITGB7, COL3A1, CD34, KLRD1, CD1C, SH2D1A, ITGB2, CD8A, CD200
Reactome	HSA-8935690	Digestion	6	19	1.23	0.0016	CLPS, ALPI, GUCA2A, AMY2B, PNLP, AMY2A
Reactome	HSA-1266738	Developmental Biology	42	1108	0.31	0.0037	PSMD5, WASL, BMP4, KRT6C, DSG3, CFC1, ITGAV, GPC1, ADAM23, ADAM22, BOC, GFRA3, EPHA1, EPHA4, COL3A1, RGMB, LEP, PRSS8, SCN4B, SPRR3, CNTN2, HJV, PKLR, NFASC, RET, COL9A1, SPINK5, LEFTY2, L1CAM, PTGDS, NRCAM, KLK8, CDON, DSCAM, DCC, PSMA1, NELL2, ROBO2, CNTN1, RGMA, KLK13, FIBRIN
Reactome	HSA-1638091	Heparan sulfate/heparin (HS-GAG) metabolism	8	55	0.89	0.0037	DCN, IDUA, HS6ST1, GPC1, GLB1, CSPG4, BGN, HS6ST2
Reactome	HSA-3906995	Diseases associated with O-glycosylation of proteins	9	69	0.84	0.0037	ADAMTS8, THSD1, NOTCH3, ADAMTS15, ADAMTS15, ADAMTS14, ADAMTS13, GALNT3, SPON2
Reactome	HSA-5083635	Defective B3GALTL causes PpS	7	37	1	0.0037	ADAMTS8, THSD1, ADAMTS15, ADAMTS15, ADAMTS14, ADAMTS13, SPON2
Reactome	HSA-5173105	O-linked glycosylation	11	112	0.72	0.0037	ADAMTS8, THSD1, GALNT5, GALNT7, ADAMTS15, ADAMTS15, GALNT2, ADAMTS14, ADAMTS13, GALNT3, SPON2

Reactome	HSA-5173214	O-glycosylation of TSR domain-containing proteins	7	38	0.99	0.0037	ADAMTS8, THSD1, ADAMTS15, ADAMTS15L, ADAMTSL4, ADAMTS13, SPON2
Reactome	HSA-1474228	Degradation of the extracellular matrix	12	140	0.66	0.0038	DCN, COL1A1, ADAMTS8, COL3A1, BSG, TPSAB1, COL9A1, ELN, CTRB1, ACAN, KLK7, FURIN
Reactome	HSA-3560782	Diseases associated with glycosaminoglycan metabolism	7	41	0.96	0.0038	DCN, GPC1, CSPG4, BGN, OMD, B4GALT1, ACAN
Reactome	HSA-1630316	Glycosaminoglycan metabolism	11	124	0.68	0.0055	DCN, IDUA, HS6ST1, GPC1, GLB1, CSPG4, BGN, OMD, B4GALT1, ACAN, HS6ST2
Reactome	HSA-168256	Immune System	62	1979	0.22	0.0066	CD22, PSMDS, CHGA, CTSZ, WASL, TNFSF8, CSF3, COL1A1, CRTAM, KLRB1, FLT3, ADGRE5, BPIFA2, CHI3L1, ITGAV, IL12RB2, IL1RL2, ITGB7, IL22RA1, IL15, CSF2, PRL, COL3A1, IL7R, GLB1, CD34, CTSF, PDCD1, IL21R, KLRD1, NFASC, ARG1, CTSE, TLR1, CR1, CR2, FASLG, IFNGR1, CD1C, CREG1, SH2D1A, UBAC1, GSN, C1QA, AGER, B4GALT1, IFNGR2, TRAF3, PRCP, IL4R, AMPD3, ITGB2, CD8A, IL34, LTA, PSMA1, CD200, CA1, FLT3LG, GHR, ITGAM, IL31RA
Reactome	HSA-202733	Cell surface interactions at the vascular wall	11	139	0.63	0.0128	TNFRSF10A, COL1A1, SELPLG, ITGAV, GPC1, FCAMR, BSG, L1CAM, ITGB2, JAM2, ITGAM
Reactome	HSA-1475029	Reversible hydration of carbon dioxide	4	12	1.25	0.0196	CA12, CA6, CA9, CA1
Reactome	HSA-381426	Regulation of Insulin-like Growth Factor (IGF) transport and uptake by Insulin-like Growth Factor Binding Proteins (IGFBPs)	10	124	0.63	0.0196	BMP4, HRC, MFGE8, PCSK9, SCG2, AMBN, CCN1, SPARCL1, VWA1, KLK13
Reactome	HSA-422475	Axon guidance	24	551	0.37	0.0196	PSMDS, WASL, ITGAV, GPC1, GFRA3, EPHA1, EPHA4, COL3A1, RGMB, SCN4B, CNTN2, HIV, NFASC, RET, COL9A1, L1CAM, NRCAM, DSCAM, DCC, PSMA1, NELL2, ROBO2, CNTN1, RGMA
Reactome	HSA-2024101	CS/DS degradation	4	14	1.18	0.0279	DCN, IDUA, CSPG4, BGN
Reactome	HSA-1566948	Elastic fibre formation	6	44	0.86	0.0281	BMP4, ITGAV, ITGB6, ELN, MFAP4, FURIN
Reactome	HSA-8957275	Post-translational protein phosphorylation	9	107	0.65	0.0281	BMP4, HRC, MFGE8, PCSK9, SCG2, AMBN, CCN1, SPARCL1, VWA1
Reactome	HSA-975634	Retinoid metabolism and transport	6	44	0.86	0.0281	CLPS, GPC1, PLB1, APOA4, PNLP, LDLR
Reactome	HSA-1280215	Cytokine Signaling in Immune system	27	706	0.31	0.0409	PSMDS, TNFSF8, CSF3, FLT3, IL12RB2, IL1RL2, IL22RA1, IL15, CSF2, PRL, IL7R, IL21R, FASLG, IFNGR1, AGER, IFNGR2, TRAF3, IL4R, ITGB2, IL34, LTA, PSMA1, CA1, FLT3LG, GHR, ITGAM, IL31RA
Reactome	HSA-163125	Post-translational modification: synthesis of GPI-anchored proteins	8	93	0.66	0.0421	CD109, ALPI, PRND, CPM, ART3, MDGA1, CNTN5, NRN1
Reactome	HSA-373752	Netrin-1 signaling	6	50	0.81	0.0421	WASL, RGMB, HIV, DSCAM, DCC, RGMA
Reactome	HSA-447043	Neurofascin interactions	3	7	1.36	0.048	NFASC, NRCAM, CNTN1

Supplementary Table 15: Pathways upregulated with valine

#category	term ID	term description	observed gene count	background gene count	strength	false discovery rate	matching proteins in your network (labels)
KEGG	hsa04060	Cytokine-cytokine receptor interaction	91	282	0.6	7.76E-22	CD4, RELT, TNFRSF1A, OSM, CCL22, CCL17, TNFRSF10A, TGFBI, CSF3, CCL2, CCL13, CXCL6, IFNG, IL12B, TNFSF10, LIF, EPO, GDF15, EDAR, IL1RN, CCL21, CCL27, MSTN, TNFRSF13B, IL1B, IL7, IL1RL2, IFNAR1, IL22RA1, TNFRSF10B, CTF1, IL18, BMP6, CSF1R, CXCL13, IL10RB, TNFRSF13C, CXCL16, CXCL3, CXCL5, PPBP, PF4, CSF2, CCL11, IL16, CXCL10, CXCL11, INHBC, CCL19, LEP, TNFRSF12A, IFNLR1, IL3RA, IL1R2, TSLP, TNFRSF14, CCL20, TGFBR2, XCL1, IL6R, TNFRSF6B, CD40LG, IL13RA1, CD40, CSF3R, CCL7, CCL25, CCL8, CCL26, CXCL1, TNFSF11, IL6, IL18R1, IL34, TNF, CCL24, LTA, LT, TNFRSF11A, TNFSF14, IL12RB1, CXCL17, CCL5, CCL3, CCL16, CCL18, CCL4, GHR, CCL15, TNFSF10, CCL21, CCL13, CXCL6, TNFSF10, CCL22, CCL17, TNFRSF10A, CCL2, CCL13, CXCL6, TNFSF10, CCL21, CCL27, IL22RA1, TNFRSF10B, IL18, CSF1R, CXCL13, IL10RB, CXCL3, CXCL5, PPBP, PF4, CCL11, CXCL10, CXCL11, CCL19, TNFRSF14, CCL20, XCL1, IL6R, CCL7, CCL25, CCL8, CCL26, CXCL1, IL6, IL18R1, IL34, TNF, CCL24, LTA, TNFSF14, CCL5, CCL3, CCL16, CCL18, CCL4, CCL15
KEGG	hsa04061	Viral protein interaction with cytokine and cytokine receptor	46	96	0.77	7.15E-16	TNFRSF1A, CCL22, CCL17, TNFRSF10A, CCL2, CCL13, CXCL6, TNFSF10, CCL21, CCL27, IL22RA1, TNFRSF10B, IL18, CSF1R, CXCL13, IL10RB, CXCL3, CXCL5, PPBP, PF4, CCL11, CXCL10, CXCL11, CCL19, TNFRSF14, CCL20, XCL1, IL6R, CCL7, CCL25, CCL8, CCL26, CXCL1, IL6, IL18R1, IL34, TNF, CCL24, LTA, TNFSF14, CCL5, CCL3, CCL16, CCL18, CCL4, CCL15
KEGG	hsa04610	Complement and coagulation cascades	37	82	0.74	3.79E-12	CPB2, SERPIND1, F9, PLAT, SERPINE1, C5, TFPI, PROC, C4BPB, C3, F12, VWF, KLKB1, C2, F2, PLG, CD46, CLU, F2R, SERPINF2, SERPINAS, F13B, CFH, C8B, VSIG4, F10, F7, PROS1, CFI, ITGB2, F11, C1S, CFB, C1R, CFD, ITGAM, FGA
KEGG	hsa04210	Apoptosis	45	131	0.63	1.43E-11	TNFRSF1A, CTSS, CTSH, TNFRSF10A, NFKB1, CTSC, CTSD, TNFSF10, TRAF2, HTRA2, TP53, TNFRSF10B, CASP10, AIFM1, BAX, FADD, MAP2K1, ITPR1, EIF2AK3, CTSF, CASP3, CASP2, BID, LMNB2, IL3RA, CASP9, CTSL, CASP8, MAP3K5, PARP1, CTSS, CASP7, XIAP, BCL2L1, DFFA, AKT2, BCL2L11, MAPK9, TNF, ERN1, CTSS, BIRC2, IKKKG, FAS, AKT3
KEGG	hsa04151	PI3K-Akt signaling pathway	76	349	0.43	7.05E-11	OSM, CDC37, COMP, HGF, LAMB1, CSF3, NFKB1, LAMA4, FGF23, TNN, EREG, EPO, VWF, PPP2R5A, FLT4, IL7, KDR, FGF2, EGF, ERBB3, TP53, ERBB2, IFNAR1, EGFR, NTRK2, CSF1R, PKN3, ITGA5, FGF19, COL6A3, ITGA2, NOS3, MAP2K1, VEGFB, ANGPT2, GYS1, F2R, STK11, IL3RA, CASP9, PDGFB, FOXO3, THBS4, TCL1B, PDGFA, FN1, THBS2, IL6R, PTEN, COL9A2, CSF3R, TLR4, BCL2L1, TEK, COL2A1, YWHAQ, AKT2, BCL2L11, CDKN1A, IL6, ITGA6, EIF4B, FGF16, TGFA, FGF2R, BDNF, EFNA4, PDGFC, ANGPT1, PGF, TCLA1, FLT3LG, VEGFC, GHR, IKKKG, AKT3
KEGG	hsa04668	TNF signaling pathway	39	111	0.64	2.21E-10	TNFRSF1A, CCL2, CXCL6, NFKB1, TRAF2, LIF, IL1B, ICAM1, CASP10, BAG4, CXCL3, CXCL5, CSF2, FADD, MAP2K1, CEBPB, CXCL10, CASP3, SELE, CASP8, CCL20, MAP3K5, TAB2, CASP7, EDN1, AKT2, CXCL1, IL6, IL18R1, MAPK9, TNF, LTA, MAP2K6, CCL5, BIRC2, VEGFC, IKKKG, FAS, AKT3
KEGG	hsa04064	NF-kappa B signaling pathway	37	101	0.65	2.48E-10	TNFRSF1A, LBP, BLNK, CCL13, NFKB1, TRAF2, EDAR, CCL21, PRKCO, IL1B, ICAM1, LY96, TNFRSF13C, CXCL3, CCL19, TRIM25, PARP1, TAB2, IRAK1, CD40LG, XIAP, CD40, TLR4, BCL2L1, DDX58, CXCL1, TNFSF11, TNF, LTA, LT, LYN, TNFRSF11A, TNFSF14, BIRC2, IRAK4, CCL4, IKKKG
KEGG	hsa05323	Rheumatoid arthritis	32	83	0.68	2.04E-09	ACPS, TGFBI, CCL2, CXCL6, IFNG, IL1B, CD80, ICAM1, IL18, CXCL3, CXCL5, CSF2, ATP6V1G2, MMP1, CD28, CTSL, ITGAL, CCL20, TLR4, ATP6V1G1, TEK, CXCL1, ITGB2, TNFSF11, IL6, TNF, LT, ANGPT1, PTH, TNFRSF11A, CCL5, CCL3
KEGG	hsa05200	Pathways in cancer	92	515	0.34	2.62E-09	GSTA3, TGFBI, HGF, LAMB1, NFKB1, IFNG, LAMA4, IL12B, FGF23, TRAF2, DLL4, EPO, PLCB2, CDH1, FLT4, SMAD2, ELOB, AXIN1, IL7, FGF2, EGF, TP53, ERBB2, IFNAR1, RALB, EGFR, CSF1R, ARAF, GSTT2B, BAX, STAT5B, FGF19, ITGA2, SHH, FADD, MAP2K1, BCR, F2, CASP3, VEGFB, STAT2, BID, F2R, MMP1, IL3RA, CASP9, PDGFB, SMAD3, GSTA1, ARHGEF1, ZBTB16, CRKL, PDGFA, FN1, RET, CASP8, MAX, TGFBR2, EGLN1, IL6R, CASP7, GNAS, XIAP, IL13RA1, PTEN, ABL1, STK4, CSF3R, BCL2L1, EDN1, FOXO1, AKT2, BCL2L11, ARHGEF12, CDKN1A, IL6, ITGA6, MAPK9, FGF16, TGFA, FGF2R, CEHPA, TNFRSF11A, TNFSF14, BIRC2, VEGFC, IKKKG, FAS, AKT3
KEGG	hsa05144	Malaria	24	46	0.81	3.59E-09	TGFBI, COMP, HGF, CSF3, CCL2, IFNG, KLRB1, KLRK1, IL1B, SELP, ICAM1, IL18, SELE, THBS4, ITGAL, THBS2, CD40LG, CD40, TLR4, ITGB2, IL6, TNF, CD36, PECAM1
KEGG	hsa04062	Chemokine signaling pathway	48	186	0.5	4.18E-09	CCL22, CCL17, CCL2, CCL13, CXCL6, NFKB1, CCL21, CCL27, PLCB2, CXCL13, STAT5B, CXCL16, CXCL3, CXCL5, PPBP, PF4, CCL11, MAP2K1, CXCL10, CXCL11, CCL19, STAT2, FOXO3, CRKL, CCL20, XCL1, VAV3, SRC, FGR, PARD3, WAS, CCL7, CCL25, AKT2, GRK5, CCL8, CCL26, CXCL1, CCL24, LYN, CCL5, CCL3, CCL16, CCL18, CCL4, IKKKG, CCL15, AKT3

KEGG	hsa04010	MAPK signaling pathway	62	286	0.43	4.25E-09	TNFRSF1A, TGFB1, HGF, NFKB1, PPP3R1, FGF23, EREG, RRAS, TRAF2, HSPB1, FLT4, IL1B, KDR, RAPGEF2, FGF2, EGF, ERBB3, TP53, ERBB2, EGFR, NTRK2, CSF1R, ARAF, FGF19, NFATC3, CACNB3, MAP2K1, CASP3, VEGFB, ANGPT2, PPM1A, PDGFB, CRKL, PDGFA, MAX, TGFBR2, MAP3K5, MAPKAPK2, TAB2, PLA2G4A, IRAK1, STK4, TEK, AKT2, NFATC1, MAPK9, TNF, FGF16, TGFA, FGFR2, BDNF, EFNA4, PDGFC, ANGPT1, PGF, MAP2K6, FLT3LG, IRAK4, VEGFC, IKKKG, FAS, AKT3
KEGG	hsa04142	Lysosome	38	125	0.57	6.32E-09	ARSA, CTSZ, GLA, ACP5, PLA2G15, CTSH, CTSC, CTSO, CLTA, IDUA, AP3B1, SORT1, SCARB2, ARSB, TPP1, GUSB, GLB1, CD164, CTSF, NAGPA, AP1G2, GBA, SGSH, LAMP1, AP3S2, ABCA2, CTSL, IGF2R, CTSE, CTSS, FUCA1, ASAH1, IGMN, PSAP, NAGA, CTSO, CD63, NPC2
KEGG	hsa04640	Hematopoietic cell lineage	30	90	0.61	7.73E-08	CD4, CD22, CSF3, CD38, EPO, IL1B, IL7, FCER2, CSF1R, ITGA5, ITGA2, CSF2, CD7, IL3RA, IL1R2, CD5, IL6R, CD2, CSF3R, GP1BB, GP5, IL6, CD8A, ITGA6, TNF, CD36, MME, FLT3LG, THPO, ITGAM
KEGG	hsa01100	Metabolic pathways	184	1435	0.2	1.23E-07	ST6GAL1, TIGAR, OXCT1, GSTA3, NDUFB7, MIF, AHCY, GLA, ACP5, GSR, NAMPT, CD38, LAP3, MVK, NTS1A, NTS5, UROD, IDUA, GGT1, SIRT2, RRM2B, NT5E, NPL, COX5B, GMPR, PLCB2, KHK, ALDH2, ARG2, MARS1, SPTLC1, MECR, TREH, KYNU, PIKFYVE, ARSB, GALNT7, MGLL, SORD, PMM2, SAT2, NDUFS6, PLA2G7, MMUT, GGCT, HNMT, PTS, QDPR, UXS1, AKR1B1, THTPA, GSTT2B, ACOX1, HPGDS, CHAC2, GNPDA2, ALPI, GALNT10, NOS3, ALDH1A1, INPPL1, PCBD1, ATP6V1G2, AGXT, GUSB, DCXR, DTYMK, ADH1B, RBKS, GLB1, CANT1, PHYKPL, GRHPR, CA8, GBA, SGSH, ALDH5A1, GYS1, MPI, SHMT1, CA13, TALDO1, COQ7, ENO3, UPB1, ENPP7, ACAA1, GSTA1, LBR, PPCDC, PTGES2, PDE5A, ENTPD2, MAN1A2, DCTD, CNBDP1, RPE, AKR1B10, RRM2, FUT8, COMT, GALNT2, PFKFB2, PLA2G4A, PMVK, ECHS1, ACADS5, PNLIP, SCP2, PTEN, ASS1, ADA, ATP6V1G1, EXTL1, PAFAH2, HMGCL, CDA, HSD17B3, SDHB, NMNAT1, APRT, HAO1, NUDT2, B4GALT1, ITPA, AKR1C4, DUT, ASAH1, SETMAR, INPP1, GALNT3, SUOX, NIT2, DGKA, LIPF, ASAH2, TYMP, NAGA, GNE, GAPDH, MOCS2, FTCD, CBS, ADA2, PLA2G2A, HPSE, ACY1, SMS, TST, PLA2G10, KYAT1, ASRGL1, INPP5, GRAP2, FOXO3, PIK3AP1, LBR, EIF4EBP1, PTN, PPP1CC, SPINT1, RNF41, APOD, SH2B3, CRKL, PDGFA, FN1, PDESA, DNMT3, GFRA1, OPHN1, RSPO1, RSPO3, SCRIB, CASP8, STIP1, CCL20, WWP2, PTPRF, NRP2, CCL28, CXCL9, CDC42BPB, AC
KEGG	hsa05152	Tuberculosis	41	165	0.49	1.58E-07	CD74, TNFRSF1A, LBP, CORO1A, TGFB1, NFKB1, IFNG, IL12B, PPP3R1, CTSO, C3, IL1B, IL18, CASP10, IL10RB, BAX, FADD, CEBPB, CASP3, BID, CASP9, LAMP1, NFYA, CASP8, FCGR2B, TLR1, CTSS, IRAK1, SRC, TLR4, LSP1, AKT2, ARHGFE12, ITGB2, IL6, MAPK9, TNF, MRC1, IRAK4, ITGAM, AKT3
KEGG	hsa05164	Influenza A	40	163	0.48	3.03E-07	TNFRSF1A, TNFRSF10A, CCL2, NFKB1, IFNG, IL12B, EIF2AK2, TNFSF10, DNAIB1, IL1B, ICAM1, IFNAR1, TNFRSF10B, IL18, BAX, TLR3, FADD, MAP2K1, CXCL10, PLG, CASP3, STAT2, BID, TRIM25, CASP9, TPSAB1, CASP8, TLR4, DDX58, HNRNPUL1, AKT2, IL6, TNF, MAVS, CASP1, CCL5, IRAK4, IKKKG, FAS, AKT3
KEGG	hsa05130	Pathogenic Escherichia coli infection	43	187	0.45	4.26E-07	TNFRSF1A, MYH9, TNFRSF10A, NFKB1, NCK2, TNFSF10, TRAF2, SLC9A3R1, IL1B, TNFRSF10B, IL18, BAX, ARF6, FADD, F2, CASP3, BAIAP2, HCLS1, F2R, CASP9, WASF3, ARHGFE1, EZR, OCLN, CASP8, TAB2, CASP7, IRAK1, ABL1, SRC, TLR4, WASF1, GAPDH, ARHGFE12, IL6, PTPN6, MAPK9, TNF, BRK1, CASP1, IRAK4, IKKKG, FAS
KEGG	hsa04662	B cell receptor signaling pathway	26	78	0.61	6.27E-07	CD22, BLNK, NFKB1, PPP3R1, CD72, NFKBIE, INPPL1, NFATC3, MAP2K1, LILRB1, FCGR2B, VAV3, LILRB4, LILRA2, AKT2, CD79B, LILRA6, NFATC1, PTPN6, LILRA5, INPP5D, LILRB5, DAPP1, LYN, IKKKG, AKT3
KEGG	hsa05145	Toxoplasmosis	30	103	0.55	6.92E-07	TNFRSF1A, TGFB1, LAMB1, PPIF, NFKB1, IFNG, LAMA4, IL12B, LY96, IL10RB, CASP3, CASP9, CASP8, TAB2, IRAK1, CD40LG, XIAP, CD40, TLR4, BCL2L1, AKT2, ITGA6, MAPK9, TNF, LDLR, MAP2K6, BIRC2, IRAK4, IKKKG, AKT3
KEGG	hsa04015	Rap1 signaling pathway	44	201	0.43	8.64E-07	HGF, FGF23, VASP, RRAS, PLCB2, CDH1, FLT4, KDR, RAPGEF2, FGF2, EGF, RALB, EGFR, CSF1R, FGF19, MAP2K1, VEGFB, ANGPT2, F2R, PDGFB, SKAP1, CRKL, PDGFA, ITGAL, ENAH, VAV3, GNAS, SRC, PARD3, APBB1IP, TEK, AKT2, ITGB2, PRKD2, FGF16, FGFR2, EFNA4, PDGFC, ANGPT1, PGF, MAP2K6, VEGFC, ITGAM, AKT3
KEGG	hsa04514	Cell adhesion molecules	35	138	0.49	8.64E-07	CD4, CD22, SELPLG, CDH1, SELP, CD80, ICAM1, CDH2, CDH15, JAM3, CD6, CD28, SELE, SIGLEC1, NFASC, OCLN, ITGAL, F11R, CD2, CD40LG, CD40, SDC4, HLA-E, NRCAM, VSIR, ITGB2, JAM2, CD8A, ITGA6, PVR, PTPRC, PECAM1, CD226, PTPRM, ITGAM

KEGG	hsa05135	Yersinia infection	33	124	0.52	8.64E-07	SKAP2, CD4, CCL2, NFKB1, TRAF2, IL1B, IL18, ITGA5, ARF6, NFATC3, MAP2K1, BAIAP2, ARHGEF1, CRKL, FN1, TAB2, IRAK1, VAV3, SRC, TLR4, WAS, AKT2, ARHGEF12, IL6, CD8A, NFATC1, MAPK9, TNF, CASP1, MAP2K6, IRAK4, IKKKG, AKT3
KEGG	hsa05161	Hepatitis B	38	158	0.47	8.64E-07	TGFB1, NFKB1, TP53, IFNAR1, CASP10, ARAF, BAX, STAT5B, TLR3, NFATC3, FADD, MAP2K1, CASP3, STAT2, BID, CASP9, SMAD3, CASP8, TGFB2, TAB2, IRAK1, SRC, TLR4, HSPG2, DDX58, YWHAQ, AKT2, CDKN1A, IL6, NFATC1, MAPK9, TNF, MAVS, MAP2K6, IRAK4, IKKKG, FAS, AKT3
KEGG	hsa04620	Toll-like receptor signaling pathway	29	100	0.55	1.00E-06	LBP, NFKB1, IL12B, IL1B, CD80, IFNAR1, LY96, TLR3, FADD, MAP2K1, CXCL10, CXCL11, CASP8, TLR1, TAB2, IRAK1, CD40, TLR4, AKT2, IL6, MAPK9, TNF, MAP2K6, CCL5, CCL3, IRAK4, CCL4, IKKKG, AKT3
KEGG	hsa01521	EGFR tyrosine kinase inhibitor resistance	25	77	0.6	1.27E-06	HGF, KDR, FGF2, EGF, ERBB3, ERBB2, EGFR, ARAF, BAX, AXL, MAP2K1, PDGFB, FOXO3, PDGFA, IL6R, PTEN, SRC, BCL2L1, AKT2, BCL2L11, IL6, TGFA, EGFR2, PDGFC, AKT3
KEGG	hsa05142	Chagas disease	28	97	0.55	1.68E-06	TNFRSF1A, TGFB1, SERPINE1, CCL2, NFKB1, IFNG, IL12B, C3, PLCB2, SMAD2, IL1B, ACE, FADD, CASP8, TGFB2, IRAK1, GNAS, TLR4, AKT2, IL6, MAPK9, TNF, CCL5, CCL3, IRAK4, IKKKG, FAS, AKT3
KEGG	hsa05205	Proteoglycans in cancer	42	194	0.43	1.68E-06	TGFB1, HGF, HBEGF, IL12B, RRAS, SMAD2, KDR, FGF2, TIMP3, ERBB3, TP53, ERBB2, EGFR, ARAF, ITGA5, ITGA2, SHH, MAP2K1, ITPR1, CASP3, HCLS1, ARHGEF12, EZR, PPP1CC, CTSL, FN1, VAV3, SDC4, SRC, TLR4, HSPG2, AKT2, ARHGEF12, HPSE, CDKN1A, EIF4B, PPP1R12A, PTPN6, TNF, CD63, FAS, AKT3, C5, CXCL6, NFKB1, IL12B, C4BPB, C3, IL1B, LY96, ITGA5, CXCL5, C2, CASP3,
KEGG	hsa05133	Pertussis	24	73	0.61	1.69E-06	CASP7, IRAK1, TLR4, ITGB2, C1S, IL6, MAPK9, TNF, CASP1, C1R, IRAK4, ITGAM
KEGG	hsa04380	Osteoclast differentiation	31	120	0.5	2.68E-06	TNFRSF1A, ACP5, TGFB1, BLNK, NFKB1, IFNG, PPP3R1, TRAF2, IL1B, IFNAR1, CSF1R, MAP2K1, STAT2, LILRB1, FCGR2B, TGFB2, TAB2, LILRB4, LILRA2, AKT2, LILRA6, TNFSF11, NFATC1, MAPK9, TNF, LILRA5, LILRB5, TNFRSF11A, MAP2K6, IKKKG, AKT3
KEGG	hsa04933	AGE-RAGE signaling pathway in diabetic complications	27	96	0.54	3.75E-06	TGFB1, SERPINE1, CCL2, NFKB1, PLCB2, SMAD2, IL1B, ICAM1, BAX, STAT5B, NOS3, COL3A1, CASP3, VEGFB, SELE, SMAD3, FN1, TGFB2, EDN1, FOXO1, AKT2, IL6, NFATC1, MAPK9, TNF, VEGFC, AKT3
KEGG	hsa05167	Kaposi sarcoma-associated herpesvirus infection	40	187	0.42	3.78E-06	TNFRSF1A, NFKB1, EIF2AK2, PPP3R1, C3, TRAF2, FGF2, ICAM1, TP53, IFNAR1, BAX, CXCL3, TLR3, CSF2, NFATC3, FADD, MAP2K1, ITPR1, CASP3, ANGPT2, STAT2, BID, CASP9, PDGFB, CASP8, BECN1, MAPKAPK2, SRC, HLA-E, AKT2, CXCL1, CDKN1A, IL6, NFATC1, MAPK9, LYN, MAP2K6, IKKKG, FAS, AKT3
KEGG	hsa04510	Focal adhesion	41	195	0.41	3.90E-06	COMP, HGF, LAMB1, LAMA4, TNN, VASP, VWF, FLT4, KDR, EGF, ERBB2, EGFR, ITGA5, COL6A3, ITGA2, MAP2K1, VEGFB, PDGFB, THBS4, PPP1CC, CRKL, PDGFA, FN1, THBS2, VAV3, XIAP, PTEN, COL9A2, SRC, COL2A1, ARHGAP5, AKT2, ITGA6, PPP1R12A, MAPK9, PDGFC, PGF, PAK4, BIRC2, VEGFC, AKT3
KEGG	hsa04657	IL-17 signaling pathway	26	91	0.55	4.36E-06	CCL17, CSF3, CCL2, CXCL6, NFKB1, IFNG, TRAF2, IL1B, CXCL3, CXCL5, CSF2, FADD, CCL11, CEBPB, CXCL10, CASP3, MMP1, CASP8, CCL20, TAB2, CCL7, CXCL1, IL6, MAPK9, TNF, IKKKG
KEGG	hsa04215	Apoptosis - multiple species	15	30	0.79	4.94E-06	TNFRSF1A, HTRA2, BAX, FADD, CASP3, BID, CASP9, CASP8, BECN1, CASP7, XIAP, BCL2L1, BCL2L11, MAPK9, BIRC2
KEGG	hsa05146	Amoebiasis	27	101	0.52	7.48E-06	TGFB1, LAMB1, NFKB1, IFNG, LAMA4, IL12B, HSPB1, PLCB2, ARG2, IL1B, CXCL3, CSF2, COL3A1, CASP3, IL1R2, FN1, GNAS, C8B, TLR4, SERPINB9, CXCL1, ITGB2, IL6, TNF, SERPINB6, MUC2, ITGAM
KEGG	hsa05418	Fluid shear stress and atherosclerosis	31	129	0.47	8.23E-06	TNFRSF1A, GSTA3, PLAT, CCL2, NFKB1, IFNG, IL1B, KDR, ICAM1, TP53, GSTT2B, NOS3, PDGFB, IL1R2, SELE, GSTA1, CTSL, PDGFA, MAP3K5, ASS1, SDC4, SRC, EDN1, AKT2, NPCC, MAPK9, TNF, PECAM1, MAP2K6, IKKKG, AKT3
KEGG	hsa04066	HIF-1 signaling pathway	27	102	0.51	8.33E-06	TIMP1, SERPINE1, NFKB1, IFNG, EPO, ELOB, EGF, ERBB2, EGFR, NOS3, MAP2K1, ANGPT2, ENO3, EGLN1, IL6R, TLR4, EDN1, TEK, AKT2, GAPDH, CDKN1A, IL6, TF, ANGPT1, ENO2, ENO1, AKT3
KEGG	hsa04630	JAK-STAT signaling pathway	35	158	0.44	8.33E-06	OSM, CSF3, IFNG, IL12B, LIF, EPO, IL7, EGF, IFNAR1, IL22RA1, EGFR, CTF1, IL10RB, STAT5B, CSF2, LEP, STAT2, IFNLR1, IL3RA, PDGFB, TSLP, PDGFA, IL6R, IL13RA1, CSF3R, BCL2L1, STAM, AKT2, CDKN1A, IL6, PTPN6, IL12RB1, GHR, THPO, AKT3
KEGG	hsa05162	Measles	32	137	0.46	8.68E-06	NFKB1, IL12B, EIF2AK2, IL1B, TP53, IFNAR1, BAX, STAT5B, FADD, EIF2AK3, CASP3, CD46, STAT2, BID, CD28, CASP9, CASP8, FCGR2B, TAB2, IRAK1, TLR4, BCL2L1, DDX58, AKT2, IL6, MAPK9, MAVS, SLAMF1, IRAK4, IKKKG, FAS, AKT3

KEGG	hsa05132	Salmonella infection	41	209	0.38	1.47E-05	TNFRSF1A, TNFRSF10A, NFKB1, TNFSF10, RRAS, TRAF2, IL1B, TNFRSF10B, IL18, LY96, BAX, ARF6, FADD, MAP2K1, CASP3, WASF3, SNX18, ANXA2, DYNC1H1, CASP8, DYNLT1, TAB2, CASP7, IRAK1, TLR4, AHNAK, DYNLT3, AKT2, SNX9, GAPDH, IL6, MAPK9, TNF, PTPRC, BRK1, CASP1, MAP2K6, BIRC2, IRAK4, IKBKG, AKT3
KEGG	hsa04621	NOD-like receptor signaling pathway	36	173	0.41	1.89E-05	NAMPT, CCL2, NFKB1, TRAF2, TANK, PLCB2, IL1B, IFNAR1, IL18, CXCL3, FADD, ITPR1, RNF31, STAT2, CASP8, NEK7, TAB2, GBP4, GBP2, GBP1, XIAP, TLR4, BCL2L1, SUGT1, ATG16L1, CXCL1, IL6, MAPK9, TNF, MAVS, ERBIN, CASP1, CCL5, BIRC2, IRAK4, IKBKG
KEGG	hsa05169	Epstein-Barr virus infection	38	192	0.39	2.74E-05	BLNK, NFKB1, EIF2AK2, TRAF2, FCER2, ICAM1, TP53, IFNAR1, NFKBIE, BAX, PDIA3, FADD, CXCL10, CASP3, STAT2, BID, CASP9, ITGAL, CASP8, TAB2, IRAK1, CD40, HLA-E, DDX58, AKT2, BCL2L1, CDKN1A, IL6, MAPK9, TNF, MAVS, LYN, MAP2K6, IRAK4, IKBKG, B2M, FAS, AKT3
KEGG	hsa05212	Pancreatic cancer	21	71	0.56	2.74E-05	TGFB1, NFKB1, SMAD2, EGF, TP53, ERBB2, RALB, EGFR, ARAF, BAX, MAP2K1, CASP9, SMAD3, TGFB2, BCL2L1, AKT2, CDKN1A, MAPK9, TGFA, IKBKG, AKT3
KEGG	hsa04014	Ras signaling pathway	42	225	0.36	3.01E-05	HGF, NFKB1, FGF23, RRAS, FLT4, KDR, FGF2, EGF, RALB, EGFR, NTRK2, CSF1R, FGF19, ARF6, MAP2K1, VEGFB, ANGPT2, PDGFB, PDGFA, PLA2G4A, ABL1, STK4, BCL2L1, TEK, AKT2, PLA2G2A, PLA2G10, MAPK9, FGF16, BRAP, TGFA, FGF2, BDNF, EFNA4, PDGFC, ANGPT1, PGF, PAK4, FLT3LG, VEGFC, IKBKG, AKT3
KEGG	hsa04810	Regulation of actin cytoskeleton	40	209	0.37	3.01E-05	MYH9, FGF23, RRAS, PIKFYVE, FGF2, EGF, IQGAP2, EGFR, ARAF, ITGA5, FGF19, ITGA2, MAP2K1, F2, BAIAP2, F2R, PDGFB, FGD3, ARHGEF1, EZR, PPP1CC, CRKL, PDGFA, FN1, ITGAL, ENAH, VAV3, SRC, WASF1, GIT1, ARHGEF12, ITGB2, ITGA6, PPP1R12A, FGF16, FGF2, PDGFC, BRK1, PAK4, ITGAM
KEGG	hsa05160	Hepatitis C	33	157	0.41	3.64E-05	TNFRSF1A, NFKB1, IFNG, EIF2AK2, TRAF2, SCARB1, EGF, TP53, IFNAR1, EGFR, ARAF, BAX, TLR3, FADD, MAP2K1, CXCL10, EIF2AK3, CASP3, STAT2, BID, CASP9, OCLN, CASP8, DDX58, YWHAQ, AKT2, CDKN1A, TNF, MAVS, LDLR, IKBKG, FAS, AKT3
KEGG	hsa05416	Viral myocarditis	18	55	0.6	3.79E-05	CD80, ICAM1, CXADR, CASP3, BID, CD28, CASP9, ITGAL, CASP8, DMD, CD40LG, CD40, ABL1, HLA-E, ITGB2, EIF4G3, EIF4G1, DAG1
KEGG	hsa04512	ECM-receptor interaction	23	88	0.51	4.82E-05	COMP, LAMB1, LAMA4, TNN, VWF, ITGA5, COL6A3, ITGA2, GP6, THBS4, FN1, THBS2, SV2A, SDC4, COL9A2, HSPG2, AGRN, COL2A1, GP1BB, GP5, ITGA6, CD36, DAG1
KEGG	hsa05163	Human cytomegalovirus infection	40	217	0.36	5.93E-05	TNFRSF1A, CCL2, NFKB1, PPP3R1, TRAF2, PLCB2, IL1B, TP53, EGFR, IL10RB, BAX, PDIA3, NFATC3, FADD, MAP2K1, ITPR1, CASP3, BID, CASP9, ARHGEF1, CRKL, CASP8, IL6R, GNAS, SRC, HLA-E, AKT2, ARHGEF12, CDKN1A, IL6, NFATC1, TNF, MAP2K6, CCL5, CCL3, CCL4, IKBKG, B2M, FAS, AKT3
KEGG	hsa01524	Platinum drug resistance	20	70	0.55	6.03E-05	GSTA3, TOP2B, TP53, ERBB2, GSTT2B, BAX, FADD, CASP3, BID, CASP9, GSTA1, CASP8, MAP3K5, XIAP, BCL2L1, AKT2, CDKN1A, BIRC2, FAS, AKT3
KEGG	hsa04217	Necroptosis	31	147	0.41	6.03E-05	TNFRSF1A, TNFRSF10A, IFNG, EIF2AK2, VPS4B, TNFSF10, TRAF2, IL1B, IFNAR1, TNFRSF10B, AIFM1, BAX, STAT5B, TLR3, FADD, RNF31, STAT2, CHMP6, BID, CASP8, PARP1, PLA2G4A, ZBP1, XIAP, TLR4, CHMP1A, MAPK9, TNF, CASP1, BIRC2, FAS
KEGG	hsa04145	Phagosome	30	141	0.42	6.95E-05	CORO1A, COMP, MPO, C3, SCARB1, PIKFYVE, ITGA5, ITGA2, ATP6V1G2, MARCO, HGS, LAMP1, THBS4, CTSL, FCAR, DYNC1H1, FCGR2B, THBS2, STX7, CTSS, TLR4, ATP6V1G1, HLA-E, ITGB2, COLEC12, MSR1, CD36, C1R, MRC1, ITGAM
KEGG	hsa05143	African trypanosomiasis	14	36	0.68	7.70E-05	IFNG, LAMA4, IL12B, PLCB2, IL1B, ICAM1, IL18, THOP1, APOL1, SELE, IL6, TNF, IDO1, FAS
KEGG	hsa04660	T cell receptor signaling pathway	24	100	0.47	9.28E-05	CD4, NFKB1, IFNG, NCK2, PPP3R1, PRKCK, NFKBIE, CSF2, NFATC3, MAP2K1, CD28, GRAP2, VAV3, CD40LG, AKT2, CD8A, NFATC1, PTPN6, MAPK9, TNF, PTPRC, PAK4, IKBKG, AKT3
KEGG	hsa04611	Platelet activation	27	122	0.44	9.74E-05	VASP, SNAP23, PLCB2, VWF, VAMP8, ITGA2, NOS3, COL3A1, ITPR1, F2, GP6, F2R, ARHGEF1, PPP1CC, PLA2G4A, GNAS, SRC, PRKG1, APBB1IP, AKT2, ARHGEF12, GP1BB, GP5, PPP1R12A, LYN, FGA, AKT3
KEGG	hsa04625	C-type lectin receptor signaling pathway	24	101	0.47	0.0001	CCL22, CCL17, NFKB1, IL12B, PPP3R1, RRAS, IL1B, CLEC1B, NFATC3, ITPR1, STAT2, CASP8, MAPKAPK2, SRC, LSP1, AKT2, ARHGEF12, IL6, NFATC1, MAPK9, TNF, CASP1, IKBKG, AKT3
KEGG	hsa04932	Non-alcoholic fatty liver disease	30	146	0.4	0.00011	TNFRSF1A, NDUFB7, TGFB1, NFKB1, TRAF2, COX5B, IL1B, NDUFS6, BAX, EIF2AK3, CASP3, LEP, BID, CASP8, MAP3K5, IL6R, CASP7, SDHB, AKT2, BCL2L1, IL6, MAPK9, TNF, ERN1, NDUFA5, CEBPA, PRKAB1, COX6B1, FAS, AKT3

KEGG	hsa05134	Legionellosis	17	55	0.58	0.00011	NFKB1, IL12B, C3, IL1B, IL18, CXCL3, CASP3, CASP9, CASP8, CASP7, TLR4, CXCL1, ITGB2, IL6, TNF, CASP1, ITGAM
KEGG	hsa05166	Human T-cell leukemia virus 1 infection	38	210	0.35	0.00012	CD4, TNFRSF1A, TGFB1, NFKB1, PPP3R1, MMP7, SMAD2, ICAM1, TP53, TNFRSF13C, BAX, STAT5B, CSF2, NFATC3, MAP2K1, IL1R2, SMAD3, ITGAL, TGFBR2, XIAP, PTEN, CD40, CDC26, BCL2L1, HLA-E, AKT2, ITGB2, CDKN1A, MAD1L1, IL6, NFATC1, MAPK9, TNF, LTA, CDC27, IKKKG, B2M, AKT3
KEGG	hsa05210	Colorectal cancer	21	82	0.5	0.00012	TGFB1, EREG, SMAD2, AXIN1, EGF, TP53, RALB, EGFR, ARAF, BAX, MAP2K1, CASP3, CASP9, SMAD3, TGFBR2, AKT2, BCL2L1, CDKN1A, MAPK9, TGFA, AKT3
KEGG	hsa04650	Natural killer cell mediated cytotoxicity	26	120	0.43	0.00017	TNFRSF10A, IFNG, PPP3R1, KLRK1, TNFSF10, HCST, ICAM1, IFNAR1, TNFRSF10B, ARAF, CSF2, MAP2K1, CASP3, BID, KLRD1, ITGAL, CD244, VAV3, SH2D1A, HLA-E, ITGB2, NFATC1, PTPN6, TNF, CD48, FAS
KEGG	hsa05218	Melanoma	19	72	0.51	0.00021	HGF, FGF23, CDH1, FGF2, EGF, TP53, EGFR, ARAF, BAX, FGF19, MAP2K1, PDGFB, PDGFA, PTEN, AKT2, CDKN1A, FGF16, PDGFC, AKT3
KEGG	hsa05170	Human immunodeficiency virus 1 infection	36	203	0.34	0.00026	CD4, TNFRSF1A, NFKB1, PPP3R1, TRAF2, BST2, ELOB, BAX, PDIA3, NFATC3, FADD, MAP2K1, ITPR1, CASP3, AP1G2, BID, CASP9, CRKL, CASP8, TAB2, IRAK1, TLR4, BCL2L1, HLA-E, TRIM5, AKT2, NFATC1, MAPK9, TNF, MAP2K6, PAK4, IRAK4, IKKKG, B2M, FAS, AKT3
KEGG	hsa04012	ErbB signaling pathway	20	81	0.48	0.00028	HBEGF, NCK2, EREG, EGF, ERBB3, ERBB2, EGFR, ARAF, STAT5B, MAP2K1, CRKL, ABL1, SRC, AKT2, BTC, CDKN1A, MAPK9, TGFA, PAK4, AKT3
KEGG	hsa05131	Shigellosis	37	218	0.32	0.00045	TNFRSF1A, NFKB1, C3, TRAF2, PLCB2, PRKCQ, IL1B, TP53, EGFR, IL18, BAX, ITGA5, CSF2, ARF6, ITPR1, RNF31, TNIP1, HCLS1, FOXO3, CRKL, BECN1, TAB2, SRC, TLR4, BCL2L1, FOXO1, AKT1S1, ATG16L1, AKT2, WASF1, SEPTIN9, MAPK9, TNF, CASP1, CCL5, IKKKG, AKT3
KEGG	hsa05222	Small cell lung cancer	21	92	0.45	0.00047	LAMB1, NFKB1, LAMA4, TRAF2, TP53, BAX, ITGA2, CASP3, CASP9, FN1, MAX, XIAP, PTEN, BCL2L1, AKT2, CDKN1A, ITGA6, FHIT, BIRC2, IKKKG, AKT3
KEGG	hsa05120	Epithelial cell signaling in Helicobacter pylori infection	17	65	0.51	0.00052	NFKB1, HBEGF, EGFR, CXCL3, JAM3, ATP6V1G2, CASP3, F11R, SRC, ATP6V1G1, GIT1, CXCL1, JAM2, MAPK9, LYN, CCL5, IKKKG
KEGG	hsa05219	Bladder cancer	13	40	0.6	0.00055	HBEGF, CDH1, EGF, TP53, ERBB2, EGFR, ARAF, MAP2K1, MMP1, SRC, TYMP, CDKN1A, DAPK2
KEGG	hsa04144	Endocytosis	39	241	0.3	0.00067	VPS4B, WASHC3, CLTA, SMAD2, RAB11FIP3, RAB10, EGFR, ARF6, DAB2, CHMP6, VPS37A, EHD3, HGS, SMAD3, RNF41, DNM3, IGF2R, TGFBR2, DNAJC6, DNM1, SRC, LDLRAP1, PARD3, HLA-E, VPS28, STAM, SNX5, SNX2, GRK5, STAMBP, GIT1, USP8, CHMP1A, FGFR2, SPART, IST1, RABEP1, LDLR, AP2B1
KEGG	hsa04979	Cholesterol metabolism	14	48	0.55	0.00077	APOB, APOE, SORT1, SCARB1, LCAT, PCSK9, LPA, APOA4, ANGPTL3, LDLRAP1, CD36, NPC2, LDLR, LRPAP1
KEGG	hsa04920	Adipocytokine signaling pathway	17	68	0.49	0.00079	TNFRSF1A, NFKB1, TRAF2, PRKCQ, NFKBIE, AGRP, LEP, STK11, AKT2, POMC, NPY, MAPK9, TNF, CD36, PRKAB1, IKKKG, AKT3
KEGG	hsa05223	Non-small cell lung cancer	17	68	0.49	0.00079	HGF, EGF, TP53, ERBB2, EGFR, ARAF, BAX, STAT5B, MAP2K1, CASP9, FOXO3, STK4, AKT2, CDKN1A, TGFA, FHIT, AKT3
KEGG	hsa05215	Prostate cancer	21	97	0.43	0.00081	PLAT, NFKB1, EGF, TP53, ERBB2, EGFR, ARAF, MAP2K1, CASP9, PDGFB, IL1R2, PDGFA, PTEN, FOXO1, AKT2, CDKN1A, TGFA, FGFR2, PDGFC, IKKKG, AKT3
KEGG	hsa04520	Adherens junction	17	69	0.48	0.00088	CDH1, ERBB2, EGFR, BAIAP2, SMAD3, PTPRB, WASF3, TGFBR2, SORBS1, PTPN1, SRC, PARD3, WAS, WASF1, PTPN6, YES1, PTPRM
KEGG	hsa04130	SNARE interactions in vesicular	11	32	0.63	0.0011	SNAP29, SNAP23, STX6, VAMP8, STX5, STX8, VAMP5, STX4, STX7, STX16, VT11A
KEGG	hsa04974	Protein digestion and absorption	21	100	0.41	0.0011	CPA1, CPB2, CPA2, MEP1A, MEP1B, CELA3A, COL6A3, COL3A1, ELN, COL18A1, DPP4, CTRB1, COL5A1, COL9A2, COL15A1, COL2A1, PRCP, COL28A1, ACE2, CPB1, MME
KEGG	hsa05150	Staphylococcus aureus infection	19	86	0.43	0.0012	C5, SELPLG, C3, SELP, ICAM1, C2, PLG, FCAR, ITGAL, FCGR2B, CFH, KRT18, CFI, ITGB2, C1S, CFB, C1R, CFD, ITGAM
KEGG	hsa04115	p53 signaling pathway	17	72	0.46	0.0013	TNFRSF10A, SERPINE1, TP53I3, RRM2B, TP53, TNFRSF10B, BAX, CASP3, BID, CASP9, CASP8, RRM2, PTEN, BCL2L1, IGFBP3, CDKN1A, FAS
KEGG	hsa05165	Human papillomavirus infection	47	324	0.25	0.0013	TNFRSF1A, COMP, LAMB1, NFKB1, LAMA4, EIF2AK2, TNF, VWF, PPP2R5A, AXIN1, SLC9A3R1, EGF, TP53, IFNAR1, EGFR, BAX, ITGA5, COL6A3, ITGA2, TLR3, FADD, ATP6V1G2, MAP2K1, TADA3, CASP3, STAT2, THBS4, FN1, SCRIB, CASP8, THBS2, GNAS, PTEN, COL9A2, ATP6V1G1, PARD3, HLA-E, NFX1, FOXO1, COL2A1, AKT2, CDKN1A, ITGA6, TNF, IKKKG, FAS, AKT3
KEGG	hsa05213	Endometrial cancer	15	58	0.5	0.0013	CDH1, AXIN1, EGF, TP53, ERBB2, EGFR, ARAF, BAX, MAP2K1, CASP9, FOXO3, PTEN, AKT2, CDKN1A, AKT3

KEGG	hsa05235	PD-L1 expression and PD-1 checkpoint pathway in cancer	19	87	0.43	0.0013	CD4, NFKB1, IFNG, PPP3R1, PRKCQ, EGF, NFKBIE, EGFR, NFATC3, MAP2K1, CD28, PTEN, TLR4, AKT2, NFATC1, PTPN6, MAP2K6, IKBK, AKT3
KEGG	hsa05220	Chronic myeloid leukemia	17	75	0.45	0.0018	TGFB1, NFKB1, TP53, ARAF, BAX, STAT5B, MAP2K1, BCR, SMAD3, CRKL, TGFB2, ABL1, BCL2L1, AKT2, CDKN1A, IKBK, AKT3
KEGG	hsa00240	Pyrimidine metabolism	14	55	0.5	0.0021	NT5C1A, NT5C, RRM2B, NT5E, DTYMK, CANT1, UPB1, DCTD, RRM2, CDA, NUDT2, DUT, TYMP, NT5C3A
KEGG	hsa04140	Autophagy - animal	24	131	0.35	0.0022	SNAP29, CTSD, RRAS, TANK, PRKCQ, VAMP8, MAP2K1, ITPR1, EIF2AK3, STK11, LAMP1, CTSL, BECN1, PTEN, IGBP1, BCL2L1, AKT151, ATG16L1, AKT2, MAPK9, ERN1, PRAP1, DAPK2, AKT3
KEGG	hsa04218	Cellular senescence	26	150	0.33	0.0027	TGFB1, SERPINE1, NFKB1, PPP3R1, RRAS, SMAD2, NBN, TP53, NFATC3, MAP2K1, ITPR1, SMAD3, FOXO3, PPP1CC, TGFB2, MAPKAPK2, PTEN, HLA-E, FOXO1, IGFBP3, AKT2, CDKN1A, IL6, NFATC1, MAP2K6, AKT3
KEGG	hsa04612	Antigen processing and presentation	15	64	0.46	0.0027	CD74, CD4, IFNG, PDIA3, KLRD1, CTSL, NFYA, CTSS, HLA-E, PSME1, LGMN, IFI30, CD8A, TNF, B2M
KEGG	hsa05340	Primary immunodeficiency	11	37	0.56	0.0027	CD4, BLNK, UNG, TNFRSF13B, TNFRSF13C, CD40LG, CD40, ADA, CD8A, PTPRC, IKBK
KEGG	hsa00480	Glutathione metabolism	13	52	0.49	0.0036	GSTA3, GSR, LAP3, GGT1, RRM2B, GGCT, GSTT2B, HPGDS, CHAC2, GSTA1, RRM2, SMS, OPLAH
KEGG	hsa05321	Inflammatory bowel disease	14	59	0.47	0.0036	TGFB1, NFKB1, IFNG, IL12B, SMAD2, IL1B, IL18, SMAD3, TLR4, IL6, IL18R1, NFATC1, TNF, IL12RB1
KEGG	hsa05226	Gastric cancer	25	146	0.32	0.0038	CDH17, TGFB1, HGF, FGF23, CDH1, SMAD2, AXIN1, FGF2, EGF, TP53, ERBB2, EGFR, ARAF, BAX, FGF19, SHH, MAP2K1, SMAD3, TGFB2, AKT2, CDKN1A, EGF16, FGF2, MUC2, AKT3
KEGG	hsa04659	Th17 cell differentiation	19	99	0.37	0.0046	CD4, TGFB1, NFKB1, IFNG, PPP3R1, SMAD2, PRKCQ, IL1B, NFKBIE, STAT5B, NFATC3, SMAD3, TGFB2, IL6R, IL6, NFATC1, MAPK9, IL12RB1, IKBK
KEGG	hsa04622	RIG-I-like receptor signaling pathway	15	69	0.43	0.005	NFKB1, IL12B, TRAF2, TANK, CASP10, FADD, CXCL10, TRIM25, CASP8, DDX58, MAPK9, TNF, MAVS, A2I2, IKBK
KEGG	hsa05202	Transcriptional misregulation in cancer	27	171	0.29	0.0068	PLAT, MPO, NFKB1, FUS, TP53, HHEX, CSF1R, BAX, CSF2, CEBPB, SMAD1, IL1R2, ZBTB16, PDGFA, MAX, TGFB2, FUT8, CD40, BCL2L1, FOXO1, IGFBP3, CDKN1A, IL6, CEBPA, FLI1, BIRC2, ITGAM
KEGG	hsa04141	Protein processing in endoplasmic reticulum	26	163	0.29	0.0071	EIF2AK2, TRAF2, DNAJB1, PREB, ERP29, UFD1, SIL1, AMFR, BAX, UBXN1, PDIA3, EIF2AK3, DNAJA2, YOD1, P4HB, SEL1L, MAN1A2, RAD23B, MAP3K5, RNFS, TXNDC5, SEC31A, MAPK9, ERN1, NSFL1C, PDIA4
KEGG	hsa00790	Folate biosynthesis	8	25	0.6	0.0089	GGH, PTS, QDPR, AKR1B1, ALPI, PCBD1, AKR1B10, MOCS2
KEGG	hsa00051	Fructose and mannose metabolism	9	32	0.54	0.0101	TIGAR, KHK, SORD, PMM2, AKR1B1, MPI, AKR1B10, PFKFB2, FBP1
KEGG	hsa04071	Sphingolipid signaling pathway	20	116	0.33	0.0101	TNFRSF1A, NFKB1, CTSD, TRAF2, PLCB2, PPP2R5A, SPTLC1, TP53, BAX, NOS3, MAP2K1, BID, MAP3K5, PTEN, ASAH1, AKT2, ASAH2, MAPK9, TNF, AKT3
KEGG	hsa04068	FoxO signaling pathway	21	126	0.31	0.0112	TGFB1, TNFSF10, EGF, EGFR, ARAF, MAP2K1, STK11, SMAD3, FOXO3, TGFB2, PTEN, STK4, FOXO1, AKT2, BCL2L1, CDKN2D, CDKN1A, IL6, MAPK9, PRKAB1, AKT3
KEGG	hsa05140	Leishmaniasis	14	69	0.4	0.0114	TGFB1, NFKB1, IFNG, IL12B, C3, IL1B, TAB2, IRAK1, TLR4, ITGB2, PTPN6, TNF, IRAK4, ITGAM
KEGG	hsa04623	Cytosolic DNA-sensing pathway	13	62	0.41	0.0122	NFKB1, IL1B, IL18, CXCL10, ZBP1, DDX58, IL6, POLR2F, MAVS, CASP1, CCL5, CCL4, IKBK
KEGG	hsa05330	Allograft rejection	9	34	0.51	0.0135	IFNG, IL12B, CD80, CD28, CD40LG, CD40, HLA-E, TNF, FAS
KEGG	hsa04975	Fat digestion and absorption	10	41	0.48	0.0136	APOB, SCARB1, SLC27A4, APOA4, PNLI, LIPF, PLA2G2A, PLA2G10, CD36, PNLI, PRP1
KEGG	hsa04722	Neurotrophin signaling pathway	19	112	0.32	0.0137	NFKB1, SORT1, TP53, NFKBIE, NTRK2, BAX, MAP2K1, FOXO3, SH2B3, CRKL, MAP3K5, MAPKAPK2, IRAK1, ABL1, AKT2, MAPK9, BDNF, IRAK4, AKT3
KEGG	hsa04530	Tight junction	24	157	0.27	0.0151	MYH9, VASP, SLC9A3R1, RAPGEF2, ERBB2, CGN, MICALL2, JAM3, HCL1S1, STK11, EZR, OCLN, SCRIB, MAP3K5, F11R, AMOT, TJAP1, SRC, PARD3, WAS, JAM2, MAPK9, AMOT12, PRKAB1
KEGG	hsa05211	Renal cell carcinoma	13	65	0.39	0.0164	TGFB1, HGF, ELOB, ARAF, MAP2K1, PDGFB, CRKL, EGLN1, AKT2, CDKN1A, TGFA, PAK4, AKT3
KEGG	hsa04931	Insulin resistance	18	106	0.32	0.0165	TNFRSF1A, NFKB1, PRKCQ, NOS3, SLC27A4, GYS1, PPP1CC, OGA, PTPN1, PTEN, FOXO1, AKT2, IL6, MAPK9, TNF, CD36, PRKAB1, AKT3
KEGG	hsa04666	Fc gamma R-mediated phagocytosis	16	90	0.34	0.0174	VASP, INPPL1, ARF6, MAP2K1, WASF3, CRKL, FCGR2B, PLA2G4A, VAV3, WAS, AKT2, WASF1, INPP5D, PTPRC, LYN, AKT3
KEGG	hsa05332	Graft-versus-host disease	9	36	0.49	0.0174	IFNG, IL1B, CD80, CD28, KLRD1, HLA-E, IL6, TNF, FAS
KEGG	hsa00983	Drug metabolism - other enzymes	14	74	0.37	0.0178	GSTA3, MPO, RRM2B, GSTT2B, GUSB, UPB1, GSTA1, CES1, RRM2, CDA, ITPA, DUT, TYMP, CES2

KEGG	hsa04614	Renin-angiotensin system	7	23	0.57	0.0178	REN, ACE, THOP1, PRCP, ACE2, MME, ATP6AP2
KEGG	hsa05221	Acute myeloid leukemia	13	67	0.38	0.0193	MPO, NFKB1, CSF1R, ARAF, STAT5B, CSF2, MAP2K1, ZBTB16, AKT2, CEBPA, IKKKG, ITGAM, AKT3
KEGG	hsa04977	Vitamin digestion and absorption	7	24	0.55	0.0211	TCN2, APOB, CBLIF, SCARB1, APOA4, PNLP, BTD
KEGG	hsa04940	Type I diabetes mellitus	9	38	0.46	0.0222	IFNG, IL12B, IL1B, CD80, CD28, HLA-E, TNF, LTA, FAS
KEGG	hsa00531	Glycosaminoglycan degradation	6	19	0.59	0.0267	IDUA, ARSB, GUSB, GLB1, SGSH, HPSE
KEGG	hsa05214	Glioma	13	71	0.35	0.0281	EGF, TP53, EGFR, ARAF, BAX, MAP2K1, PDGFB, PDGFA, PTEN, AKT2, CDKN1A, TGFA, AKT3
KEGG	hsa04270	Vascular smooth muscle contraction	20	132	0.27	0.029	MYH9, PLCB2, PRKCO, ARAF, PPP1R14A, MAP2K1, ITPR1, CALCA, ARHGEP1, PPP1CC, PLA2G4A, GNAS, PRKG1, EDN1, ARHGEP12, PLA2G2A, NPPC, PPP1R12A, PLA2G10, ADM
KEGG	hsa00760	Nicotinate and nicotinamide	8	33	0.47	0.0292	NAMPT, CD38, NT5C1A, NT5C, SIRT2, NT5E, NMNAT1, SIRT5
KEGG	hsa04972	Pancreatic secretion	16	97	0.31	0.0292	CPA1, SCT, CPB2, CPA2, CD38, PLCB2, RAB27B, CELA3A, ITPR1, CTRB1, PNLP, GNAS, PLA2G2A, PLA2G10, CPB1, PNLP, PRP1
KEGG	hsa04137	Mitophagy - animal	12	64	0.36	0.0303	FIS1, RRAS, TP53, EIF2AK3, FOXO3, BECN1, SRC, BCL2L1, BNIP3L, TAX1BP1, USP8, MAPK9
KEGG	hsa04370	VEGF signaling pathway	11	56	0.38	0.0303	PPP3R1, HSPB1, KDR, NOS3, MAP2K1, CASP9, MAPKAPK2, PLA2G4A, SRC, AKT2, AKT3
KEGG	hsa00770	Pantothenate and CoA biosynthesis	6	20	0.57	0.0307	ALDH2, VNN2, UPB1, PPCDC, VNN1, BCAT1
KEGG	hsa04926	Relaxin signaling pathway	19	126	0.27	0.034	TGFB1, NFKB1, PLCB2, SMAD2, EGFR, NOS3, MAP2K1, INSL5, COL3A1, VEGFB, MMP1, TGFB2, GNAS, SRC, EDN1, AKT2, MAPK9, VEGFC, AKT3
KEGG	hsa00230	Purine metabolism	19	127	0.27	0.0362	NT5C1A, NT5C, RRM2B, NT5E, GMPR, CANT1, PDE5A, ENTPD2, RRM2, ADA, APRT, NUDT2, ITPA, ADA2, FHIT, NUDT5, NUDT16, NT5C3A, AK2
KEGG	hsa00340	Histidine metabolism	6	21	0.55	0.0362	ALDH2, HNMT, CNDP1, FTCD, AOC1, ALDH3A1
KEGG	hsa04672	Intestinal immune network for IgA	9	43	0.41	0.0388	TGFB1, TNFRSF13B, CD80, TNFRSF13C, CD28, CD40LG, CD40, CCL25, IL6
KEGG	hsa04360	Axon guidance	24	176	0.22	0.041	SEMA3F, SEMA3G, NCK2, PPP3R1, RRAS, SEMA7A, EPHA1, SHH, NFATC3, FES, PLXNB2, PLXNA4, ENAH, ABL1, SRC, PARD3, ARHGEP12, EFNA4, SEMA4D, ROBO2, ROBO1, SLIT2, PLXNB3, PAK4
KEGG	hsa04658	Th1 and Th2 cell differentiation	14	85	0.31	0.0419	CD4, NFKB1, IFNG, IL12B, PPP3R1, DLL4, PRKCO, NFKBIE, STAT5B, NFATC3, NFATC1, MAPK9, IL12RB1, IKKKG
KEGG	hsa05206	MicroRNAs in cancer	22	159	0.23	0.0452	NFKB1, TNN, TIMP3, ERBB3, TP53, ERBB2, EGFR, ITGA5, MAP2K1, CASP3, PDGFB, EZR, CRKL, PDGFA, PTEN, ABL1, HNRNP, SPRY2, BCL2L1, CDKN1A, EFNA4, PAK4
KEGG	hsa05231	Choline metabolism in cancer	15	95	0.29	0.0456	EGF, EGFR, MAP2K1, PDGFB, WASF3, PDGFA, PLA2G4A, WAS, AKT2, WASF1, DGKA, MAPK9, DGKZ, PDGFC, AKT3
KEGG	hsa05100	Bacterial invasion of epithelial cells	12	70	0.32	0.0492	CLTA, CDH1, ITGA5, HCLS1, CRKL, FN1, DNM3, CD2AP, DNM1, SRC, WASF1, SEPTIN9
KEGG	hsa05225	Hepatocellular carcinoma	22	161	0.23	0.0496	GSTA3, TGFB1, HGF, SMAD2, AXIN1, TP53, EGFR, ARAF, GSTT2B, BAX, MAP2K1, SMAD3, GSTA1, TGFB2, PTEN, BCL2L1, SMARCA2, AKT2, CDKN1A, TGFA, TXNRD1, AKT3

Reactome	HSA-168256	Immune System	370	1979	0.36	6.22E-44	CD74, CD4, GRN, CD22, KIF22, TNFRSF1A, BPIFB2, CPB2, LAG3, SNAP29, MIF, OSM, ARSA, MYH9, CTSZ, LBP, TIMP1, GLA, OLFM4, CCL22, CTSH, PAG1, DCTN6, TGFB1, HGF, PDAP1, CS, BLNK, MPO, CSF3, CCL2, NFKB1, CTSC, IFNG, KLRB1, IL12B, EIF2AK2, APOB, PPP3R1, CTSB, TTR, KLRK1, CLTA, ADGRE5, C4BPB, C3, VASP, HCST, CFP, TRAF2, LIF, SNAP23, BST2, TRIM21, EDAR, TANK, IL1RN, ORM1, GGH, PPP2R5A, TNFRSF13B, BLMH, CDH1, ELOB, ERP44, SLA2, A1BG, PRKCQ, IL1B, COMMD9, IL7, VAMP8, FCER2, CD80, IL1RL2, FGF2, RAB10, ICAM1, ARSB, SRP14, TP53, IFNAR1, IL22RA1, S100A11, AHSB, IQGAP2, NFKBIE, CTF1, IL18, LY96, CXADR, APP, CASP10, CSF1R, UBE2L6, IL10RB, TNFRSF13C, CSTB, FCN2, PGLYRP2, STAT5B, PPBP, S100P, TLR3, CSF2, FABP5, NOS3, INPPL1, C2, PDIA3, NFATC3, LAIR2, FADD, RNASE6, ATP6V1G2, CCL11, MAP2K1, GUSB, IL16, COL3A1, THOP1, CXCL10, ITPR1, GLB1, CANT1, F2, CCL19, CTSF, CASP3, CD200R1, CASP2, CD46, CLU, STAT2, LILRB1, BAIAP2, STX4, SIGLEC8, TALDO1, MMP1, SIGLEC7, TRIM25, CD28, TNFRSF12A, CLEC4G, P4HB, IFNLR1, IL3RA, CD300C, MCEMP1, CASP9, GRAP2, FOXO3, PIK3AP1, LBR, EIF4EBP1, PTN, PPP1CC, SPINT1, RNF41, APOD, SH2B3, CRKL, PDGFA, FN1, PDE5A, DNM3, GFRA1, OPHN1, RSPO1, RSPO3, SCRIB, CASP8, STIP1, CCL20, WWP2, PTPRF, NRP2, CCL28, CXCL9, CDC42BPB, ACTN2, DLL1, PARP1, MAPKAPK2, TAB2, PLA2G4A, NCF2, F11R, IL6R, GOPC, RGS10, MYO6, IRAK1, VAV3, XIAP, JUN, PTPN1, PTEN, MMP9, ABL1, STK4, DNM1, SRC, DKK1, PRKG1, ATP6V1G1, PARD3, BAMB1, MAGED1, COL4A1, BCL2L1, APBB1P, WAS, ANXA1, GPC5, SPRY2, STAM, CCL7, EDN1, FOXO1, IL2RA, TEK, COL2A1, CD274, CAMKK1, YWHAQ, FGF9, PSME1, ACVRL1, AKT1S1, PPP1R12B, AKT2, WASF1, PRKAR1A, GRK5, BCL2L11, DBN1, FABP6, DGKA, ARL13B, GIT1, PSAP, SPP1, DAAM1, LAT, BTC, CXCL1, CXCL12, TAX1BP1, USP8, ARHGEF12, BCL2, CDKN1A, MAD1L1, MDK, IL6, POLR2F, ARHGAP25, EIF4B, MLN, PPP1R12A, NFATC1, PTPN6, TNF, PENK, TIA1, BRAP, TGFA, GDNF, FGFR2, DGKZ, SEPTIN7, MST1, BDNF, EIF4G1, NDUFA5, ATP6V1F, NSFL1C, HGFAC, PDGFC, AMOTL2, EIF4E, ERBIN, ANGPT1, LYN, TFF3, ARHGEF10, BRK1, PTPRK, CALC1, TOR1AIP1, ADM, LATS1, ARHGAP45, PSM1D9, PRKAB1, SMAD5, FKBP5, NUMB, YES1, OTUD7B, APOC1, PAK4, MYO9B, CCL5, HMOX2, BIRC2, CCL3, CCL16, YAP1, IRAK4, VEGFC, CCL23, NEFL, CGA, CCL4, AP2B1, IKBKG, TBL1X, KITLG, IGF1R, DLG4, FGA, AKT3, DEFB116, HPSE, CDKN1A, IFI30, C1S, CD14, IL6, POLR2F, NFATC1, PTPN6, PILRB, MAPK9, CD70, SFTPA1, TNF, NAPRT, MAVS, PVR, TREML1, LILRA5, GPI, LILRB5, LAMP2, CRACR2A, SIGLEC9, CTSO, ICAM2, CD36, SERPINA1, EIF4G1, CFB, ATP6V1F, DBNL, TREML2, DAPP1, EIF4E, LYN, ATOX1, BRK1, CASP1.
Reactome	HSA-168249	Innate Immune System	202	1041	0.38	1.29E-23	CD4, GRN, BPIFB2, CPB2, SNAP29, MIF, ARSA, MYH9, CTSZ, LBP, GLA, OLFM4, CTSH, PDAP1, CS, MPO, NFKB1, CTSC, APOB, PPP3R1, CTSB, TTR, KLRK1, ADGRE5, C4BPB, C3, CFP, TRAF2, SNAP23, BST2, TRIM21, TANK, ORM1, GGH, ERP44, A1BG, PRKCQ, IL1B, COMMD9, VAMP8, RAB10, ARSB, SRP14, TP53, S100A11, AHSB, IQGAP2, LY96, APP, CASP10, UBE2L6, CSTB, FCN2, PGLYRP2, PPBP, S100P, TLR3, FABP5, NOS3, C2, NFATC3, FADD, RNASE6, ATP6V1G2, MAP2K1, GUSB, ITPR1, GLB1, CANT1, F2, CASP2, CD46, CLU, BAIAP2, TRIM25, MCEMP1, CASP9, LAMP1, ACAA1, PTPRB, WASF3, KLRD1, GRAP2, NFASC, PTGES2, CTSL, ANXA2, LRMP, DNM3, FCAR, CLEC12A, DYNCH1H1, ITGAL, IGF2R, CEACAM3, CASP8, PCBP2, CD300A, TLR1, CR1, CR2, DYNLT1, MAPKAPK2, CFH, TAB2, VNN1, CTSS, IRAK1, VAV3, CREG1, ZBP1, C8B, DPP7, FCN1, ABL1, DNM1, SRC, TLR4, FGR, ATP6V1G1, FUCA1, CDA, BCL2L1, HLA-E, WAS, SUGT1, APRT, NHLRC3, B4GALT1, TXNDC5, DDX58, SERPINB1, ASAH1, CPPED1, PSME1, LAIR1, LRRFIP1, WASF1, RAB37, CD300E, LGMN, PRCP, NIT2, PROS1, CFI, PSAP, LAT, CXCL1, TAX1BP1, ITGB2, CST3, LAT2, ADA2, PLA2 CCL3, TNFRSF9, IRAK4, CCL4, IKBKG, B2M, IL19, AKT34, WASF1, PRKAR1A, BCL2L11, SRPK2, FDX2, SEC31A, BTC, GNE, CHMP1A, GP1BB, GP5, ACY1, CDKN1A, F11, CD14, IL6, POLR2F, PTPN6, ELOA, SFTPA1, RANBP1, MAVS, BRAP, TGFA, FGFR2, CD36, XRCC4, ERBIN, ST3GALL1, LYN, BRK1, CASP1, TXNRD1, CDC27, PSM1D, SLC16A1, DAG1, SOD2, MRC1, DPEP2, SPO

Reactome	HSA-109582	Hemostasis	140	607	0.45	1.31E-21	CD74, KIF22, SERPIND1, MIF, F9, TIMP1, PLAT, TNFRSF10A, TGFBI, HGF, SERPINE1, C1QBP, SELPLG, SPARC, HRG, TFPI, APOB, PROC, F12, ORM1, VWF, PPP2R5A, RAB27B, RCOR1, LGALS3BP, A1BG, PRKQC, SELP, KLKB1, MGLL, EGF, PRKAR2A, ITIH4, TIMP3, TP53, AHSB, DOK2, TNFRSF10B, CXADR, APP, CD109, ITGA5, PPBP, PF4, CLEC3B, ITGA2, NOS3, CLEC1B, JAM3, GTPBP2, ITPR1, F2, GP6, PLG, VEGFB, CD84, ANGPT2, CLU, FCAMR, STX4, KIF1C, F2R, SERPINF2, MMP1, EHD3, PDGFB, SERPINB8, SELE, SERPINA5, SH2B3, ANXA2, PDGFA, FN1, PDE5A, ITGAL, CEACAM3, LEFTY2, TGFBI, F13B, PLA2G4A, F11R, CD244, ECM1, CD2, STXBP3, VAV3, GNAS, PTPN1, ABL1, SDC4, SYTL4, SRC, PRKG1, FGR, PAFAH2, F10, F7, APBB1IP, TEK, PRKAR1A, PRCP, DGKA, PROS1, PSAP, LAT, ITGB2, JAM2, GP1BB, GP5, F11, TF, ITGA6, PTPN6, INPP5D, LAMP2, DGKZ, CD36, SERPINE2, PHACTR2, RARRES2, SELENOP, ANGPT1, LYN, NFE2, SLC16A1, PCDH7, CD63, SERPINA4, PECAM1, YES1, CFD, VEGFC, CD99L2, SERPINB6, CD48, THPO, ITGAM, MP1G6B, FGA, MANF
Reactome	HSA-162582	Signal Transduction	346	2540	0.22	1.28E-17	FKBP4, RTN4R, TNFRSF1A, FSTL3, SCT, GOLGA3, MYH9, OXT, TXNL1, CCL22, CCL17, PAG1, SFRP1, PLAT, DKK4, TNFRSF10A, TGFBI, PLIN3, CDC37, HGF, LAMB1, SERPINE1, C5, C1QBP, CCL2, CCL13, CXCL6, NFKB1, LAMA4, HBEGF, SPARC, NCK2, DOK1, PPP3R1, CTSB, FGF23, TNFSF10, CLTA, ADGRE5, EREG, PSPN, C3, TRAF2, HSPB1, SNAP23, DLL4, APOE, EPO, DNAJB1, TSHB, FST, GRP, CCL21, CCL27, FGF2, MMP7, PLCB2, VWF, PPP2R5A, CDH1, CILP, FLT4, SMAD2, RCOR1, AXIN1, PRKCC, CLASP1, KDR, FCER2, CD80, FAM13A, RAPGEF2, FGF2, MGLL, EGF, PRKAR2A, ERBB3, PXN, TP53, ERBB2, CGN, RALB, LRIG1, IQGAP2, CRHBP, EGFR, TNFRSF10B, NTRK2, APP, RHOC, CASP10, CXCL13, BAG4, ARAF, PKN3, BAX, STAT5B, ITGA5, CXCL16, STX5, FGF19, COL6A3, CXCL3, CXCL5, PPBP, PF4, ITGA2, CSF2, FABP5, SHH, NOS3, ALDH1A1, ARF6, PLIN1, AXL, PPP1R14A, SPINT2, SOST, FADD, LTBP3, ATP6V1G2, CCL11, MAP2K1, NRTN, INSL5, FNTA, BCR, COL3A1, CXCL10, LETM1, SMAD1, ITPR1, GPR37, CXCL11, F2, CCL19, PLG, ARHGAP1, CASP3, VEGFB, ADGRE1, LEP, CASP2, RNF31, SWAP70, DNMBP, BAIAP2, NUDC, ADGRE2, F2R, STK11, CCL3, TNFRSF9, IRAK4, CCL4, IKBK, B2M, IL19, AKT34, WASF1, PRKAR1A, BCL2L11, SRPK2, FOX2, SEC31A, BTC, GNE, CHMP1A, GP1BB, GP5, ACY1, CDKN1A, F11, CD14, IL6, POLR2F, PTPN6, ELOA, SFTPA1, RANBP1, MAVS, BRAP, TGFA, FGFR2, CD36, XRCC4, ERBIN, ST3GAL1, LYN, BRK1, CASP1, TXNRD1, CDC27, PSMD9, SLC16A1, DAG1, SOD2, MRC1, DPEP2, SPON1, YES1, MAP2K6, NMT1, MYO9B, IRAK4, OPLAH, AP2B1, IKBK, HAVCR1, ENO1, TBL1X, KITLG, B2M, FGA, BIN2, BTB, AKT3 SERPINA3, NPC2, ADAM8, PECAM1, YES1, CFD, MAP2K6, MYO9B, GMFG, HMOX2, BIRC2, NOS1, OSCAR, IRAK4, IKBK, SERPINB6, B2M, FGA, BIN2, CD59TSS, CD101, IRAK1, TNFRSF6B, VAV3, GBP4, GBP2, GBP1, CD40LG, ZBP1, JUN, C8B, DPP7, NPDC1, PTPN1, IL13RA1, FCN1, IFIT3, PTEN, CD40, MMP9, ABL1, DNM1, LCN2, CSF3R, TREM2, SRC, TXLNA, PRKG1, FGR, ATP6V1G1, CDC26, TXN, TNFSF13B, BCL2L1, TNFRSF1B, HLA-E, WAS, ANXA1, BTN3A2, SUGT1, APRT, FOXO1, NHLRC3, TXNDC5, DDX58, IL2RA, TRIM5, COL2A1, SERPINB1, CD99, CD274, SIRPB1, ASAH1, CPPED1, CLEC6A, PSME1, LILRB4, LILRA2, LAIR1, LILRB2, LRRFIP1, AKT2, CRLF1, WASF1, RAB37, CD300E, LGMN, BCL2L11, REG3A, NIT2, PROS1, CFI, PSAP, SEC31A, LAT, LGALS9, CXCL1, EDA2R, TAX1BP1, LILRA6, BCL2, CST3, LAT2, LCP1, GSTP1, COLEC12, EIF4G3, PLA2G2A, DEFB116, HPSE, CDKN1A, IFI30, C1S, CD14, IL6, POLR2F, NFATC1,

Reactome	HSA-1280215	Cytokine Signaling in Immune system	138	706	0.38	6.38E-16	CD4, TNFRSF1A, MIF, OSM, LBP, TIMP1, CCL22, TGFB1, HGF, BLNK, CSF3, CCL2, NFKB1, IFNG, IL12B, EIF2AK2, TRAF2, LIF, BST2, TRIM21, EDAR, IL1RN, TNFRSF13B, ELOB, SLA2, IL1B, IL7, FCER2, CD80, IL1RL2, FGF2, ICAM1, TP53, IFNAR1, IL22RA1, CTF1, IL18, APP, CSF1R, UBE2L6, IL10RB, TNFRSF13C, STAT5B, CSF2, INPPL1, CCL11, MAP2K1, IL16, CXCL10, CCL19, CASP3, STAT2, STX4, TALDO1, MMP1, TRIM25, TNFRSF12A, P4HB, IFNLR1, IL3RA, IL1R2, SMAD3, GRAP2, FOXO3, TSLP, SH2B3, ANXA2, CRKL, FN1, TNFRSF14, CASP8, CCL20, MAPKAPK2, TAB2, IL6R, IRAK1, TNFRSF6B, GBP4, GBP2, GBP1, CD40LG, PTPN1, IL13RA1, IFIT3, CD40, CSF3R, SRC, TXLNA, BCL2L1, HLA-E, ANXA1, FOXO1, DDX58, TRIM5, IFNGR2, PSME1, AKT2, BCL2L11, LGALS9, CXCL1, ITGB2, LCP1, TNFSF11, EIF4G3, POMC, CDKN1A, IFI30, IL6, IL18R1, PTPN6, CSF2RA, MAPK9, IL34, TNF, LTA, INPP5D, LTB, CD36, EIF4G1, EIF4E, LYN, CASP1, YES1, TNFRSF11A, MAP2K6, TNFSF14, FLT3LG, IL12RB1, CCL5, BIRC2, CCL3, IRAK4, CCL4, GHR, IKBK, ITGAM, B2M, AKT3
Reactome	HSA-6798695	Neutrophil degranulation	106	476	0.44	3.04E-15	GRN, SNAP29, MIF, ARSA, CTSS, GLA, OLFM4, CTSH, PDAP1, MPO, NFKB1, CTSC, CTSD, TTR, ADGRES, C3, CFP, SNAP23, BST2, ORM1, GGH, ERP44, A1BG, COMMD9, VAMP8, RAB10, ARSB, SRP14, S100A11, AHS, IQGAP2, CSTB, PPBP, S100P, FABP5, GUSB, GLB1, CANT1, MCEMP1, LAMP1, ACAA1, PTPRB, NFASC, PTGES2, ANXA2, LRMP, FCAR, CLEC12A, DYNC1H1, ITGAL, IGF2R, CEACAM3, CD300A, CR1, DYNLT1, VNN1, CTSS, CREG1, DPP7, FCN1, FGR, FUCA1, CDA, APRT, NHLRC3, B4GALT1, TXNDC5, SERPINB1, ASAH1, CPPED1, LAIR1, RAB37, PRCP, NIT2, PSAP, CXCL1, ITGB2, CST3, ADA2, HPSE, PTPN6, GPI, LAMP2, CRACR2A, PTPRC, AOC1, SIGLEC9, CD36, DBNL, MME, RNASET2, IST1, ARHGAP45, CD63, NPC2, ADAM8, PECAM1, CFD, GMFG,
Reactome	HSA-76005	Response to elevated platelet cytosolic Ca2+	51	131	0.68	2.20E-14	TIMP1, TGFB1, HGF, SERPINE1, SPARC, HRG, ORM1, VWF, RAB27B, LGALS3BP, A1BG, SELP, EGF, ITIH4, TIMP3, AHS, APP, CD109, PPBP, PF4, CLEC3B, GTPBP2, PLG, VEGFB, CLU, STX4, SERPINF2, PDGFB, PDGFA, FN1, LEFTY2, TGFB2, ECM1, STXB3, SYTL4, PROS1, PSAP, TF, LAMP2, CD36, PHACTR2, RARRES2, SELENOP, PCDH7, CD63, SERPINA4, PECAM1, CFD, VEGFC, EGA, MANE
Reactome	HSA-76002	Platelet activation, signaling and aggregation	72	260	0.53	4.42E-14	TIMP1, TGFB1, HGF, SERPINE1, SPARC, HRG, ORM1, VWF, RAB27B, LGALS3BP, A1BG, PRKQ, SELP, MGLL, EGF, ITIH4, TIMP3, AHS, APP, CD109, PPBP, PF4, CLEC3B, CLEC1B, GTPBP2, ITPR1, F2, GP6, PLG, VEGFB, CLU, STX4, F2R, SERPINF2, PDGFB, PDGFA, FN1, LEFTY2, TGFB2, PLA2G4A, ECM1, STXB3, VAV3, PTPN1, SYTL4, SRC, APBB1P, DGKA, PROS1, PSAP, LAT, GP1BB, GP5, TF, PTPN6, LAMP2, DGKZ, CD36, PHACTR2, RARRES2, SELENOP, LYN, PCDH7, CD63, SERPINA4, PECAM1, CFD, VEGFC, THPO, MPIOG6B, FGA, MANE
Reactome	HSA-114608	Platelet degranulation	49	126	0.68	7.17E-14	TIMP1, TGFB1, HGF, SERPINE1, SPARC, HRG, ORM1, VWF, RAB27B, LGALS3BP, A1BG, SELP, EGF, ITIH4, TIMP3, AHS, APP, CD109, PPBP, PF4, CLEC3B, GTPBP2, PLG, VEGFB, CLU, SERPINF2, PDGFB, PDGFA, FN1, LEFTY2, TGFB2, ECM1, SYTL4, PROS1, PSAP, TF, LAMP2, CD36, PHACTR2, RARRES2, SELENOP, PCDH7, CD63, SERPINA4, PECAM1, CFD, VEGFC, EGA, MANE
Reactome	HSA-1474244	Extracellular matrix organization	73	300	0.48	5.84E-12	NID2, TIMP1, TGFB1, COMP, LAMB1, PCOLCE, SERPINE1, LAMA4, SPARC, CTSD, TTR, TNN, MMP7, VWF, CDH1, KDR, NID1, FGF2, KLKB1, ICAM1, ADAMTS16, APP, ADAMTS1, ITGAS, COL6A3, ITGA2, JAM3, PPIB, LTBP3, COL3A1, PLG, PHYKPL, CASP3, MMP1, MFAP3, CRTAP, P4HB, PDGFB, TPSAB1, CTSL, PDGFA, FN1, ITGAL, ELN, MFAP5, COL18A1, CTRB1, DMD, TGFB2, ADAMTS4, F11R, ADAM12, CTSS, COL5A1, SDC4, COL9A2, HSPG2, COL15A1, AGRN, COL2A1, ITGB2, COL28A1, JAM2, ITGA6, SERPINH1, DAG1, ADAM8, PECAM1, KLK7, ELN, PDGFB, ITGAM, EGA
Reactome	HSA-449147	Signaling by Interleukins	94	453	0.41	5.84E-12	CD4, TNFRSF1A, MIF, OSM, LBP, TIMP1, CCL22, TGFB1, HGF, BLNK, CSF3, CCL2, NFKB1, IFNG, IL12B, TRAF2, LIF, IL1RN, IL1B, IL7, FCER2, CD80, IL1RL2, FGF2, ICAM1, TP53, IL22RA1, CTF1, IL18, APP, CSF1R, IL10RB, STAT5B, CSF2, INPPL1, CCL11, MAP2K1, IL16, CXCL10, CCL19, CASP3, STAT2, STX4, TALDO1, MMP1, P4HB, IFNLR1, IL3RA, IL1R2, SMAD3, FOXO3, TSLP, ANXA2, CRKL, FN1, CASP8, CCL20, MAPKAPK2, TAB2, IL6R, IRAK1, IL13RA1, CSF3R, TXLNA, BCL2L1, ANXA1, FOXO1, PSME1, LGALS9, CXCL1, ITGB2, LCP1, POMC, CDKN1A, IL6, IL18R1, PTPN6, CSF2RA, MAPK9, IL34, TNF, INPP5D, CD36, LYN, CASP1, YES1, MAP2K6, IL12RB1, CCL5, CCL3, IRAK4, CCL4, IKBK, ITGAM

Reactome	HSA-198933	Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell	46	130	0.64	7.28E-12	CD22, KLRB1, KLRK1, C3, HCST, CDH1, ICAM1, CXADR, LAIR2, COL3A1, CD200R1, LILRB1, SIGLEC8, SIGLEC7, CLEC4G, CD300C, KLRD1, SIGLEC1, SIGLEC10, ITGAL, FCGR2B, CD300A, SLAMF6, CD40LG, SH2D1A, CD40, HLA-E, COL2A1, LILRB4, LILRA2, LAIR1, CD300E, LILRA6, ITGB2, COLEC12, CD8A, SIGLEC6, PVR, TREML1, LILRA5, LILRB5, SIGLEC9, TREML2, CD226, KLRF1, B2M
Reactome	HSA-1643685	Disease	234	1702	0.23	9.24E-12	FKBP4, CD4, ST6GAL1, TCN2, MYH9, AHCY, F9, CORO1A, DKK4, TGFB1, CDC37, HGF, BLNK, C1QB, NFKB1, HBEFG, EIF2AK2, TTR, FGF23, VPS4B, CLTA, EREG, C3, CFP, TRAF2, IDUA, GGT1, DLL4, BST2, F12, GRSF1, AP3B1, CBLIF, NTSE, FDX1, KHK, VWF, PPP2R5A, CDH1, SMAD2, RCOR1, ELOB, AXIN1, IL1B, KDR, CD80, FGF2, KLRB1, ARSB, EGF, NBN, PRKAR2A, ERBB3, PMM2, TP53, ERBB2, IFNAR1, ADAMTS16, MMUT, EGFR, IL18, LY96, APP, ADAMTS1, BAG4, ARAF, STAT5B, FGF19, TLR3, NPM1, SHH, AMN, ADAMTS15, PPIB, SLC27A4, FADD, MAP2K1, GUSB, DCXR, FNTA, BCR, CEBPB, FEN1, ITPR1, GLB1, EIF2AK3, F2, SSSH, STAT2, BAIAP2, CHMP6, GYS1, MPI, VPS37A, TALDO1, TRIM25, CD28, CASP9, PDGFB, HGS, SMAD3, WASF3, LARP1, SEL1L, FOXO3, TRIM24, PPP1CC, CTSL, ADAMTSL2, PDGFA, FN1, SPRED2, DYNC1H1, CASP8, TGFB2, CD163, PCBP2, FUT8, COMT, DCTN1, TLR1, BECN1, THBS2, PARP1, FGFR1OP, TAB2, ADAMTS4, IL6R, ADAMTSL4, SV2A, IRAK1, VAV3, GNAS, ZBP1, ADAMTS13, PTEN, ABL1, SDC4, ADA, SRC, RPA2, DKK1, TLR4, FGR, CDC26, HSPG2, RNF5, F10, BCL2L1, APBB1IP, HNRNP, HLA-E, WAS, GPC5, VPS28, GRAP2, FOXO3, PIK3AP1, LBR, EIF4EBP1, PTN, PPP1CC, SPINT1, RNF41, APOD, SH2B3, CRKL, PDGFA, FN1, PDE5A, DNM3, GFRA1, OPHN1, RSPO1, RSPO3, SCRIB, CASP8, STIP1, CCL20, WWP2, PTPRF, NRP2, CCL28, CXCL9, CDC42BPB, ACTN2, DLL1, PARP1, MAPKAPK2, TAB2, PLA2G4A, NCF2, F11R, IL6R, GOPC, RGS10, MYO6, IRAK1, VAV3, XIAP, JUN, PTPN1, PTEN, MMP9, ABL1, STK4, DNM1, SRC, DKK1, PRKG1, ATP6V1G1, PARD3, BAMB1, MAGED1, COL4A1, BCL2L1, APBB1IP, WAS, ANXA1, GPC5, SPRY2, STAM, CCL7, EDN1, EDYQ1, IL2RA, TEK, COL2A1, PAG1, PLAT, CDC37, HGF, LAMB1, LAMA4, HBEFG, SPARC, NCK2, CTSB, FGF23, CLTA, EREG, HSPB1, APOE, FGF2, CILP, FLT4, KDR, FGF2, EGF, ERBB3, PXN, ERBB2, RALB, LRIG1, EGFR, NTRK2, BAX, STAT5B, FGF19, COL6A3, ITGA2, NOS3, ARF6, AXL, SPINT2, ATP6V1G2, MAP2K1, COL3A1, ITPR1, PLG, VEGFB, BAIAP2, PDGFB, HGS, FES, WASF3, GRAP2, THBS4, RNF41, SH2B3, CRKL, PDGFA, FN1, DNM3, SPRED2, THBS2, MAPKAPK2, TAB2, ADAM12, VAV3, PTPN1, COL5A1, COL9A2, DNM1, SRC, ATP6V1G1, SPRY2, STAM, COL2A1, AKT2, WASF1, GALNT3, BTC, USP8, MDK, POLR2F, PTPN6, FGF16, TIA1, TGFA, FGF2, BDNF, ATP6V1F, HGFAC, PDGFC, ERBIN, LYN, BRK1, PTPRK, PGF, YES1, FLT3LG, YAP1, VEGFC, AP2B1, FURIN, DLG4,
Reactome	HSA-9006934	Signaling by Receptor Tyrosine Kinases	100	521	0.37	4.08E-11	PAG1, PLAT, CDC37, HGF, LAMB1, LAMA4, HBEFG, SPARC, NCK2, CTSB, FGF23, CLTA, EREG, HSPB1, APOE, FGF2, CILP, FLT4, KDR, FGF2, EGF, ERBB3, PXN, ERBB2, RALB, LRIG1, EGFR, NTRK2, BAX, STAT5B, FGF19, COL6A3, ITGA2, NOS3, ARF6, AXL, SPINT2, ATP6V1G2, MAP2K1, COL3A1, ITPR1, PLG, VEGFB, BAIAP2, PDGFB, HGS, FES, WASF3, GRAP2, THBS4, RNF41, SH2B3, CRKL, PDGFA, FN1, DNM3, SPRED2, THBS2, MAPKAPK2, TAB2, ADAM12, VAV3, PTPN1, COL5A1, COL9A2, DNM1, SRC, ATP6V1G1, SPRY2, STAM, COL2A1, AKT2, WASF1, GALNT3, BTC, USP8, MDK, POLR2F, PTPN6, FGF16, TIA1, TGFA, FGF2, BDNF, ATP6V1F, HGFAC, PDGFC, ERBIN, LYN, BRK1, PTPRK, PGF, YES1, FLT3LG, YAP1, VEGFC, AP2B1, FURIN, DLG4,
Reactome	HSA-1280218	Adaptive Immune System	127	758	0.31	1.21E-10	CD74, CD4, CD22, KIF22, LAG3, CTSH, PAG1, DCTN6, BLNK, NFKB1, CTSC, KLRB1, PPP3R1, CTSB, KLRK1, CLTA, C3, VASP, HCST, SNAP23, TRIM21, PPP2R5A, BLMH, CDH1, ELOB, PRKQ, VAMP8, CD80, ICAM1, NFKBIE, LY96, CXADR, UBE2L6, PDIA3, NFATC3, LAIR2, COL3A1, THOP1, ITPR1, CTSF, CD200R1, LILRB1, STX4, SIGLEC8, SIGLEC7, CD28, CLEC4G, CD300C, KLRD1, ZBTB16, GRAP2, PPL, SIGLEC1, RNF41, SIGLEC10, CTSL, DNM3, TNFRSF14, DYNC1H1, ITGAL, CTSF, FCGR2B, CD300A, UBE2Z, DCTN1, TLR1, BECN1, ENAH, TAB2, SLAMF6, CTSS, CD101, CD40LG, SH2D1A, PTEN, CD40, DNM1, SRC, TLR4, PRKG1, CDC26, HLA-E, WAS, BTN3A2, COL2A1, PSME1, LILRB4, LILRA2, LAIR1, AKT2, CD300E, CD79B, LGMN, SEC31A, LAT, LILRA6, ITGB2, COLEC12, IFI30, CD8A, NFATC1, PTPN6, SIGLEC6, PVR, TREML1, LILRA5, INPP5D, LILRB5, DCTN2, PTPRC, SIGLEC9, CTSO, CD36, TREML2, DAPP1, LYN, CDC27, MRC1, CD226, YES1, AP2B1, KLRF1, IKKKG, FYB1, B2M, FGA, AKT3
Reactome	HSA-202733	Cell surface interactions at the vascular wall	44	139	0.59	4.45E-10	CD74, MIF, TNFRSF10A, TGFB1, SELPLG, APOB, PROC, SELP, DOK2, TNFRSF10B, CXADR, ITGA5, PF4, JAM3, F2, GP6, CD84, ANGPT2, FCAMR, MMP1, SELE, FN1, ITGAL, CEACAM3, F11R, CD244, CD2, SDC4, SRC, TEK, PROS1, ITGB2, JAM2, ITGA6, PTPN6, INPP5D, ANGPT1, LYN, SLC16A1, BECAM1, YES1, CD99L2, CD48, ITGAM
Reactome	HSA-6783783	Interleukin-10 signaling	25	45	0.83	2.09E-09	TNFRSF1A, TIMP1, CCL22, CSF3, CCL2, IL12B, LIF, IL1RN, IL1B, FCER2, CD80, ICAM1, IL18, IL10RB, CSF2, CXCL10, CCL19, IL1R2, CCL20, CXCL1, IL6, TNF, CCL5, CCL3, CCL4

Reactome	HSA-380108	Chemokine receptors bind chemokines	26	57	0.75	2.26E-08	CCL22, CCL17, CCL2, CCL13, CXCL6, CCL21, CCL27, CXCL13, CXCL16, CXCL3, CXCL5, PPBP, PF4, CCL11, CXCL10, CXCL11, CCL19, CCL20, XCL1, CCL7, CCL25, CXCL1, CCL5, CCL3, CCL16, CCL4
Reactome	HSA-140877	Formation of Fibrin Clot (Clotting)	22	39	0.84	2.48E-08	SERPIND1, F9, C1QBP, TFPI, PROC, F12, VWF, KLB1, PF4, F2, F2R, SERPINAS, F13B, F10, F7, PRCP, PROS1, GP1BB, GPs, F11, SERPINE2, FGA
Reactome	HSA-5663202	Diseases of signal transduction by growth factor receptors and second messengers	76	430	0.34	5.57E-07	MYH9, DKK4, TGFBI, CDC37, HGF, HBEGF, FGF23, EREG, DLL4, AP3B1, VWF, PPP2R5A, SMAD2, AXIN1, KDR, CD80, FGF2, EGF, ERBB3, ERBB2, EGFR, BAG4, ARAF, STAT5B, FGF19, NPM1, SHH, MAP2K1, BCR, CEBPB, EIF2AK3, CD28, CASP9, PDGFB, SMAD3, SEL1L, FOXO3, TRIM24, PPP1CC, PDGFA, FN1, SPRED2, TGFBR2, DCTN1, FGFR1OP, PTEN, SRC, DKK1, BCL2L1, APBB1IP, FOXO1, PSME1, AKT1S1, LRRFIP1, AKT2, PRKAR1A, BCL2L11, SEC31A, BTC, MPRIP, CDKN1A, POLR2F, FGF16, BRAP, TGFA, FGFR2, KIAA1549, ERBIN, LYN, VEGF, DNFB2, F1T3C, TR134, FGA, GNB, AKT3
Reactome	HSA-381426	Regulation of Insulin-like Growth Factor (IGF) transport and uptake by Insulin-like Growth Factor Binding Proteins	35	124	0.54	6.75E-07	FSTL3, BPIFB2, SERPIND1, LGALS1, GZMH, TIMP1, LAMB1, APOB, PROC, FGF23, C3, APOE, MFG8, CDH2, IGFBP4, AHSG, APP, IGFBP7, IGFBP6, PCSK9, SCG2, F2, PLG, APOL1, MMP1, P4HB, FN1, IGFBP3, CST3, IL6, TF, CCN1, VWA1, FAM20A, FGA
Reactome	HSA-140837	Intrinsic Pathway of Fibrin Clot	16	23	0.93	7.16E-07	SERPIND1, F9, C1QBP, PROC, F12, VWF, KLB1, F2, SERPINAS, F10, PRCP, PROS1, GP1BB, GPs, F11, SERPINE2
Reactome	HSA-375276	Peptide ligand-binding receptors	44	194	0.45	2.21E-06	OXT, CCL22, CCL17, C5, CCL2, CCL13, CXCL6, C3, GRP, CCL21, CCL27, APP, CXCL13, CXCL16, CXCL3, CXCL5, PPBP, PF4, CCL11, INSL5, CXCL10, GPR37, CXCL11, F2, CCL19, F2R, CCL20, PYY, XCL1, ANXA1, CCL7, EDN1, CCL25, PSAP, CXCL1, POMC, NPY, MLN, PYY, CCL5, CCL3, CCL16, CCL23, CCL4
Reactome	HSA-6785807	Interleukin-4 and Interleukin-13 signaling	31	107	0.55	2.59E-06	OSM, LBP, TIMP1, CCL22, TGFBI, HGF, CCL2, IL12B, LIF, IL1B, FCER2, FGF2, ICAM1, TP53, IL18, CCL11, MMP1, FOXO3, FN1, IL6R, IL13RA1, BCL2L1, ANXA1, FOXO1, ITGB2, POMC, CDKN1A, IL6, TGF, CCN1, VWA1, FAM20A, FGA
Reactome	HSA-8957275	Post-translational protein phosphorylation	30	107	0.54	7.62E-06	FSTL3, BPIFB2, SERPIND1, LGALS1, TIMP1, LAMB1, APOB, PROC, FGF23, C3, APOE, MFG8, CDH2, IGFBP4, AHSG, APP, IGFBP7, PCSK9, SCG2, APOL1, P4HB, FN1, IGFBP3, CST3, IL6, TF, CCN1, VWA1, FAM20A, FGA
Reactome	HSA-5653656	Vesicle-mediated transport	98	666	0.26	1.05E-05	CD4, KIF22, SNAP29, MYH9, CTS2, DCTN6, PLIN3, CTSC, HBEGF, SPARC, APOB, VPS4B, CLTA, EREG, SNAP23, APOE, HIP1R, AP3B1, SORT1, RAB33A, STX6, PREB, SCARB1, RAB27B, SCARF1, VAMP8, RAB10, SCARB2, USO1, AMBP, EGF, EGFR, APP, STX5, ARF6, COL3A1, ASPSCR1, AP1G2, DAB2, CHMP6, APOL1, STX4, VPS37A, GCC1, MARCO, KIF1C, COPB2, HGS, SNX18, SCARAS, DNMT3, MAN1A2, DYNC1H1, IGF2R, CHM, CD163, DCTN1, GALNT2, PLA2G4A, SNAPIN, STXBP3, DNAJC6, STX16, DNMT1, RABEPK, SRC, LDLRAP1, VPS28, STAM, SNX5, SNX2, TXNDC5, YWHAQ, STAB2, SSC5D, AKT2, SNX9, VTI1A, SEC31A, BTC, CSNK1D, COLEC12, TF, MCFD2, NECAP2, REPS1, BLOC1S3, VPS53, TGFA, MSR1, DCTN2, RAB3GAP1, CD36, PRKAB1, RABEP1,
Reactome	HSA-5357801	Programmed Cell Death	43	206	0.41	2.02E-05	TNFRSF10A, CDC37, C1QBP, PPP3R1, TNFSF10, TRAF2, CDH1, PRKCQ, IL1B, ADD1, TP53, TNFRSF10B, IL18, LY96, BAX, FADD, FNTA, CASP3, CLSPN, CHMP6, BID, CASP9, OCLN, CASP8, CASP7, XIAP, TLR4, MAGED1, BCL2L1, STK24, DFFA, YWHAQ, PSME1, AKT2, BCL2L11, GAS2, DBNL, CASP1, NMT1, BIRC2, DAPK2, FAS, AKT3
Reactome	HSA-166658	Complement cascade	21	59	0.64	2.42E-05	CPB2, C5, C4BPB, C3, CFP, FCN2, C2, F2, CD46, CLU, CR1, CR2, CFH, C8B, FCN1, PROS1, CFI, C1S, CFB, C1R, CFD
Reactome	HSA-216083	Integrin cell surface interactions	25	85	0.56	3.66E-05	COMP, VWF, CDH1, KDR, ICAM1, ITGA5, COL6A3, ITGA2, JAM3, COL3A1, FN1, ITGAL, COL18A1, F11R, COL5A1, COL9A2, HSPG2, AGRN, COL2A1, ITGB2, JAM2, ITGA6, PECAM1, ITGAM, FGA
Reactome	HSA-109581	Apoptosis	38	175	0.43	3.87E-05	TNFRSF10A, C1QBP, PPP3R1, TNFSF10, TRAF2, CDH1, PRKCQ, ADD1, TP53, TNFRSF10B, LY96, BAX, FADD, FNTA, CASP3, CLSPN, BID, CASP9, OCLN, CASP8, CASP7, XIAP, TLR4, MAGED1, BCL2L1, STK24, DFFA, YWHAQ, PSME1, AKT2, BCL2L11, GAS2, DBNL, NMT1, BIRC2, DAPK2, FAS, AKT3
Reactome	HSA-2219528	PI3K/AKT Signaling in Cancer	28	105	0.52	3.88E-05	HGF, HBEGF, FGF23, EREG, CD80, FGF2, EGF, ERBB3, ERBB2, EGFR, FGF19, CD28, CASP9, PDGFB, FOXO3, PDGFA, PTEN, SRC, FOXO1, AKT1S1, AKT2, BTC, CDKN1A, FGF16, TGFA, FGFR2, FLT3LG, AKT3
Reactome	HSA-2980736	Peptide hormone metabolism	25	86	0.55	3.98E-05	CPB2, GZMH, CTS2, CTS5, TSHB, GRP, BCHE, REN, PLA2G7, ACE, INHBC, LEP, P4HB, GIP, CES1, DPP4, KLF4, POMC, GCG, ACE2, FSHB, CPB1, MME, ATP6AP2, LHB
Reactome	HSA-977606	Regulation of Complement cascade	18	49	0.66	9.85E-05	CPB2, C5, C4BPB, C3, CFP, C2, F2, CD46, CLU, CR1, CR2, CFH, C8B, PROS1, CFI, C1S, CFB, C1R

Reactome	HSA-1474228	Degradation of the extracellular matrix	32	140	0.45	0.0001	TIMP1, LAMB1, CTSD, MMP7, CDH1, NID1, KLKB1, ADAMTS16, ADAMTS1, COL6A3, COL3A1, PLG, PHYKPL, CASP3, MMP1, TPSAB1, CTSL, FN1, ELN, COL18A1, CTRB1, ADAMTS4, CTSS, COL5A1, COL9A2, HSPG2, COL15A1, COL2A1, ADAM8, KLK7, ELN, PRSS2
Reactome	HSA-392499	Metabolism of proteins	217	1917	0.14	0.0001	FSTL3, VASH1, ST6GAL1, BPIFB2, CPB2, DHP5, SERPIND1, LGALS1, ARSA, GZMH, CTSZ, F9, TIMP1, CTSH, DCTN6, TBCB, TGFB1, LAMB1, CTSC, APOB, PROC, CTSD, TTR, FGF23, C3, CFP, TRAF2, APOE, APCS, TSHB, NARS1, GRP, RAB33A, NPL, PREB, MARS1, RAB27B, SMAD2, ELOB, AXIN1, UFD1, COMMD9, CNTN3, DARS1, TOP2B, BCHE, RAB10, USO1, ARSB, GALNT7, SRP14, MFG8, PMM2, CDH2, ASGR1, TP53, IGFBP4, REN, AHSJ, ADAMTS16, PLA2G7, FUOM, CCT5, ADGRF5, THY1, APP, ADAMTS1, CD109, UBE2L6, B3GNT7, AMFR, ACE, UBXN1, STX5, ALPI, IGFBP7, NPM1, GALNT10, ABRAXAS2, ADAMTS15, PDIA3, IGFBP6, MRPL58, PCSK9, SCG2, SMAD1, TBCA, GLB1, TADA3, COMMD1, F2, INHBC, PLG, MRPL46, LEP, CLSPN, MSRA, GBA, APO1, TNIP1, MPI, FARSA, VNN2, MMP1, GADD45GIP1, TRIM25, YOD1, P4HB, COPB2, HGS, CALCA, SMAD3, SEL1L, ZBTB16, CPM, PARK7, ADAMTS12, FN1, WARS1, MAN1A2, DYNC1H1, GIP, CHM, APOA4, RAD23B, TGFBR2, BABAM1, DDA1, CES1, DPP4, FUT8, UBE2Z, DCTN1, BECN1, TOMM20, GALNT2, THBS2, PARP1, VNN1, ADAMTS4, ADAMTSL4, CETN2, ADAMTS13, PTEN, TBCB, YARS1, FUCA1, KLF4, HSPG2, EIF2S2, R GRAP2, FOXO3, PIK3AP1, LBR, EIF4EBP1, PTN, PPP1CC, SPINT1, RNF41, APOD, SH2B3, CRKL, PDGFA, FN1, PDE5A, DNM3, GFRA1, OPHN1, RSPO1, RSPO3, SCRIB, CASP8, STIP1, CCL20, WWP2, PTPRF, NRP2, CCL28, CXCL9, CDC42BPB, ACTN2, DLL1, PARP1, MAPKAPK2, TAB2, PLA2G4A, NCF2, F11R, IL6R, GOPC, RGS10, MYO6, IRAK1, VAV3, XIAP, JUN, PTPN1, PTEN, MMP9, ABL1, STK4, DNM1, SRC, DKK1, PRKG1, ATP6V1G1, PARD3, BAMBI, MAGED1, COL4A1, TRAF2, TNFRSF13C, TNFRSF12A, CD40LG, CD40, TNFSF11, LTA, LTB, TNFRSF11A, TNFSF14, BIRC2
Reactome	HSA-5676594	TNF receptor superfamily (TNFSF) members mediating non-canonical NF-	11	17	0.9	0.00017	TNFRSF10A, TNFSF10, TRAF2, TNFRSF10B, LY96, FADD, CASP3, CASP9, CASP8, TLR4, MAGED1, DAPK2, FAS
Reactome	HSA-5357769	Caspase activation via extrinsic apoptotic signalling pathway	13	26	0.79	0.00018	OXCT1, GSTA3, NDUFB7, TCN2, ARSA, AHCY, GLA, ACP5, PLA2G15, CRYM, DECR1, GSR, PLIN3, SULT2A1, NAMPT, CD38, MVK, ACOT13, APOB, NT5C1A, TTR, NT5C, UROD, IDUA, GGT1, RRM2B, APOE, RIDA, ACY3, FABP4, TSHB, CBLIF, NT5E, COX5B, HS6ST1, ENPP2, GMPR, FDX1, PLCB2, KHK, ALDH2, ARG2, MARS1, SPTLC1, HSD17B14, MECR, DARS1, KYNU, PIKFYVE, BCHE, ARSB, MGLL, PECR, PRKAR2A, SORD, NDUFS6, MMUT, GGCT, HNM1, PTS, QDPR, DDAH1, MAN2B2, AKR1B1, B3GNT7, THTPA, GSTT2B, ACOX1, HPGDS, CHAC2, GNPDA2, ALPI, FABP5, NOS3, ALDH1A1, INPPL1, AMN, PCBD1, PLIN1, CACNB3, GPD1, AGXT, GUSB, DCXR, CES3, DTYMK, ITPR1, ADH1B, RBKS, GLB1, PHYKPL, GRHRP, GBA, SSGS, GYS1, SHMT1, CA13, TALDO1, VNN2, COQ7, ENO3, UPB1, STK11, GLRX5, ENPP7, ACAA1, SLC51B, GSTA1, LBR, PPP1CC, PPCDC, PTGES2, NFYA, ENTPD2, DCTD, APOA4, RPE, AKR1B10, CES1, RRM2, HS3ST3B1, CTRB1, COMT, PFKFB2, MAPKAPK2, PLA2G4A, VNN1, PMVK, ECHS1, ACADSB, TNFAIP8L2, PNLIP, ACADM, GNAS, SCP2, PTEN, ASS1, SDC4, ADA, STXBPI1, MED18, LDLRAP1, HMGCL, HSPG2, CDA, HSD17B3, SDHB, GPC5, NMNAT1, APRT, NADK, CCL3, TNFRSF9, IRAK4, CCL4, IKKKG, B2M, IL19, AKT34, WASF1, PRKAR1A, BCL2L11, SRPK2, FDX2, SEC31A, BTC, GNE, CHMP1A, GP1BB, GP5, ACY1, CDKN1A, F11, CD14, IL6, POLR2F, PTPN6, ELOA, SFTPA1, RANBP1, MAVS, BRAP, TGFA, FGFR2, CD36, XRCC4, ERBIN, ST3GAL1, LYN, BRK1, CASP1, TXNRD1, CDC27, PSMD9, SLC16A1, DAG1, SOD2, MRC1, DPEP2, SPON1, YES1, MAP2K6, NMT1, MYO9B, IRAK4, OPLAH, AP2B1, IKKKG, HAVCR1, ENO1, TBL1X, KITLG, B2M, FGA, BIN2, LTD, AKT3, SERPINA3, NPC2, ADAM8, PECAM1, YES1, CFD, MAP2K6, MYO9B, GMFG, HMOX2, BIRC2, NCF1, OSCAR, IRAK4, IKK
Reactome	HSA-2022377	Metabolism of Angiotensinogen to Angiotensins	11	18	0.88	0.00024	CPB2, GZMH, CTSZ, CTSD, REN, ACE, CES1, ACE2, CPB1, MME, ATP6AP2
Reactome	HSA-2173782	Binding and Uptake of Ligands by Scavenger Receptors	16	43	0.66	0.00027	SPARC, APOB, APOE, SCARB1, SCARF1, AMBP, COL3A1, APO1, MARCO, SCARA5, CD163, STAB2, SSC5D, COLEC12, MSR1, CD36

Reactome	HSA-8863795	Downregulation of ERBB2 signaling	13	29	0.74	0.00042	CDC37, HBEGF, EREG, EGF, ERBB3, ERBB2, EGFR, RNF41, AKT2, BTC, USP8, ERBIN, AKT3
Reactome	HSA-5668914	Diseases of metabolism	44	250	0.34	0.00049	TCN2, AHCY, CFP, IDUA, GGT1, CBLIF, FDX1, KHK, ARSB, PMM2, ADAMTS16, MMUT, ADAMTS1, AMN, ADAMTS15, GUSB, DCXR, GLB1, SGGH, GYS1, MPI, TALDO1, ADAMTSL2, THBS2, ADAMT54, ADAMTSL4, ADAMTS13, SDC4, ADA, HSPG2, GPCS, APRT, AGRN, B4GALT1, GALNT3, GNE, POMC, ACY1, CSF2RA, DAG1, OPLAH, MUC13, MUC2, BTD
Reactome	HSA-15869	Metabolism of nucleotides	24	97	0.48	0.00052	GSR, NT5C1A, NT5C, RRM2B, NT5E, GMPR, DTYMK, UPB1, ENTPD2, DCTD, RRM2, ADA, CDA, APRT, ITPA, DUT, TYMP, NUDT5, NUDT16, TXNRD1, GMPR2, TK1, NT5C3A, AK2
Reactome	HSA-3000171	Non-integrin membrane-ECM	18	59	0.57	0.00063	TGFB1, LAMB1, LAMA4, TTR, FGF2, ITGA2, COL3A1, PDGFB, PDGFA, FN1, DMD, COL5A1, SDC4, HSPG2, AGRN, COL2A1, ITGA6, DAG1
Reactome	HSA-199418	Negative regulation of the PI3K/AKT network	26	113	0.45	0.00066	HGF, HBEGF, FGF23, EREG, PPP2R5A, CD80, FGF2, EGF, ERBB3, ERBB2, EGFR, FGF19, CD28, PDGFB, PDGFA, IRAK1, PTEN, SRC, AKT2, BTC, FGF16, TGFA, FGFR2, FLT3LG, IRAK4, AKT3
Reactome	HSA-75205	Dissolution of Fibrin Clot	9	13	0.93	0.00075	PLAT, SERPINE1, HRG, PLG, SERPINF2, SERPINB8, ANXA2, SERPINE2, SERPINB6
Reactome	HSA-73887	Death Receptor Signaling	31	152	0.4	0.00079	RTN4R, TNFRSF1A, TNFRSF10A, NFKB1, TNFSF10, TRAF2, TNFRSF10B, CASP10, BAG4, FADD, CASP3, CASP2, RNF31, FGD3, ARHGGEF1, CASP8, MAPKAPK2, TAB2, IRAK1, VAV3, XIAP, MAGED1, BCL2L11, TAX1BP1, ARHGGEF12, TNF, ARHGGEF10, OTUD7B, BIRC2, IKBKKG, FAS
Reactome	HSA-140875	Common Pathway of Fibrin Clot	11	22	0.79	0.00081	SERPIND1, PROC, PF4, F2, F2R, SERPINA5, F13B, F10, PROS1, SERPINE2, FGA
Reactome	HSA-5633008	TP53 Regulates Transcription of Cell Death Genes	15	43	0.63	0.00081	TNFRSF10A, TP53I3, TP53, TNFRSF10B, CASP10, BAX, CASP2, BID, CHM, BNIP3L, IGFBP3, CASP1, CRADD, TRIAP1, FAS
Reactome	HSA-5684996	MAPK1/MAPK3 signaling	47	283	0.31	0.00081	HGF, HBEGF, FGF23, EREG, PSPN, VWF, PPP2R5A, PRKCO, RAPGEF2, FGF2, EGF, ERBB3, ERBB2, EGFR, ARAF, FGF19, CSF2, MAP2K1, NRTN, FNTA, IL3RA, PDGFB, PPP1CC, PDGFA, FN1, GFRA1, RET, SPRED2, IL6R, SRC, BCL2L1, APBB1IP, TEK, PSME1, LAT, BTC, IL6, CSF2RA, FGF16, BRAP, TGFA, GDNF, EGER2, ANGPT1, FLT3LG, DLG4, EGA
Reactome	HSA-196854	Metabolism of vitamins and cofactors	35	188	0.36	0.0011	TCN2, ACP5, NAMPT, CD38, APOB, TTR, APOE, CBLIF, NT5E, ENPP2, MMUT, PTS, THTPA, NOS3, AMN, SHMT1, VNN2, COQ7, PPCDC, APOA4, AKR1B10, CTRB1, VNN1, PNLI, SDC4, LDLRAP1, HSPG2, GPCS, NMNAT1, NADK, AGRN, AKR1C4, MCOCS2, LDLR, BTD
Reactome	HSA-5683057	MAPK family signaling cascades	51	322	0.29	0.0011	HGF, HBEGF, FGF23, EREG, PSPN, HSPB1, DNAJB1, VWF, PPP2R5A, PRKCO, RAPGEF2, FGF2, EGF, ERBB3, ERBB2, EGFR, ARAF, FGF19, CSF2, MAP2K1, NRTN, FNTA, IL3RA, PDGFB, FOXO3, PPP1CC, PDGFA, FN1, GFRA1, RET, SPRED2, IL6R, SRC, BCL2L1, APBB1IP, FOXO1, TEK, PSME1, LAT, BTC, IL6, CSF2RA, EGE16, BRAP, TGFA, GDNF, EGER2, ANGPT1, FLT3LG, DLG4, EGA
Reactome	HSA-109606	Intrinsic Pathway for Apoptosis	16	52	0.58	0.0014	C1QB, PPP3R1, TP53, BAX, CASP3, BID, CASP9, CASP8, CASP7, XIAP, BCL2L1, YWHAQ, AKT2, BCL2L11, NMT1, AKT3
Reactome	HSA-186797	Signaling by PDGF	17	58	0.56	0.0014	PLAT, NCK2, STAT5B, COL6A3, COL3A1, PLG, PDGFB, THBS4, CRKL, PDGFA, THBS2, COL5A1, COL9A2, SRC, COL2A1, PDGFC, FURIN
Reactome	HSA-199991	Membrane Trafficking	83	626	0.21	0.0014	CD4, KIF22, SNAP29, MYH9, CTSZ, DCTN6, PLIN3, CTSC, HBEGF, APOB, VPS4B, CLTA, EREG, SNAP23, HIP1R, AP3B1, SORT1, RAB33A, STX6, PREB, RAB27B, VAMP8, RAB10, SCARB2, USO1, EGF, EGFR, APP, STX5, ARF6, ASPSCR1, AP1G2, DAB2, CHMP6, STX4, VPS37A, GCC1, KIF1C, COPB2, HGS, SNX18, DNM3, MAN1A2, DYNC1H1, IGF2R, CHM, DCTN1, GALNT2, PLA2G4A, SNAPIN, STXB3, DNAJC6, STX16, DNM1, RABEPK, SRC, LDLRAP1, VPS28, STAM, SNX5, SNX2, TXNDC5, YWHAQ, AKT2, SNX9, VTI1A, SEC31A, BTC, CSNK1D, TF, MCFD2, NECAP2, REPS1, BLOC1S3, VPS53, TGFA, DCTN2, PPP3R1, PPP3R2, PPP3R3, PPP3R4, PPP3R5, PPP3R6, PPP3R7, PPP3R8, PPP3R9, PPP3R10, PPP3R11, PPP3R12, PPP3R13, PPP3R14, PPP3R15, PPP3R16, PPP3R17, PPP3R18, PPP3R19, PPP3R20, PPP3R21, PPP3R22, PPP3R23, PPP3R24, PPP3R25, PPP3R26, PPP3R27, PPP3R28, PPP3R29, PPP3R30, PPP3R31, PPP3R32, PPP3R33, PPP3R34, PPP3R35, PPP3R36, PPP3R37, PPP3R38, PPP3R39, PPP3R40, PPP3R41, PPP3R42, PPP3R43, PPP3R44, PPP3R45, PPP3R46, PPP3R47, PPP3R48, PPP3R49, PPP3R50, PPP3R51, PPP3R52, PPP3R53, PPP3R54, PPP3R55, PPP3R56, PPP3R57, PPP3R58, PPP3R59, PPP3R60, PPP3R61, PPP3R62, PPP3R63, PPP3R64, PPP3R65, PPP3R66, PPP3R67, PPP3R68, PPP3R69, PPP3R70, PPP3R71, PPP3R72, PPP3R73, PPP3R74, PPP3R75, PPP3R76, PPP3R77, PPP3R78, PPP3R79, PPP3R80, PPP3R81, PPP3R82, PPP3R83, PPP3R84, PPP3R85, PPP3R86, PPP3R87, PPP3R88, PPP3R89, PPP3R90, PPP3R91, PPP3R92, PPP3R93, PPP3R94, PPP3R95, PPP3R96, PPP3R97, PPP3R98, PPP3R99, PPP3R100
Reactome	HSA-2219530	Constitutive Signaling by Aberrant PI3K in Cancer	20	78	0.5	0.0014	HGF, HBEGF, FGF23, EREG, CD80, FGF2, EGF, ERBB3, ERBB2, EGFR, FGF19, CD28, PDGFB, PDGFA, SRC, BTC, FGF16, TGFA, FGFR2, FLT3LG
Reactome	HSA-449836	Other interleukin signaling	11	24	0.75	0.0014	CD4, CSF3, CSF1R, IL10RB, IL16, CASP3, STX4, IFNLR1, CSF3R, TXLNA, IL34
Reactome	HSA-5218859	Regulated Necrosis	17	58	0.56	0.0014	TNFRSF10A, CDC37, TNFSF10, TRAF2, IL1B, TP53, TNFRSF10B, IL18, BAX, FADD, CASP3, CHMP6, CASP8, XIAP, CASP1, BIRC2, FAS
Reactome	HSA-199992	trans-Golgi Network Vesicle Budding	19	72	0.51	0.0015	CTSZ, CLTA, SNAP23, HIP1R, AP3B1, SORT1, VAMP8, APP, AP1G2, STX4, HGS, IGF2R, SNAPIN, DNAJC6, SNX5, SNX2, TXNDC5, SNX9, BLOC1S3
Reactome	HSA-168898	Toll-like Receptor Cascades	31	161	0.37	0.0016	LBP, NFKB1, APOB, TRAF2, TANK, TP53, LY96, APP, TLR3, FADD, MAP2K1, CTSL, DNM3, CASP8, TLR1, MAPKAPK2, TAB2, CTSS, IRAK1, DNM1, TLR4, LGMN, ITGB2, MAPK9, CD36, MAP2K6, BIRC2, IRAK4, IKBKKG, ITGAM, FGA

Reactome	HSA-5673001	RAF/MAP kinase cascade	45	277	0.3	0.0016	HGF, HBEGF, FGF23, EREG, PSPN, VWF, PPP2R5A, PRKCQ, RAPGEF2, FGF2, EGF, ERBB3, ERBB2, EGFR, ARAF, FGF19, CSF2, MAP2K1, NRTN, FNNTA, IL3RA, PDGFB, PPP1CC, PDGFA, FN1, GFRA1, RET, SPRED2, SRC, BCL2L1, APBB1IP, TEK, PSME1, LAT, BTC, CSF2RA, FGF16, BRAP, TGFA, GDNF, FGFR2, ANGPT1, ELT3LG, DLGA, EGA
Reactome	HSA-140534	Caspase activation via Death Receptors in the presence of ligand	9	16	0.84	0.0019	TNFRSF10A, TNFSF10, TRAF2, TNFRSF10B, LY96, FADD, CASP8, TLR4, FAS
Reactome	HSA-9651496	Defects of contact activation system (CAS) and kallikrein/kinin system (KKS)	9	16	0.84	0.0019	F9, F12, VWF, KLKB1, F2, F10, GP1BB, GP5, F11
Reactome	HSA-111465	Apoptotic cleavage of cellular proteins	13	38	0.62	0.0025	CDH1, PRKCQ, ADD1, FNNTA, CASP3, CLSPN, OCLN, CASP8, CASP7, STK24, GAS2, DBNL, BIRC2
Reactome	HSA-1227986	Signaling by ERBB2	15	50	0.57	0.0025	CDC37, HBEGF, EREG, EGF, ERBB3, ERBB2, EGFR, RNF41, SRC, AKT2, BTC, USP8, ERBIN, YES1, AKT3
Reactome	HSA-177929	Signaling by EGFR	15	50	0.57	0.0025	PAG1, HBEGF, EREG, EGF, PXN, LRIG1, EGFR, HGS, ADAM12, SRC, SPRY2, STAM, BTC, TGFA, PTPRK
Reactome	HSA-180292	GAB1 signalosome	9	17	0.81	0.0025	PAG1, HBEGF, EREG, EGF, PXN, EGFR, SRC, BTC, TGFA
Reactome	HSA-3000178	ECM proteoglycans	19	76	0.49	0.0025	TGFB1, COMP, LAMB1, SERPINE1, LAMA4, SPARC, TNN, APP, COL6A3, ITGA2, COL3A1, FN1, TGFB2, COL5A1, COL9A2, HSPG2, AGRN, COL2A1, DAG1
Reactome	HSA-6811558	PI5P, PP2A and IER3 Regulate PI3K/AKT Signaling	23	106	0.43	0.0028	HGF, HBEGF, FGF23, EREG, PPP2R5A, CD80, FGF2, EGF, ERBB3, ERBB2, EGFR, FGF19, CD28, PDGFB, PDGFA, IRAK1, SRC, BTC, FGF16, TGFA, FGFR2, FLT3LG, IRAK4
Reactome	HSA-8856828	Clathrin-mediated endocytosis	28	145	0.38	0.003	CD4, HBEGF, APOB, CLTA, EREG, HIP1R, VAMP8, SCARB2, EGF, EGFR, ARF6, DAB2, HGS, SNX18, DNMT3, IGF2R, DNJC6, DNMT1, LDLRAP1, STAM, SNX9, BTC, TF, NECAP2, REPS1, TGFA, LDLR, AP2B1
Reactome	HSA-9614085	FOXO-mediated transcription	17	65	0.51	0.0034	MSTN, SMAD2, AGRP, STK11, SMAO3, FOXO3, NFYA, PLXNA4, KLF4, FOXO1, YWHAQ, AKT2, BCL2L11, POMC, NPY, CDKN1A, AKT3
Reactome	HSA-159782	Removal of aminoterminal propeptides from gamma-carboxylated proteins	7	10	0.94	0.0042	F9, PROC, F2, F10, F7, PROS1, FURIN
Reactome	HSA-5663205	Infectious disease	109	917	0.17	0.0044	FKBP4, CD4, ST6GAL1, MYH9, CORO1A, TGFB1, BLNK, NFKB1, HBEGF, EIF2AK2, VPS4B, CLTA, C3, GGT1, BST2, GRSF1, NTSE, CDH1, RCOR1, ELOB, IL1B, PRKAR2A, IFNAR1, EGFR, IL18, APP, NPM1, PPIB, MAP2K1, FNNTA, FEN1, ITPR1, STAT2, BAIAP2, CHMP6, VPS37A, TRIM25, CD28, HGS, SMAD3, WASF3, LARP1, CTSL, DYNC1H1, CD163, PCBP2, FUT8, COMT, TLR1, BECN1, PARP1, TAB2, IL6R, SV2A, IRAK1, VAV3, GNAS, ZBP1, ABL1, SDC4, SRC, FGR, HSPG2, BCL2L1, HNRNPK, HLA-E, WAS, GPCS, VPS28, STAM, SUGT1, AGRN, DDXS8, PSIP1, YWHAQ, IFNGR2, PSME1, AKT2, WASF1, PRKAR1A, CD79B, SRPK2, RPL14, CHMP1A, IL6, POLR2F, ACE2, PTPN6, ELOA, MAVS, XRCC4, LYN, BRK1, CASP1, TXNRD1, MRC1, YES1, MAP2K6, NMT1, MYO9B, AP2B1, FURIN, IKBKG, HAVCR1, ENO1, TBL1X, RCC1, B2M, AKT3
Reactome	HSA-372790	Signaling by GPCR	87	697	0.19	0.0048	SCT, OXT, CCL22, CCL17, C5, CCL2, CCL13, CXCL6, HBEGF, PPP3R1, ADGRE5, C3, TSHB, GRP, CCL21, CCL27, PLCB2, PRKCQ, MGLL, PRKAR2A, CRHBP, EGFR, APP, RHOC, CXCL13, ITGA5, CXCL16, CXCL3, CXCL5, PPBP, PF4, SHH, CCL11, INSL5, CXCL10, ITPR1, GPR37, CXCL11, F2, CCL19, ADGRE1, ADGRE2, F2R, GAST, CALCA, FGD3, ARHGEF1, FN1, GIP, CCL20, PYY, PLA2G4A, XCL1, RGS10, VAV3, GNAS, SRC, ANXA1, CCL7, EDN1, CAMKK1, CCL25, AKT2, PRKAR1A, GRK5, DGKA, PSAP, CXCL1, ARHGEF12, POMC, NPY, GCG, MLN, PTH1R, DGKZ, FSHB, ARHGEF10, PTH, ADM, PPY, CCL5, CCL3, CCL16, CCL23, CCL4, LHB, ACE2
Reactome	HSA-3371378	Regulation by c-FLIP	7	11	0.89	0.0061	TNFRSF10A, TNFSF10, TRAF2, TNFRSF10B, FADD, CASP8, FAS
Reactome	HSA-5218900	CASP8 activity is inhibited	7	11	0.89	0.0061	TNFRSF10A, TNFSF10, TRAF2, TNFRSF10B, FADD, CASP8, FAS
Reactome	HSA-69416	Dimerization of procaspase-8	7	11	0.89	0.0061	TNFRSF10A, TNFSF10, TRAF2, TNFRSF10B, FADD, CASP8, FAS
Reactome	HSA-166016	Toll Like Receptor 4 (TLR4) Cascade	26	139	0.36	0.0073	LBP, NFKB1, TRAF2, TANK, TP53, LY96, APP, FADD, MAP2K1, DNMT3, CASP8, TLR1, MAPKAPK2, TAB2, IRAK1, DNMT1, TLR4, ITGB2, MAPK9, CD36, MAP2K6, BIRC2, IRAK4, IKBKG, ITGAM, FGA
Reactome	HSA-6806834	Signaling by MET	18	79	0.45	0.0082	HGF, LAMB1, LAMA4, LRIG1, ITGA2, ARF6, SPINT2, COL3A1, HGS, CRKL, FN1, PTPN1, COL5A1, SRC, STAM, COL2A1, USP8, HGFAC
Reactome	HSA-9658195	Leishmania infection	29	165	0.33	0.0082	MYH9, NFKB1, C3, GGT1, NTSE, IL1B, PRKAR2A, IL18, APP, ITPR1, BAIAP2, WASF3, CD163, VAV3, GNAS, ABL1, SRC, FGR, WAS, SUGT1, WASF1, PRKAR1A, IL6, LYN, BRK1, CASP1, YES1, MYO9B, FURIN

Reactome	HSA-2024096	HS-GAG degradation	9	22	0.7	0.0087	IDUA, GUSB, GLB1, SGSH, SDC4, HSPG2, GPCS, AGRN, HPSE
Reactome	HSA-373076	Class A/1 (Rhodopsin-like receptors)	47	326	0.25	0.0087	OXT, CCL22, CCL17, C5, CCL2, CCL13, CXCL6, C3, TSHB, GRP, CCL21, CCL27, APP, CXCL13, CXCL16, CXCL3, CXCL5, PPBP, PF4, CCL11, INSL5, CXCL10, GPR37, CXCL11, F2, CCL19, F2R, CCL20, PYY, XCL1, ANXA1, CCL7, EDN1, CCL25, PSAP, CXCL1, POMC, NPY, MLN, FSHB, PTH, CCL5, CCL3, CCL16, CCL23, CCL4, LHB
Reactome	HSA-5638303	Inhibition of Signaling by Overexpressed	6	8	0.97	0.0087	HBEGF, EREG, EGF, EGFR, BTC, TGFA
Reactome	HSA-597592	Post-translational protein modification	153	1405	0.13	0.0087	FSTL3, VASH1, ST6GAL1, BPIFB2, DHPS, SERPIND1, LGALS1, ARSA, CTSZ, F9, TIMP1, DCTN6, TGFBI, LAMB1, CTSC, APOB, PROC, FGF23, C3, CFP, TRAF2, APOE, RAB33A, NPL, PREB, RAB27B, SMAD2, ELOB, AXIN1, UFD1, COMMD9, CNTN3, TOP2B, RAB10, USO1, ARSB, GALNT7, MFGE8, PMM2, CDH2, ASGR1, TP53, IGFBP4, AHSG, ADAMTS16, FUOM, THY1, APP, ADAMTS1, CD109, B3GNT7, AMFR, UBXN1, STX5, ALPI, IGFBP7, NPM1, GALNT10, ABRAXAS2, ADAMTS15, PDIA3, PCSK9, SCG2, SMAD1, GLB1, TADA3, COMMD1, F2, CLSPN, APOL1, TNIP1, MPI, VNN2, TRIM25, YOD1, P4HB, COPB2, HGS, SMAD3, SEL1L, ZBTB16, CPM, PARK7, ADAMTSL2, FN1, MAN1A2, DYNC1H1, CHM, RAD23B, TGFBR2, BABAM1, DDA1, FUT8, UBE2Z, DCTN1, BECN1, TOMM20, GALNT2, THBS2, PARP1, VNN1, ADAMTS4, ADAMTSL4, CETN2, ADAMTS13, PTEN, FUCA1, RNF5, F10, F7, HNRNPK, STAM, B4GALT1, DDX58, IGFBP3, PSME1, RAB37, GALNT3, STAMBP, PROS1, SEC31A, USP8, GNE, RAB2B, CST3, CSNK1D, USP25, CDKN1A, IL6, TF, MCFD2, CCN1, MAVS, TGFA, DCTN2, GCNT1, VWA1, XRCC4, AGBL2, DAG1, NUB1, OTUD7B, LYPD8, FAM20A, BIRC2, NAGK, FURIN, IKBKG, MUC13, CCL3, TNFRSF9, IRAK4
Reactome	HSA-75153	Apoptotic execution phase	14	52	0.52	0.0087	CDH1, PRKCO, ADD1, FNTA, CASP3, CLSPN, OCLN, CASP8, CASP7, STK24, DFFA, GAS2, DBNL, BIRC2
Reactome	HSA-75158	TRAIL signaling	6	8	0.97	0.0087	TNFRSF10A, TNFSF10, TNFRSF10B, CASP10, FADD, CASP8
Reactome	HSA-9665686	Signaling by ERBB2 TMD/JMD mutants	9	22	0.7	0.0087	CDC37, HBEGF, EREG, EGF, ERBB3, ERBB2, EGFR, BTC, ERBIN
Reactome	HSA-8847993	ERBB2 Activates PTK6 Signaling	7	13	0.82	0.0109	HBEGF, EREG, EGF, ERBB3, ERBB2, EGFR, BTC
Reactome	HSA-933543	NF-kB activation through FADD/RIP-1 pathway mediated by caspase-8 and -	7	13	0.82	0.0109	CASP10, FADD, TRIM25, CASP8, DDX58, MAVS, IKBKG
Reactome	HSA-174824	Plasma lipoprotein assembly, remodeling, and clearance	17	75	0.45	0.011	APOB, CLTA, APOE, SCARB1, LCAT, AMN, PCSK9, CES3, LPA, P4HB, APOA4, ANGPTL3, LDLRAP1, NPC2, LDLR, AP2B1, FURIN
Reactome	HSA-8856825	Cargo recognition for clathrin-mediated endocytosis	21	105	0.39	0.011	CD4, HBEGF, APOB, CLTA, EREG, VAMP8, SCARB2, EGF, EGFR, DAB2, HGS, IGF2R, LDLRAP1, STAM, BTC, TF, NECAP2, REPS1, TGFA, LDLR, AP2B1
Reactome	HSA-159763	Transport of gamma-carboxylated protein precursors from the endoplasmic reticulum to the Golgi	6	9	0.91	0.0119	F9, PROC, F2, F10, F7, PROS1
Reactome	HSA-212718	EGFR interacts with phospholipase C-	6	9	0.91	0.0119	HBEGF, EREG, EGF, EGFR, BTC, TGFA
Reactome	HSA-75893	TNF signaling	14	55	0.5	0.0125	TNFRSF1A, TRAF2, BAG4, FADD, RNF31, CASP8, MAPKAPK2, TAB2, XIAP, TAX1BP1, TNF, OTUD7B, BIRC2, IKBKG
Reactome	HSA-166663	Initial triggering of complement	9	24	0.66	0.0128	C3, CFP, FCN2, C2, FCN1, C15, CFB, C1R, CFD
Reactome	HSA-5357786	TNFR1-induced proapoptotic signaling	9	24	0.66	0.0128	TNFRSF1A, TRAF2, FADD, RNF31, CASP8, XIAP, TNF, OTUD7B, BIRC2
Reactome	HSA-9634638	Estrogen-dependent nuclear events downstream of ESR-membrane	9	24	0.66	0.0128	HBEGF, EREG, EGF, EGFR, FOXO3, AKT2, BTC, TGFA, AKT3
Reactome	HSA-500792	GPCR ligand binding	60	459	0.21	0.013	SCT, OXT, CCL22, CCL17, C5, CCL2, CCL13, CXCL6, ADGRE5, C3, TSHB, GRP, CCL21, CCL27, CRHBP, APP, CXCL13, CXCL16, CXCL3, CXCL5, PPBP, PF4, SHH, CCL11, INSL5, CXCL10, GPR37, CXCL11, F2, CCL19, ADGRE1, ADGRE2, F2R, CALCA, GIP, CCL20, PYY, XCL1, GNAS, ANXA1, CCL7, EDN1, CCL25, PSAP, CXCL1, POMC, NPY, GCG, MLN, PTH1R, FSHB, PTH, ADM, PPY, CCL5, CCL3, CCL16, CCL23, CCL4, LHB
Reactome	HSA-8964038	LDL clearance	8	19	0.71	0.0136	APOB, CLTA, PCSK9, CES3, LDLRAP1, NPC2, LDLR, AP2B1
Reactome	HSA-9694614	Attachment and Entry	8	19	0.71	0.0136	CTSL, SDC4, HSPG2, GPCS, AGRN, ACE2, FURIN, HAVCR1

Reactome	HSA-422475	Axon guidance	69	551	0.19	0.0148	MYH9, LAMB1, NCK2, DOK1, CLTA, PSPN, VASP, RRAS, CD72, SEMA7A, ELOB, PRKCQ, CLASP1, CASC3, PRKAR2A, ERBB2, EGFR, EPHA1, DOK2, RHOC, ITGA5, COL6A3, ITGA2, CACNB3, MAP2K1, NRTN, COL3A1, SCN4B, FES, HJV, EZR, NFASC, DNMT3, GFRA1, RET, PDLIM7, PLXNA4, ENAH, VAV3, COL5A1, ABL1, COL9A2, DNMT1, SRC, NRCAM, AGRN, COL2A1, PSME1, GIT1, RPL14, ARHGGEF12, DSCAM, GDNF, PTPRC, EFNA4, EIF4G1, SEMA4D, ROBO2, ROBO1, SLIT2, LYN, DAG1, PLXNB3, NUMB, YES1, PAK4, MYO9B, AP2B1, DLG4
Reactome	HSA-8964043	Plasma lipoprotein clearance	11	37	0.56	0.0152	APOB, CLTA, APOE, SCARB1, AMN, PCSK9, CES3, LDLRAP1, NPC2, LDLR, AP2B1
Reactome	HSA-9664565	Signaling by ERBB2 KD Mutants	9	25	0.65	0.0152	CDC37, HBEGF, EREG, EGF, ERBB3, ERBB2, EGFR, BTC, ERBIN
Reactome	HSA-159740	Gamma-carboxylation of protein	6	10	0.87	0.0155	F9, PROC, F2, F10, F7, PROS1
Reactome	HSA-182971	EGFR downregulation	10	31	0.6	0.0155	HBEGF, EREG, EGF, EGFR, HGS, SPRY2, STAM, BTC, TGFA, PTPRK
Reactome	HSA-5675482	Regulation of necroptotic cell death	10	31	0.6	0.0155	TNFRSF10A, CDC37, TNFSF10, TRAF2, TNFRSF10B, FADD, CASP8, XIAP, BIRC2, FAS
Reactome	HSA-388396	GPCR downstream signalling	76	624	0.18	0.0156	SCT, OXT, C5, CCL13, CXCL6, HBEGF, PPP3R1, C3, TSHB, GRP, CCL21, CCL27, PLCB2, PRKCQ, MGLL, PRKAR2A, EGFR, APP, RHOC, CXCL13, ITGA5, CXCL16, CXCL3, CXCL5, PPBP, PF4, INSL5, CXCL10, ITPR1, GPR37, CXCL11, F2, CCL19, F2R, GAST, CALCA, FGD3, ARHGGEF1, FN1, GIP, CCL20, PYY, PLA2G4A, XCL1, RGS10, VAV3, GNAS, SRC, ANXA1, EDN1, CAMKK1, CCL25, AKT2, PRKAR1A, GRK5, DGKA, PSAP, CXCL1, ARHGGEF12, POMC, NPY, GCG, MLN, PTH1R, DGKZ, FSHB, ARHGGEF10, PTH, ADM, PPY, CCL5, CCL16, CCL23, CCL4, LHB, AKT3
Reactome	HSA-975634	Retinoid metabolism and transport	12	44	0.53	0.0159	APOB, TTR, APOE, APOA4, AKR1B10, PNLIP, SDC4, HSPG2, GPCS5, AGRN, AKR1C4, LDLR
Reactome	HSA-6785631	ERBB2 Regulates Cell Motility	7	15	0.76	0.0168	HBEGF, EREG, EGF, ERBB3, ERBB2, EGFR, BTC
Reactome	HSA-194138	Signaling by VEGF	20	105	0.37	0.0204	NCK2, HSPB1, FLT4, KDR, PXN, NOS3, AXL, ITPR1, VEGFB, BAIAP2, WASF3, MAPKAPK2, VAV3, SRC, AKT2, WASF1, BRK1, PGF, VEGFC, AKT3
Reactome	HSA-1592389	Activation of Matrix Metalloproteinases	10	33	0.57	0.0213	TIMP1, MMP7, KLKB1, PLG, MMP1, TPSAB1, COL18A1, CTRB1, FURIN, PRSS2
Reactome	HSA-5357905	Regulation of TNFR1 signaling	12	46	0.51	0.0213	TNFRSF1A, TRAF2, FADD, RNF31, CASP8, MAPKAPK2, XIAP, TAX1BP1, TNF, OTUD7B, BIRC2, IKKKG
Reactome	HSA-1963642	PI3K events in ERBB2 signaling	7	16	0.73	0.0216	HBEGF, EREG, EGF, ERBB3, ERBB2, EGFR, BTC
Reactome	HSA-2132295	MHC class II antigen presentation	22	122	0.35	0.0216	CD74, KIF22, LAG3, CTSH, DCTN6, CTSC, CTSD, CLTA, CTSF, CTSL, DNMT3, DYNC1H1, CTSE, DCTN1, CTSS, DNMT1, LGMN, SEC31A, IFI30, DCTN2, CTSO, AP2B1
Reactome	HSA-174577	Activation of C3 and C5	5	7	0.94	0.0229	C5, C3, CFP, C2, CFB
Reactome	HSA-195399	VEGF binds to VEGFR leading to receptor dimerization	5	7	0.94	0.0229	FLT4, KDR, VEGFB, PGF, VEGFC
Reactome	HSA-9675108	Nervous system development	70	575	0.18	0.0229	MYH9, LAMB1, NCK2, DOK1, CLTA, PSPN, VASP, RRAS, CD72, SEMA7A, ELOB, PRKCQ, CLASP1, CASC3, PRKAR2A, ERBB2, EGFR, EPHA1, DOK2, RHOC, ITGA5, COL6A3, ITGA2, CACNB3, MAP2K1, NRTN, COL3A1, SCN4B, FES, HJV, EZR, NFASC, DNMT3, GFRA1, RET, PDLIM7, PLXNA4, ENAH, VAV3, COL5A1, ABL1, COL9A2, DNMT1, SRC, NRCAM, AGRN, COL2A1, PSME1, GIT1, RPL14, ARHGGEF12, DSCAM, GDNF, PTPRC, EFNA4, EIF4G1, SEMA4D, ROBO2, ROBO1, SLIT2, LYN, DAG1, PLXNB3, NUMB, YES1, PAK4, MYO9B, YAP1, AP2B1, DLG4
Reactome	HSA-168643	Nucleotide-binding domain, leucine rich repeat containing receptor (NLR)	13	55	0.46	0.0272	NFKB1, APP, CASP2, CASP9, CASP8, TAB2, IRAK1, BCL2L1, SUGT1, CASP1, MAP2K6, BIRC2, IKKKG
Reactome	HSA-210990	PECAM1 interactions	6	12	0.79	0.0272	SRC, PTPN6, INPP5D, LYN, PECAM1, YES1
Reactome	HSA-264870	Caspase-mediated cleavage of cytoskeletal proteins	6	12	0.79	0.0272	ADD1, CASP3, CASP8, CASP7, GAS2, DBNL
Reactome	HSA-73621	Pyrimidine catabolism	6	12	0.79	0.0272	NT5C1A, NT5C, NT5E, UPB1, TYMP, NT5C3A
Reactome	HSA-9617828	FOXO-mediated transcription of cell cycle genes	7	17	0.7	0.0272	MSTN, SMAD2, SMAD3, FOXO3, KLF4, FOXO1, CDKN1A
Reactome	HSA-8956319	Nucleotide catabolism	10	35	0.55	0.0275	NT5C1A, NT5C, NT5E, UPB1, ENTPD2, ITPA, TYMP, NUDT5, NUDT16, NT5C3A

Reactome	HSA-163841	Gamma carboxylation, hypusine formation and arylsulfatase activation	11	42	0.51	0.0293	DHPS, ARSA, F9, PROC, ARSB, F2, F10, F7, PROS1, FURIN, SUMF2
Reactome	HSA-419037	NCAM1 interactions	11	42	0.51	0.0293	PSPN, COL6A3, CACNB3, NRTN, COL3A1, GFRA1, COL5A1, COL9A2, AGRN, COL2A1, GDNF
Reactome	HSA-432722	Golgi Associated Vesicle Biogenesis	13	56	0.46	0.0293	CLTA, HIP1R, AP3B1, SORT1, VAMP8, IGF2R, SNAPIN, DNAJC6, SNX5, SNX2, TXNDC5, SNX9, BLOC1S3
Reactome	HSA-1442490	Collagen degradation	14	64	0.43	0.0317	CTSD, MMP7, COL6A3, COL3A1, PHYKPL, MMP1, CTSL, COL18A1, COL5A1, COL9A2, COL15A1, COL2A1, FURIN, PRSS2
Reactome	HSA-3000480	Scavenging by Class A Receptors	7	18	0.68	0.0326	APOB, APOE, COL3A1, MARCO, SCARAS, COLEC12, MSR1
Reactome	HSA-8874081	MET activates PTK2 signaling	9	30	0.57	0.0338	HGF, LAMB1, LAMA4, ITGA2, COL3A1, FN1, COL5A1, SRC, COL2A1
Reactome	HSA-1358803	Downregulation of ERBB2:ERBB3	6	13	0.75	0.0343	ERBB3, ERBB2, RNF41, AKT2, USP8, AKT3
Reactome	HSA-179812	GRB2 events in EGFR signaling	6	13	0.75	0.0343	HBEGF, EREG, EGF, EGFR, BTC, TGFA
Reactome	HSA-379716	Cytosolic tRNA aminoacylation	8	24	0.61	0.0343	NARS1, MARS1, DARS1, FARSA, WARS1, YARS1, TARS1, HARS1
Reactome	HSA-9012999	RHO GTPase cycle	56	449	0.19	0.0362	GOLGA3, TXNL1, CDC37, C1QBP, NCK2, SNAP23, FAM13A, IQGAP2, RHOC, PKN3, STX5, BCR, LETM1, ARHGAP1, SWAP70, DNMBP, BAIAP2, NUDC, FMNL1, HGS, WASF3, FGD3, ARHGEF1, LBR, PDE5A, OPHN1, SCRIB, STIP1, WWP2, CDC42BPB, GOPC, VAV3, SRC, WAS, STAM, ARHGAP5, WASF1, DBN1, ARL13B, GIT1, DAAM1, ARHGEF12, ARHGAP25, NDUFA5, NSFL1C, ERBIN, ARHGEF10, BRK1, TOR1AIP1, ARHGAP45, PCDH7, PAK4, MYO9B, HMOX2, MUC12, SH2BB1
Reactome	HSA-9013106	RHOC GTPase cycle	15	73	0.4	0.0362	C1QBP, RHOC, PKN3, STX5, BCR, ARHGAP1, ARHGEF1, LBR, OPHN1, ARHGAP5, DAAM1, ARHGEF12, ERBIN, ARHGEF10, MYO9B
Reactome	HSA-9772572	Early SARS-CoV-2 Infection Events	10	37	0.52	0.0362	CHMP6, CTSL, BECN1, SDC4, HSPG2, GPC5, AGRN, ACE2, FURIN, HAVCR1
Reactome	HSA-5602358	Diseases associated with the TLR signaling cascade	9	31	0.55	0.0388	NFKB1, LY96, TLR3, TLR1, TLR4, CD36, IRAK4, IKKBG, FGA
Reactome	HSA-1474290	Collagen formation	17	90	0.37	0.0403	PCOLCE, MMP7, COL6A3, PPIB, COL3A1, CRTAP, P4HB, CTSL, COL18A1, CTSS, COL5A1, COL9A2, COL15A1, COL2A1, COL28A1, ITGA6, SERPINH1
Reactome	HSA-1660662	Glycosphingolipid metabolism	11	45	0.48	0.0418	ARSA, GLA, ARSB, GLB1, GBA, ENPP7, ASAH1, PSAP, ASAH2, SUMF2, ESYT2
Reactome	HSA-9668250	Defective factor IX causes hemophilia B	5	9	0.83	0.0418	F9, F10, GP1BB, GP5, F11
Reactome	HSA-180336	SHC1 events in EGFR signaling	6	14	0.72	0.0426	HBEGF, EREG, EGF, EGFR, BTC, TGFA
Reactome	HSA-5668541	TNFR2 non-canonical NF-kB pathway	18	99	0.35	0.0428	TNFRSF1A, TRAF2, EDAR, TNFRSF13B, TNFRSF13C, TNFRSF12A, TNFRSF14, TNFRSF6B, CD40LG, CD40, PSME1, TNFSF11, TNF, LTA, LTB, TNFRSF11A, TNFSF14, BIRC2
Reactome	HSA-140834	Extrinsic Pathway of Fibrin Clot	4	5	0.99	0.0448	F9, TFPI, F10, F7
Reactome	HSA-173736	Alternative complement activation	4	5	0.99	0.0448	C3, CFP, CFB, CFD
Reactome	HSA-75157	FasL/ CD95L signaling	4	5	0.99	0.0448	CASP10, FADD, CASP8, FAS
Reactome	HSA-8964026	Chylomicron clearance	4	5	0.99	0.0448	APOB, APOE, LDLRAP1, LDLR
Reactome	HSA-76009	Platelet Aggregation (Plug Formation)	10	39	0.5	0.0455	VWF, F2, FN1, PTPN1, SRC, APBB1IP, GP1BB, GP5, THPO, FGA
Reactome	HSA-418594	G alpha (i) signalling events	41	309	0.21	0.0458	C5, CCL13, CXCL6, PPP3R1, C3, CCL21, CCL27, PLCB2, PRKAR2A, APP, CXCL13, CXCL16, CXCL3, CXCL5, PPBP, PF4, INSL5, CXCL10, ITPR1, GPR37, CXCL11, CCL19, CCL20, PYY, PLA2G4A, RGS10, GNAS, SRC, ANXA1, CAMKK1, CCL25, PRKAR1A, PSAP, CXCL1, POMC, NPY, PYY, CCL5, CCL16, CCL123, CCL4
Reactome	HSA-5686938	Regulation of TLR by endogenous ligand	7	20	0.63	0.0458	LBP, APOB, LY96, TLR1, TLR4, CD36, FGA
Reactome	HSA-9660826	Purinergic signaling in leishmaniasis	8	26	0.58	0.0458	NFKB1, C3, NTSE, IL1B, IL18, APP, SUGT1, CASP1
Reactome	HSA-5357956	TNFR1-induced NFkappaB signaling	9	33	0.53	0.0496	TNFRSF1A, TRAF2, RNF31, TAB2, XIAP, TNF, OTUD7B, BIRC2, IKKBG

Supplementary Table 16: Association of BHBA and BCAAs with AD and AD pathology in the brain

Metabolite	MCI			BRAAK stage			CERAD score			AD		
	Beta	SE	Pval	Beta	SE	Pval	Beta	SE	Pval	Beta	SE	Pval
Beta-hydroxybutyrate	0.001546	0.0341	0.963844	<u>-0.04709</u>	<u>0.017504</u>	<u>0.007376</u>	-0.01266	0.016253	0.436323	-0.03453	0.034832	0.321478
Isoleucine	0.165811	0.532308	0.755425	<u>0.562796</u>	<u>0.22709</u>	<u>0.013526</u>	0.810762	<u>0.20766</u>	<u>0.000107</u>	0.98577	<u>0.457288</u>	<u>0.031108</u>
Leucine	0.196855	0.522937	0.70659	<u>0.555244</u>	<u>0.220267</u>	<u>0.012015</u>	0.848213	<u>0.200968</u>	<u>2.89E-05</u>	1.259008	<u>0.46225</u>	<u>0.006456</u>
Valine	0.280418	0.485191	0.563295	<u>0.602793</u>	<u>0.201939</u>	<u>0.002973</u>	0.794239	<u>0.184581</u>	<u>2.02E-05</u>	1.440622	<u>0.434317</u>	<u>0.00091</u>

Supplementary Table 17: Proteomic signatures of APOE, BHBA and Valine in the brain

	APOE				BoH				valine			
Protein	Beta	SE	Tval	Pval	Beta	SE	Tval	Pval	Beta	SE	Tval	Pval
SFRP1.Q8N474	0.3019853	0.054759	5.51479	6.83E-08	-0.03556	0.150041	-0.23697	0.812907	0.029415	0.042592	0.690608	0.490564
MDK.P21741	0.0930331	0.020588	4.518695	7.76E-06	-0.01155	0.053955	-0.21412	0.830594	-0.00561	0.016049	-0.34961	0.726867
HTRA1.Q92743	0.3958034	0.087714	4.512455	7.98E-06	-0.14698	0.223752	-0.65689	0.511736	-0.01944	0.066599	-0.29193	0.770538
NUP155.O75694	1.2393004	0.276929	4.475153	9.45E-06	-0.45193	0.696152	-0.64918	0.516702	0.304589	0.20651	1.474935	0.141245
SPOCK2.Q92563	0.5929381	0.139719	4.243792	2.62E-05	0.096613	0.356358	0.271112	0.786485	0.186102	0.105495	1.764092	0.078701
ADK.P55263	0.9816977	0.234651	4.183644	3.38E-05	-0.28401	0.610895	-0.46491	0.642322	0.149604	0.181595	0.823832	0.410669
THOC2.Q8NI27	0.7223756	0.176647	4.089384	5.03E-05	-0.1982	0.424354	-0.46706	0.640786	0.020943	0.126277	0.165851	0.868383
SMOC1.Q9H4F8	0.1524149	0.037372	4.078275	5.27E-05	-0.04397	0.09899	-0.44416	0.657237	0.010652	0.029451	0.361677	0.71784
APP.P05067	0.1597946	0.040284	3.966666	8.34E-05	0.054783	0.102557	0.534169	0.593607	0.000275	0.030523	0.009021	0.992808
GDF10.P55107	0.1540969	0.03962	3.889361	0.000118	-0.09658	0.105857	-0.91241	0.362436	-0.01819	0.032061	-0.56731	0.571016
MPP5.Q8N3R9	1.3804695	0.3588	3.847461	0.000135	0.425871	0.958118	0.444487	0.657	0.543255	0.28344	1.916654	0.056201
SOGA1.O94964.2	0.5922301	0.156415	3.786285	0.000177	-0.86189	0.433181	-1.98968	0.047747	0.118235	0.128561	0.919681	0.358652
CTHRC1.Q96CG8	0.1029697	0.027392	3.759168	0.000192	-0.00035	0.072207	-0.0048	0.996171	0.014684	0.022051	0.665918	0.505998
CIAO1.O76071	0.9700551	0.259586	3.736927	0.000208	-0.3845	0.66302	-0.57992	0.56239	0.634007	0.194031	3.267565	0.001207
DENND1A.Q8TEH3	-1.117451	0.301777	-3.70291	0.000237	0.33115	0.761488	0.434873	0.663957	-0.58964	0.22411	-2.63102	0.008938
RBM39.Q14498	0.5056759	0.137632	3.674111	0.000265	-0.21492	0.322344	-0.66673	0.505455	0.042751	0.095243	0.448862	0.653855
SEPT7.Q16181	-0.47767	0.131673	-3.62769	0.000315	0.415901	0.319681	1.300989	0.194229	-0.16869	0.094876	-1.77798	0.076387
ATP5A1.P25705	-0.75934	0.209897	-3.61767	0.000327	0.343509	0.576972	0.595366	0.552033	-0.0587	0.171705	-0.34189	0.732666
LINGO2.Q7L985	-0.707789	0.196997	-3.59289	0.000361	-0.22611	0.532733	-0.42444	0.671564	-0.09092	0.153771	-0.59124	0.554822
C12orf57.Q99622	-0.72089	0.20209	-3.56717	0.000395	-0.21081	0.493965	-0.42676	0.669847	-0.16899	0.146675	-1.15214	0.250153
CCAR1.Q8IX12	0.8316454	0.234266	3.550007	0.000421	-0.56896	0.532804	-1.06786	0.286414	0.052706	0.158763	0.331977	0.740131
RBM27.Q9P2N5	0.515544	0.144912	3.557637	0.000437	-0.12703	0.426341	-0.29794	0.766087	0.002003	0.125533	0.015953	0.98729
TBCEL.Q5QJ74	0.8168295	0.231221	3.532684	0.000449	-0.22034	0.593184	-0.37146	0.710548	0.282027	0.175773	1.604497	0.109623
THG1L.Q9NWX6	0.4092102	0.115881	3.531288	0.000462	0.027877	0.314502	0.08864	0.929441	0.045719	0.094916	0.481683	0.630461
RAD21.O60216	0.5238423	0.149339	3.507749	0.000492	0.021882	0.359756	0.060825	0.951538	0.056539	0.106973	0.52853	0.59751
SH3PXD2B.A1X283	0.4944446	0.140965	3.507562	0.000493	-0.22556	0.374767	-0.60186	0.54771	0.261641	0.110558	2.366563	0.018569
SYNPO.Q8N3V7	-0.378235	0.107983	-3.50271	0.000502	-0.01936	0.291706	-0.06635	0.947139	-0.556	0.080828	-6.87882	3.34E-11
TROVE2.P10155	0.7621867	0.217852	3.498648	0.000509	-0.66968	0.588243	-1.13844	0.255817	0.238521	0.174833	1.364278	0.17347
SMC3.Q9UQE7	0.4573939	0.131183	3.486681	0.000532	-0.12713	0.299887	-0.42393	0.671908	0.064632	0.089161	0.724893	0.469065
STX1B.P61266	-0.777438	0.223519	-3.47818	0.000549	1.18241	0.568798	2.078788	0.038459	-0.11268	0.170262	-0.66181	0.508584

FBXO41.Q8TF61	-0.675987	0.194653	-3.47278	0.000559	0.327508	0.498744	0.656667	0.511882	-0.23261	0.147882	-1.57292	0.116757
HIST1H1E.P10412	0.2757497	0.079487	3.469103	0.000567	-0.17101	0.196444	-0.87053	0.384684	0.132785	0.058022	2.288522	0.02278
COL25A1.Q9BXS0	0.0794591	0.02293	3.465308	0.000601	-0.03082	0.061515	-0.50107	0.616872	0.006555	0.017423	0.376209	0.707162
NUMA1.Q14980	0.5554549	0.161238	3.444937	0.000619	-0.24589	0.388069	-0.63363	0.526791	0.043782	0.115492	0.379095	0.704877
DLGAP1.A8MXQ8	-0.513601	0.148638	-3.45537	0.000623	0.027364	0.38024	0.071965	0.942701	-0.07106	0.105726	-0.67215	0.502257
PDS5B.Q9NTI5	0.5558662	0.162739	3.415699	0.000688	0.01254	0.370634	0.033835	0.973031	0.295379	0.108973	2.710561	0.007091
SH3GLB2.B7ZC38	-0.674656	0.197707	-3.4124	0.000696	0.30301	0.49701	0.609666	0.54253	-0.03992	0.147923	-0.26985	0.787454
STMN3.Q9NZ72	-0.501786	0.147262	-3.40744	0.000708	-0.02512	0.378742	-0.06632	0.947167	-0.34028	0.111	-3.06559	0.002364
C19orf26.K7EJP2	-0.417999	0.122242	-3.41944	0.000723	0.632418	0.365644	1.729602	0.085549	-0.17352	0.094063	-1.84476	0.066843
NUP54.Q7Z3B4	1.0083964	0.296525	3.400713	0.000725	0.669624	0.695978	0.962134	0.336732	0.224813	0.206957	1.08628	0.278199
SPOCK3.Q9BQ16	0.3204084	0.094656	3.384988	0.000767	-0.10044	0.2454	-0.4093	0.682605	0.105053	0.072778	1.44348	0.149895
MSH6.P52701	0.4320919	0.12781	3.380729	0.000783	0.230282	0.312478	0.736955	0.461737	0.134477	0.092921	1.447225	0.148899
ACTN1.P12814.3	-0.615254	0.182133	-3.37804	0.000787	-0.00924	0.428409	-0.02158	0.982798	-0.13167	0.127224	-1.03492	0.301512
TOM1L2.Q6ZVM7	-0.950612	0.281494	-3.37702	0.000789	0.147495	0.71687	0.205749	0.837122	-0.65582	0.209993	-3.12305	0.001959
PGAM2.P15259	0.1849742	0.05492	3.368053	0.000815	-0.11163	0.133885	-0.8338	0.405033	0.084886	0.039581	2.144638	0.032759
LZTS1.Q9Y250	-0.534195	0.158926	-3.36129	0.000835	-0.68939	0.394959	-1.74547	0.081893	-0.12633	0.117851	-1.07198	0.284563
SEPT5.Q99719	-0.567854	0.16985	-3.34327	0.00089	0.082544	0.433209	0.19054	0.849011	-0.17313	0.128504	-1.34724	0.178886
NTN1.O95631	0.0894546	0.026904	3.324909	0.000949	-0.05943	0.071912	-0.82649	0.409162	0.009832	0.021409	0.459246	0.646379
PLEKHM2.Q8IWE5	-0.852568	0.256549	-3.32322	0.000955	-0.38591	0.713934	-0.54054	0.589211	-0.60811	0.209657	-2.90052	0.003992
PPP1R9A.Q9ULJ8.5	-0.835534	0.251897	-3.31696	0.000976	0.101183	0.666448	0.151824	0.879425	-0.58398	0.19547	-2.98759	0.003036
SUPT6H.Q7KZ85	0.563843	0.171234	3.292819	0.001066	-0.20239	0.440798	-0.45914	0.646479	0.318457	0.128268	2.482737	0.013601
SHANK2.B7ZKU9	-0.454706	0.138198	-3.29024	0.001078	0.352959	0.339415	1.039907	0.29928	-0.15732	0.098504	-1.59708	0.111375
NRIP2.Q9BQI9	0.2835301	0.086235	3.287859	0.00108	-0.09307	0.211648	-0.43974	0.660431	0.154661	0.062366	2.479913	0.013672
LYPLAL1.Q5VWZ2	0.5281806	0.161761	3.265193	0.001168	-0.43242	0.409026	-1.05719	0.291246	-0.05918	0.121851	-0.4857	0.627521
CSTF3.Q12996	0.7725633	0.236759	3.263083	0.001177	-0.19634	0.548475	-0.35797	0.720612	0.035617	0.163183	0.218263	0.827368
SUPT4H1.P63272	0.5845928	0.180202	3.2441	0.001269	-0.16928	0.458725	-0.36903	0.712402	0.15172	0.132405	1.145875	0.252877
PACIN1.Q9BY11	-0.610303	0.189551	-3.21973	0.001366	-0.05479	0.470064	-0.11655	0.907291	-0.1621	0.139535	-1.16175	0.246232
PSMB5.P28074	0.9663068	0.300295	3.217861	0.001375	-1.14865	0.7623	-1.50682	0.132875	0.206597	0.227297	0.90893	0.364093
BZW1.Q7L1Q6	0.7664621	0.238437	3.214524	0.00139	-1.26477	0.636144	-1.98818	0.047671	0.320994	0.18957	1.693274	0.091408
SDHB.P21912	-0.698901	0.217543	-3.2127	0.001399	0.966123	0.60807	1.588835	0.113117	0.260227	0.181023	1.437538	0.151574
STXBP1.P61764.2	-0.500537	0.156104	-3.20643	0.001429	0.665985	0.39493	1.686339	0.092737	-0.16362	0.117656	-1.39064	0.165333
HIST2H2BF.Q5QNW6	0.3020865	0.094334	3.202296	0.00145	-0.05001	0.221708	-0.22556	0.821695	0.0538	0.065889	0.81653	0.414824
SF3B3.Q15393	0.870986	0.272594	3.195176	0.001485	0.018958	0.608752	0.031143	0.975175	0.331555	0.180111	1.840833	0.066602
DBR1.Q9UK59	0.4786862	0.149832	3.194819	0.001502	-0.50884	0.373081	-1.3639	0.173744	0.241358	0.113372	2.128896	0.034175

SPTBN4.Q9H254	0.9979515	0.313165	3.186661	0.001529	0.207337	0.839311	0.247033	0.805046	0.315156	0.249062	1.265369	0.206689
DDAH2.O95865	0.4729253	0.148538	3.18387	0.001543	-0.63133	0.377093	-1.67421	0.095099	0.167408	0.112283	1.490948	0.136992
MYO9B.M0R0P8	0.3863411	0.121327	3.184305	0.001548	-0.4425	0.317691	-1.39288	0.164734	0.108084	0.095303	1.134109	0.257695
DHX15.O43143	0.6524597	0.205174	3.180033	0.001563	0.013562	0.467046	0.029038	0.976853	0.322432	0.137726	2.341114	0.01986
NUP133.Q8WUM0	0.9011801	0.283927	3.173981	0.001596	-0.36282	0.682484	-0.53162	0.595372	0.223847	0.202721	1.104214	0.270357
SLIT2.O94813.2	0.3510536	0.110601	3.174043	0.001597	0.049577	0.283498	0.174878	0.861292	-0.02925	0.084514	-0.34607	0.729528
PCDHAC2.Q9Y5I4	-0.758928	0.241075	-3.1481	0.001741	0.395624	0.647595	0.610913	0.541705	-0.36554	0.191643	-1.9074	0.057393
PARP1.P09874	0.5413847	0.172557	3.137427	0.001804	-0.16621	0.43691	-0.38043	0.703885	0.170455	0.129642	1.31481	0.189545
ALS2.Q96Q42	0.8524556	0.271811	3.136202	0.001811	0.295906	0.630633	0.469221	0.639241	0.340361	0.186671	1.823325	0.069217
KDSR.Q06136	0.6434524	0.205577	3.129984	0.00185	0.063909	0.562015	0.113714	0.909539	0.136892	0.167012	0.819653	0.413044
ATP5B.P06576	-0.612109	0.195742	-3.12713	0.001867	0.93025	0.548468	1.696089	0.090873	-0.04802	0.163892	-0.293	0.76972
MPST.P25325.2	0.578668	0.185055	3.127006	0.001868	-0.03744	0.472615	-0.07922	0.936911	0.255516	0.139845	1.827135	0.068641
GLIPR2.Q9H4G4	0.2251864	0.072049	3.125475	0.001878	0.11588	0.185499	0.624696	0.53263	0.068952	0.055078	1.251898	0.211551
S1PR1.P21453	0.44104	0.141278	3.121781	0.001901	-0.54468	0.356737	-1.52683	0.127823	0.019509	0.106515	0.18316	0.854792
ERGIC3.H0Y5K5	0.7979405	0.255986	3.117125	0.001934	-0.4956	0.66765	-0.7423	0.458486	0.37603	0.196174	1.916815	0.056211
RPS6KC1.Q96S38	-0.976333	0.31334	-3.11589	0.001938	1.793483	0.783296	2.289663	0.022713	0.03419	0.234971	0.145506	0.884406
GPNMB.Q14956	0.141277	0.045388	3.112638	0.001963	-0.10381	0.120599	-0.86079	0.390035	-0.00572	0.036113	-0.15846	0.874198
ILF2.B4DY09	0.6417239	0.206489	3.107789	0.001991	-0.21081	0.479594	-0.43956	0.66056	0.132575	0.142516	0.930241	0.35297
ACTN2.P35609.2	-0.410948	0.132306	-3.10604	0.002003	0.059028	0.320707	0.184056	0.85409	-0.09101	0.09527	-0.9553	0.340168
ARHGEF9.O43307	-0.78597	0.253617	-3.09904	0.00205	0.36307	0.634123	0.572555	0.567361	-0.21042	0.188361	-1.1171	0.264816
CMAS.Q8NFW8	0.7776325	0.251235	3.095246	0.002076	-0.33912	0.617842	-0.54888	0.583482	0.173371	0.183622	0.944171	0.345817
LEO1.Q8WVC0	0.3911208	0.126223	3.098645	0.002092	-0.36892	0.344349	-1.07134	0.285157	0.33168	0.098532	3.366212	0.000895
ACTL6A.O96019	0.4544394	0.146823	3.095145	0.002107	-0.30456	0.410352	-0.74218	0.458696	0.411351	0.116507	3.530699	0.000496
ANKRD24.Q8TF21	-0.60288	0.195394	-3.08546	0.002144	-0.45498	0.490721	-0.92717	0.354558	-0.15682	0.145911	-1.07478	0.283308
SYT7.O43581.2	-0.458368	0.148616	-3.08424	0.002153	-0.33611	0.36121	-0.93052	0.352827	-0.2599	0.106586	-2.43836	0.015315
LMO7.F8WD26	-0.547029	0.177615	-3.07985	0.002184	0.487912	0.466974	1.044836	0.296913	-0.62017	0.134629	-4.60652	5.99E-06
H2AFV.Q71UI9	0.3124322	0.101547	3.076728	0.002207	-0.15289	0.236021	-0.64778	0.517605	0.067783	0.070154	0.966208	0.334693
KPNB1.Q14974	0.9790317	0.318832	3.070683	0.002251	-2.01271	0.939579	-2.14214	0.032961	1.073124	0.274893	3.90378	0.000116
POLR2A.A0A0C4DGZ0	0.6872414	0.224178	3.065609	0.002289	-0.40014	0.538518	-0.74305	0.458015	-0.0223	0.160337	-0.13906	0.889489
TPR.P12270	0.9222122	0.30105	3.063315	0.002306	0.395816	0.68587	0.5771	0.564291	0.24979	0.20365	1.226562	0.220918
RECQL.P46063	0.510108	0.166569	3.062439	0.002313	-0.28338	0.428074	-0.66199	0.508469	0.276622	0.126462	2.187388	0.029461
ATP5C1.P36542.2	-0.46328	0.151377	-3.06044	0.002328	0.506537	0.398811	1.270118	0.204995	-0.10017	0.118812	-0.84307	0.39984
TECR.Q9NZ01	0.6642474	0.217046	3.060406	0.002328	0.356801	0.540719	0.659864	0.509831	-0.05891	0.160933	-0.36606	0.714567
DDX39B.Q13838	0.7050417	0.231244	3.048902	0.002418	-0.3975	0.529219	-0.7511	0.453161	0.227743	0.157045	1.45018	0.148019

OSBPL3.Q9H4L5	-0.542612	0.178242	-3.04424	0.002455	-0.06338	0.434292	-0.14594	0.884061	-0.21911	0.128598	-1.70388	0.089406
SYNGAP1.Q96PV0	-0.531921	0.17481	-3.04286	0.002466	0.181336	0.421914	0.429794	0.667644	-0.30083	0.124381	-2.41862	0.016155
SST.P61278	-0.173912	0.057163	-3.0424	0.002469	0.061349	0.139505	0.439763	0.660415	-0.06713	0.041338	-1.62401	0.105389
CLMN.Q96JQ2	0.379607	0.124944	3.038209	0.002503	0.156093	0.327292	0.476923	0.633753	0.187151	0.096818	1.933029	0.054143
ATP2B1.P20020.4	-0.753382	0.248637	-3.03005	0.002571	0.134334	0.628316	0.213799	0.830844	-0.02817	0.18692	-0.1507	0.880312
TAF9.Q16594	0.5224264	0.172098	3.035625	0.002607	-0.16424	0.43019	-0.38178	0.703056	0.05478	0.120904	0.453089	0.65101
SLC1A2.P43004	-0.27651	0.091548	-3.02038	0.002653	0.05479	0.238723	0.229512	0.818622	-0.34995	0.068184	-5.1325	5.06E-07
LOH12CR1.Q969J3	-0.75162	0.248859	-3.02027	0.002654	0.299227	0.633839	0.472086	0.637198	-0.17327	0.188367	-0.91987	0.358356
MARCKSL1.P49006	0.3997152	0.132484	3.017075	0.002681	0.159446	0.335156	0.475736	0.634597	-0.06186	0.099677	-0.62061	0.535312
NUDT1.P36639	0.4446677	0.147489	3.014916	0.0027	0.571684	0.387728	1.474445	0.141377	-0.06056	0.115695	-0.52346	0.601027
HIST1H4A.P62805	0.1441548	0.047823	3.01436	0.002705	-0.13278	0.120805	-1.09915	0.272556	0.082115	0.035704	2.299887	0.022119
NUP37.Q8NFH4	0.6402508	0.212533	3.012479	0.002724	0.057494	0.508785	0.113003	0.910102	0.390955	0.150314	2.600923	0.009746
PDHA1.P08559	-0.59494	0.197552	-3.01156	0.00273	0.26755	0.517542	0.516962	0.605551	-0.10516	0.15391	-0.68325	0.49496
CCDC149.Q6ZUS6.4	-0.430712	0.142928	-3.01349	0.002743	-0.37974	0.386302	-0.98301	0.326561	-0.12339	0.114264	-1.07984	0.28126
ZNF512.Q96ME7	0.5118018	0.170139	3.008137	0.00276	-0.17982	0.425007	-0.4231	0.672517	0.275695	0.125495	2.196851	0.028771
RCC1.P18754	0.6017761	0.200074	3.007765	0.002763	-0.19204	0.482182	-0.39828	0.690698	0.119657	0.143316	0.834918	0.404407
SLC4A10.C9J240	-0.203702	0.067735	-3.00733	0.002797	0.104225	0.173509	0.60069	0.548585	-0.12227	0.049627	-2.46388	0.01441
TJP2.Q9UDY2	0.2761801	0.092174	2.99628	0.002868	-0.02546	0.235749	-0.108	0.914067	-0.02653	0.070116	-0.37835	0.70543
MAP2.P11137.3	-0.387433	0.129349	-2.99525	0.002877	-0.04078	0.345238	-0.11813	0.906044	-0.52976	0.098198	-5.39479	1.36E-07
PGM3.O95394	0.5723237	0.191087	2.995102	0.002878	-0.35481	0.502769	-0.70571	0.480902	0.323873	0.148551	2.180222	0.029993
KIF27.Q86VH2	0.2083193	0.069572	2.994305	0.002911	-0.01216	0.191362	-0.06357	0.949361	0.095497	0.054947	1.737987	0.083388
SORD.Q00796	0.4359239	0.145729	2.991342	0.002914	-0.14611	0.369696	-0.39522	0.69295	0.231371	0.109218	2.118427	0.034934
NR2C2.P49116	0.5237781	0.175208	2.989457	0.002941	-0.05585	0.437327	-0.1277	0.898474	0.16696	0.128873	1.295541	0.196157
YLPM1.P49750.4	0.2816167	0.094309	2.98611	0.002963	0.051431	0.24442	0.21042	0.833478	0.082767	0.072564	1.14062	0.254909
GMPR2.A0A087WWM4	0.4890394	0.163917	2.983466	0.002988	0.706613	0.429279	1.646049	0.100767	0.255332	0.127437	2.003589	0.045984
KRAS.P01116	-0.644177	0.216143	-2.98033	0.003018	0.329667	0.568157	0.580239	0.562175	-0.10459	0.169004	-0.61889	0.536445
CTCF.P49711	0.3760579	0.126165	2.980687	0.003047	0.112456	0.299098	0.375984	0.707243	0.111547	0.08772	1.271625	0.20467
ICA1L.F8WBQ1	-0.62179	0.208902	-2.97647	0.003056	0.787744	0.539332	1.460592	0.14514	-0.12009	0.160848	-0.74662	0.455856
DEK.P35659	0.3758959	0.12644	2.972929	0.003091	0.104741	0.295997	0.353858	0.723686	0.106585	0.087863	1.213079	0.226023
RGS7.P49802	-0.782097	0.263087	-2.97276	0.003093	0.260824	0.675434	0.386157	0.699645	-0.35707	0.199952	-1.78579	0.075111
SDE2.Q6IQ49	0.2816663	0.094667	2.975349	0.003158	-0.1519	0.214208	-0.7091	0.479148	0.055845	0.065089	0.857979	0.392008
PRPF40A.O75400	0.5361251	0.180841	2.964625	0.003174	-0.21239	0.39703	-0.53494	0.593074	0.046709	0.118134	0.395389	0.692828
CD44.P16070	0.1364503	0.046084	2.960935	0.003212	-0.139	0.119177	-1.16632	0.24438	0.033825	0.035479	0.953386	0.341137
HUWE1.Q7Z6Z7	1.2160589	0.411346	2.956294	0.00326	-0.02783	1.124297	-0.02475	0.980267	0.447026	0.333494	1.340434	0.181086

ITPR2.Q14571	0.4658198	0.157896	2.950175	0.003324	-0.20916	0.449914	-0.46488	0.642344	0.081355	0.133808	0.607995	0.543636
STAG1.Q8WVM7	0.4068223	0.137981	2.948395	0.003371	-0.11918	0.329729	-0.36145	0.718044	0.10109	0.103143	0.980097	0.327916
H3F3B.P84243	0.13937	0.047334	2.944376	0.003385	-0.1486	0.120338	-1.23482	0.217833	0.094188	0.035485	2.654285	0.008358
GNB5.O14775	-0.70829	0.241117	-2.93753	0.00346	0.81528	0.626026	1.302311	0.193777	-0.10048	0.186653	-0.53835	0.590722
PTK2.Q05397	-1.019705	0.347743	-2.93235	0.003517	0.69881	0.845639	0.826369	0.40923	0.005006	0.25184	0.019879	0.984153
PICK1.Q9NRD5	-0.750893	0.256291	-2.92984	0.003545	1.032373	0.597929	1.726582	0.085239	-0.18235	0.178426	-1.02199	0.307581
KIAA1549L.Q6ZVL6	-0.504709	0.1723	-2.92924	0.003552	-0.24279	0.446808	-0.54338	0.587257	-0.17376	0.132614	-1.31028	0.19107
C7orf55.LUC7L2.Q9Y383	0.4477418	0.152916	2.928026	0.003566	0.27559	0.362809	0.759602	0.44807	0.151977	0.107684	1.41132	0.159153
SEZ6L2.Q6UXD5	0.2865193	0.097823	2.928943	0.003587	-0.55891	0.275149	-2.0313	0.043246	0.195033	0.081264	2.399994	0.017102
APCS.P02743	0.1028016	0.035136	2.925819	0.00359	-0.06135	0.089833	-0.68289	0.495188	0.064073	0.026495	2.418296	0.016169
PAK1.Q13153	-0.516859	0.176723	-2.92469	0.003603	0.275821	0.453117	0.60872	0.543156	-0.16642	0.134543	-1.23691	0.217056
SNX27.Q96L92	0.9600764	0.328573	2.92196	0.003635	0.815703	0.817288	0.99806	0.319029	0.565078	0.241395	2.340885	0.019872
MTMR6.Q9Y217	-0.695631	0.238151	-2.92097	0.003646	-0.01924	0.562439	-0.03422	0.972727	-0.00372	0.167316	-0.02222	0.982287
PPP3CA.Q08209.2	-0.863103	0.295743	-2.91842	0.003675	0.791849	0.737801	1.073255	0.283991	0.034438	0.219881	0.156619	0.875647
KCNN3.A0A087WYJ0	0.4350807	0.149226	2.915584	0.003708	-0.33702	0.426675	-0.78987	0.43021	0.205071	0.126521	1.62085	0.106067
ASAP1.Q9ULH1	-0.628825	0.215986	-2.91141	0.003757	-0.22616	0.561652	-0.40266	0.687473	-0.24468	0.166547	-1.46915	0.142806
SLC30A3.Q99726	-0.385423	0.132523	-2.90836	0.003794	-0.48496	0.334117	-1.45148	0.147657	-0.14436	0.099394	-1.45241	0.1474
RBMS3.C9JIJ9	-0.621094	0.213051	-2.91524	0.003816	0.339983	0.560665	0.606392	0.544971	-0.18954	0.170701	-1.11038	0.268223
MBD1.Q9UIS9	0.3575103	0.122947	2.907842	0.00383	-0.18691	0.306297	-0.61024	0.542239	-0.11318	0.091067	-1.24283	0.215054
TGOLN2.O43493	0.6006639	0.206844	2.903949	0.003847	0.514228	0.53683	0.957898	0.338861	0.009319	0.159933	0.058269	0.953572
BDH2.Q9BUT1	0.2948797	0.101688	2.899843	0.003896	-0.5907	0.255233	-2.31435	0.021302	0.091833	0.076403	1.201958	0.230297
MSN.P26038	0.4630096	0.159754	2.898271	0.003916	-0.57647	0.437231	-1.31845	0.188327	-0.01528	0.13043	-0.11716	0.906807
MTSS1.O43312	0.3809613	0.13145	2.898154	0.003923	-0.19328	0.352619	-0.54813	0.584006	0.124545	0.104485	1.191994	0.234202
ANKS1B.Q7Z6G8.3	-0.402316	0.138975	-2.89489	0.003957	0.053531	0.356031	0.150356	0.880582	-0.23221	0.105093	-2.20957	0.027866
TMEM115.Q12893	0.4186713	0.144962	2.888151	0.00406	-0.01851	0.374592	-0.0494	0.960632	0.05988	0.112799	0.530851	0.595941
OPA1.O60313.2	-0.614713	0.213186	-2.88346	0.004101	0.50928	0.630048	0.808319	0.419527	-0.14709	0.18744	-0.78473	0.433211
SMARCE1.Q969G3	0.7318121	0.253822	2.88317	0.004105	-0.07615	0.592843	-0.12844	0.897881	0.17817	0.176074	1.011901	0.312375
NUP88.Q99567	0.6432179	0.223521	2.877667	0.004176	-0.07031	0.535632	-0.13126	0.895651	0.195463	0.158958	1.22965	0.219761
GRHPR.Q9UBQ7	0.6247375	0.217478	2.872643	0.004242	0.4344	0.560398	0.775165	0.438833	0.075939	0.166814	0.455232	0.649261
BHMT.Q93088	-0.186229	0.064849	-2.87172	0.004263	-0.04666	0.164505	-0.28365	0.776874	-0.01488	0.049451	-0.30095	0.763663
FTH1.P02794	0.2335343	0.081344	2.87096	0.004264	-0.08703	0.208937	-0.41655	0.677297	-0.05997	0.062079	-0.96604	0.334775
SLC27A4.Q6P1M0	-0.773619	0.269907	-2.86624	0.004327	0.649492	0.697727	0.930869	0.352646	-0.3207	0.207052	-1.54888	0.122432
NIF3L1.Q9GZT8.3	0.5711589	0.19932	2.865536	0.004337	-0.38745	0.495139	-0.78251	0.434513	0.156551	0.147172	1.06373	0.288279
GABRA2.E9PBQ7	-0.495442	0.173051	-2.86298	0.004371	0.250898	0.444445	0.56452	0.572809	-0.32001	0.131028	-2.44231	0.015152

RFTN1.Q14699	-0.510369	0.178276	-2.8628	0.004374	-0.85353	0.496027	-1.72074	0.086295	-0.09829	0.148157	-0.66344	0.50754
MCAM.P43121	0.3070617	0.107401	2.859025	0.004426	-0.05697	0.259373	-0.21963	0.8263	-0.0535	0.077105	-0.69391	0.488258
CORO7.P57737.3	-0.917837	0.321288	-2.85674	0.004457	0.596128	0.829278	0.718851	0.472774	-0.17228	0.246707	-0.69832	0.485499
AKAP5.P24588	-0.37132	0.130005	-2.8562	0.004464	-0.09863	0.331019	-0.29795	0.765939	-0.23607	0.09757	-2.41948	0.016118
TUSC2.O75896	-0.78654	0.27603	-2.84947	0.004564	0.716606	0.698442	1.026007	0.305715	0.148072	0.20647	0.717161	0.473833
PHF5A.Q7RTV0	0.5648079	0.198303	2.84821	0.004576	-0.46371	0.456257	-1.01634	0.310259	0.206747	0.135446	1.526412	0.127927
SLC25A13.Q9UJS0	0.4804809	0.16873	2.847632	0.004584	0.467514	0.45412	1.029494	0.30405	0.232259	0.134679	1.724536	0.085608
SEPT5.G3XAH0	-0.324501	0.114076	-2.8446	0.004628	-0.06444	0.272463	-0.23652	0.813187	-0.24732	0.079834	-3.09793	0.002127
HNMT.P50135	0.2476462	0.087093	2.843477	0.004644	-0.35065	0.216802	-1.61736	0.106817	0.036938	0.064732	0.570621	0.56867
EIF2B4.Q9UI10.2	0.7554352	0.265721	2.842967	0.004651	-1.43516	0.707136	-2.02954	0.043257	0.579261	0.209182	2.769172	0.005958
NRBP1.F8W6G1	-0.613257	0.21584	-2.84126	0.004676	0.974661	0.577572	1.687514	0.09251	0.019439	0.172601	0.112622	0.910403
TIA1.F8W8I6	0.3622093	0.127474	2.841429	0.004679	0.252644	0.300104	0.841854	0.400542	0.049017	0.090832	0.53965	0.58984
NECAP1.Q8NC96	-0.528196	0.185997	-2.8398	0.004697	0.279319	0.493828	0.56562	0.572061	-0.6353	0.142483	-4.45878	1.15E-05
FTL.P02792	0.1539461	0.054251	2.837639	0.004728	-0.13029	0.136373	-0.95541	0.340113	-0.04605	0.040544	-1.13571	0.256955
BLMH.Q13867	0.685171	0.241514	2.836978	0.004738	-0.23501	0.58317	-0.40298	0.68724	0.486796	0.171312	2.841582	0.004786
MCTS1.Q9ULC4	-0.45141	0.159296	-2.83378	0.004785	0.283847	0.406753	0.697837	0.485802	0.001479	0.121097	0.012211	0.990265
METTL3.Q86U44	0.3437986	0.121385	2.832301	0.004806	-0.19354	0.309052	-0.62622	0.531629	-0.04441	0.091961	-0.48294	0.629481
PDE8A.O60658	0.2537191	0.089519	2.834252	0.00482	-0.13846	0.252469	-0.54842	0.583894	0.020262	0.074416	0.272281	0.785632
DNAJC12.Q9UKB3	0.3111046	0.109903	2.830716	0.004836	-0.14433	0.27608	-0.52277	0.601516	0.149376	0.081862	1.824743	0.069028
MTMR10.Q9NXD2	0.4242428	0.149958	2.829073	0.004854	-0.44388	0.397146	-1.11767	0.264574	0.303039	0.117124	2.587337	0.010127
DNAJC19.Q96DA6	-0.548774	0.194093	-2.82738	0.00488	-0.0113	0.506124	-0.02232	0.982206	-0.12429	0.150398	-0.82638	0.409225
THOC6.Q86W42	0.5131402	0.181293	2.830453	0.004886	-0.73027	0.477941	-1.52796	0.127828	0.13931	0.139629	0.997717	0.319413
PAICS.P22234	0.6602237	0.233567	2.826701	0.00489	-0.55443	0.583753	-0.94976	0.342973	0.270018	0.173231	1.558717	0.120084
FLT1.P17948	0.1965484	0.06958	2.824799	0.004919	-0.13516	0.172649	-0.78283	0.434324	0.034799	0.051373	0.677372	0.498675
PAFAH1B3.Q15102	0.3847722	0.136213	2.824787	0.004919	0.019445	0.338631	0.057424	0.954245	0.236448	0.099838	2.368314	0.018482
CDKN2C.P42773	0.4087536	0.14454	2.82796	0.004929	-0.16793	0.431007	-0.38963	0.697152	-0.05102	0.127971	-0.3987	0.690464
RPP30.P78346	0.2267544	0.080574	2.814229	0.005104	-0.44502	0.306771	-1.45065	0.148013	-0.06107	0.091392	-0.66818	0.504575
PDHB.P11177	-0.490465	0.174487	-2.8109	0.005133	0.665115	0.472498	1.407657	0.160234	-0.04514	0.140985	-0.32021	0.749026
ILKAP.Q9HOC8	0.5676385	0.201983	2.810329	0.005148	-0.5956	0.461339	-1.29102	0.197688	0.194397	0.136583	1.423288	0.155688
PRDX4.Q13162	0.3107916	0.110624	2.809442	0.005156	-0.18481	0.238258	-0.77566	0.43854	0.027786	0.070929	0.39175	0.695512
ARFIP2.P53365	-0.791451	0.281815	-2.8084	0.005172	0.761954	0.748422	1.018081	0.309433	-0.13962	0.222873	-0.62645	0.531482
SMAD5.Q99717	0.5069932	0.180845	2.803468	0.00526	-0.93411	0.48403	-1.92987	0.054572	-0.0081	0.144168	-0.05616	0.955249
PALM.O75781	-0.567726	0.202604	-2.80215	0.005272	0.660733	0.534199	1.236868	0.217072	-0.4143	0.157559	-2.62951	0.008977
ACTN2.P35609	-0.238894	0.085406	-2.79717	0.005352	0.160497	0.214206	0.749265	0.454266	-0.11218	0.063461	-1.76771	0.078092

SUMO2.P61956	0.5250025	0.187665	2.797547	0.005353	-0.17704	0.472078	-0.37502	0.707913	0.104413	0.137301	0.760467	0.447579
CSRP1.P21291	0.3481049	0.124531	2.795317	0.005383	-0.24264	0.329772	-0.73579	0.462418	0.004672	0.098187	0.047588	0.962075
PLAT.P00750	-0.256508	0.091671	-2.79812	0.005408	-0.33825	0.253839	-1.33255	0.18401	-0.00988	0.072399	-0.13648	0.891561
CADM4.Q8NFZ8	0.4772224	0.17083	2.793554	0.005412	0.171633	0.427402	0.401572	0.688276	0.063207	0.127127	0.497198	0.619402
USP54.Q70EL1	0.2982333	0.106853	2.791052	0.00546	-0.07877	0.269908	-0.29182	0.770621	0.032145	0.080425	0.399686	0.689671
NRN1.A0A087WWT2	-0.250356	0.089773	-2.78876	0.005491	0.1855	0.229793	0.807248	0.420143	-0.0595	0.068348	-0.87053	0.384687
ZNF800.Q2TB10	0.3531304	0.126611	2.789107	0.005527	-0.36732	0.321913	-1.14105	0.2549	0.127358	0.096585	1.318609	0.18846
AP3B2.Q13367	-0.710294	0.25492	-2.78634	0.005532	0.243988	0.649693	0.375543	0.707514	-0.23113	0.19287	-1.19837	0.231689
NFIC.P08651	0.3866744	0.138765	2.786535	0.005535	0.138272	0.33186	0.416658	0.677226	0.037994	0.098312	0.386469	0.699423
HP1BP3.Q5SSJ5	0.4550984	0.163722	2.779695	0.005644	-0.28677	0.40279	-0.71197	0.47702	-0.00381	0.119921	-0.03181	0.974644
EMC8.O43402	0.7265607	0.261605	2.777317	0.005685	-0.74193	0.668967	-1.10907	0.268258	0.300129	0.19867	1.51069	0.131886
NCL.P19338	0.5328161	0.192245	2.771548	0.005785	-0.1947	0.468779	-0.41533	0.678188	-0.19562	0.139049	-1.40682	0.160483
DBN1.Q16643.3	-0.669489	0.242025	-2.76619	0.00588	0.574662	0.62356	0.921582	0.357463	-0.41294	0.184266	-2.24099	0.025734
DOCK5.Q9H7D0	0.2496354	0.090271	2.765386	0.005901	-0.09876	0.240261	-0.41104	0.68134	0.112866	0.069643	1.620649	0.106154
PADI2.Q9Y2J8	0.2491486	0.090122	2.764562	0.005909	0.157345	0.232575	0.676536	0.499205	0.132431	0.068828	1.924084	0.055259
CTNNA3.Q9UI47	0.2082351	0.075433	2.760534	0.005981	0.059324	0.194278	0.305358	0.760299	0.081358	0.057618	1.41203	0.158944
TPGS2.Q68CL5.1	-0.42314	0.15352	-2.75625	0.00608	0.299713	0.379035	0.790727	0.429766	0.031972	0.111699	0.28623	0.774911
SYT7.F5H126	-0.572873	0.208216	-2.75134	0.006149	-0.2115	0.512168	-0.41294	0.679935	-0.14421	0.152183	-0.94762	0.344063
NFIX.Q14938.5	0.3660002	0.133143	2.748924	0.006194	-0.09851	0.313374	-0.31436	0.753458	0.113889	0.093013	1.224437	0.221717
ALG1.Q9BT22	0.4008619	0.145884	2.747811	0.006222	-0.59269	0.371946	-1.5935	0.112095	0.104793	0.111145	0.942853	0.346509
SNX8.Q9Y5X2	0.4941009	0.179734	2.749061	0.006226	-0.10904	0.544	-0.20043	0.841295	0.186942	0.157568	1.186421	0.236519
ARL8A.Q96BM9	0.4589432	0.167204	2.744807	0.006271	-0.24391	0.449524	-0.54259	0.587801	0.177026	0.133411	1.326926	0.18551
RBM28.Q9NW13	0.4579497	0.167152	2.739713	0.006413	-0.1056	0.411314	-0.25674	0.797588	0.050901	0.120349	0.422942	0.672691
KIAA0196.Q12768	0.775711	0.283624	2.734994	0.006458	-0.98918	0.775876	-1.27492	0.203292	0.733943	0.227628	3.224303	0.001397
PACS1.Q6VY07	-0.853931	0.312914	-2.72897	0.006575	-0.47658	0.766574	-0.6217	0.534596	-0.4472	0.226766	-1.97207	0.049491
YES1.J3QRU1	0.417978	0.15317	2.728843	0.006578	-0.50539	0.392443	-1.2878	0.198778	0.170338	0.116656	1.460171	0.145256
EPB41.P11171	0.3651965	0.133902	2.72735	0.006607	0.156118	0.316799	0.492798	0.622504	0.055875	0.094226	0.592991	0.55362
EPHX1.P07099	0.2800455	0.102698	2.726874	0.006617	-0.66667	0.275237	-2.42217	0.016001	-0.06932	0.082556	-0.83974	0.401703
EXD2.Q9NVH0	0.5691332	0.208951	2.723769	0.006678	-0.38426	0.544461	-0.70576	0.480867	0.493369	0.159657	3.090176	0.002182
OPLAH.O14841	0.5377532	0.197514	2.722604	0.006701	-0.327	0.520707	-0.628	0.530466	0.25003	0.154348	1.619912	0.106268
STX1A.Q16623	-0.404828	0.148719	-2.7221	0.006711	0.21415	0.367887	0.582108	0.560917	-0.16821	0.109082	-1.54207	0.124077
SMC1A.Q14683	0.4979487	0.183134	2.719035	0.006773	-0.30471	0.427276	-0.71314	0.476297	0.183511	0.126784	1.447434	0.148786
TSPO.P30536	0.3261339	0.119956	2.718779	0.006778	-0.37532	0.305008	-1.23051	0.219438	-0.10246	0.09077	-1.12876	0.259871
DUSP22.Q9NRW4.2	0.3275847	0.120736	2.713232	0.006906	-0.58588	0.320985	-1.82526	0.06898	0.186037	0.096503	1.927796	0.054847

LUC7L3.J3KPP4	0.4070299	0.150062	2.712409	0.006908	-0.14259	0.353582	-0.40326	0.687033	0.171645	0.104759	1.638468	0.102339
TRMT1L.Q7Z2T5	0.4567287	0.168127	2.716564	0.006927	-0.48748	0.458366	-1.06351	0.288732	0.128858	0.13787	0.934636	0.351015
SEPT3.Q9UH03.2	-0.494434	0.182364	-2.71124	0.006932	-0.05118	0.451321	-0.11341	0.909779	-0.06483	0.134212	-0.48304	0.629411
RAB28.P51157	0.6523145	0.240807	2.708866	0.006981	-0.28701	0.594658	-0.48265	0.629686	-0.02647	0.17696	-0.14957	0.881205
S100A6.P06703	0.2047923	0.07561	2.708538	0.006988	-0.10616	0.204476	-0.51917	0.60401	0.107823	0.060545	1.780857	0.075915
GOPC.Q9HD26	-0.689601	0.254909	-2.70529	0.007056	0.749213	0.660485	1.134338	0.257529	-0.03431	0.19688	-0.17429	0.861755
SUN2.Q9UH99	0.370829	0.137084	2.705122	0.007059	0.52105	0.344605	1.512022	0.131547	-0.144	0.102566	-1.40402	0.161314
WDR12.Q9GZL7	0.4483384	0.165672	2.706182	0.00706	-0.34928	0.40768	-0.85676	0.392302	0.211296	0.120696	1.750642	0.081091
SLC4A7.Q9Y6M7.13	-0.281019	0.103895	-2.70484	0.007136	0.107154	0.303151	0.353468	0.724048	0.018939	0.089497	0.211611	0.83259
UBA6.A0AVT1	0.7833497	0.290817	2.693613	0.007304	-0.85777	0.787804	-1.08881	0.277083	0.714085	0.231276	3.087582	0.0022
PPFIA3.O75145	-0.860421	0.31969	-2.69142	0.007351	1.190002	0.818312	1.454215	0.146898	-0.10931	0.244183	-0.44764	0.654726
DOCK4.Q8N110	-0.592288	0.220117	-2.69078	0.007365	0.210942	0.582577	0.362085	0.717535	-0.46712	0.171301	-2.72693	0.006757
FTSJ3.Q8IY81	0.51862	0.192525	2.693775	0.007366	0.519345	0.550649	0.94315	0.346545	0.177469	0.165266	1.073842	0.283963
DNM1.Q05193.2	-0.73792	0.274509	-2.68814	0.007423	0.333434	0.700904	0.47572	0.634609	0.32041	0.207787	1.542009	0.124092
PAK1P1.Q9NWT1	0.6091432	0.225522	2.701033	0.007431	-0.52629	0.614007	-0.85714	0.392781	0.280483	0.175534	1.597888	0.112245
KIAA1462.Q9P266	-0.581377	0.216349	-2.68721	0.007443	-0.54566	0.582274	-0.93712	0.349426	-0.74301	0.16825	-4.41609	1.39E-05
KIF13B.Q9NQT8	0.5224495	0.194506	2.686029	0.007469	-0.25471	0.511675	-0.4978	0.618979	0.194896	0.151872	1.283291	0.200349
HIST3H2BB.Q8N257	0.219805	0.081985	2.681025	0.00758	-0.18803	0.193508	-0.97168	0.331967	0.064673	0.057536	1.124049	0.261862
DPP3.G3V180	0.5468129	0.204311	2.676373	0.007685	0.222223	0.512395	0.433695	0.664811	0.12015	0.152322	0.788786	0.43084
SLC22A5.O76082	0.3948543	0.147664	2.673996	0.0078	0.074682	0.365178	0.204508	0.838119	0.034492	0.109234	0.31576	0.752442
NFYC.E9PI99	0.3585922	0.134029	2.675474	0.007806	-0.37657	0.335989	-1.12077	0.263646	0.052143	0.099731	0.522834	0.601633
SRRT.Q9BXP5	0.5838417	0.218879	2.667412	0.00789	-0.09854	0.503141	-0.19585	0.844853	0.249342	0.149013	1.673287	0.09528
GSN.P06396	0.2959475	0.11102	2.665713	0.007929	-0.49011	0.301743	-1.62425	0.105339	0.208196	0.089366	2.329715	0.020463
CYB5A.P00167	0.4831251	0.181337	2.66424	0.007963	-0.4114	0.42728	-0.96284	0.336379	0.052655	0.127263	0.413745	0.679347
WDR37.Q9Y218	-0.779312	0.292574	-2.66364	0.007978	0.440639	0.746221	0.590493	0.55529	0.209444	0.221794	0.944321	0.345741
PLOD3.O60568	0.4406503	0.165062	2.669598	0.007987	-0.32035	0.455594	-0.70316	0.482806	0.229556	0.124057	1.850409	0.065783
ABI2.Q9NYB9	-0.625944	0.235104	-2.66242	0.008006	0.191394	0.610543	0.313482	0.754125	-0.09168	0.18158	-0.50488	0.614
CEP135.Q66GS9	0.2139563	0.080263	2.665706	0.008011	0.227621	0.220005	1.034621	0.301923	0.049347	0.06449	0.765193	0.444935
ASB1.Q9Y576	-0.293691	0.110364	-2.66112	0.008044	-0.05297	0.268204	-0.1975	0.843571	0.10549	0.078985	1.335573	0.182701
COMMD1.Q8N668	0.493679	0.185788	2.657217	0.008129	0.067659	0.499677	0.135405	0.89238	0.202384	0.148204	1.365576	0.173062
DSC2.Q02487	0.1610864	0.060683	2.654567	0.008256	-0.15652	0.159991	-0.97829	0.328895	0.10978	0.04649	2.361383	0.01899
AZ12.Q9H6S1	-0.528093	0.199278	-2.65003	0.008301	-0.48314	0.508716	-0.94972	0.342996	-0.11921	0.151403	-0.78736	0.431671
ALG13.Q9NP73.2	0.6290686	0.237107	2.653096	0.008304	-0.08858	0.671324	-0.13195	0.895135	0.217026	0.186479	1.163811	0.245686
TMEM201.Q5SNT2	0.3182735	0.120031	2.65159	0.008316	0.039538	0.311821	0.126798	0.8992	-0.02331	0.091335	-0.25516	0.798802

FAIM.Q9NVQ4	0.2134595	0.080558	2.649777	0.008345	-0.12111	0.217599	-0.55656	0.578285	0.087545	0.064474	1.357835	0.175646
HAPLN2.Q9GZV7	0.1174605	0.044364	2.647661	0.008359	-0.10481	0.12094	-0.86664	0.386809	0.038847	0.035953	1.080486	0.280766
SMU1.Q2TAY7	0.6281675	0.237382	2.646235	0.008394	-0.23667	0.540439	-0.43793	0.661743	0.114196	0.16069	0.710658	0.477831
CDC37.Q16543	-0.556698	0.210579	-2.64366	0.008457	0.41871	0.535687	0.781632	0.435027	0.104568	0.159404	0.655996	0.512313
PTP4A2.Q12974	0.3848854	0.145639	2.642731	0.008487	-0.2549	0.379289	-0.67205	0.502067	0.236069	0.111276	2.121476	0.034701
HMGA1.P17096	0.3807676	0.144107	2.642247	0.008492	-0.55539	0.333216	-1.66677	0.09657	-0.01271	0.099566	-0.12768	0.898482
HOMER1.Q86YM7	-0.456553	0.172829	-2.64164	0.008507	-0.08829	0.428724	-0.20594	0.836973	-0.18532	0.127111	-1.45793	0.145872
TRMT6.Q9UJA5	0.481812	0.181873	2.649162	0.008523	-0.2584	0.463982	-0.55692	0.578259	-0.0756	0.145227	-0.52054	0.603312
ATG5.Q9H1Y0	-0.590725	0.223655	-2.64123	0.008525	0.368888	0.546965	0.674427	0.500559	-0.01199	0.161667	-0.07417	0.940924
LTA4H.P09960	0.578816	0.219315	2.639201	0.008567	-0.32017	0.529977	-0.60413	0.5462	0.255324	0.157084	1.625402	0.105093
INA.Q16352	0.2802076	0.106269	2.636788	0.008628	0.086729	0.278313	0.311624	0.755536	0.072166	0.082705	0.872578	0.383569
PHGDH.O43175	0.3332342	0.126414	2.636062	0.008646	0.069077	0.350882	0.196867	0.84406	0.318447	0.102809	3.097459	0.00213
VCAN.P13611	0.1895078	0.071985	2.632613	0.008733	-0.23003	0.192277	-1.19637	0.232468	0.115768	0.056953	2.032702	0.042935
MPDZ.O75970	0.7174872	0.272636	2.631666	0.008757	-0.77185	0.673377	-1.14624	0.252581	0.275177	0.200132	1.374977	0.170132
N4BP3.O15049	-0.38514	0.145996	-2.63802	0.008785	0.151687	0.445049	0.340832	0.733634	0.008078	0.129581	0.062339	0.950363
NUAK1.O60285	-0.526484	0.200377	-2.62747	0.008864	0.55333	0.524843	1.054277	0.292577	-0.03926	0.156395	-0.25105	0.801941
ARHGAP44.Q17R89	-0.710778	0.270537	-2.62729	0.008869	1.569701	0.723517	2.169542	0.030801	-0.38882	0.215734	-1.80231	0.072468
SLC10A4.Q96EP9	-0.354593	0.134802	-2.63048	0.00889	0.285806	0.344603	0.829377	0.407782	-0.02784	0.099522	-0.27974	0.779936
AGTRAP.Q6RW13	-0.254027	0.09656	-2.63076	0.008964	0.241092	0.22871	1.05414	0.29324	-0.24691	0.069504	-3.55243	0.000488
PLCB1.Q9NQ66	-0.388097	0.148088	-2.62072	0.009039	0.160199	0.364188	0.43988	0.66033	-0.12504	0.10814	-1.15626	0.248465
APPL1.Q9UKG1	1.035516	0.395218	2.620111	0.009055	0.660178	0.98696	0.6689	0.504057	-0.18199	0.293633	-0.61979	0.535851
VAPB.O95292	-0.679006	0.259207	-2.61956	0.00907	0.034818	0.66504	0.052354	0.95828	-0.55529	0.195309	-2.84313	0.004764
HNRNPR.O43390	0.4829635	0.184431	2.618663	0.009093	-0.0597	0.427995	-0.13949	0.889157	-0.0374	0.127307	-0.29381	0.769097
CPSF2.Q9P2I0	0.4747829	0.181316	2.618537	0.009097	-0.55973	0.433238	-1.29197	0.197331	0.264069	0.128354	2.057357	0.040488
PRKDC.P78527	0.6725148	0.256905	2.617759	0.009117	-0.18416	0.630801	-0.29195	0.770522	0.323401	0.186777	1.731479	0.084361
SFXN4.Q6P4A7	-0.514751	0.196746	-2.61633	0.009155	-0.29981	0.51265	-0.58483	0.559087	0.036268	0.152575	0.237705	0.812267
AGO2.Q9UKV8	0.7175826	0.274546	2.613709	0.009224	0.05717	0.63124	0.090568	0.927894	0.293042	0.187046	1.566681	0.118209
ITM2B.Q9Y287	0.4886775	0.187031	2.612817	0.009248	-0.65413	0.44828	-1.45921	0.145521	0.111891	0.133662	0.83712	0.40317
ARL6IP4.F8WCT1	0.2137025	0.081721	2.615016	0.009287	0.002818	0.198938	0.014163	0.988713	-0.05298	0.057809	-0.9164	0.360473
GALK1.P51570	0.5597116	0.21477	2.606099	0.009429	-0.40353	0.581316	-0.69417	0.488093	0.303514	0.172205	1.762515	0.078968
STEAP2.Q8NFT2	-0.432978	0.16621	-2.60501	0.009459	-0.4341	0.428512	-1.01304	0.31183	-0.24576	0.12692	-1.93636	0.053733
NUP188.Q5SRE5	0.5467871	0.209957	2.604281	0.009487	0.383939	0.512128	0.749694	0.454023	0.090087	0.152673	0.590063	0.55559
GPC5.P78333	0.3039736	0.11677	2.603188	0.009508	-0.38485	0.319504	-1.20452	0.229309	0.059888	0.095208	0.629024	0.529797
SUMO4.Q6EEV6	0.4491252	0.172601	2.602094	0.009538	-0.18111	0.409076	-0.44274	0.658262	0.039745	0.121711	0.32655	0.744228

ACTN4.H7C144	-0.234915	0.090432	-2.5977	0.00966	0.227887	0.23046	0.988838	0.323513	-0.01861	0.068658	-0.27105	0.786532
SEPT11.D6RERS5	-0.53714	0.206782	-2.59762	0.009662	0.118927	0.510288	0.23306	0.815869	-0.1377	0.151613	-0.90824	0.364458
CASKIN1.Q8WXD9	-0.603838	0.232751	-2.59435	0.009753	0.297589	0.612229	0.486075	0.627257	-0.6862	0.17798	-3.85551	0.00014
NAPB.Q9H115	-0.580088	0.223825	-2.59171	0.009827	0.884515	0.561438	1.575447	0.116173	0.061712	0.167648	0.368103	0.713048
BRAP.J3KNN7	0.4498749	0.173828	2.588048	0.009931	0.267646	0.431096	0.62085	0.535154	0.058439	0.12828	0.455554	0.649029
NFASC.O94856.8	0.2377507	0.091723	2.59206	0.009934	0.131927	0.233607	0.564736	0.572842	0.054878	0.067994	0.807105	0.420498
BCAS1.A0A0A0MRP7	0.1408544	0.054424	2.588089	0.009958	-0.13654	0.142711	-0.95676	0.339503	0.02254	0.042304	0.532801	0.594588
PRKCE.Q02156	-0.570797	0.220689	-2.58644	0.009977	0.315574	0.56849	0.555108	0.579221	-0.06748	0.169156	-0.39889	0.690246
NMNAT1.Q9HAN9	0.3022601	0.11691	2.585399	0.010125	0.322343	0.355745	0.906109	0.365861	0.32019	0.102682	3.118271	0.00206
MPRIP.Q6WCQ1.2	-0.588721	0.228136	-2.58057	0.010146	-0.46584	0.60891	-0.76504	0.444832	-0.59107	0.178176	-3.31731	0.001017
NR3C1.P04150	0.4003335	0.15522	2.579137	0.010196	-0.30995	0.392845	-0.78899	0.43074	0.106828	0.118901	0.89846	0.369659
CAMK1G.Q96NX5	-0.343833	0.13334	-2.57861	0.010212	0.027287	0.315299	0.086544	0.931092	-0.23975	0.092375	-2.59544	0.00991
MECP2.P51608	0.3894544	0.151109	2.577314	0.01024	0.065535	0.366858	0.178639	0.858338	-0.26689	0.108082	-2.46932	0.014076
NPEPL1.Q8NDH3	0.3848128	0.149328	2.57696	0.010251	-0.75022	0.380939	-1.9694	0.049798	0.079103	0.113941	0.694244	0.488049
STXBP3.O00186	0.5711485	0.221645	2.576863	0.010253	-0.16029	0.600847	-0.26678	0.789816	0.051879	0.178738	0.290255	0.771816
CBFB.Q13951	0.3406032	0.132159	2.577222	0.010256	-0.38928	0.345567	-1.12651	0.260872	0.075777	0.102288	0.740814	0.459399
FAM171A2.A8MVW0	-0.551073	0.213964	-2.57554	0.010292	0.104951	0.549665	0.190937	0.8487	-0.13542	0.163344	-0.82904	0.407717
ZC3H18.Q86VM9	0.4900373	0.190359	2.574282	0.010329	-0.22816	0.440947	-0.51742	0.605229	0.120013	0.131054	0.915759	0.360505
TALDO1.P37837	0.3076067	0.119546	2.573121	0.010363	-0.06601	0.299498	-0.2204	0.825705	0.139602	0.088749	1.572999	0.116739
BAIAP2.Q9UQB8.4	-0.512119	0.199049	-2.57283	0.010372	-0.0989	0.476361	-0.20762	0.83566	-0.34077	0.140391	-2.42729	0.015782
ATG4C.Q96DT6	0.4340745	0.16872	2.572747	0.010393	0.352616	0.437963	0.805127	0.421402	0.177053	0.129301	1.369307	0.171956
PHYHD1.Q5SRE7	0.1981394	0.077034	2.572106	0.010394	0.083883	0.209213	0.400948	0.688735	0.122314	0.061864	1.977127	0.048913
ICA1.Q05084	-0.660826	0.257115	-2.57015	0.010451	0.750086	0.603912	1.242046	0.215159	-0.11704	0.179977	-0.65029	0.515988
VWA9.B4DJL6	0.2667018	0.103583	2.574769	0.010454	-0.19989	0.258871	-0.77216	0.440898	0.160324	0.079809	2.008844	0.045846
RAP2A.P10114	-0.477826	0.186003	-2.56891	0.010488	-0.08579	0.43885	-0.19548	0.845143	-0.00544	0.130558	-0.0417	0.966768
FBXO4.D6RAJ6	0.3167255	0.12304	2.574177	0.01056	-0.17844	0.280667	-0.63579	0.525689	-0.01671	0.087926	-0.19002	0.849496
C6orf211.Q9H993	0.5298208	0.2067	2.56323	0.010659	-0.45426	0.55758	-0.8147	0.415872	-0.04246	0.16603	-0.25574	0.798324
BAI1.O14514	-0.535822	0.209047	-2.56317	0.010661	-0.27393	0.533169	-0.51378	0.607775	-0.62646	0.154635	-4.05121	6.45E-05
CSK.P41240	0.7298276	0.285303	2.558075	0.010817	-1.30517	0.741901	-1.75922	0.079527	0.493866	0.22002	2.244638	0.025496
RAB8A.P61006	0.5907435	0.230941	2.557983	0.010819	-0.641	0.573627	-1.11746	0.264663	0.106137	0.170881	0.621116	0.53498
ACOT8.O14734	-0.410861	0.160665	-2.55726	0.010842	-0.64568	0.434067	-1.48752	0.137895	0.316541	0.128334	2.46654	0.014183
HIST2H3PS2.Q5TEC6	0.1297093	0.050699	2.558422	0.010846	-0.19152	0.135382	-1.41467	0.158314	0.111084	0.038895	2.855954	0.004623
MEN1.O00255	0.3294822	0.128779	2.558502	0.010864	-0.18374	0.334094	-0.54995	0.58283	0.120129	0.097932	1.226659	0.221078
PDE4A.P27815	-0.56874	0.222646	-2.55445	0.010928	0.645192	0.531025	1.214994	0.225293	-0.09893	0.158247	-0.62518	0.532311

AMER2.Q8N7J2.2	0.2723601	0.106597	2.555034	0.010971	0.075866	0.301774	0.251401	0.801708	-0.04931	0.092818	-0.53125	0.595712
LINC00493.A0A096LP01	-0.503715	0.196585	-2.56232	0.01098	0.226807	0.542299	0.418232	0.676353	0.115595	0.15794	0.731891	0.465333
SPTLC2.O15270	0.453512	0.177675	2.55248	0.01099	-0.4455	0.465494	-0.95704	0.339291	0.129395	0.138486	0.934357	0.350847
SIPA1L1.O43166	-0.564958	0.221368	-2.55212	0.011001	0.511425	0.571042	0.895601	0.371161	-0.86062	0.16292	-5.28246	2.41E-07
ELMO1.Q92556	0.2616607	0.102706	2.547671	0.01114	0.01177	0.2671	0.044066	0.96488	0.086764	0.079305	1.094049	0.274783
ANP32A.P39687	0.4370778	0.171683	2.545848	0.011198	-0.31989	0.385964	-0.82882	0.407844	0.103514	0.114794	0.901731	0.3679
CUEDC2.Q9H467	0.3281681	0.128897	2.545974	0.011204	-0.85962	0.322922	-2.662	0.008184	-0.0266	0.097344	-0.27321	0.784879
SF3B1.O75533	0.6644808	0.26107	2.545217	0.011218	-0.25243	0.585956	-0.43079	0.666918	0.055319	0.174336	0.317315	0.751218
H1F0.P07305	0.2313278	0.090905	2.544724	0.011234	-0.23306	0.225192	-1.03494	0.301503	0.11546	0.066785	1.728837	0.084834
GNAI3.P08754	0.6274131	0.246579	2.544471	0.011242	0.672402	0.585485	1.148453	0.251667	0.144532	0.174348	0.828984	0.407751
MAG.P20916	0.1350544	0.053083	2.544235	0.011249	-0.01852	0.141026	-0.13131	0.895614	0.052092	0.041849	1.244755	0.214162
MLIP.E9PFJ4	-0.363712	0.14252	-2.55201	0.011268	0.253779	0.344528	0.736599	0.462352	0.02161	0.101274	0.213383	0.831277
ATP5D.P30049	-0.610909	0.240354	-2.54171	0.01133	-0.18549	0.648432	-0.28606	0.775021	3.53E-06	0.192923	1.83E-05	0.999985
PCDHGC5.Q9Y5F6	-0.386517	0.152056	-2.54194	0.011332	0.009601	0.385997	0.024874	0.980172	-0.1279	0.114107	-1.12084	0.263249
BASP1.P80723	-0.339765	0.133721	-2.54085	0.011357	-0.1255	0.322377	-0.3893	0.69732	-0.1495	0.095548	-1.56461	0.118695
FHL1.Q13642.4	0.3309024	0.130277	2.539986	0.011385	-0.54678	0.345544	-1.58238	0.114583	0.176602	0.102719	1.719274	0.086563
FAM98A.Q8NCA5	0.3962953	0.156147	2.537958	0.01145	-0.34507	0.362705	-0.95137	0.342158	0.171345	0.107617	1.59218	0.112363
ATP5F1.P24539	-0.577183	0.227812	-2.53359	0.011592	0.558941	0.65446	0.85405	0.393737	-0.04911	0.194899	-0.25199	0.801214
CBX5.P45973	0.4205109	0.1661	2.531668	0.011655	-0.01129	0.44906	-0.02514	0.97996	0.004016	0.133588	0.030065	0.976034
CBX1.P83916	0.357015	0.141148	2.529375	0.01173	-0.20087	0.328508	-0.61146	0.541341	0.116719	0.097559	1.196389	0.232459
RAB15.P59190	-0.437039	0.17284	-2.52857	0.011757	-0.23117	0.450059	-0.51365	0.60786	-0.08035	0.133864	-0.60023	0.548792
LZTS3.O60299	-0.425122	0.168201	-2.52747	0.011793	-0.03188	0.45291	-0.07039	0.943926	-0.6367	0.12979	-4.90562	1.51E-06
PRODH.A0A087WWM6	-0.179691	0.071148	-2.52559	0.011856	0.005628	0.181545	0.030999	0.97529	-0.1347	0.053462	-2.51953	0.012254
SEC23B.Q15437	0.5620349	0.222571	2.525195	0.011869	1.116464	0.564039	1.97941	0.048654	0.053078	0.168822	0.314405	0.753425
ISY1.Q9ULR0	0.4763572	0.188445	2.527837	0.011884	-0.024	0.493392	-0.04865	0.961238	0.138947	0.150789	0.921469	0.357763
CD99L2.Q8TCZ2.3	-0.337092	0.133132	-2.53202	0.011994	0.659091	0.348675	1.890274	0.060703	-0.11894	0.093403	-1.27335	0.204916
GNG12.Q9UBI6	0.3278196	0.130162	2.518549	0.012092	-0.37348	0.326869	-1.14259	0.254091	0.068627	0.097364	0.704852	0.481432
HTATSF1.O43719	0.402861	0.160206	2.514641	0.012226	-0.37239	0.377547	-0.98634	0.324734	0.185112	0.111997	1.652821	0.09938
CA8.P35219	0.214389	0.085259	2.51456	0.012228	-0.07942	0.191523	-0.41467	0.678673	0.090038	0.05676	1.586279	0.113695
GNAO1.P09471.2	-0.596523	0.237274	-2.51407	0.012245	0.25301	0.603356	0.419338	0.675259	-0.20932	0.179145	-1.16843	0.24353
PDK3.Q15120	-0.462536	0.18398	-2.51406	0.012245	-0.30324	0.44118	-0.68734	0.492384	-0.13293	0.131126	-1.01379	0.311474
LARP4B.Q92615	-0.449048	0.178602	-2.51424	0.01225	-0.47202	0.439559	-1.07386	0.283743	-0.44101	0.128766	-3.4249	0.0007
SEMA4D.Q92854	-0.463588	0.184471	-2.51307	0.012279	-0.28586	0.4596	-0.62197	0.534419	-0.29925	0.135748	-2.20445	0.028227
GHITM.Q9H3K2	-0.254369	0.101321	-2.51051	0.012368	-0.13397	0.273496	-0.48985	0.624589	-0.11069	0.081149	-1.36404	0.173543

PJA2.O43164	-0.365723	0.145701	-2.5101	0.012382	-0.09115	0.385499	-0.23646	0.813234	-0.48024	0.111399	-4.31097	2.19E-05
CBR1.P16152	0.2840145	0.11319	2.509192	0.012413	0.02786	0.290968	0.09575	0.923781	0.100862	0.086369	1.167803	0.243784
IFT88.Q13099	0.3761389	0.149713	2.512395	0.012457	-0.4234	0.444778	-0.95193	0.342267	-0.25502	0.125416	-2.0334	0.043314
SNX14.Q9Y5W7	-0.491283	0.195916	-2.50762	0.012488	0.136336	0.511428	0.266579	0.789981	-0.12937	0.151136	-0.85602	0.392691
TAOK2.Q9UL54.2	-0.823391	0.32855	-2.50613	0.01252	1.384437	0.831492	1.665004	0.096922	-0.33428	0.247731	-1.34938	0.178199
PLXNA1.Q9UIW2	-0.47733	0.190519	-2.50542	0.012545	-0.05281	0.455743	-0.11588	0.907824	-0.18619	0.135166	-1.37749	0.169355
TMED8.Q6PL24	-0.537912	0.214803	-2.50421	0.012587	1.008405	0.555105	1.816602	0.070244	-0.19472	0.165642	-1.17553	0.240683
SPARC.P09486	0.1972572	0.078804	2.503138	0.012625	0.002638	0.202493	0.013026	0.989615	0.092637	0.060008	1.543758	0.123667
ERLIN2.O94905	0.4645854	0.185675	2.502147	0.01266	-0.81708	0.485392	-1.68333	0.093318	0.277077	0.144198	1.921509	0.055584
SPOCK1.Q08629	0.3612704	0.144483	2.500435	0.012731	-0.13518	0.371762	-0.36362	0.716398	0.192722	0.110256	1.747945	0.08149
PFAS.O15067	0.6222227	0.249009	2.498796	0.012779	0.343996	0.624407	0.550917	0.582087	0.12716	0.1857	0.684759	0.494007
MTRF1L.Q9UGC7	0.3780297	0.15125	2.499375	0.012824	0.060406	0.412579	0.146411	0.883713	0.207423	0.116149	1.785837	0.075314
LLGL1.Q15334	0.3525253	0.14122	2.496281	0.012869	0.355185	0.386655	0.918609	0.359014	-0.09907	0.115042	-0.86112	0.389837
DPP6.P42658	-0.421784	0.169102	-2.49426	0.012941	0.256904	0.436996	0.587885	0.557037	-0.24056	0.129352	-1.85973	0.063871
DHRS13.Q6UX07	0.421227	0.168896	2.494006	0.012961	0.346202	0.433346	0.798905	0.42498	0.024126	0.131201	0.183882	0.85423
ITGA2.P17301	0.2097841	0.084132	2.493504	0.012968	-0.16789	0.225054	-0.74601	0.456224	0.034883	0.06698	0.520801	0.602877
HMOX2.A0A087WT44	-0.526822	0.211344	-2.49272	0.012997	0.40475	0.527255	0.767655	0.443277	-0.00104	0.156998	-0.00663	0.994717
NUMA1.Q14980.2	0.3291771	0.132075	2.492351	0.013106	0.114337	0.345199	0.331221	0.740774	0.030441	0.105035	0.289821	0.772209
OLFML3.Q9NRN5	0.1000746	0.040212	2.488701	0.013143	-0.09562	0.101344	-0.94351	0.346155	-0.01511	0.030179	-0.50064	0.616979
TBCB.Q99426	0.5900582	0.237156	2.488063	0.013166	-0.63273	0.624624	-1.01298	0.311858	0.368311	0.184942	1.991487	0.047305
NEK6.Q9HC98	-0.292337	0.117506	-2.48785	0.013213	-0.0113	0.303848	-0.0372	0.970349	-0.03148	0.088683	-0.355	0.722858
AQP1.P29972	0.1103671	0.04438	2.486854	0.013232	-0.07428	0.115041	-0.64569	0.518995	0.055586	0.033367	1.665893	0.096818
PAK3.O75914	-0.592617	0.238363	-2.48619	0.013235	0.012995	0.586726	0.022149	0.982343	-0.26759	0.173878	-1.53895	0.124837
PLCD3.Q8N3E9	0.4155621	0.167288	2.484111	0.013311	-0.59738	0.415328	-1.43834	0.151345	0.193887	0.123474	1.570263	0.117374
ASH2L.Q9UBL3	0.5359217	0.215761	2.483871	0.013331	-0.39821	0.551003	-0.72271	0.470419	0.024114	0.16434	0.146735	0.883439
PIP5K1C.O60331	-0.619125	0.249404	-2.48241	0.013374	0.163152	0.634233	0.257244	0.797161	-0.1363	0.188534	-0.72297	0.470242
KIAA0930.Q6ICG6	0.4717614	0.190059	2.482181	0.013383	0.191518	0.477219	0.401322	0.68846	0.220695	0.141447	1.560271	0.119716
NAV3.Q8IVL0	-0.392997	0.15836	-2.48168	0.013447	-0.58601	0.429601	-1.36409	0.173679	-0.33087	0.124579	-2.65588	0.008382
ASTN1.O14525.2	-0.582563	0.234989	-2.47911	0.013497	0.057041	0.585952	0.097348	0.922513	-0.20538	0.173922	-1.18088	0.238555
FNIP1.Q8TF40	0.3033902	0.122316	2.480384	0.013517	0.231668	0.324547	0.713819	0.475995	-0.00175	0.095202	-0.01835	0.985373
TIMM21.Q9BVV7	0.5070556	0.204604	2.47823	0.01353	-0.49951	0.515728	-0.96855	0.333523	0.247578	0.153007	1.618083	0.106662
NUP107.P57740	0.5890546	0.237943	2.475613	0.013628	0.775246	0.55508	1.396638	0.163522	0.127458	0.165487	0.770198	0.441769
FAM126A.Q9BYI3	0.4182913	0.168713	2.479313	0.013637	-0.57098	0.499668	-1.14273	0.254423	0.028588	0.147579	0.193717	0.84658
TOMM6.Q96B49	-0.283205	0.114488	-2.47366	0.013702	0.462582	0.311058	1.487127	0.137998	0.063688	0.092793	0.686348	0.493007

TRHDE.Q9UKU6	-0.407194	0.164693	-2.47245	0.013748	0.525612	0.417812	1.258012	0.209334	0.06943	0.124546	0.557467	0.577611
C19orf26.Q8N350	-0.273256	0.110559	-2.47159	0.013781	-0.07412	0.295835	-0.25054	0.802337	-0.32604	0.086045	-3.78924	0.000182
SHISA7.A6NL88	-0.299979	0.121408	-2.47083	0.01381	-0.14276	0.299461	-0.47673	0.63389	-0.249	0.087988	-2.82989	0.00496
AMER2.Q8N7J2	0.360955	0.146094	2.470707	0.013814	0.037696	0.383672	0.098251	0.921796	-0.2913	0.112932	-2.57944	0.010357
TMEM259.Q4ZIN3	-0.271814	0.110091	-2.469	0.013972	0.12615	0.304121	0.414804	0.678649	-0.08254	0.092846	-0.88897	0.37489
EPHA4.P54764	-0.508865	0.206341	-2.46613	0.01399	0.207533	0.500993	0.414243	0.678982	0.233095	0.148489	1.569777	0.117487
TSPAN15.O95858	0.1484723	0.060231	2.465031	0.014032	0.038009	0.161432	0.235448	0.814017	0.051639	0.047938	1.077204	0.282227
SOX10.P56693	0.2494786	0.101089	2.467912	0.014044	-0.25135	0.257638	-0.97561	0.330276	0.01754	0.077535	0.226221	0.82123
CD9.G8JLH6	0.1202876	0.048808	2.464495	0.014053	-0.08896	0.126675	-0.7023	0.48302	0.029174	0.037677	0.774324	0.439329
DLGAP1.O14490.6	-0.5378	0.218292	-2.46368	0.014085	-0.11697	0.561324	-0.20838	0.835066	-0.34281	0.165857	-2.06688	0.039575
WDR7.Q9Y4E6	-0.754367	0.306743	-2.45928	0.014256	-0.11366	0.784083	-0.14496	0.884838	-0.00383	0.233259	-0.01642	0.986913
C18orf8.Q96DM3	0.673907	0.274523	2.454828	0.014432	0.251735	0.707335	0.355892	0.722163	0.450047	0.208905	2.154321	0.031985
MICALL1.Q8N3F8	0.3849319	0.156642	2.457398	0.014434	-0.37422	0.432117	-0.86602	0.387356	0.239215	0.127196	1.880685	0.061241
XPO1.O14980	0.6028802	0.245603	2.454695	0.014437	0.157416	0.646788	0.243382	0.807871	0.622287	0.189153	3.289865	0.001118
LPHN1.O94910	-0.671049	0.273665	-2.45208	0.014541	0.264139	0.688236	0.383791	0.701396	-0.44883	0.203194	-2.20885	0.027916
ECHDC1.Q9NTX5	0.5118196	0.208749	2.451837	0.014551	-0.18209	0.532444	-0.34199	0.732589	0.077197	0.158362	0.487473	0.626268
GIT2.Q14161.10	-0.456261	0.186129	-2.45132	0.014583	0.862994	0.46655	1.849736	0.065332	0.05316	0.138957	0.382566	0.702311
BSN.Q9UPA5	-0.537398	0.219529	-2.44796	0.014707	0.137121	0.573397	0.239138	0.811157	-0.3265	0.16958	-1.92537	0.055098
AP3D1.O14617.5	-0.601491	0.246075	-2.44434	0.014853	0.000985	0.611871	0.00161	0.998717	-0.19127	0.181696	-1.05267	0.293314
KIAA1033.Q2M389	0.6438784	0.263523	2.44335	0.014894	-0.36357	0.667366	-0.54479	0.586289	0.36745	0.197525	1.860269	0.063794
FAM19A1.Q7Z5A9	-0.434649	0.177198	-2.45291	0.014896	0.49648	0.453433	1.094935	0.275399	-0.00601	0.123412	-0.04869	0.961237
FAM213A.Q9BRX8	-0.385779	0.157985	-2.44187	0.014954	-0.23219	0.41471	-0.5599	0.575954	0.001562	0.123431	0.012652	0.989914
HDAC9.Q9UKV0.7	-0.204084	0.083502	-2.44405	0.015019	-0.03695	0.227058	-0.16273	0.870888	-0.05684	0.068863	-0.82542	0.410056
RPH3A.Q9Y2J0	-0.3304	0.135405	-2.44008	0.015027	0.623955	0.342363	1.822498	0.069343	-0.22066	0.101621	-2.17137	0.030661
THNSL1.Q8IYQ7	-0.472099	0.1936	-2.43853	0.015092	0.093503	0.495505	0.188702	0.85045	-0.15039	0.147165	-1.02193	0.307612
PLXNB1.O43157	0.4841815	0.198743	2.436213	0.015187	0.509415	0.53827	0.946393	0.344685	0.400005	0.158739	2.519887	0.012241
DLG3.Q5JUW8	-0.713999	0.293201	-2.43519	0.01523	0.927016	0.771582	1.201449	0.230494	-0.50447	0.228275	-2.20992	0.027841
AP2A2.O94973	-0.416245	0.171006	-2.43409	0.015275	0.636518	0.442591	1.438161	0.151397	-0.08245	0.132019	-0.6245	0.532759
TTLL12.Q14166	0.4525124	0.185978	2.433155	0.015315	0.523743	0.448598	1.167511	0.243901	-0.00463	0.133743	-0.03462	0.972409
DGKB.B5MCD5	-0.217823	0.089527	-2.43305	0.015336	0.10149	0.220177	0.460946	0.645179	0.031586	0.066012	0.478484	0.632662
WRB.O00258	-0.3104	0.127668	-2.43132	0.015403	0.161941	0.328365	0.493172	0.622249	-0.03301	0.097877	-0.33723	0.736175
COTL1.Q14019	0.3839068	0.158132	2.427767	0.015541	-0.42754	0.394728	-1.08313	0.279593	-0.01304	0.117644	-0.11087	0.911788
ATP6V1H.Q9UI12	-0.599973	0.247146	-2.42761	0.015548	0.405432	0.617158	0.656934	0.511711	0.047427	0.183702	0.258173	0.796445
KNDC1.Q76NI1	-0.431331	0.177873	-2.42493	0.015662	0.001491	0.480183	0.003104	0.997525	-0.40419	0.140989	-2.86682	0.00443

MACF1.E9PLY0	-0.396456	0.163539	-2.42422	0.015702	0.024952	0.407213	0.061274	0.951182	-0.22757	0.119552	-1.9035	0.057932
TPRN.Q4KMQ1	0.3568062	0.146746	2.431455	0.015736	-0.14441	0.359083	-0.40216	0.688135	-0.08024	0.113185	-0.7089	0.479483
MDH2.P40926	-0.460198	0.18997	-2.42247	0.015767	0.214128	0.490876	0.436216	0.662984	-0.11175	0.145934	-0.76576	0.444401
CNDP2.Q96KP4	0.3698571	0.152709	2.421966	0.015789	0.092847	0.400051	0.232088	0.816623	0.268635	0.118036	2.275868	0.023536
EIF2B2.P49770	0.5129201	0.21187	2.420923	0.015833	-0.62547	0.539628	-1.15907	0.247321	0.541428	0.157911	3.428693	0.000689
GNAS.P63092.2	0.3660152	0.151333	2.418606	0.016034	0.264864	0.394064	0.672135	0.502134	0.308709	0.114707	2.691287	0.00761
VAC14.Q08AM6	-0.66162	0.273836	-2.41612	0.016042	-0.08464	0.67902	-0.12465	0.900878	-0.28643	0.201345	-1.42256	0.155869
RHOC.Q5JR08	0.2455276	0.101625	2.416007	0.01607	-0.02721	0.268158	-0.10148	0.919243	-0.15727	0.077657	-2.02524	0.043762
SGIP1.Q9BQI5	-0.580471	0.240324	-2.41536	0.016074	0.060496	0.620649	0.097473	0.922414	-0.38024	0.183368	-2.07365	0.038938
PRPF8.Q6P2Q9	0.6404303	0.265165	2.415215	0.016081	-0.39022	0.608263	-0.64153	0.521653	0.182041	0.180772	1.007018	0.314712
TENM2.Q9NT68	-0.456925	0.189388	-2.41264	0.016193	-0.74327	0.464463	-1.60029	0.110554	0.092976	0.138639	0.670633	0.502954
AAMDC.E9PNP3	0.1952993	0.080962	2.412237	0.016211	-0.01332	0.202191	-0.06589	0.94751	0.016005	0.060142	0.266129	0.790317
NEFH.P12036	0.1505688	0.062473	2.410129	0.016304	0.076885	0.166824	0.460873	0.645213	0.098703	0.049327	2.00101	0.046263
GCLC.P48506	0.4867027	0.201974	2.409726	0.016322	0.091699	0.547724	0.167418	0.86715	0.232243	0.162411	1.429974	0.153732
ATP50.P48047	-0.407484	0.169205	-2.40823	0.016388	0.294649	0.441212	0.667818	0.504747	0.041177	0.131326	0.313547	0.754076
UBE2J2.Q8N2K1	0.2579725	0.10685	2.414344	0.016457	-0.23825	0.256271	-0.92966	0.353834	0.096935	0.077338	1.253386	0.211747
BPNT1.O95861	0.7957679	0.331003	2.404114	0.016572	-1.15044	0.834855	-1.37801	0.169193	0.463385	0.24772	1.870599	0.062343
SFT2D2.Q5TIH2	0.2615959	0.108709	2.406385	0.016588	-0.20717	0.296617	-0.69844	0.485596	0.174377	0.083516	2.087949	0.037884
FCGR1A.P12314	-0.228506	0.095134	-2.40194	0.016719	0.077622	0.247174	0.314039	0.75373	0.007115	0.076324	0.093219	0.925798
PRMT5.O14744	0.8127954	0.339026	2.39744	0.016873	-1.46237	0.868567	-1.68366	0.093255	0.960269	0.253768	3.784049	0.000185
ARHGAP32.A7KAX9	-0.549811	0.229394	-2.3968	0.016902	0.059673	0.604964	0.098638	0.921489	-0.65468	0.176086	-3.71794	0.000238
HNRNPUL2.Q1KMD3	0.5537105	0.231032	2.39668	0.016908	0.042103	0.526639	0.079947	0.936331	0.145364	0.15645	0.929139	0.35354
OPA3.Q9H6K4.2	-0.277774	0.115869	-2.39731	0.017021	-0.20371	0.288574	-0.7059	0.480963	-0.06173	0.084094	-0.73402	0.463683
PCSK1.P29120	-0.334338	0.139686	-2.3935	0.017053	-0.15961	0.333976	-0.4779	0.63306	-0.06454	0.099321	-0.64978	0.516318
STX2.P32856	0.3589878	0.149995	2.393324	0.017067	0.135767	0.393553	0.344977	0.73035	0.17219	0.117728	1.462604	0.144605
ITGAX.P20702	0.2565437	0.107173	2.393731	0.017111	-0.27851	0.270674	-1.02896	0.304431	0.171313	0.07901	2.168245	0.031027
TRPV1.A0A0B4J2A0	0.230587	0.096394	2.39214	0.017116	-0.19014	0.238831	-0.79613	0.426567	0.108736	0.070852	1.534693	0.125879
YWHAB.P31946	-0.404406	0.169094	-2.39161	0.01714	0.197481	0.425756	0.463836	0.64309	-0.00335	0.126699	-0.02647	0.978902
KIAA0907.Q7Z7F0	0.3174142	0.132558	2.394536	0.017148	0.127649	0.340824	0.37453	0.708366	0.042495	0.103485	0.410637	0.681733
CAD.P27708	0.5685879	0.238065	2.388377	0.01729	-0.0879	0.631043	-0.1393	0.889306	0.732662	0.18306	4.002301	7.85E-05
LOC728763.H7C117	0.3051618	0.127728	2.389155	0.017307	0.008364	0.332707	0.025138	0.979963	0.027672	0.101521	0.27257	0.785391
ATL1.Q8WXF7	-0.616573	0.258202	-2.38795	0.01731	-0.09261	0.632923	-0.14632	0.883765	-0.14468	0.18811	-0.76914	0.442395
SNX2.O60749	-0.70226	0.294138	-2.38752	0.01733	0.783219	0.762401	1.027306	0.305077	-0.22932	0.226813	-1.01105	0.312779
GTF21.P78347	0.5664834	0.237507	2.38512	0.017442	-0.3429	0.586054	-0.58509	0.558911	0.172963	0.17416	0.993127	0.321423

AP2M1.Q96CW1	-0.714259	0.299518	-2.38469	0.017462	0.286464	0.749882	0.382012	0.702714	-0.04716	0.223113	-0.21139	0.832719
ATP6V1E1.P36543	-0.549371	0.230663	-2.3817	0.017603	0.48807	0.575509	0.848067	0.397055	-0.04392	0.171384	-0.25625	0.797929
AP3M2.P53677	-0.513585	0.215659	-2.38147	0.017614	0.631839	0.544592	1.160206	0.246858	-0.07124	0.162308	-0.43895	0.661004
CMBL.Q96DG6	0.4678963	0.196544	2.380617	0.017654	-0.87331	0.49129	-1.77759	0.076451	0.226087	0.146331	1.545044	0.123356
HIP1.O00291	0.2556697	0.107407	2.380393	0.017665	-0.16821	0.280384	-0.59992	0.548999	0.068129	0.083368	0.817214	0.414434
VPS52.Q8N1B4	-0.819583	0.344384	-2.37985	0.017691	-0.11756	0.906368	-0.12971	0.896884	0.263214	0.269221	0.977688	0.328991
ATG2B.Q96BY7	0.9046013	0.380177	2.379424	0.017711	-0.24452	0.997177	-0.24521	0.806452	0.698769	0.294005	2.376728	0.018074
USP16.Q9Y5T5	0.3303985	0.138812	2.380191	0.01777	-0.59013	0.444958	-1.32625	0.185961	0.1053	0.127516	0.825778	0.409714
CDV3.Q9UKY7	-0.447342	0.188181	-2.37719	0.017818	0.259153	0.497372	0.521044	0.602708	-0.64295	0.143449	-4.48211	1.04E-05
RBP7.Q96R05	0.1760954	0.074049	2.378083	0.017829	0.006719	0.196197	0.034244	0.972708	0.004134	0.055927	0.073919	0.94113
RASSF8.Q8NHQ8	0.3552489	0.14926	2.380065	0.017862	-0.01325	0.449887	-0.02944	0.976539	0.177438	0.131871	1.345543	0.179867
INPP1.P49441	0.5184681	0.218276	2.375291	0.017908	0.178024	0.663993	0.268111	0.788792	0.178812	0.197288	0.906351	0.365454
JAKMIP1.Q96N16.2	-0.55275	0.232715	-2.37523	0.017911	-0.50067	0.611893	-0.81823	0.413854	-0.16524	0.181982	-0.908	0.364583
XRCC5.P13010	0.4601071	0.193827	2.373802	0.01798	-0.04203	0.451418	-0.09311	0.92588	0.115924	0.134129	0.864269	0.388109
S100B.P04271	0.1774426	0.074759	2.373527	0.017993	-0.26336	0.188427	-1.39765	0.163218	0.084129	0.056027	1.501589	0.134221
NAT8L.Q8N9F0	-0.372497	0.156951	-2.37334	0.018002	0.57261	0.415141	1.379315	0.168792	-0.63829	0.118452	-5.38864	1.41E-07
PLD1.Q13393	0.2188854	0.092269	2.372254	0.018108	-0.29107	0.267838	-1.08675	0.278114	0.174764	0.079365	2.202019	0.02851
ADAM10.O14672	0.2448189	0.103378	2.368202	0.018251	-0.03858	0.269915	-0.14293	0.886437	0.070463	0.080198	0.878616	0.38029
RNF150.Q9ULK6	-0.292843	0.123538	-2.37048	0.018288	-0.0923	0.325308	-0.28372	0.776885	-0.12961	0.09661	-1.34155	0.181099
PHACTR1.Q9C0D0	-0.447389	0.189096	-2.36593	0.018362	-0.13409	0.4702	-0.28518	0.775696	0.061822	0.13985	0.442059	0.658755
NUMBL.Q9Y6R0	-0.467832	0.197744	-2.36585	0.018366	0.239789	0.487525	0.491849	0.623174	-0.63511	0.140531	-4.51939	8.83E-06
MSRA.Q9UJ68	0.4816207	0.203652	2.364921	0.018412	-0.60687	0.54286	-1.11792	0.264469	0.441933	0.159858	2.764533	0.006042
FAM69A.A0A087WZ97	0.5255235	0.222083	2.366337	0.018457	0.014481	0.601129	0.024089	0.980802	-0.0747	0.174516	-0.42807	0.668993
SYP.P08247	-0.338168	0.143078	-2.36353	0.01848	-0.03757	0.357311	-0.10516	0.91632	-0.11435	0.106097	-1.07782	0.281952
CHD4.A0A0C4DGG9	0.5361431	0.226914	2.362763	0.018518	-0.35373	0.529811	-0.66766	0.504848	0.240735	0.157129	1.532084	0.126522
PSMD9.O00233	0.6220552	0.263328	2.362279	0.018542	-0.85007	0.685508	-1.24006	0.215889	0.365745	0.203374	1.798388	0.073088
EMB.Q6PCB8	-0.279427	0.118257	-2.36287	0.018552	-0.37784	0.322462	-1.17172	0.242316	-0.00669	0.094778	-0.07055	0.943811
RASGRF2.O14827	-0.390713	0.165417	-2.36199	0.018556	-0.0892	0.395637	-0.22546	0.821769	-0.19525	0.117181	-1.66621	0.096682
NAGK.Q9UJ70	0.5095767	0.215977	2.359405	0.018685	-0.6748	0.561103	-1.20262	0.230039	0.317957	0.16633	1.911609	0.056848
FRZB.Q92765	0.1501411	0.063633	2.35947	0.018701	-0.01923	0.158319	-0.12145	0.903416	0.003072	0.046979	0.065382	0.947914
SORBS2.O94875.11	-0.403157	0.171082	-2.35652	0.018829	0.228919	0.452421	0.505988	0.613225	-0.51102	0.131477	-3.88673	0.000124
PRPF4B.Q13523	0.4385747	0.186116	2.356465	0.018832	-0.31385	0.448522	-0.69973	0.484618	0.342341	0.13211	2.591343	0.010012
PRPF3.O43395	0.4314458	0.183223	2.354759	0.018917	-0.56342	0.473996	-1.18866	0.235482	-0.30016	0.140294	-2.1395	0.033176
KCNC1.P48547.2	0.3272804	0.139007	2.354412	0.018935	0.167495	0.352135	0.475656	0.634654	0.066724	0.104723	0.63714	0.524504

BAI2.O60241.2	-0.501069	0.212907	-2.35347	0.018982	-0.14058	0.52448	-0.26803	0.788852	-0.1418	0.155834	-0.90996	0.36355
ANO6.Q4KMQ2	0.2806548	0.119412	2.350296	0.019143	-0.48271	0.334528	-1.44297	0.150039	0.18785	0.099278	1.892151	0.059403
OLFM1.Q99784	-0.354101	0.150673	-2.35013	0.019152	0.286646	0.391666	0.731865	0.464804	0.005782	0.116614	0.049579	0.96049
SHANK2.Q9UPX8	-0.520535	0.221601	-2.34897	0.01921	0.27815	0.590752	0.470841	0.638086	-0.58858	0.172594	-3.4102	0.000735
AP3S2.H0YLI7	-0.46304	0.197239	-2.34761	0.01928	0.357887	0.522823	0.684529	0.494153	-0.35794	0.154315	-2.31952	0.021016
C21orf2.O43822.4	-0.198211	0.084442	-2.3473	0.019335	0.117774	0.217931	0.540417	0.589345	-0.09948	0.063773	-1.55993	0.119922
SLC25A6.P12236	-0.363702	0.155068	-2.34544	0.019391	0.33163	0.413964	0.801109	0.423682	-0.08053	0.12319	-0.65374	0.513763
TWF1.Q12792.3	0.5498401	0.234476	2.344975	0.019415	-0.22964	0.619012	-0.37098	0.710906	0.321273	0.18328	1.752912	0.080606
ATP5H.O75947	-0.417613	0.178128	-2.34445	0.019443	-0.5294	0.479438	-1.10421	0.270358	0.119977	0.142742	0.840519	0.401265
MAP6D1.Q9H9H5	0.16404	0.069983	2.344015	0.019465	-0.11846	0.18236	-0.64957	0.516451	-0.186	0.053248	-3.49301	0.000547
ANK1.P16157.21	0.3050487	0.130237	2.342267	0.019555	0.242534	0.307487	0.788762	0.430854	0.141959	0.091208	1.556425	0.120627
HMG2.P05204	0.1992391	0.085121	2.340662	0.019639	-0.13647	0.203595	-0.67031	0.503162	-0.08297	0.060426	-1.37305	0.170728
BUB3.O43684	0.591694	0.252803	2.340538	0.019645	-0.81111	0.586573	-1.38279	0.167725	0.327347	0.174042	1.880848	0.06093
BAZ1B.Q9UIG0	0.4252418	0.181771	2.339436	0.019702	-0.18815	0.428982	-0.43861	0.661252	0.039218	0.127635	0.30727	0.758844
C6orf47.O95873	0.3834865	0.163916	2.33953	0.019737	-0.78138	0.430864	-1.81351	0.070812	0.068197	0.125903	0.541662	0.588478
NIPA1.Q7RTP0	0.3032911	0.12949	2.342194	0.019768	-0.49991	0.35351	-1.41412	0.158829	0.173215	0.109103	1.587625	0.113897
NOS3.P29474	0.2604705	0.111199	2.342388	0.01977	-0.34391	0.309773	-1.1102	0.268238	0.080052	0.091524	0.874649	0.382809
HEATR5A.Q86XA9	0.2785779	0.119041	2.340188	0.019827	0.075296	0.310406	0.242571	0.808563	0.133251	0.094133	1.415566	0.15831
MOG.Q16653.13	0.124756	0.053486	2.332513	0.020067	-0.02854	0.14093	-0.20254	0.839627	0.046927	0.041842	1.121519	0.262935
ASL.P04424	0.3371038	0.144535	2.332325	0.020076	-0.28036	0.361612	-0.77532	0.438742	0.142149	0.107374	1.323866	0.186523
FH.P07954	-0.640572	0.274667	-2.33217	0.020084	0.818659	0.710474	1.152272	0.250097	0.108513	0.211716	0.51254	0.608638
FOLH1.Q04609	0.1531157	0.065706	2.330323	0.020196	0.027146	0.170873	0.158864	0.873882	0.014813	0.050917	0.290934	0.771302
LIPE.Q05469	0.1836509	0.078826	2.329812	0.02021	-0.00159	0.210583	-0.00753	0.993995	0.040007	0.062604	0.639049	0.523263
H2AFX.P16104	0.2390149	0.102645	2.328564	0.020277	-0.19361	0.235151	-0.82335	0.410942	0.061542	0.069942	0.879891	0.3796
MTRR.Q9UBK8	-0.325087	0.139515	-2.33011	0.020293	-0.18122	0.385681	-0.46988	0.638848	0.111237	0.116885	0.951682	0.342174
RNF40.O75150	0.5009523	0.215473	2.324892	0.020474	0.159627	0.532795	0.299604	0.76468	0.222723	0.158015	1.409508	0.159687
DGKI.E7EWQ4	-0.45928	0.197594	-2.32436	0.020503	-0.02149	0.548665	-0.03916	0.968786	0.18316	0.162887	1.12446	0.261688
TSN.Q15631	0.373628	0.160871	2.322529	0.020602	-0.09265	0.413485	-0.22406	0.822857	-0.12932	0.122795	-1.05312	0.293107
NAP1L5.Q96NT1	-0.39377	0.169559	-2.32231	0.020613	-0.22652	0.425206	-0.53273	0.594605	0.106148	0.126406	0.839738	0.401702
HNRNPU.Q00839	0.4299233	0.185144	2.322102	0.020625	-0.216	0.423367	-0.5102	0.610276	0.092477	0.125888	0.734599	0.463139
G3BP2.Q9UN86	-0.355099	0.152923	-2.32208	0.020626	0.047416	0.432438	0.109648	0.912759	-0.6758	0.122786	-5.50385	7.80E-08
DYNC112.Q13409.2	0.4135345	0.178159	2.321151	0.020677	-0.0828	0.470522	-0.17598	0.860428	0.091845	0.139882	0.656589	0.511932
NPTN.Q9Y639.5	-0.646699	0.278696	-2.32045	0.020715	-0.56737	0.724414	-0.78322	0.434099	0.248811	0.21525	1.155916	0.248606
NXT1.Q9UKK6	0.3726592	0.160371	2.323738	0.02073	-0.45446	0.439896	-1.0331	0.302812	0.14338	0.118616	1.208781	0.228181

PGM1.P36871	0.3802472	0.163922	2.31969	0.020756	-0.4754	0.419728	-1.13264	0.258242	0.292719	0.12401	2.360438	0.018872
EVL.Q9UI08	-0.624736	0.269402	-2.31897	0.020796	1.185216	0.676274	1.752568	0.080665	-0.28025	0.201546	-1.39052	0.16537
OGDH.E9PCR7	-0.580825	0.250553	-2.31818	0.020839	1.321874	0.672016	1.967027	0.050072	-0.0289	0.20115	-0.14366	0.885861
SIK3.HOY4E8	-0.72416	0.312808	-2.31503	0.021012	-0.27391	0.800646	-0.34211	0.732502	-0.53341	0.236289	-2.25745	0.024676
FBXO21.O94952.1	0.3632269	0.156926	2.314638	0.021034	-0.26519	0.415203	-0.6387	0.523488	0.279814	0.122571	2.282873	0.023115
ZNF830.Q96NB3	0.3852266	0.16615	2.318541	0.02106	0.32231	0.402104	0.801558	0.42376	0.079708	0.120721	0.660264	0.509844
PKN1.Q16512	-0.399958	0.172975	-2.31223	0.021167	0.799673	0.421639	1.896581	0.058813	-0.17795	0.12575	-1.41512	0.158037
UBE2D4.Q9Y2X8	0.3987385	0.172489	2.311681	0.021312	0.835589	0.505804	1.652002	0.099826	-0.1888	0.150393	-1.25538	0.210547
UBA3.Q8TBC4	0.7699728	0.333546	2.308444	0.021378	-0.06484	0.835893	-0.07757	0.938219	0.642722	0.245972	2.612991	0.009413
HSPA2.P54652	0.1756428	0.076093	2.308251	0.021389	-0.04549	0.201691	-0.22554	0.821704	0.06531	0.05989	1.090505	0.276338
PLEKHF2.Q9H8W4	0.3492772	0.151364	2.307535	0.021436	-0.68744	0.391907	-1.75408	0.080417	-0.24116	0.116489	-2.07026	0.039267
MED17.Q9NVC6	0.3404599	0.147313	2.311136	0.021439	-0.29865	0.384578	-0.77657	0.438288	-0.31074	0.11427	-2.7193	0.007092
CCDC132.Q96JG6	-0.709909	0.307903	-2.30562	0.021537	-0.03865	0.808664	-0.04779	0.961914	0.351448	0.239735	1.465989	0.143665
CYB5R3.P00387	0.4764346	0.206722	2.304715	0.021588	-0.57163	0.536757	-1.06496	0.287723	0.068274	0.159921	0.426924	0.669731
INPP5A.Q14642	-0.445051	0.193273	-2.30271	0.021702	0.250401	0.480659	0.520954	0.602771	-0.00044	0.14305	-0.00308	0.997542
MEPCE.Q7L2J0	0.3260828	0.141609	2.302698	0.021737	-0.10079	0.413242	-0.2439	0.807478	-0.2154	0.123612	-1.74257	0.082466
AGPAT5.Q9NUQ2	-0.528771	0.229818	-2.30082	0.021809	0.269471	0.620558	0.43424	0.664417	-0.1613	0.184434	-0.87459	0.382472
PRRC1.Q96M27	0.5200955	0.226228	2.298993	0.02194	0.241468	0.553784	0.436033	0.663133	0.136238	0.165756	0.821919	0.411789
GABPA.Q06546	0.275977	0.120013	2.299554	0.021987	-0.17267	0.293715	-0.5879	0.557115	0.182914	0.090921	2.011791	0.045282
LRRFIP1.Q32MZ4.4	-0.685001	0.298148	-2.29752	0.021998	0.520712	0.721391	0.721816	0.470952	-0.3143	0.214038	-1.46842	0.143005
RBM42.Q9BTD8	0.3153855	0.137319	2.296742	0.022071	0.300795	0.330895	0.909035	0.364079	0.020693	0.097099	0.213114	0.831386
RPS6KA5.O75582	0.2170362	0.094579	2.294751	0.022158	0.086026	0.244968	0.351174	0.725696	0.11995	0.072569	1.652908	0.099362
CLUH.O75153	-0.684003	0.298263	-2.29329	0.022242	0.54523	0.772571	0.705735	0.480883	-0.20755	0.229709	-0.90352	0.366952
SLC1A1.P43005	-0.245388	0.107017	-2.29298	0.022286	-0.12097	0.27918	-0.4333	0.665119	-0.1291	0.083353	-1.54889	0.122495
NSG2.Q9Y328	-0.332924	0.14526	-2.29192	0.022335	-0.24373	0.363167	-0.67112	0.502655	0.119295	0.10809	1.103663	0.270618
PABPN1.Q86U42	0.4128074	0.180259	2.29008	0.022429	-1.28E-05	0.420014	-3.04E-05	0.999976	0.14965	0.124657	1.200494	0.230864
APBB3.O95704	-0.285824	0.12466	-2.29283	0.022536	0.139697	0.319733	0.436917	0.662684	-0.16253	0.094691	-1.71647	0.08776
EIF2B5.Q13144	0.5379203	0.235107	2.287985	0.022552	-0.05284	0.628354	-0.08409	0.933039	0.518809	0.184589	2.810611	0.005259
STAC2.Q6ZMT1	-0.433027	0.189352	-2.28689	0.022616	-0.29847	0.492313	-0.60626	0.544784	0.095668	0.146441	0.653289	0.514054
HIP1R.O75146	0.5227087	0.228636	2.286205	0.022656	-0.50326	0.583012	-0.8632	0.388693	0.242553	0.173097	1.401255	0.162138
RIMS3.Q9UJD0	-0.534637	0.233896	-2.28579	0.022681	0.081733	0.574508	0.142266	0.886962	-0.06258	0.170875	-0.36623	0.714443
SNRNP40.Q96DI7	0.4231507	0.185226	2.284516	0.022756	0.051484	0.446407	0.115329	0.908259	0.032586	0.132788	0.245397	0.806312
SRP68.Q9UHB9	0.8737957	0.382597	2.283853	0.022795	-1.01859	0.914936	-1.11329	0.266445	-0.20051	0.272483	-0.73588	0.462362
SUN1.O94901.9	0.4715223	0.206573	2.282598	0.02287	0.158915	0.510584	0.311242	0.755826	-0.05403	0.151882	-0.35574	0.72228

OGT.O15294	-0.393807	0.172553	-2.28223	0.022891	0.398852	0.42932	0.929032	0.353595	-0.01344	0.12789	-0.10509	0.916373
DNAJC21.Q5F1R6	0.3281706	0.143698	2.28375	0.022929	-0.8316	0.36023	-2.30853	0.021835	0.125962	0.109821	1.146974	0.252554
ZSWIM8.S4R410	0.3466279	0.152065	2.279478	0.023106	0.555211	0.411725	1.348497	0.178612	0.115734	0.120411	0.961153	0.337323
SAT2.Q96F10	0.1410693	0.061922	2.278195	0.023133	0.043183	0.155869	0.277047	0.781928	0.044713	0.046304	0.965639	0.334978
MAPKAP1.Q9BPZ7	-0.249663	0.109549	-2.27901	0.023134	0.225604	0.322515	0.699517	0.484814	0.117725	0.095005	1.239147	0.216336
ABR.Q12979	-0.504008	0.221242	-2.27808	0.02314	-0.01484	0.535505	-0.0277	0.977916	-0.19915	0.158901	-1.25328	0.211048
NOSIP.Q9Y314	0.3583879	0.157358	2.277534	0.023232	-0.09931	0.393661	-0.25227	0.801017	0.223859	0.119156	1.878698	0.06134
FDFT1.P37268	-0.194652	0.085504	-2.27653	0.023233	-0.1416	0.229487	-0.61704	0.537662	-0.02166	0.068299	-0.31719	0.75131
PLEKHA6.Q5VTI5	-0.505804	0.222534	-2.27293	0.02345	0.472093	0.60359	0.782141	0.434729	-0.89467	0.172402	-5.18943	3.82E-07
SLC2A3.P11169	-0.269535	0.118625	-2.27216	0.023498	0.405837	0.307139	1.321346	0.187361	-0.07798	0.091518	-0.85207	0.394835
GANAB.Q14697.2	0.7164055	0.315495	2.270733	0.023584	-0.64017	0.805674	-0.79457	0.427469	0.279515	0.239392	1.167602	0.243865
TPCN1.B7Z3R2	-0.278944	0.122833	-2.27092	0.023632	-0.05589	0.333601	-0.16753	0.867078	-0.18444	0.096896	-1.90347	0.058046
CLDND1.D6RIU2	0.2702514	0.119059	2.269902	0.023635	0.095784	0.316806	0.302343	0.762594	-0.00563	0.094258	-0.05978	0.95237
MLIP.Q5VWP3.3	-0.249249	0.109833	-2.26935	0.023669	0.044201	0.308428	0.14331	0.886139	-0.38417	0.089123	-4.31058	2.19E-05
GRIA2.P42262	-0.47393	0.209104	-2.26648	0.023845	-0.32875	0.533204	-0.61656	0.537977	-0.24387	0.158111	-1.54243	0.12399
MFF.Q9GZY8	-0.531206	0.234739	-2.26297	0.024062	1.392909	0.627205	2.220819	0.027086	-0.46412	0.186204	-2.49253	0.013205
TJP1.HOYLT6	0.3066579	0.135435	2.264251	0.024205	-0.04726	0.349599	-0.13518	0.892603	-0.13729	0.104837	-1.30958	0.191768
DVL3.Q92997	0.379735	0.168119	2.258731	0.02437	-0.68826	0.430389	-1.59916	0.110916	-0.10649	0.124911	-0.85255	0.39464
RANBP2.P49792	0.782382	0.346539	2.2577	0.024391	0.267682	0.859354	0.311492	0.755636	0.191896	0.25545	0.751207	0.453098
METTL16.Q86W50	0.4049453	0.17918	2.259994	0.024401	-0.23223	0.4797	-0.48411	0.628773	-0.0796	0.145221	-0.54814	0.584132
FPGT.O14772	0.3271705	0.144925	2.257519	0.024403	-0.17741	0.387719	-0.45757	0.647579	0.354231	0.113611	3.117938	0.001992
MLLT1.Q03111	0.2883269	0.127598	2.259652	0.024511	0.131649	0.302846	0.434705	0.66424	0.023762	0.088709	0.26786	0.789081
PIAS1.O75925	0.3103349	0.137238	2.261296	0.024519	-0.08765	0.379523	-0.23094	0.817637	0.018424	0.106659	0.172739	0.863057
LMF1.Q96S06	0.3153622	0.139767	2.25634	0.024608	-0.37622	0.348381	-1.07991	0.281262	0.030921	0.101421	0.30488	0.760721
DLST.P36957	-0.558958	0.247967	-2.25416	0.024615	0.483516	0.661232	0.731235	0.465188	-0.01794	0.196872	-0.09111	0.927465
C2CD2L.O14523	-0.691521	0.30682	-2.25383	0.024636	-0.64329	0.826365	-0.77846	0.436894	-0.36617	0.245189	-1.49341	0.136347
PRICKLE1.Q96MT3	-0.479931	0.212799	-2.25532	0.024649	0.989531	0.592167	1.671033	0.095977	-0.09311	0.17569	-0.52998	0.596599
WARS2.Q9UGM6	0.3517894	0.156206	2.252084	0.024747	0.13061	0.427464	0.305546	0.760156	-0.01477	0.127179	-0.11613	0.907623
H2AFY2.Q9P0M6	0.3009975	0.133763	2.250225	0.024865	-0.26858	0.300894	-0.89259	0.372769	0.080948	0.089508	0.904374	0.366499
RFC1.P35251	0.3261771	0.145006	2.249409	0.025037	-0.18266	0.404087	-0.45203	0.651648	0.258338	0.119641	2.159283	0.031799
KATNB1.Q9BVA0	-0.684697	0.30473	-2.24689	0.025079	-0.43469	0.723999	-0.6004	0.54868	-0.16026	0.21531	-0.74433	0.457243
PVRL1.Q15223	-0.446917	0.19896	-2.24626	0.025119	0.018374	0.505236	0.036366	0.971014	-0.14984	0.150058	-0.99856	0.318786
SLC39A10.Q9ULF5	-0.384057	0.170993	-2.24604	0.025134	-0.20658	0.45184	-0.45719	0.647852	-0.29214	0.133432	-2.18946	0.029308
ABLIM2.Q6H8Q1	-0.520866	0.231927	-2.24582	0.025148	0.194061	0.652811	0.29727	0.766459	-0.84108	0.188261	-4.46759	1.11E-05

GEMIN5.Q8TEQ6	0.5771856	0.257016	2.245721	0.025154	-0.9795	0.665059	-1.4728	0.14182	0.078145	0.198485	0.393709	0.694067
IFFO1.Q0D2I5	0.3531935	0.157281	2.245618	0.025213	-0.63154	0.411767	-1.53374	0.126232	0.198474	0.122586	1.619061	0.106568
TMX1.Q9H3N1	0.4824005	0.215251	2.24111	0.025454	-0.32608	0.630686	-0.51703	0.605507	0.054011	0.187674	0.28779	0.773699
HACE1.Q8IYU2	0.5348542	0.238793	2.239821	0.025538	-0.49191	0.634279	-0.77555	0.438607	0.110701	0.188765	0.58645	0.558
TRUB1.Q8WWH5	-0.294428	0.131473	-2.23946	0.025561	0.302459	0.320916	0.942487	0.346677	-0.14533	0.095247	-1.52586	0.128063
SNX10.Q9Y5X0	-0.29595	0.13211	-2.24019	0.025613	0.387981	0.351197	1.104738	0.270331	-0.03195	0.103305	-0.30928	0.757364
UHL3.P15374	0.3399208	0.151868	2.238264	0.02564	0.005092	0.388592	0.013104	0.989554	0.033872	0.115583	0.293053	0.769678
PPP1R9B.D3DTX6	-0.53547	0.239297	-2.23769	0.025678	-0.08148	0.624637	-0.13045	0.896298	-0.88018	0.178973	-4.91795	1.42E-06
API5.Q9BZZ5.2	0.4398557	0.196763	2.235457	0.025825	-0.25181	0.465478	-0.54098	0.588911	-0.03649	0.138521	-0.26342	0.792404
ABCA8.O94911.3	0.1899475	0.085006	2.234524	0.025886	0.086785	0.219227	0.395868	0.692475	0.092796	0.065019	1.427206	0.154527
MAP3K13.O43283	-0.333668	0.149295	-2.23496	0.025918	0.346102	0.426805	0.810913	0.418127	0.047357	0.128349	0.368972	0.712437
MBP.P02686	0.0859891	0.038496	2.233736	0.025938	-0.0218	0.102188	-0.21331	0.831228	0.031048	0.03035	1.023002	0.307104
BCAS1.O75363	0.1428831	0.063971	2.233552	0.025951	0.133199	0.160543	0.82968	0.407358	0.036758	0.047766	0.769544	0.442156
STMN2.E5RGX5	-0.319966	0.143321	-2.23251	0.026019	-0.18124	0.384706	-0.47111	0.637896	-0.10448	0.11433	-0.91389	0.361487
NDC1.Q9BTX1	0.4105614	0.183797	2.233772	0.026035	0.5626	0.513051	1.096575	0.273862	0.172953	0.152336	1.135342	0.257298
GABRA1.P14867	-0.430328	0.192949	-2.23027	0.026169	-0.061	0.514462	-0.11857	0.905691	-0.15977	0.152778	-1.04574	0.296497
XPC.Q01831	0.3039536	0.136279	2.230385	0.026208	-0.28788	0.351598	-0.81878	0.413601	-0.11806	0.106566	-1.10785	0.268866
X0.B4DXG7	-0.310473	0.139285	-2.22905	0.026264	0.329357	0.346782	0.949753	0.342997	0.099817	0.103714	0.962422	0.336608
PPP6R3.H7BXH2	0.7524357	0.337828	2.227277	0.02637	1.206391	0.816497	1.477519	0.140552	0.310926	0.243107	1.278969	0.201865
HPCA.P84074	-0.26107	0.117316	-2.22536	0.026499	0.34377	0.294451	1.167495	0.243908	-0.03149	0.087768	-0.35881	0.719985
PHKB.Q93100.3	0.5554648	0.249622	2.225224	0.026508	0.019472	0.668476	0.029128	0.976781	0.293957	0.198158	1.483445	0.138972
ATCAY.Q86WG3	-0.397376	0.178629	-2.22459	0.026551	0.002013	0.439548	0.004581	0.996348	-0.12307	0.130571	-0.94254	0.34665
SPEN.Q96T58	0.4070758	0.182822	2.226629	0.026559	-0.19727	0.477913	-0.41278	0.680147	0.408224	0.140075	2.914332	0.00391
MPRIP.H0Y2S9	-0.752786	0.338415	-2.22445	0.026561	-0.54151	0.889585	-0.60873	0.543153	-0.16621	0.264626	-0.62811	0.530394
DOCK3.Q8IZD9	-0.536803	0.241385	-2.22384	0.026601	0.651697	0.636172	1.024404	0.306443	-0.21775	0.189166	-1.15113	0.250566
BUD31.P41223	0.3549462	0.159579	2.224259	0.026618	-0.2883	0.410584	-0.70216	0.483165	-0.01696	0.118876	-0.14267	0.886657
LSS.P48449	0.2146604	0.096586	2.222477	0.026694	0.134843	0.261658	0.515339	0.606684	0.005081	0.077872	0.065252	0.948015
CAPRIN2.Q6IMN6	-0.240175	0.108044	-2.22294	0.026725	0.276173	0.295653	0.934112	0.351078	-0.28438	0.08749	-3.25041	0.001298
SLC4A1.P02730	0.1530687	0.068916	2.221081	0.026789	0.090244	0.174241	0.517929	0.604878	0.09338	0.051584	1.810254	0.071225
GRIN2A.Q12879	-0.526419	0.237033	-2.22087	0.026804	0.742542	0.639729	1.160712	0.246652	-0.7157	0.186339	-3.84084	0.000149
RBM4.Q9BWF3	0.4085742	0.18415	2.218699	0.026952	-0.30637	0.420997	-0.72772	0.467335	0.267938	0.124419	2.153516	0.032049
TMEM263.Q8WUH6	-0.313428	0.141464	-2.2156	0.027165	0.500784	0.3471	1.442763	0.150097	-0.2663	0.102492	-2.59827	0.009817
EML2.O95834.3	0.2853456	0.128867	2.214268	0.027257	0.361177	0.349863	1.032341	0.302717	0.072298	0.104176	0.693996	0.488204
SVOP.Q8N4V2	-0.346349	0.156428	-2.21411	0.027268	-0.01514	0.377618	-0.0401	0.96804	-0.0114	0.112333	-0.10144	0.919265

THY1.E9PNQ8	-0.340658	0.153983	-2.21231	0.027393	-0.22048	0.381014	-0.57866	0.563239	0.015285	0.113403	0.134786	0.892868
CEP85.Q6P2H3	0.1200603	0.054225	2.214102	0.027446	0.082201	0.140968	0.583115	0.560408	0.072664	0.041341	1.757674	0.080181
CTTNBP2NL.Q9P2B4	-0.468968	0.21231	-2.20888	0.027632	-0.18405	0.536565	-0.34302	0.731814	-0.18329	0.159309	-1.15051	0.250822
SMARCC2.F8VXC8	0.5220587	0.236464	2.207775	0.02771	0.269603	0.54459	0.495056	0.620911	0.17389	0.161769	1.074931	0.283241
GPD1.P21695	0.1699676	0.077125	2.203782	0.027991	-0.26112	0.197192	-1.3242	0.186411	0.12647	0.058387	2.166087	0.031067
TLE1.Q04724	0.600834	0.272715	2.203161	0.02805	0.005192	0.687746	0.007549	0.993982	0.149314	0.204774	0.729163	0.466467
RALY.Q9UKM9.2	0.4230018	0.192109	2.201881	0.028126	-0.24899	0.471082	-0.52854	0.597502	-0.19919	0.139744	-1.42536	0.15506
SPATA5L1.Q9BVQ7	0.3471675	0.1574	2.205637	0.028148	-0.80236	0.41158	-1.94947	0.052674	-0.05236	0.126363	-0.4144	0.679038
FBXL16.Q8N461	-0.397751	0.18078	-2.2002	0.028246	-0.04983	0.454041	-0.10975	0.912682	-0.42346	0.132913	-3.18596	0.00159
REXO2.HOYGR4	0.4840309	0.220029	2.199854	0.02827	-0.85182	0.561458	-1.51715	0.130248	0.008088	0.167642	0.048243	0.961553
LBR.Q14739	0.2915042	0.132547	2.199253	0.028344	0.000983	0.322996	0.003045	0.997573	0.030667	0.097367	0.314966	0.753013
GLRB.P48167	-0.324554	0.147525	-2.2	0.028375	0.274867	0.381117	0.721215	0.471462	0.177375	0.111829	1.586127	0.113995
PTBP1.A6NLN1	0.3730372	0.169912	2.195467	0.028585	-0.33129	0.462275	-0.71666	0.474122	0.16117	0.137328	1.173614	0.241451
UBTD2.Q8WUN7	0.232821	0.105859	2.199348	0.028601	0.015327	0.259382	0.05909	0.952942	-0.08314	0.077956	-1.0665	0.287528
PEPD.P12955	0.3457387	0.157646	2.193129	0.028754	0.797713	0.403461	1.977177	0.048907	0.164608	0.120414	1.367009	0.172613
CAPN2.P17655	0.3331547	0.152013	2.191617	0.028864	-0.22732	0.404679	-0.56173	0.574707	0.237704	0.119687	1.986046	0.047909
MYO10.A0A0A0MQX1	-0.251787	0.114835	-2.1926	0.028888	-0.05264	0.300812	-0.17501	0.861216	0.120471	0.08821	1.365726	0.173252
FAM63A.Q8N5J2	0.2412325	0.110122	2.190597	0.028938	0.266481	0.286744	0.929335	0.353439	0.07809	0.085305	0.915426	0.36068
AKAP11.Q9UKA4	-0.132024	0.060261	-2.19089	0.028948	-0.20299	0.184536	-1.09998	0.272238	0.05515	0.055643	0.991127	0.322436
ACOX2.Q99424	-0.284432	0.129869	-2.19015	0.029008	0.032163	0.341024	0.094312	0.924928	-0.04334	0.10201	-0.42483	0.671277
FAM134A.Q8NC44	-0.364299	0.166483	-2.18821	0.029113	0.358636	0.448198	0.800172	0.424224	-0.18598	0.13305	-1.39781	0.163169
XRCC6.P12956	0.3918739	0.179154	2.187362	0.029175	0.036321	0.420005	0.086479	0.931142	-0.01698	0.124942	-0.13587	0.892009
CAPRIN1.Q14444	-0.649719	0.297058	-2.18718	0.029188	-1.85632	0.777794	-2.38664	0.017603	-0.40218	0.232376	-1.73072	0.084497
CD82.P27701	0.1689436	0.077244	2.187131	0.029192	-0.18389	0.206093	-0.89227	0.372942	0.019251	0.061378	0.313647	0.754
ASPA.P45381	0.1434381	0.065597	2.186648	0.029227	0.096141	0.171642	0.560123	0.5758	0.055174	0.05099	1.082053	0.28007
SUPT5H.O00267.2	0.5087791	0.232697	2.186445	0.029242	0.171424	0.562702	0.304644	0.760842	0.151805	0.167197	0.907941	0.364614
ZNF592.Q92610	0.2608794	0.119154	2.189424	0.029383	0.225906	0.2956	0.76423	0.445736	-0.00466	0.086602	-0.05384	0.957122
ATP2B3.Q16720.2	-0.51193	0.234566	-2.18246	0.029536	0.880515	0.615111	1.431474	0.153302	0.072804	0.183542	0.396661	0.69189
ATIC.P31939	0.4232242	0.193924	2.182425	0.029539	-0.19047	0.504056	-0.37787	0.705783	0.120309	0.149826	0.802987	0.422598
LRBA.P50851.2	0.5945158	0.272644	2.180559	0.029678	-0.9381	0.722819	-1.29783	0.19531	0.250531	0.215139	1.164507	0.245114
RDX.P35241	0.2469551	0.113266	2.180306	0.029697	-0.43281	0.30279	-1.4294	0.153895	0.029674	0.090355	0.328419	0.742817
DDX21.Q9NR30	0.3619305	0.166174	2.178016	0.029868	0.196342	0.406624	0.482857	0.629538	0.068899	0.120946	0.56967	0.569314
TBL1XR1.Q9BZK7	0.4921472	0.226011	2.177537	0.029904	-0.20625	0.630891	-0.32692	0.743947	0.048087	0.187691	0.2562	0.797966
NEFM.E7ESP9	0.1592699	0.073143	2.177526	0.029904	0.171089	0.195703	0.874231	0.382669	0.108721	0.057962	1.875731	0.061632

TMEM186.Q96B77	-0.287596	0.132087	-2.17731	0.029936	0.231186	0.347077	0.666095	0.505867	-0.02561	0.101084	-0.25339	0.800144
PRDX1.Q06830	0.4033807	0.18537	2.176089	0.030012	-0.33831	0.460796	-0.73418	0.463392	0.370596	0.135574	2.733537	0.006626
DNAH9.Q9NYC9	-0.255672	0.117239	-2.18078	0.03002	0.402653	0.275713	1.460408	0.146068	-0.02992	0.080935	-0.36971	0.712068
KIAA1279.Q96EK5	-0.484456	0.222802	-2.17438	0.030141	-0.05077	0.596795	-0.08507	0.932257	-0.02855	0.177531	-0.16084	0.872321
NDUFA3.O95167	-0.214749	0.098781	-2.17399	0.030171	0.261638	0.257745	1.015103	0.310848	-0.02131	0.076793	-0.27745	0.781618
HABP4.Q5JVS0	-0.31517	0.145008	-2.17346	0.03021	-0.31186	0.420708	-0.74127	0.45909	-0.82883	0.116082	-7.13999	6.67E-12
SORCS1.Q8WY21	-0.37414	0.172139	-2.17347	0.030241	-0.21388	0.447302	-0.47815	0.632905	-0.12635	0.13029	-0.96973	0.332993
TMCC3.G3V207	0.1921184	0.0884	2.17328	0.030247	-0.05326	0.23104	-0.23054	0.817828	0.02687	0.069057	0.389106	0.697478
ATG12.O94817	-0.362242	0.166675	-2.17334	0.030266	0.260143	0.428691	0.606832	0.544458	0.019446	0.121411	0.160163	0.872869
RADIL.Q96JH8.1	0.2475372	0.113862	2.174017	0.030299	-0.25002	0.286639	-0.87225	0.383922	0.008872	0.086724	0.1023	0.918602
PSMB8.P28062	0.3442938	0.158571	2.171228	0.03038	-0.87428	0.461513	-1.89439	0.059104	0.160592	0.137783	1.16554	0.244696
ELMOD1.E9PLM8	-0.402138	0.185239	-2.17092	0.030403	0.074889	0.456304	0.164121	0.869743	0.115906	0.135589	0.854838	0.393301
SYT1.P21579	-0.321895	0.148278	-2.17088	0.030406	0.220889	0.386115	0.572081	0.567681	-0.12309	0.11471	-1.07304	0.284089
GTF2A2.P52657	0.3689675	0.170023	2.170105	0.030495	0.032152	0.411747	0.078086	0.937813	0.120007	0.121966	0.983944	0.325952
KALRN.H7BXZ5	-0.464842	0.214247	-2.16965	0.0305	0.115849	0.537481	0.215541	0.829487	-0.24248	0.159309	-1.52208	0.129009
L3HYPDH.Q96EM0	0.150382	0.069333	2.168985	0.030551	-0.30597	0.167826	-1.82315	0.069244	0.136151	0.049593	2.745366	0.006397
HIRIP3.Q9BW71	0.2201059	0.101222	2.174488	0.03057	-0.05393	0.283383	-0.19032	0.849289	0.117357	0.079438	1.477334	0.141458
THUMPD1.Q9NXG2	0.46007	0.212194	2.168162	0.030614	-0.91574	0.551023	-1.6619	0.097544	-0.26506	0.163959	-1.61664	0.106972
PHB.P35232	-0.527585	0.243338	-2.16812	0.030617	-0.30262	0.627747	-0.48207	0.630096	0.136291	0.186653	0.730181	0.465831
PELO.Q9BRX2	0.4186102	0.193094	2.167906	0.030633	-0.17473	0.486004	-0.35952	0.719452	0.44162	0.142416	3.100913	0.002107
LMNB2.J9JID7	0.3858353	0.178101	2.16638	0.03075	0.242906	0.389525	0.623594	0.533353	0.046254	0.11592	0.399015	0.690157
DCLK1.O15075	-0.436518	0.201674	-2.16447	0.030897	-0.39789	0.483048	-0.82371	0.410735	-0.17465	0.143513	-1.21695	0.22455
NEFL.P07196	0.1594602	0.073699	2.163676	0.030958	0.12111	0.199681	0.606517	0.544616	0.128765	0.058985	2.183016	0.029784
NUBP2.Q9Y5Y2	0.2733324	0.126349	2.163317	0.030986	-0.11574	0.314128	-0.36844	0.712797	0.179665	0.092909	1.933772	0.054051
ISCU.Q9H1K1	-0.422441	0.195294	-2.1631	0.031003	-0.28569	0.524005	-0.54521	0.586004	-0.27424	0.155177	-1.76726	0.078168
CUL4B.K4DI93	0.6169716	0.285502	2.161003	0.031165	0.012978	0.702141	0.018483	0.985266	0.324	0.208062	1.557226	0.120437
OTUD7B.Q6GQQ9	0.3121824	0.144485	2.160661	0.031192	-0.27799	0.370876	-0.74955	0.454095	0.006293	0.110428	0.056984	0.954594
HCFC1.A6NEM2	0.5044918	0.233576	2.159864	0.031254	-0.37872	0.541987	-0.69876	0.485226	-0.27254	0.160614	-1.69688	0.090722
HK1.P19367	-0.534901	0.2479	-2.15773	0.031421	0.764972	0.666158	1.148335	0.251716	-0.03591	0.198581	-0.18082	0.856631
MAP3K5.Q99683	0.5445764	0.252595	2.155931	0.031562	0.253151	0.645753	0.392024	0.69531	0.670481	0.188336	3.560018	0.000429
PRKAR2B.P31323	-0.425064	0.19728	-2.15463	0.031664	0.121632	0.467512	0.260169	0.794906	0.00078	0.139092	0.005609	0.995528
GPR37.O15354	0.1833105	0.08504	2.155586	0.031674	0.154665	0.212399	0.728181	0.467143	0.06264	0.063311	0.989391	0.323371
PLEKHB1.Q9UF11	0.1485643	0.06898	2.153724	0.031735	-0.13158	0.184783	-0.71209	0.476945	0.045648	0.054953	0.830669	0.4068
TAGLN3.Q9UI15	-0.387926	0.180138	-2.15349	0.031754	-0.29735	0.465841	-0.63832	0.523739	-0.14334	0.138431	-1.03546	0.301262

DBNL.Q9UJU6	-0.438793	0.20384	-2.15264	0.031821	-0.33483	0.524515	-0.63837	0.523705	-0.26174	0.155427	-1.68397	0.093193
ALDH6A1.Q02252	-0.375856	0.174604	-2.15261	0.031823	0.269954	0.457132	0.590539	0.55526	-0.04364	0.136043	-0.32081	0.748572
ROCK1.Q13464	0.4074124	0.18927	2.152542	0.031829	-0.48805	0.510518	-0.95598	0.339826	0.340574	0.150859	2.257572	0.024668
ISLR.O14498	0.2481036	0.11532	2.15144	0.031981	-0.08583	0.29155	-0.2944	0.76868	-0.01605	0.08471	-0.18946	0.849872
BYSL.Q13895	-0.257602	0.11985	-2.14937	0.032224	0.204485	0.341309	0.599118	0.549674	-0.06439	0.096262	-0.66894	0.504194
DNPEP.E7ETB3	0.4705706	0.219136	2.147386	0.032239	-0.53858	0.584286	-0.92178	0.357362	0.218589	0.173609	1.259085	0.208947
IDH2.P48735	-0.341233	0.158915	-2.14727	0.032248	0.215832	0.425873	0.506798	0.612657	-0.1137	0.126578	-0.89829	0.369727
DHX36.Q9H2U1	0.4310316	0.200773	2.146855	0.032281	0.037525	0.478531	0.078417	0.937547	0.026903	0.142348	0.188997	0.850219
PTN.P21246	0.1149953	0.053568	2.146717	0.032292	-0.08887	0.13894	-0.63961	0.522899	-0.06321	0.041203	-1.53421	0.125999
PRKAA1.Q13131	0.5990336	0.279066	2.146567	0.032304	1.007984	0.735032	1.371348	0.171258	0.41007	0.218081	1.880355	0.060997
PYCR2.Q96C36	-0.276819	0.128961	-2.14653	0.032355	0.496526	0.317957	1.561615	0.119496	-0.06666	0.093929	-0.70966	0.478496
CACNA2D1.P54289.2	-0.439814	0.205009	-2.14535	0.032402	-0.01067	0.503298	-0.02119	0.983104	-0.01782	0.149719	-0.11903	0.905328
ACTN4.K7EJH8	-0.20679	0.096434	-2.14436	0.032482	0.216723	0.248528	0.872025	0.38387	-0.05952	0.073946	-0.80492	0.421484
ZNHIT3.Q15649	0.3263752	0.152063	2.146317	0.032541	-0.01885	0.368426	-0.05115	0.959251	0.324351	0.104136	3.114684	0.002095
XYLB.O75191	-0.289717	0.134879	-2.14797	0.032583	0.5052	0.384642	1.313429	0.190768	0.131315	0.109433	1.199961	0.231786
ZBTB4.Q9P1Z0	-0.28709	0.133788	-2.14586	0.032594	0.128172	0.376386	0.340533	0.733788	-0.18463	0.109016	-1.69365	0.091781
PSD3.B4DKF8	-0.28758	0.134281	-2.14162	0.032703	-0.12876	0.339126	-0.37968	0.704441	-0.2672	0.09976	-2.67848	0.00779
ATP4A.P20648	-0.294709	0.13743	-2.14443	0.032783	0.54506	0.35757	1.524345	0.129121	0.002676	0.108765	0.024607	0.980395
ANK3.Q12955	0.530314	0.24779	2.140177	0.03282	0.885208	0.613709	1.44239	0.150202	-0.1157	0.183061	-0.632	0.527852
WNK1.Q9H4A3.7	0.6711315	0.313832	2.138506	0.032956	0.576743	0.829687	0.695133	0.487493	-0.36843	0.246122	-1.49696	0.135421
NUP98.P52948	0.655882	0.306723	2.138355	0.032968	-0.07177	0.731113	-0.09816	0.921868	-0.52806	0.215419	-2.45132	0.014785
NCKAP1.Q9Y2A7.2	-0.61554	0.288102	-2.13654	0.033117	-0.53286	0.755296	-0.70549	0.481033	0.007726	0.224867	0.034358	0.972614
ANKS1B.Q7Z6G8	-0.497313	0.232851	-2.13576	0.03318	-0.25392	0.597798	-0.42476	0.671309	-0.13261	0.177727	-0.74615	0.456145
TIMM13.Q9Y5L4	-0.294653	0.137967	-2.13568	0.033187	0.549268	0.359871	1.526292	0.127957	-0.03657	0.107437	-0.34042	0.733769
GNA11.P29992	0.4353393	0.203879	2.135281	0.03322	-0.40314	0.462816	-0.87106	0.384395	-0.00942	0.137847	-0.06835	0.94555
PCDH8.O95206	-0.292613	0.137037	-2.13528	0.03322	-0.17113	0.353621	-0.48393	0.628779	0.022186	0.105228	0.210838	0.833152
LARP1.Q6PKG0	-0.602631	0.282408	-2.1339	0.033333	-0.59109	0.763197	-0.7745	0.439228	-0.96822	0.220503	-4.39096	1.55E-05
GGT1.P19440	0.343346	0.160954	2.133194	0.033405	-0.49897	0.424398	-1.17572	0.240639	0.13393	0.125397	1.06805	0.286357
WDR18.Q9BV38	0.4387893	0.205742	2.132716	0.033431	0.139827	0.503673	0.277616	0.781493	0.012259	0.149851	0.081808	0.934852
BAG2.O95816	-0.440238	0.206481	-2.1321	0.033482	-0.9062	0.560469	-1.61685	0.106927	0.110883	0.167313	0.662727	0.507998
PSMC4.P43686	0.4971331	0.233392	2.130031	0.033653	0.649021	0.59196	1.096393	0.273758	0.188357	0.176114	1.069515	0.28567
KLHL9.Q9P2J3	0.3790172	0.177691	2.133016	0.033696	-0.69286	0.47774	-1.45029	0.148535	0.239824	0.142961	1.677542	0.094991
ATP8A2.Q9NTI2	0.5486303	0.258003	2.126445	0.033951	-0.80378	0.679451	-1.18298	0.237723	0.411862	0.201225	2.046773	0.041523
LEMD2.Q8NC56	0.4611646	0.216967	2.125507	0.03403	-0.32874	0.535275	-0.61415	0.539567	-0.10974	0.15921	-0.68925	0.49118

MAP2K6.P52564	0.4061922	0.191185	2.124607	0.034106	0.112771	0.497944	0.226473	0.820982	0.283685	0.147263	1.92638	0.054971
NNT.Q13423	-0.436409	0.205434	-2.12433	0.034129	0.207622	0.543998	0.38166	0.702975	0.056574	0.161836	0.349578	0.726893
LYAR.Q9NX58	0.2972695	0.139804	2.126337	0.034197	-0.09094	0.406877	-0.22351	0.823364	0.090791	0.120345	0.754422	0.451462
PFDN5.Q99471	-0.63717	0.300142	-2.1229	0.034249	0.037813	0.783234	0.048278	0.961526	-0.08163	0.232953	-0.35043	0.726255
KHK.P50053	0.1591569	0.074997	2.122183	0.034333	-0.02044	0.192086	-0.10644	0.915309	0.040281	0.056702	0.710402	0.478016
RTFDC1.A0A0A0MQR2	0.3187832	0.150231	2.12196	0.034359	0.311024	0.387143	0.803384	0.422406	-0.15135	0.114321	-1.32389	0.186575
EPB41L3.Q9Y2J2.4	-0.264447	0.124748	-2.11984	0.034507	0.518339	0.315132	1.644829	0.101019	-0.13496	0.093842	-1.43822	0.151382
HNRNPF.P52597	0.3241274	0.153043	2.117879	0.034674	-0.27457	0.380219	-0.72214	0.470752	0.251375	0.1123	2.23843	0.025903
YWHAH.Q04917	-0.432435	0.20435	-2.11615	0.034822	-0.33124	0.505452	-0.65534	0.512732	-0.0937	0.150373	-0.62313	0.533656
C14orf166.Q9Y224	0.5100318	0.241072	2.115678	0.034862	0.219943	0.576401	0.381579	0.703035	0.313492	0.170583	1.837769	0.067053
ANKRD10.Q9NXR5	0.2318971	0.109255	2.122528	0.034872	0.327	0.246273	1.327796	0.186318	0.05861	0.077865	0.752716	0.452832
EPB41L1.A0A0C4DH22	-0.535231	0.2532	-2.11386	0.035017	0.299205	0.642501	0.465687	0.641766	-0.24108	0.190709	-1.26413	0.207134
BPHL.Q86WA6	-0.159959	0.07569	-2.11335	0.035062	0.090448	0.194887	0.464106	0.642897	0.014559	0.05799	0.251058	0.801936
MAP3K12.Q12852.2	-0.479276	0.226778	-2.11342	0.035115	-0.16267	0.592537	-0.27452	0.78389	0.121131	0.1717	0.705483	0.481109
SP3.H0Y7L6	0.2568165	0.12135	2.116332	0.035246	0.231207	0.282195	0.819318	0.413816	-0.16018	0.089168	-1.79637	0.074311
GCFC2.P16383	0.307299	0.145541	2.111431	0.035259	0.04679	0.349925	0.133716	0.893719	-0.21398	0.104082	-2.05591	0.040674
SNTB2.Q13425	-0.585936	0.277587	-2.11082	0.03528	0.597995	0.711341	0.840659	0.401187	-0.62648	0.208843	-2.99978	0.002921
BRINP2.Q9C0B6	-0.354436	0.16798	-2.10998	0.035352	0.431995	0.434323	0.99464	0.320687	-0.14364	0.129152	-1.11216	0.266932
SCAMP4.Q969E2	0.5372415	0.254714	2.109197	0.03542	-1.29622	0.629008	-2.06074	0.040162	0.066553	0.188358	0.353335	0.724078
LMNB1.P20700	0.2860866	0.135685	2.108456	0.035484	-0.05955	0.321658	-0.18515	0.853233	0.038545	0.095668	0.402901	0.687299
XPNPEP1.Q9NQW7.3	0.5786987	0.274493	2.108248	0.035503	0.877307	0.789351	1.111429	0.267245	0.166456	0.235095	0.708034	0.479456
LMTK2.Q8IWU2	-0.471387	0.223606	-2.10811	0.035514	-0.88684	0.592277	-1.49733	0.135324	-0.12423	0.176687	-0.70313	0.482503
ADRBK1.P25098	-0.507477	0.240862	-2.10692	0.035618	-0.72452	0.614324	-1.17937	0.239154	-0.4543	0.181333	-2.50534	0.012746
ACTR2.P61160.2	-0.532914	0.253036	-2.10608	0.035691	0.048399	0.650729	0.074377	0.940758	0.150587	0.193393	0.778657	0.436776
PPIL4.Q8WUA2	0.4074841	0.193509	2.105764	0.035719	-0.56899	0.475449	-1.19675	0.23232	0.139648	0.141542	0.986619	0.324599
GAR1.Q9NY12	0.435911	0.207319	2.102611	0.035995	0.275747	0.517614	0.532727	0.594604	0.277465	0.153243	1.810619	0.071168
CLPTM1.O96005	-0.502407	0.238945	-2.1026	0.035996	-0.16589	0.628271	-0.26404	0.791928	-0.47703	0.184947	-2.57926	0.010362
WASF1.Q92558	-0.397183	0.188983	-2.10168	0.036077	0.191594	0.458758	0.417638	0.676501	-0.19709	0.136051	-1.44864	0.148449
FXR1.P51114	0.5979595	0.284546	2.101453	0.036097	-0.26477	0.731487	-0.36197	0.717625	-0.02332	0.217646	-0.10716	0.91473
SH3GL2.Q99962	-0.36387	0.17321	-2.10075	0.036159	0.729121	0.454042	1.605843	0.109327	0.0468	0.135604	0.345125	0.730234
REBPA.A6NKZ2	0.2410783	0.114766	2.100605	0.036172	-0.1924	0.28681	-0.67083	0.50283	0.04724	0.085341	0.553544	0.58029
CISD2.Q8N5K1	0.5146818	0.245059	2.100237	0.036204	-0.69352	0.616236	-1.12541	0.261287	0.485959	0.181608	2.675869	0.00785
COG2.Q14746	0.5470137	0.260542	2.099524	0.036267	-0.34985	0.61838	-0.56575	0.571975	0.24588	0.183521	1.339788	0.181296
MYO5A.Q9Y4I1.2	-0.598062	0.285106	-2.09768	0.036431	0.269112	0.720559	0.373476	0.709049	0.282131	0.213802	1.319588	0.187946

SHANK3.Q9BYB0	-0.419412	0.200009	-2.09696	0.036494	0.238721	0.531547	0.449105	0.65367	-0.74239	0.152454	-4.86962	1.79E-06
TOMM70A.O94826	-0.53685	0.256047	-2.09668	0.03652	0.249183	0.665195	0.374601	0.708214	-0.09117	0.197861	-0.46078	0.645277
VPRBP.Q9Y4B6	0.4247485	0.202603	2.096458	0.03654	-0.05907	0.487837	-0.12108	0.903707	-0.10117	0.145012	-0.69767	0.485908
IDH1.O75874	0.3631504	0.173273	2.095822	0.036596	-0.83181	0.479858	-1.73344	0.084012	0.364995	0.141934	2.571587	0.010589
SLC44A1.Q8WWI5.3	0.1598646	0.076299	2.095238	0.036648	-0.03403	0.202061	-0.1684	0.866376	-0.03537	0.060079	-0.58878	0.556437
BCAS1.H0Y542	0.1181792	0.056517	2.091037	0.037025	-0.07045	0.149359	-0.47166	0.637499	0.043483	0.044379	0.979816	0.327941
NUDCD2.Q8WVJ2	0.4145287	0.198241	2.091035	0.037025	-0.83937	0.540873	-1.55188	0.121711	0.119679	0.161381	0.741593	0.458896
STRN.O43815	-0.736712	0.352475	-2.09012	0.037108	0.593006	0.895852	0.661947	0.508497	-0.39981	0.26572	-1.50465	0.133433
PTPRT.B1AJR9	-0.460074	0.220252	-2.08885	0.037222	0.195604	0.534215	0.366153	0.714501	0.015062	0.158952	0.094759	0.924568
SPTB.P11277.2	0.336739	0.161286	2.087836	0.037314	0.139659	0.376078	0.371358	0.710625	0.07077	0.111829	0.632842	0.527303
NCAM1.A0A087X1V2	0.2600474	0.124617	2.086767	0.037411	-0.1139	0.323635	-0.35193	0.725126	0.021866	0.096287	0.227097	0.820498
C9orf64.Q5T6V5	0.419156	0.20087	2.0867	0.037417	0.128782	0.546662	0.235578	0.813915	-0.07641	0.162579	-0.46997	0.63871
PPIF.P30405	-0.445823	0.213672	-2.08649	0.037437	0.174165	0.55618	0.313146	0.754381	-0.01461	0.165478	-0.08832	0.929681
APEX1.P27695	0.3784748	0.181453	2.0858	0.037499	-0.42182	0.451879	-0.93347	0.351304	-0.10447	0.134484	-0.77682	0.437859
CNOT7.Q9UIV1	0.4038819	0.193601	2.086155	0.037519	0.433846	0.509903	0.85084	0.395585	0.069769	0.148502	0.469816	0.638852
NIFK.Q9BYG3	0.3456387	0.165503	2.088419	0.037522	-0.52619	0.476081	-1.10524	0.270336	-0.05859	0.146669	-0.39944	0.689984
ITGA3.P26006	0.1698711	0.081501	2.084283	0.037663	-0.21134	0.21733	-0.97245	0.331631	0.021683	0.063913	0.339262	0.734656
ANLN.Q9NQW6	0.1008101	0.048382	2.083643	0.037696	-0.04259	0.129613	-0.32856	0.742707	0.080833	0.03829	2.111066	0.035567
SCN2B.O60939	-0.453088	0.217616	-2.08206	0.037841	0.440803	0.575177	0.766377	0.444035	-0.01602	0.171265	-0.09356	0.925522
KCTD5.Q9NXV2	0.431649	0.206909	2.086174	0.037884	-0.25306	0.635014	-0.39852	0.690749	0.554918	0.183715	3.020531	0.002913
ZC3H13.Q5T200	0.1463309	0.070349	2.080079	0.038073	-0.2164	0.201984	-1.07138	0.284909	0.004475	0.060169	0.07438	0.94076
FAM107B.Q9H098	0.1444808	0.069501	2.078823	0.038139	0.000322	0.174231	0.00185	0.998525	-0.01053	0.051827	-0.20326	0.839062
SUCLG1.P53597	-0.441007	0.212206	-2.0782	0.038197	0.178819	0.590521	0.302815	0.762234	-0.27234	0.175013	-1.5561	0.120706
RPS4Y1.P22090	-0.092517	0.044409	-2.08329	0.038228	-0.14251	0.151872	-0.93838	0.349601	0.016496	0.039506	0.417555	0.676886
ADRBK2.P35626	-0.304527	0.146571	-2.07768	0.038244	-0.12356	0.366618	-0.33703	0.736326	0.031781	0.109068	0.291387	0.77095
TTYH2.B4DKD1	0.2415437	0.116333	2.076307	0.038372	0.042949	0.298733	0.143771	0.885774	-0.02633	0.088858	-0.2963	0.767202
GID4.Q8IVV7	0.2409377	0.115944	2.078046	0.038376	0.093755	0.291522	0.321604	0.748044	-0.01717	0.081216	-0.21146	0.832715
LAP3.P28838	0.2118862	0.102082	2.07565	0.038433	-0.1447	0.288296	-0.50192	0.616078	0.135871	0.08545	1.590069	0.112839
TAMM41.Q96BW9.3	-0.323249	0.155739	-2.07558	0.038439	0.454943	0.424276	1.07228	0.284428	0.051294	0.126415	0.40576	0.685199
MAPRE3.Q9UPY8	-0.488633	0.23553	-2.07461	0.03853	-0.58742	0.609822	-0.96327	0.336162	-0.43448	0.179999	-2.41377	0.016368
CAND1.Q86VP6	0.5305931	0.255784	2.074376	0.038551	0.078321	0.668883	0.117092	0.906863	0.309607	0.198207	1.562038	0.119299
KCTD6.Q8NC69	-0.296543	0.142961	-2.07429	0.038613	-0.08456	0.368431	-0.22951	0.818642	-0.00548	0.10947	-0.05004	0.96013
DNM2.P50570.2	0.3678342	0.177421	2.073232	0.038658	-0.11452	0.475885	-0.24065	0.809985	0.287235	0.140638	2.042378	0.04196
AP2B1.P63010	-0.539917	0.260742	-2.0707	0.038896	0.198922	0.642811	0.309457	0.757182	0.026782	0.191248	0.140037	0.888722

ZADH2.Q8N4Q0	-0.442007	0.213601	-2.06932	0.039025	0.365261	0.547053	0.667688	0.504829	-0.1193	0.162715	-0.73319	0.463994
MSMO1.Q15800	-0.196777	0.095095	-2.06928	0.039038	-0.5055	0.242214	-2.08699	0.037717	0.085854	0.072792	1.179441	0.239139
COL11A1.P12107	0.0642474	0.031045	2.069494	0.039065	-0.07008	0.076614	-0.91468	0.361143	-0.00209	0.022953	-0.09097	0.927583
MACF1.Q9UPN3.3	-0.174722	0.084465	-2.06857	0.039104	0.333029	0.225076	1.479625	0.140012	0.006779	0.067271	0.100769	0.919801
CLCC1.Q96S66	0.5228083	0.252838	2.067764	0.039172	-0.89935	0.663872	-1.3547	0.176499	-0.36168	0.197006	-1.83586	0.067336
LETM1.O95202	-0.427512	0.206769	-2.06758	0.039189	0.442904	0.516889	0.856865	0.392182	-0.07728	0.153885	-0.50217	0.615903
ILDR2.Q71H61	-0.365771	0.177064	-2.06576	0.039362	0.468994	0.455495	1.029636	0.303984	-0.48087	0.132957	-3.61672	0.000348
SGTB.Q96EQ0	-0.376162	0.182095	-2.06575	0.039363	0.459078	0.462017	0.993637	0.321174	-0.12581	0.137475	-0.91514	0.360828
FGF12.P61328	-0.271985	0.131687	-2.06539	0.039397	0.054884	0.34101	0.160945	0.872242	0.054305	0.101402	0.535543	0.592658
C7orf25.Q9BPX7	-0.374804	0.181376	-2.06645	0.0394	0.735046	0.471173	1.560033	0.119978	0.183007	0.137055	1.335285	0.18296
KCNMA1.J3KQ16	-0.360418	0.174299	-2.06781	0.039454	0.393519	0.484766	0.811772	0.417912	0.0839	0.143268	0.585618	0.558809
KIFAP3.Q92845	-0.459999	0.223161	-2.06129	0.039788	0.580092	0.563643	1.029183	0.304196	0.050086	0.167936	0.298247	0.765714
GLTP.Q9NZD2	0.117336	0.056937	2.060797	0.039835	-0.01996	0.149195	-0.13377	0.893673	0.0535	0.04428	1.208207	0.227889
PRKACB.P22694.9	-0.246019	0.119382	-2.06078	0.039851	0.124642	0.305693	0.407737	0.683758	-0.26033	0.089052	-2.92329	0.003727
EMC2.Q15006	0.6329858	0.30724	2.060233	0.039889	-1.3786	0.763522	-1.80558	0.071954	0.713972	0.224696	3.177506	0.001635
ACVR1.Q04771	0.3585351	0.174077	2.059634	0.040008	-0.04501	0.440125	-0.10226	0.918624	0.176358	0.130385	1.352593	0.177285
NACA.F8VZJ2	-0.421578	0.204794	-2.05854	0.040051	-0.47624	0.509601	-0.93453	0.350759	-0.55061	0.148555	-3.70644	0.000249
PDCD2L.Q9BRP1	-0.225621	0.109393	-2.06248	0.040053	0.610065	0.259024	2.355239	0.019564	-0.04397	0.08347	-0.52672	0.599021
KDSR.K7ERC8	0.1072182	0.052049	2.059942	0.040072	-0.03376	0.145085	-0.23268	0.816216	0.028807	0.041783	0.689438	0.491228
BRCC3.P46736	0.4706727	0.228793	2.057198	0.040181	-0.36782	0.513566	-0.7162	0.474405	0.147119	0.152675	0.963611	0.335992
PIP4K2B.A0A087WT35	-0.093298	0.045353	-2.05714	0.040187	0.13336	0.119214	1.118656	0.264153	-0.00971	0.035531	-0.27336	0.78476
CELF6.Q96J87	-0.307857	0.149681	-2.05675	0.04026	-0.10058	0.398769	-0.25223	0.801046	-0.18773	0.11497	-1.63286	0.103591
ACTR2.P61160	-0.22097	0.107496	-2.05561	0.040335	0.307081	0.278836	1.101296	0.271622	-0.04486	0.083072	-0.54001	0.58958
NUP214.P35658	0.5340221	0.259794	2.055557	0.04034	0.41146	0.673482	0.610945	0.541684	-0.39778	0.199192	-1.99696	0.046703
DOCK1.A0A096LNH6	0.3436695	0.16727	2.05458	0.040435	-0.01165	0.447026	-0.02607	0.979218	0.186849	0.132558	1.40956	0.159672
LMNA.P02545	0.2609125	0.127006	2.054335	0.040458	-0.32925	0.319504	-1.03052	0.30357	0.038725	0.095184	0.406849	0.6844
DYNLT1.P63172	0.252779	0.123064	2.054047	0.040495	0.124416	0.319215	0.389756	0.69699	0.256505	0.093941	2.730497	0.006694
MORF4L2.Q15014	0.22712	0.110659	2.052423	0.040677	-0.18805	0.266705	-0.7051	0.481309	0.038536	0.07894	0.488165	0.6258
ARAP1.Q96P48	0.3884539	0.189463	2.050294	0.040853	-0.35378	0.47189	-0.74971	0.453995	0.10235	0.140386	0.729065	0.466512
GALNT1.Q10472	0.4254126	0.207022	2.054917	0.040952	-0.26953	0.564792	-0.47722	0.633924	0.114117	0.151673	0.752387	0.453038
NGEF.Q8N5V2	-0.272649	0.133048	-2.04926	0.040954	-0.02338	0.322305	-0.07254	0.942219	-0.17605	0.095358	-1.84617	0.06582
UBA2.Q9UBT2	0.4401642	0.214832	2.048879	0.040991	-0.22646	0.510815	-0.44333	0.657836	0.042735	0.151987	0.281177	0.778762
TNC.P24821	0.087132	0.042558	2.047359	0.041141	-0.09472	0.11207	-0.84518	0.398664	0.048132	0.033265	1.44691	0.148933
ACAP2.H7C3Q8	-0.240669	0.117479	-2.04862	0.04115	0.147841	0.337939	0.437478	0.662152	0.048776	0.097764	0.49892	0.618285

BPGM.P07738	0.3221527	0.157364	2.047186	0.041158	0.113803	0.390713	0.29127	0.77104	0.193941	0.115723	1.675906	0.094765
ADRA1A.P35348	0.2509843	0.122407	2.050407	0.041246	-0.1589	0.320985	-0.49505	0.621196	0.146481	0.089273	1.640834	0.102649
TERF2.Q15554	0.3244246	0.158531	2.046448	0.041248	-0.14731	0.35707	-0.41254	0.680233	-0.09867	0.106289	-0.92828	0.354003
CHN2.P52757	0.2442021	0.119401	2.045222	0.041352	0.027692	0.272444	0.101643	0.919106	0.09775	0.080858	1.208906	0.22762
CAMSAP1.Q5T5Y3	-0.696511	0.340665	-2.04456	0.041417	0.37996	0.911986	0.416629	0.677238	-0.83101	0.26724	-3.10962	0.002047
AIG1.Q9NVV5	0.0772436	0.037782	2.044446	0.041444	-0.01904	0.100349	-0.18969	0.849677	0.017488	0.029998	0.582966	0.560352
CNP.P09543	0.1112998	0.05445	2.044086	0.041464	-0.01762	0.145117	-0.12142	0.90344	0.053861	0.043062	1.250768	0.211962
PLEC.Q15149	0.3496274	0.171115	2.043231	0.041549	-0.2263	0.44212	-0.51185	0.609118	0.098939	0.131458	0.752623	0.452248
FDX1L.Q6P4F2	-0.346051	0.16937	-2.04317	0.041555	-0.37516	0.42903	-0.87443	0.382559	-0.37673	0.125982	-2.99034	0.00301
C16orf58.H3BSM7	-0.410476	0.20091	-2.04309	0.041563	0.071385	0.556601	0.128251	0.898033	-0.47492	0.163372	-2.90697	0.003913
NUP160.Q12769	0.41137	0.201352	2.043043	0.041568	0.309704	0.485756	0.637571	0.524223	0.329034	0.143386	2.29474	0.022416
IGHV5.51.A0A0C4DH38	-0.133814	0.065347	-2.04774	0.041587	0.144853	0.183703	0.788517	0.431547	-0.05835	0.054434	-1.07194	0.285343
GNG3.P63215	-0.301407	0.147565	-2.04255	0.041617	0.555655	0.39391	1.410614	0.159361	-0.05845	0.11751	-0.49744	0.619233
HSPD1.P10809	-0.464675	0.227507	-2.04246	0.041626	-0.08032	0.602284	-0.13335	0.894001	0.028227	0.179167	0.157543	0.874919
PARS2.Q7L3T8	-0.453863	0.222267	-2.04197	0.041674	0.563211	0.564571	0.99759	0.319256	0.022016	0.168215	0.13088	0.895956
LAMP2.P13473	0.1797063	0.08802	2.041652	0.041706	0.033149	0.228058	0.145354	0.884526	0.050137	0.067786	0.739641	0.460078
DHX29.A0A087WYN9	0.5530006	0.270882	2.041483	0.041723	0.770206	0.649323	1.186168	0.236464	0.442844	0.191959	2.30697	0.021715
AKT1.P31749	0.5462344	0.267613	2.041135	0.041758	0.292238	0.644507	0.453429	0.650557	0.222553	0.191376	1.162908	0.245761
RGCC.Q9H4X1	0.1635322	0.080105	2.041484	0.041778	0.065395	0.20574	0.317852	0.750833	-0.03911	0.060788	-0.64341	0.520479
GFRA2.O00451	-0.330384	0.162035	-2.03897	0.041975	-0.12358	0.369294	-0.33463	0.73813	-0.14636	0.109563	-1.33589	0.182565
PHB2.Q99623	-0.483503	0.237267	-2.0378	0.042092	0.466221	0.607606	0.767308	0.443482	-0.05841	0.180893	-0.32291	0.746984
CASK.O14936.2	0.6700737	0.32883	2.037753	0.042096	1.094632	0.82035	1.334348	0.183069	0.180007	0.244526	0.736146	0.462199
NSF.P46459	-0.516589	0.253511	-2.03774	0.042098	0.529162	0.636626	0.831197	0.406502	0.23962	0.189107	1.267115	0.206065
CALU.O43852.4	0.2290717	0.112403	2.037944	0.042113	0.131237	0.278088	0.471924	0.637333	0.168563	0.082095	2.053273	0.040937
GGT7.Q9UJ14	-0.566661	0.278106	-2.03757	0.042114	0.132843	0.697317	0.190506	0.849038	-0.01806	0.207449	-0.08704	0.930698
TRAFD1.O14545	0.2572808	0.126289	2.037231	0.042164	-0.63919	0.34905	-1.83123	0.068058	-0.0325	0.10365	-0.31356	0.754076
IPO8.O15397	-0.261666	0.128565	-2.03528	0.042422	-0.39812	0.295586	-1.3469	0.179126	-0.00081	0.089921	-0.00903	0.992799
CLIC4.Q9Y696	0.1640904	0.080695	2.033469	0.042529	-0.02738	0.222626	-0.12298	0.902206	0.034491	0.0662	0.521005	0.602735
RBM8A.Q9Y5S9	0.4080608	0.20072	2.032989	0.042577	-0.56826	0.467004	-1.21683	0.224595	0.008498	0.139256	0.061022	0.951381
TMPO.P42166	0.3667095	0.180418	2.032551	0.042622	-0.38234	0.446933	-0.85548	0.392946	-0.24739	0.132368	-1.86899	0.062567
PREX2.Q70Z35	-0.282419	0.138955	-2.03245	0.04264	-0.81751	0.373941	-2.18619	0.029561	0.002393	0.113107	0.021154	0.983136
TOP2B.Q02880.2	0.4602828	0.226569	2.031539	0.042724	-0.74378	0.545819	-1.36269	0.17397	0.074191	0.162803	0.455711	0.648917
ERC2.O15083	-0.400822	0.197404	-2.03047	0.042833	0.587668	0.498527	1.178809	0.239378	-0.12174	0.148474	-0.81993	0.412887
HNRNP3.P31942	0.4468868	0.220126	2.030137	0.042867	-0.01535	0.5004	-0.03068	0.975541	0.196286	0.148442	1.322308	0.18704

CTPS2.Q9NRF8	0.423401	0.208726	2.028506	0.043034	-0.0336	0.541125	-0.06209	0.950534	0.102626	0.160871	0.637942	0.523983
USP15.Q9Y4E8	0.8285262	0.408463	2.028399	0.043045	-0.08305	1.017406	-0.08163	0.934996	1.171097	0.295264	3.966264	9.07E-05
PPWD1.Q96BP3	0.3612602	0.178116	2.02823	0.043071	0.148143	0.457291	0.323958	0.746192	0.232314	0.136625	1.700381	0.090079
FRMPD1.Q5SYB0	0.0777075	0.03825	2.031555	0.043104	0.059688	0.123051	0.485064	0.628245	0.178885	0.034812	5.138633	7.41E-07
DUSP19.Q8WTR2	0.2593597	0.127834	2.028877	0.043157	-0.54015	0.315047	-1.71451	0.087715	0.265066	0.091334	2.902157	0.004048
TRIM37.O94972	-0.393889	0.193878	-2.03163	0.043178	0.390105	0.550806	0.708244	0.479781	0.008273	0.162807	0.050815	0.959533
PMP2.P02689	0.0689373	0.034014	2.026711	0.043218	0.010291	0.092301	0.111498	0.911293	0.028232	0.027412	1.029924	0.303849
C21orf59.P57076	0.3318715	0.163747	2.026733	0.043224	-0.65713	0.446638	-1.47128	0.142246	0.00128	0.134525	0.009516	0.992413
RPS6KA3.P51812	0.6477837	0.319672	2.026402	0.04325	-0.21123	0.783914	-0.26946	0.787755	0.631926	0.23045	2.742143	0.006459
ENOPH1.Q9UHY7	0.450859	0.222498	2.026349	0.043255	-0.2481	0.614342	-0.40385	0.686604	0.371872	0.18158	2.047982	0.041404
DOCK7.Q96N67	0.6557872	0.323684	2.026012	0.04329	-0.62019	0.796357	-0.77878	0.436703	0.165021	0.236949	0.696442	0.486674
PDCD4.Q53EL6	0.3008266	0.148492	2.025881	0.043303	0.705871	0.382806	1.843938	0.066146	-0.04682	0.11447	-0.40903	0.682803
STXBP1.P61764	-0.119488	0.058993	-2.02548	0.043362	-0.11845	0.151444	-0.78212	0.434757	-0.02961	0.045145	-0.65577	0.51247
STARD7.Q9NQZ5	0.3566002	0.17614	2.024526	0.043443	0.492508	0.477208	1.032063	0.302847	0.18094	0.141833	1.27573	0.203006
FBXO27.Q8NI29	-0.26691	0.131813	-2.02492	0.043478	0.403181	0.39163	1.029496	0.304145	0.297273	0.116027	2.562102	0.010933
SMAD4.K7EIU8	0.2845043	0.140605	2.02343	0.043556	0.276334	0.350303	0.788843	0.430807	0.27511	0.103136	2.667437	0.008045
SND1.Q7KZF4	0.6314202	0.312259	2.022101	0.043694	-0.72542	0.780121	-0.92988	0.353154	0.094426	0.232334	0.406425	0.68471
EFR3B.Q9Y2G0	-0.590655	0.292203	-2.02138	0.043768	0.074841	0.77076	0.0971	0.92271	-0.35844	0.228386	-1.56943	0.117567
WDR82.Q6UXN9	0.4853097	0.240213	2.020328	0.043893	0.724557	0.583799	1.241107	0.215536	0.478698	0.170644	2.805246	0.005356
PIANP.Q8IYJ0	-0.260318	0.128851	-2.0203	0.043917	-0.16913	0.336473	-0.50264	0.615593	-0.41977	0.096827	-4.3353	2.00E-05
ILVBL.A1L0T0	0.5261447	0.260488	2.019845	0.043928	-0.66955	0.705196	-0.94945	0.343133	0.527636	0.20794	2.537445	0.011656
VTI1A.Q96AJ9.1	0.3936769	0.194962	2.019255	0.04399	-0.04529	0.508621	-0.08904	0.929105	0.186089	0.150938	1.232882	0.218554
SYNE2.Q8WXH0	0.1694189	0.0839	2.019303	0.044002	-0.10069	0.200338	-0.50262	0.615595	0.010345	0.059725	0.173219	0.862595
EDNRB.P24530	0.2278717	0.112773	2.020619	0.044011	-0.21349	0.319383	-0.66843	0.504509	0.171072	0.094886	1.802925	0.07267
CUL1.Q13616	0.7114852	0.352606	2.01779	0.044143	-0.02402	0.96111	-0.025	0.980075	0.95582	0.280712	3.40498	0.000749
ATP6V1A.P38606	-0.492127	0.243939	-2.01742	0.044182	0.681778	0.622036	1.096043	0.273911	0.207767	0.185027	1.122899	0.262349
MATN2.O00339	0.1731232	0.085745	2.019052	0.044189	-0.00354	0.224431	-0.01576	0.987441	0.061088	0.068587	0.890665	0.374024
GATM.P50440.2	-0.319446	0.158359	-2.01723	0.044201	0.204612	0.400779	0.510536	0.610039	-0.20945	0.11868	-1.76481	0.078581
MTCH2.E9PIE4	0.3681903	0.182598	2.016403	0.044411	-0.25555	0.492384	-0.51901	0.604202	0.018616	0.152926	0.121732	0.903206
RBM25.P49756	0.436588	0.21673	2.014431	0.044495	0.072132	0.546805	0.131916	0.895137	-0.28738	0.161849	-1.77563	0.076775
RABAC1.M0R3D4	0.2773026	0.137682	2.014074	0.044541	-0.44713	0.30839	-1.44988	0.148115	0.088984	0.094134	0.945296	0.345253
SAFB.Q15424.4	0.3466941	0.17225	2.012743	0.044673	0.387517	0.411219	0.942363	0.346741	-0.24266	0.121728	-1.99347	0.047086
JUP.P14923	0.1678054	0.083415	2.011699	0.044783	-0.20454	0.203068	-1.00726	0.314595	0.020448	0.060497	0.337996	0.735595
GFAP.K7EKD1	0.0979764	0.048709	2.011475	0.044825	-0.11397	0.119566	-0.95319	0.341258	0.092089	0.035073	2.625617	0.009091

CHAMP1.Q96JM3	0.4018712	0.199998	2.009374	0.045048	-0.2869	0.457221	-0.62749	0.530811	0.078856	0.136269	0.578677	0.563238
ACTR3B.Q9P1U1	-0.412486	0.20536	-2.0086	0.045112	-0.27139	0.534713	-0.50754	0.61214	0.043604	0.159114	0.274042	0.784235
CMTM5.C9JAI6	0.1529249	0.076139	2.008503	0.045123	-0.07617	0.198455	-0.3838	0.701388	-0.07315	0.058904	-1.24178	0.215257
RTN3.O95197	-0.429969	0.214112	-2.00814	0.045161	0.291089	0.525272	0.554167	0.579864	-0.3528	0.155047	-2.27543	0.023563
TECPR1.Q7Z6L1	-0.295252	0.147046	-2.0079	0.045188	0.495594	0.359851	1.377221	0.169438	-0.22969	0.106581	-2.1551	0.031924
GPR116.Q8IZF2	-0.177769	0.088422	-2.01045	0.045281	-0.01556	0.19039	-0.08175	0.934934	0.026997	0.056485	0.477955	0.63324
HSD17B11.Q8NBQ5	0.2094867	0.10445	2.005622	0.045431	0.482355	0.258141	1.868574	0.062625	-0.18047	0.07654	-2.35779	0.019005
C9orf40.Q8IXQ3	0.2533866	0.126233	2.007301	0.045591	-0.14071	0.376686	-0.37356	0.709137	0.218419	0.106051	2.059577	0.040761
NEDD4L.Q96PU5	-0.531253	0.265084	-2.00409	0.045595	0.312098	0.701505	0.444898	0.656704	-0.32162	0.207951	-1.54662	0.122976
PSMB9.A2ACR1	0.2486449	0.124158	2.002656	0.045758	-0.79294	0.338537	-2.34226	0.019808	0.146243	0.102143	1.431744	0.153238
RPL7.P18124	0.5441721	0.271819	2.001966	0.045824	-0.73534	0.696644	-1.05555	0.291998	0.216009	0.207249	1.04227	0.298099
LRRTM4.Q86VH4	-0.358951	0.179339	-2.00153	0.045871	-0.15273	0.431825	-0.35368	0.723823	-0.18286	0.128066	-1.42784	0.154344
EXOC6B.Q9Y2D4	0.810175	0.404891	2.00097	0.045931	0.131241	1.082924	0.121191	0.903618	0.00534	0.322158	0.016576	0.986785
CYP46A1.H0Y3G0	-0.314098	0.156976	-2.00093	0.045936	0.296835	0.39233	0.756597	0.449866	-0.05587	0.116776	-0.4784	0.632703
IGKC.A0A087X130	-0.109264	0.054484	-2.00542	0.046027	0.190384	0.134522	1.415263	0.15901	-0.00832	0.042612	-0.19516	0.845526
ZHX3.Q9H4I2	-0.270882	0.13542	-2.00032	0.046138	0.210445	0.352486	0.597032	0.551026	-0.05836	0.102133	-0.57142	0.56823
GRM4.B7ZLU9	0.1902538	0.095152	1.999462	0.046162	-0.06222	0.230273	-0.27022	0.78719	0.237209	0.067443	3.517161	0.000509
PRRT3.Q5FWE3	-0.407667	0.203969	-1.99867	0.046181	0.193939	0.513441	0.377724	0.705894	-0.20021	0.152351	-1.31417	0.189761
UBC.F5H265	0.3048506	0.152531	1.998611	0.046187	-0.55824	0.360703	-1.54763	0.122731	-0.02487	0.107707	-0.23089	0.817551
ALDH16A1.Q8IZ83	0.2571733	0.128696	1.9983	0.046221	0.167829	0.319747	0.52488	0.600042	0.246449	0.094126	2.618277	0.009271
CENPP.A0A087WTF1	0.1681347	0.084157	1.997861	0.046269	0.083255	0.212303	0.39215	0.695217	0.088728	0.062971	1.409036	0.159827
SLC38A3.Q99624	0.2871277	0.143697	1.998153	0.046322	-0.61553	0.427114	-1.44115	0.150751	0.102865	0.124572	0.82575	0.409706
BTBD1.Q9H0C5	0.2841316	0.14216	1.998681	0.046333	-0.29816	0.38669	-0.77105	0.441416	0.145987	0.116858	1.249264	0.212751
LPIN1.Q14693	0.3092703	0.15509	1.994134	0.046691	-0.31902	0.397585	-0.80238	0.422967	0.157224	0.117202	1.341482	0.180779
DMTN.Q08495	-0.367014	0.184082	-1.99375	0.046718	0.244103	0.466492	0.523274	0.601157	-0.63153	0.134121	-4.70865	3.77E-06
PNPO.Q9NVS9	0.2349256	0.117849	1.993443	0.046752	0.34582	0.284102	1.217238	0.224439	0.021913	0.084708	0.258694	0.796043
WTAP.Q15007	0.2890324	0.144984	1.993543	0.046775	-0.36709	0.355601	-1.03232	0.302777	0.061656	0.105335	0.585328	0.558779
MON2.Q7Z3U7.5	0.7069969	0.354884	1.992189	0.046889	-1.17722	0.916151	-1.28496	0.199766	0.368816	0.27246	1.353654	0.176833
FAU.P62861	-0.23985	0.120392	-1.99224	0.046959	0.328529	0.339632	0.967309	0.334255	-0.07961	0.097738	-0.81448	0.416087
TSPAN8.P19075	0.0600388	0.030152	1.991209	0.047015	-0.07561	0.083016	-0.91074	0.363157	0.003332	0.024538	0.135802	0.892068
ZNF687.Q8N1G0	0.3028387	0.152045	1.991776	0.047046	-0.25993	0.378329	-0.68706	0.492673	-0.09801	0.111055	-0.8825	0.378343
TFRC.P02786	-0.251235	0.126239	-1.99016	0.047113	0.054282	0.311962	0.174002	0.861977	0.164567	0.092336	1.782266	0.075684
SSH1.Q8WYL5	-0.432582	0.217399	-1.98981	0.047168	-0.18386	0.553922	-0.33192	0.740183	-0.07734	0.16357	-0.47284	0.636668
PSMA3.P25788	0.6228803	0.313065	1.989622	0.047173	-1.60695	0.793797	-2.02438	0.043788	0.673597	0.234597	2.871289	0.00437

NUPL1.Q9BVL2	0.4372282	0.219765	1.98953	0.047183	0.687752	0.526981	1.305078	0.192834	0.192392	0.156817	1.226853	0.220809
APPL2.Q8NEU8	0.3792502	0.190791	1.987775	0.047377	-0.34184	0.485086	-0.7047	0.481525	-0.09791	0.144313	-0.67848	0.497974
DGCR2.P98153	0.3108477	0.15626	1.989295	0.047387	-0.5463	0.366541	-1.49041	0.137475	0.217135	0.108874	1.994358	0.047283
ACSS1.Q9NUB1	-0.347069	0.174844	-1.98502	0.047684	0.422174	0.454043	0.929809	0.353193	-0.14171	0.135018	-1.04955	0.294741
DCUN1D4.Q92564	0.3118726	0.157095	1.985247	0.047686	-0.98074	0.379373	-2.58515	0.010214	-0.02694	0.116718	-0.23085	0.817594
PIPOX.Q9P0Z9	0.2332695	0.117633	1.983024	0.047962	-0.49565	0.289797	-1.71033	0.0883	0.05956	0.084598	0.704037	0.481988
CPSF1.Q10570	0.4080575	0.20584	1.982401	0.047977	-0.34984	0.47943	-0.7297	0.466125	0.432809	0.140612	3.078037	0.00227
SEPW1.P63302	0.3090415	0.155923	1.982015	0.04802	-0.61076	0.368688	-1.65657	0.098618	0.130325	0.109914	1.1857	0.236649
NAB2.Q15742	0.3083699	0.155452	1.983698	0.048093	-0.41956	0.36772	-1.14098	0.255113	0.101155	0.112056	0.902722	0.367656
ANK2.E9PHW9	-0.231376	0.116637	-1.98373	0.048095	0.255579	0.293947	0.869475	0.385604	-0.07686	0.082112	-0.93609	0.350328
MKRN1.Q9UHC7	0.4224615	0.213284	1.980745	0.048163	-0.18938	0.558855	-0.33888	0.734933	-0.07174	0.16623	-0.43159	0.666339
OPCML.Q14982	-0.470334	0.23748	-1.98052	0.048189	-0.51182	0.597455	-0.85667	0.392288	0.043218	0.177926	0.2429	0.808244
LINGO1.Q96FE5	-0.336311	0.169824	-1.98035	0.048208	-0.26274	0.401908	-0.65374	0.513763	-0.10227	0.119502	-0.85577	0.392785
MAT2A.P31153	0.5909406	0.29849	1.979766	0.048273	-0.5886	0.767758	-0.76665	0.443874	0.683439	0.225291	3.03358	0.002621
AES.Q08117	-0.264165	0.133444	-1.97959	0.048311	0.242983	0.323572	0.750939	0.453274	-0.13001	0.096227	-1.35107	0.177685
KHDRBS2.Q5VWX1	-0.304241	0.153827	-1.97782	0.048494	-0.45894	0.404112	-1.13569	0.256965	-0.13716	0.120214	-1.14099	0.254755
ETF1.P62495	0.5960019	0.301516	1.976685	0.048622	-0.23917	0.778671	-0.30716	0.75893	1.035184	0.224092	4.619467	5.65E-06
ARHGAP17.Q68EM7	0.2687008	0.135951	1.976454	0.048657	-0.07229	0.367853	-0.19651	0.844339	0.241901	0.109539	2.20836	0.027963
RAB3A.P20336	-0.3114	0.157635	-1.97545	0.048762	0.154184	0.406436	0.379356	0.704683	-0.06425	0.12088	-0.53153	0.595434
CACNG8.Q8WXS5	-0.263417	0.133357	-1.97528	0.048782	-0.29184	0.343024	-0.85078	0.39555	-0.34366	0.100281	-3.42694	0.000693
CNNM4.Q6P4Q7	-0.372095	0.188414	-1.97488	0.048843	-0.00738	0.492221	-0.01499	0.988048	0.170453	0.145044	1.175181	0.240854
ATP6VOA1.Q93050.1	-0.378593	0.191734	-1.97457	0.048862	0.128658	0.486934	0.264221	0.791785	-0.00419	0.14487	-0.02895	0.976919
DIS3L2.Q8IYB7	0.6169956	0.312566	1.97397	0.048931	0.892832	0.759948	1.174859	0.240953	0.138	0.226438	0.609438	0.542681
UBAP2L.Q14157.5	-0.349591	0.177105	-1.97393	0.048936	-0.13763	0.477122	-0.28846	0.773186	-1.02184	0.129548	-7.8877	5.32E-14
KCNC4.H7BZ66	0.3070538	0.155439	1.975396	0.048987	-0.18233	0.388654	-0.46912	0.639419	0.198526	0.119901	1.655747	0.099113
C12orf5.Q9NQ88	0.3866662	0.195969	1.973103	0.04903	-0.00493	0.485062	-0.01016	0.991896	0.553541	0.140831	3.930538	0.000105
ATP2B2.Q01814	-0.473961	0.240416	-1.97142	0.049223	0.559451	0.629966	0.888065	0.375194	0.001519	0.187642	0.008095	0.993546
SNX29.Q8TEQ0	-0.412026	0.208958	-1.97181	0.049243	0.215999	0.539665	0.400247	0.689287	-0.09389	0.156442	-0.60013	0.548913
CPSF3.Q9UKF6	0.2967543	0.150512	1.971634	0.049275	-0.32666	0.396692	-0.82347	0.410958	0.127179	0.117164	1.08548	0.278667
MCC.P23508	-0.33881	0.172053	-1.96922	0.049475	-0.21654	0.437353	-0.49512	0.620868	-0.4727	0.127357	-3.7116	0.000244
RNH1.P13489	0.2867957	0.145806	1.966967	0.049735	-0.10107	0.383911	-0.26327	0.79252	0.103046	0.11407	0.903362	0.367035
UFL1.O94874	0.6455154	0.328256	1.9665	0.049789	-0.68627	0.876252	-0.78319	0.434114	-0.31928	0.260296	-1.22659	0.220907
CISD1.Q9NZ45	-0.325085	0.165324	-1.96635	0.049806	0.58339	0.430249	1.355936	0.176106	-0.14567	0.128104	-1.13709	0.256378
GAA.P10253	-0.285887	0.145456	-1.96546	0.04991	0.784819	0.357873	2.193009	0.029049	-0.05893	0.107231	-0.54957	0.583011

LUZP1.Q86V48	0.3948212	0.200962	1.964657	0.050003	-0.1799	0.528809	-0.34019	0.733944	0.18942	0.156973	1.206708	0.228465
PPP2R2C.Q9Y2T4	-0.373617	0.190186	-1.96447	0.050042	0.674856	0.474572	1.422029	0.156053	-0.13028	0.140855	-0.92493	0.355743
KIAA1211L.Q6NV74	-0.35752	0.182048	-1.96388	0.050093	0.180274	0.435762	0.413697	0.679382	-0.24458	0.128921	-1.89709	0.058745
MOSPD2.Q8NHP6	0.2251208	0.114699	1.962708	0.050285	-0.15919	0.318413	-0.49995	0.617508	0.116386	0.091195	1.27623	0.202939
ANK2.I6L894	-0.557777	0.284282	-1.96206	0.050306	0.825288	0.723151	1.141238	0.254652	-0.0773	0.215532	-0.35864	0.720108
HSD11B1.A0A0A0MQV1	0.1189521	0.060639	1.961637	0.050355	0.029362	0.15628	0.187881	0.851093	0.02789	0.046466	0.60023	0.548791
NAA38.Q9BRA0	-0.446464	0.227602	-1.9616	0.050368	-0.51945	0.57714	-0.90004	0.368801	-0.18758	0.172263	-1.08894	0.277033
NCBP1.Q09161	0.4369722	0.222812	1.961171	0.050409	-0.39766	0.512305	-0.77621	0.438215	0.107894	0.152427	0.707841	0.479576
SLC25A3.Q00325.2	-0.338635	0.172738	-1.9604	0.0505	0.350374	0.44898	0.780378	0.435764	-0.14818	0.13343	-1.11056	0.267617
PHF6.Q8IWS0	0.2670452	0.136215	1.960464	0.050527	0.006746	0.369903	0.018237	0.985462	0.23791	0.105875	2.247085	0.025394
ROGDI.Q9GZN7	-0.51482	0.262692	-1.95979	0.050571	-0.24989	0.665605	-0.37544	0.707591	0.218215	0.197663	1.103978	0.270459
TUBG1.P23258	0.221775	0.113239	1.958474	0.050741	0.076392	0.295396	0.258608	0.796115	0.013784	0.087251	0.157982	0.874577
PMPCA.Q10713	-0.476146	0.243397	-1.95625	0.050988	0.294331	0.620806	0.47411	0.635755	-0.01338	0.184744	-0.07242	0.942314
FRMD4A.Q9P2Q2	-0.620025	0.317042	-1.95566	0.051058	-1.4158	0.78168	-1.81122	0.071074	-0.31375	0.233083	-1.34607	0.179264
LCMT1.Q9UIC8	0.5834548	0.298445	1.954981	0.051138	-0.67625	0.754424	-0.89638	0.370747	0.558377	0.222469	2.509907	0.012586
SLC25A27.O95847	-0.300235	0.153582	-1.95488	0.051149	0.59993	0.398462	1.505612	0.133185	-0.18079	0.118524	-1.52538	0.128184
ICAM1.P05362	0.1199769	0.061388	1.954387	0.051208	-0.09153	0.157442	-0.58134	0.561436	0.059098	0.046741	1.26436	0.207051
MAP4K4.G5E948	0.3211304	0.164163	1.956164	0.051307	-0.41403	0.430312	-0.96217	0.33713	-0.15211	0.131221	-1.15916	0.24778
SLC25A26.F8WAB8	0.2095569	0.107343	1.952224	0.051474	0.050959	0.271867	0.187442	0.851439	-0.01997	0.081513	-0.24504	0.806589
TRIM28.Q13263	0.4226561	0.216511	1.952127	0.051476	-0.11071	0.506311	-0.21866	0.827056	-0.03954	0.150613	-0.26254	0.793083
AKAP8.O43823	0.2451205	0.125522	1.952814	0.051482	0.483719	0.31973	1.512898	0.131479	0.109734	0.095522	1.148788	0.251664
SLC39A11.Q8N1S5	0.2580007	0.132167	1.952079	0.051538	-0.47313	0.339022	-1.39558	0.163947	0.060311	0.101201	0.595959	0.551684
PUS1.G8JLB3	0.4103692	0.21034	1.950978	0.051613	0.339708	0.520505	0.652652	0.514465	0.221896	0.154434	1.436837	0.151773
SLC27A2.O14975	0.2603846	0.133486	1.950649	0.05168	-0.13189	0.348132	-0.37885	0.705067	0.002261	0.104097	0.021719	0.982687
LSM6.P62312	0.4008574	0.205572	1.949964	0.051735	-0.26913	0.498775	-0.53958	0.589871	0.180188	0.148093	1.216717	0.224637
NR1D1.P20393	0.2669854	0.136808	1.95153	0.0519	0.037075	0.442743	0.08374	0.933352	0.183289	0.119986	1.527584	0.128297
TAX1BP3.O14907	0.2188488	0.112411	1.946866	0.052106	0.087462	0.303482	0.288194	0.773391	0.022231	0.090284	0.24623	0.805667
PRPF38B.Q5VTL8	0.2423699	0.124505	1.946673	0.052147	0.026262	0.285803	0.091889	0.926847	0.180202	0.084026	2.144597	0.032786
MYO1D.O94832	0.1168327	0.060027	1.946336	0.05217	-0.05234	0.16085	-0.32539	0.745106	0.054252	0.047759	1.135959	0.256851
CASC4.Q6P4E1	0.4116979	0.211594	1.945694	0.052247	-0.46366	0.549955	-0.84308	0.399833	-0.17081	0.163502	-1.04471	0.296969
NDN.Q99608	0.3269589	0.167734	1.94927	0.052247	0.225346	0.449222	0.501636	0.616536	0.042043	0.134665	0.312205	0.755246
TRIM72.Q6ZMU5	0.1292656	0.066322	1.949054	0.052364	-0.24097	0.200597	-1.20127	0.231347	0.032652	0.058537	0.557807	0.577723
SBDS.Q9Y3A5	0.3238927	0.166641	1.943654	0.052493	0.074863	0.427749	0.175017	0.861181	0.231525	0.126573	1.829186	0.068332
AAMP.C9JG97	0.3898281	0.200584	1.943469	0.052516	0.01098	0.522403	0.021019	0.983244	0.516611	0.152611	3.385159	0.000803

GPR158.Q5T848	-0.444815	0.228965	-1.94272	0.052606	0.243884	0.617436	0.394994	0.693119	-0.13887	0.183553	-0.75658	0.449875
KPNA1.P52294	0.5608538	0.288866	1.941572	0.052746	0.054103	0.706314	0.076598	0.938992	0.478519	0.208353	2.296678	0.022304
DNAL4.O96015	-0.313284	0.161306	-1.94217	0.052751	-0.19469	0.422944	-0.46033	0.645651	-0.13882	0.121406	-1.14345	0.253867
AMIGO1.Q86WK6	-0.456773	0.235282	-1.94139	0.052769	-0.46455	0.591805	-0.78497	0.433072	0.040147	0.176212	0.227833	0.819926
REEP1.Q9H902	-0.356513	0.183697	-1.94076	0.052844	-0.60467	0.471605	-1.28216	0.200745	-0.40825	0.138741	-2.94254	0.003501
MEGF8.Q7Z7M0	-0.374207	0.192918	-1.93971	0.052972	0.271515	0.510439	0.531925	0.595159	-0.05815	0.15188	-0.3829	0.702057
RLTPR.Q6F5E8.2	-0.292776	0.15078	-1.94174	0.053186	0.322858	0.372153	0.867541	0.386906	-0.04706	0.109278	-0.43062	0.667304
C1QTNF4.Q9BXJ3	-0.355543	0.183501	-1.93755	0.053236	0.21202	0.473312	0.447949	0.654503	0.246819	0.140148	1.761131	0.079202
KIAA1598.A0MZ66	0.3424826	0.17677	1.937443	0.05325	0.285327	0.484031	0.589481	0.555968	0.037096	0.144056	0.257514	0.796953
PCM1.Q15154	-0.447099	0.230885	-1.93646	0.05337	-1.01674	0.580898	-1.7503	0.081057	-0.75028	0.168349	-4.45671	1.16E-05
TPGS1.Q6ZTW0	-0.34015	0.175679	-1.9362	0.053492	-0.95171	0.485825	-1.95895	0.051167	-0.00494	0.142436	-0.03465	0.972385
HIST2H2AB.Q8IUE6	0.1357093	0.070154	1.934461	0.053651	-0.0694	0.174526	-0.39763	0.691194	0.004068	0.051315	0.079276	0.936868
C11orf54.Q9H0W9	0.2266771	0.117232	1.933584	0.053724	0.081475	0.295472	0.275744	0.782928	0.145278	0.08752	1.659932	0.097939
AGO1.Q9UL18	0.5139929	0.265873	1.933225	0.053768	0.188476	0.615017	0.306457	0.759462	0.257671	0.182398	1.412684	0.158752
ASS1.P00966	0.2678065	0.138627	1.931852	0.053938	-0.51735	0.34251	-1.51047	0.131943	0.071244	0.102185	0.697212	0.486193
LDHB.C9J7H8	-0.129267	0.066857	-1.93347	0.054011	-0.14624	0.184885	-0.79096	0.429841	0.074917	0.047177	1.588021	0.113751
TLK2.Q86UE8.2	-0.334158	0.173025	-1.93126	0.054166	-0.325	0.506291	-0.64193	0.521528	0.147654	0.15052	0.980958	0.327593
RGS12.O14924	-0.36112	0.187263	-1.92841	0.054365	0.71871	0.497601	1.44435	0.14965	-0.27496	0.147702	-1.86162	0.063604
SUMO3.A8MU27	0.3941175	0.204412	1.928055	0.05441	0.113093	0.500442	0.225987	0.82136	0.095166	0.148787	0.639611	0.522898
PRKAR1A.P10644	0.3924986	0.203596	1.927832	0.054438	-0.3966	0.532209	-0.74519	0.456723	0.327978	0.157366	2.084176	0.037963
RELA.A0A087X0W8	0.4402745	0.228442	1.927289	0.054505	-0.31126	0.687116	-0.45299	0.650873	-0.15932	0.204272	-0.77992	0.436034
PPP1R11.O60927	-0.229578	0.119169	-1.92649	0.054605	0.757356	0.299777	2.526393	0.012022	-0.03908	0.090065	-0.4339	0.664662
TRA2A.Q13595	0.270687	0.140546	1.925963	0.054687	-0.36304	0.345022	-1.05222	0.293545	0.062312	0.102027	0.610739	0.541835
CGGBP1.Q9UFW8	0.2860834	0.148617	1.924966	0.054862	0.155801	0.368673	0.422601	0.672917	0.089528	0.108737	0.823346	0.411025
KATNAL1.Q9BW62	-0.476474	0.247664	-1.92387	0.054933	0.082703	0.611984	0.135139	0.89259	0.008016	0.182059	0.044032	0.964907
CACNA1E.F8W9Z1	-0.47522	0.247129	-1.92296	0.055048	0.206462	0.630821	0.327291	0.743669	-0.21128	0.187306	-1.12797	0.260207
RP2.O75695	0.2477678	0.128858	1.922796	0.055069	-0.07328	0.328634	-0.22299	0.823694	0.155167	0.097373	1.593533	0.11206
IQSEC2.Q5JU85.2	-0.572126	0.297659	-1.92209	0.055158	0.063797	0.788472	0.080913	0.935564	-0.68721	0.231289	-2.97124	0.003198
LAMTOR4.C9JXA7	-0.170922	0.088954	-1.92147	0.055458	0.182188	0.222454	0.818992	0.413661	-0.04115	0.066203	-0.62158	0.534853
CPLX1.O14810	-0.18803	0.097974	-1.91919	0.055525	0.534935	0.255729	2.091804	0.037269	-0.11155	0.076347	-1.46103	0.145021
FARSA.K7ER00	-0.342127	0.178282	-1.91903	0.055545	0.426084	0.512783	0.830925	0.406656	-0.56712	0.149278	-3.7991	0.000175
EIF3D.O15371	0.5253966	0.27389	1.918275	0.055641	0.15587	0.734743	0.212142	0.832136	0.44495	0.217123	2.049301	0.041274
FBLN1.P23142	0.1592708	0.083065	1.917423	0.055749	-0.27805	0.215279	-1.29157	0.197468	0.156678	0.063594	2.463716	0.014293
SPON1.Q9HCB6	0.2907875	0.151755	1.916159	0.05591	0.060025	0.365994	0.164005	0.869834	-0.13558	0.108609	-1.24832	0.212854

COPB1.P53618	0.6595902	0.344423	1.915056	0.056051	0.645864	0.893527	0.722825	0.470332	-0.04176	0.266022	-0.15699	0.875358
GPX1.A0A087WUQ6	-0.326286	0.170409	-1.91472	0.056094	0.223835	0.446406	0.501415	0.616435	0.10262	0.132724	0.773183	0.440003
GGA3.Q9NZ52	-0.467038	0.243964	-1.91437	0.056138	0.351227	0.588836	0.596477	0.551292	0.010675	0.175268	0.060904	0.951475
KIF21A.Q7Z4S6	-0.422009	0.220541	-1.91352	0.056247	-0.15449	0.514277	-0.30041	0.764065	-0.01885	0.153007	-0.12322	0.902013
ROBO2.Q9HCK4	-0.385066	0.201314	-1.91277	0.056344	0.030529	0.520978	0.058599	0.953309	-0.29571	0.15407	-1.91929	0.055865
AGPAT1.Q99943	-0.417962	0.21854	-1.91252	0.056376	0.620143	0.541269	1.14572	0.252795	-0.51331	0.158703	-3.23438	0.001351
CGNL1.Q0VF96	-0.383124	0.200358	-1.91219	0.056418	0.103778	0.512576	0.202463	0.839688	-0.36496	0.151077	-2.41569	0.016283
KRT9.P35527	0.0631361	0.033024	1.91181	0.056467	-0.14208	0.085541	-1.66092	0.097741	0.053687	0.025377	2.11554	0.035181
HOMER3.Q9NSC5	0.1610487	0.084244	1.911686	0.056483	0.180612	0.209845	0.860691	0.390074	-0.01225	0.062496	-0.19607	0.84468
CACNA2D3.Q8IZS8	-0.440974	0.230727	-1.91124	0.056541	0.472473	0.572873	0.824744	0.410151	0.080044	0.170546	0.469343	0.639155
KBTBD6.Q86V97	0.3213854	0.168168	1.911098	0.056559	0.225915	0.44813	0.504129	0.614529	0.022321	0.133359	0.167377	0.867183
KIAA1549.Q9HCM3	-0.316791	0.165797	-1.91072	0.056608	-0.196	0.425998	-0.4601	0.645767	-0.21258	0.126194	-1.68455	0.093083
SLC22A23.C9J4Z0	-0.455925	0.238682	-1.91018	0.056678	0.693309	0.590329	1.174447	0.241118	-0.24854	0.175436	-1.41671	0.157573
AKR1B1.P15121	0.457621	0.239575	1.910137	0.056683	-0.7367	0.593496	-1.24129	0.215437	0.178291	0.176703	1.008986	0.313768
CDK7.P50613	0.3291391	0.17227	1.910601	0.056755	0.160665	0.424468	0.378509	0.705365	-0.01326	0.126996	-0.10439	0.916941
RPS15.P62841	-0.17227	0.090238	-1.90906	0.056822	0.285629	0.234961	1.215642	0.225046	-0.02528	0.070049	-0.36088	0.718436
EIF6.P56537	0.5146479	0.269677	1.908389	0.056909	0.359448	0.669555	0.536846	0.591759	0.327918	0.198401	1.652803	0.099383
ZBTB16.Q05516	0.2460631	0.128991	1.907601	0.057011	0.765967	0.368248	2.080028	0.038344	0.163729	0.109917	1.489575	0.137353
PPM1K.Q8N3J5	0.2882712	0.151136	1.907361	0.057042	0.574957	0.371196	1.548933	0.122418	-0.11314	0.110664	-1.02239	0.307394
TKT.P29401	0.3556299	0.186484	1.907024	0.057086	-0.64007	0.455016	-1.4067	0.160517	0.256195	0.135009	1.897616	0.058676
GRK5.P34947	-0.366326	0.192192	-1.90604	0.057214	-0.03677	0.470127	-0.07822	0.937707	-0.02905	0.139846	-0.20774	0.835571
TENM4.Q6N022	-0.475504	0.249574	-1.90526	0.057315	-0.55134	0.625161	-0.88191	0.378508	-0.10558	0.186111	-0.56727	0.570938
PLEKHB1.F5GZ38	0.1301877	0.068347	1.904804	0.057374	-0.01912	0.182278	-0.10488	0.91654	0.069298	0.054082	1.28135	0.201028
SH2D3C.Q8N5H7	-0.373873	0.196295	-1.90465	0.057394	-0.0085	0.498283	-0.01705	0.986405	0.020939	0.148226	0.141262	0.887754
LGI3.Q8N145	0.1378697	0.072445	1.903092	0.057598	0.091146	0.184824	0.493147	0.622258	0.029228	0.054978	0.531633	0.595361
COQ9.O75208	-0.300729	0.158041	-1.90285	0.05763	0.256727	0.41683	0.615904	0.53841	-0.17642	0.12367	-1.42657	0.154711
AGBL4.Q5VU57	-0.275513	0.14484	-1.90219	0.057776	0.242967	0.374364	0.649012	0.516855	0.078017	0.113608	0.686725	0.492817
BAG1.Q99933	0.3660622	0.192541	1.901213	0.057853	0.302911	0.515194	0.587955	0.556997	-0.13377	0.154524	-0.86571	0.387332
DNAJC6.O75061.2	-0.468682	0.246605	-1.90054	0.057932	-0.25777	0.659095	-0.3911	0.695989	-0.02631	0.196112	-0.13413	0.893385
PFKL.P17858	0.3917953	0.206184	1.900217	0.057975	-0.46851	0.52715	-0.88875	0.374824	-0.01624	0.157015	-0.10344	0.91768
TIMM10.P62072	-0.272508	0.143472	-1.89938	0.058085	0.63856	0.385607	1.655987	0.098736	-0.12143	0.115011	-1.05582	0.291875
ULK2.Q8IYT8	-0.355024	0.186681	-1.90177	0.058134	0.35274	0.532306	0.662664	0.508393	0.079373	0.153283	0.517824	0.605217
MT.ND2.P03891	0.1195967	0.062968	1.899331	0.058219	0.226587	0.192758	1.175499	0.240896	-0.00905	0.058645	-0.15437	0.87744
GOSR2.E7EQ34	-0.416318	0.219312	-1.89829	0.058228	0.424176	0.603775	0.70254	0.482869	-0.03921	0.179741	-0.21816	0.827447

CAPNS1.P04632	0.3876514	0.204287	1.897582	0.058322	-0.19729	0.537909	-0.36677	0.714038	0.264503	0.159347	1.659922	0.097941
SYNRG.Q9UMZ2	-0.495701	0.261262	-1.89733	0.058355	1.274782	0.698124	1.826011	0.06881	-0.75336	0.204362	-3.68639	0.000268
XRN2.Q9H0D6	0.3659902	0.19296	1.89672	0.058436	0.553216	0.48054	1.151238	0.250521	-0.00807	0.143257	-0.05633	0.955116
LUC7L.Q9NQ29	0.2620339	0.138159	1.896616	0.05845	-0.08517	0.324511	-0.26245	0.793147	0.339105	0.094606	3.58437	0.000392
CFL2.Q9Y281	0.3096516	0.163365	1.895461	0.058603	-0.33079	0.420895	-0.78592	0.432518	-0.02388	0.125326	-0.19056	0.848993
NPTX2.P47972	-0.110488	0.05831	-1.89483	0.058687	-0.06451	0.148795	-0.43354	0.664927	-0.00947	0.044274	-0.21384	0.830813
LPPR4.A0A0A6YYH7	-0.262009	0.138292	-1.8946	0.058717	-0.17524	0.381482	-0.45937	0.646292	-0.80779	0.103839	-7.77929	1.09E-13
SMG8.Q8ND04	0.4179866	0.220662	1.894243	0.058784	0.033274	0.551785	0.060302	0.951955	-0.1053	0.164326	-0.64078	0.522152
QDPR.P09417	0.1766276	0.093364	1.891809	0.059089	-0.04062	0.24196	-0.16789	0.866782	0.10301	0.071744	1.435801	0.152067
AKR1C1.Q04828	0.1883436	0.099542	1.892095	0.059132	0.178642	0.257719	0.693165	0.488802	-0.02887	0.074173	-0.38922	0.697418
MTA2.O94776	0.4347882	0.229985	1.890504	0.059264	-0.90399	0.567659	-1.59249	0.112293	0.061033	0.169522	0.360026	0.719073
AAAS.Q9NRG9	0.3586306	0.189681	1.890706	0.059266	-0.13965	0.493399	-0.28304	0.777347	0.259748	0.149351	1.739176	0.083043
DGKG.P49619	0.2489458	0.131709	1.890127	0.059315	0.115777	0.339998	0.340523	0.733693	0.071358	0.101081	0.705948	0.480751
ARHGEF7.Q14155.5	-0.612604	0.324167	-1.88978	0.059361	-0.48795	0.81147	-0.60132	0.548067	0.265688	0.241067	1.102136	0.271258
KCNC2.Q96PR1	0.3561053	0.188503	1.889121	0.059449	-0.12131	0.50558	-0.23993	0.810541	0.118553	0.150264	0.788964	0.430736
DHX9.Q08211	0.4696921	0.248661	1.888883	0.059481	-0.09418	0.568695	-0.16561	0.868574	0.362725	0.167925	2.160039	0.031536
CD47.Q08722	-0.355244	0.188099	-1.8886	0.059519	-0.09282	0.486832	-0.19065	0.848921	-0.14645	0.144593	-1.01282	0.311937
DDX23.Q9BUQ8	0.4770295	0.252661	1.888019	0.059598	-0.35321	0.586865	-0.60185	0.547711	0.067935	0.174641	0.388999	0.697544
KIAA0195.Q12767	-0.570554	0.30227	-1.88757	0.059659	0.511937	0.814079	0.628854	0.529908	-0.01696	0.242327	-0.06999	0.944244
SIK2.Q9H0K1	-0.279657	0.148107	-1.88821	0.059692	-0.01989	0.408692	-0.04867	0.961217	-0.08767	0.121502	-0.72152	0.471242
PTGS1.P23219	0.2238643	0.118524	1.888766	0.059693	-0.02867	0.347303	-0.08254	0.934288	0.302712	0.095347	3.174839	0.001701
SLC39A6.Q13433	-0.390776	0.207092	-1.88697	0.059739	-0.07365	0.523077	-0.1408	0.888119	-0.1979	0.155205	-1.27511	0.203225
BLOC1S4.Q9NUP1	0.248011	0.13141	1.88731	0.059993	0.439369	0.311272	1.41153	0.15965	-0.07786	0.089838	-0.86668	0.387161
SMCHD1.A6NHR9	0.3903214	0.20712	1.884522	0.060139	-0.29934	0.520484	-0.57512	0.565682	0.064824	0.150977	0.429364	0.667996
TSPAN9.O75954	-0.201463	0.106937	-1.88395	0.060187	0.46994	0.259216	1.812926	0.070891	-0.08675	0.076501	-1.13397	0.257755
POLE3.Q9NRF9	0.3229242	0.17121	1.886127	0.060222	-0.48596	0.440076	-1.10427	0.270934	0.051817	0.128412	0.403522	0.687038
PRSS1.E7EQ64	0.1895952	0.100673	1.883272	0.060239	-0.47055	0.257435	-1.82785	0.068533	0.109872	0.07674	1.431729	0.153229
PPM1H.Q9ULR3	-0.489479	0.25996	-1.8829	0.060289	1.136387	0.670679	1.694382	0.091197	-0.22515	0.200029	-1.12559	0.261212
NRCAM.Q92823	-0.423401	0.224901	-1.88261	0.060329	-0.70932	0.578831	-1.22543	0.221344	-0.14682	0.172407	-0.85156	0.395114
PLP1.P60201	0.0706889	0.037559	1.88209	0.0604	-0.00738	0.099277	-0.07432	0.940804	0.032069	0.029477	1.087925	0.277473
CCDC25.Q86WR0	0.3370444	0.179297	1.879815	0.06071	-0.73714	0.429901	-1.71467	0.087406	0.101027	0.128365	0.787029	0.431866
SLC2A8.Q9NY64	-0.259764	0.137988	-1.88251	0.060822	-0.37333	0.391981	-0.95241	0.342235	-0.01491	0.121097	-0.12309	0.902182
HMGCS1.Q01581	-0.143847	0.07658	-1.8784	0.060904	-0.58924	0.196411	-3.00001	0.002919	-0.06105	0.059169	-1.03173	0.303001
CACHD1.Q5VU97	0.2719151	0.144792	1.87797	0.060962	-0.51934	0.3994	-1.30029	0.194467	0.137548	0.118882	1.157013	0.248158

BRD2.HOY6K2	0.297029	0.157872	1.881451	0.061011	0.181166	0.388799	0.465964	0.641831	0.178086	0.11681	1.524571	0.129203
TIMM8A.O60220	-0.270634	0.144178	-1.87709	0.061083	0.817146	0.349017	2.341282	0.019851	-0.00677	0.10474	-0.06467	0.948479
UQCRB.P14927	-0.386566	0.206079	-1.87582	0.061258	0.197224	0.547353	0.360322	0.718851	-0.127	0.162702	-0.78059	0.435638
NUP205.Q92621	0.4802746	0.256133	1.875095	0.061358	0.002983	0.629872	0.004736	0.996224	0.190376	0.187063	1.017708	0.30961
FMN2.B0QZA8	-0.207547	0.110552	-1.87738	0.061433	0.354159	0.314625	1.125654	0.261819	-0.01696	0.092368	-0.18365	0.854494
HSPB1.P04792	0.1260808	0.067289	1.873709	0.061549	-0.14526	0.179765	-0.80805	0.419684	-0.0046	0.053533	-0.08589	0.931608
TLN2.Q9Y4G6	-0.493852	0.263592	-1.87355	0.061571	1.031363	0.655356	1.573745	0.116566	-0.43177	0.194192	-2.2234	0.02691
JAM3.Q9BX67	0.1420123	0.075802	1.873468	0.061582	-0.03438	0.200907	-0.17111	0.864251	-0.02085	0.059757	-0.34899	0.727332
HLA.A.P30450	-0.038361	0.020468	-1.87414	0.061625	0.04204	0.052774	0.796605	0.426431	-0.01291	0.016014	-0.80593	0.421042
CA7.P43166	0.2460658	0.131318	1.873814	0.06165	-0.37151	0.364968	-1.01791	0.309662	0.085219	0.10984	0.775848	0.438541
VAPA.Q9P0L0	-0.177778	0.094924	-1.87283	0.06167	0.161729	0.244956	0.660236	0.509593	-0.06614	0.072825	-0.90825	0.364452
H2AFY.O75367	0.2758139	0.147372	1.871542	0.061849	-0.08243	0.331821	-0.24843	0.803969	0.090995	0.098585	0.923012	0.356719
NINJ2.Q9NZG7	0.1265187	0.067603	1.871495	0.061856	0.011706	0.169802	0.068939	0.945083	0.102325	0.050178	2.039248	0.042273
RBBP7.Q16576	0.4328605	0.231293	1.871485	0.061857	-0.17221	0.538882	-0.31956	0.749516	0.333688	0.15921	2.095893	0.036902
RLTPR.Q6F5E8	-0.356203	0.190469	-1.87014	0.062044	0.409396	0.467661	0.875413	0.382027	-0.1308	0.139095	-0.94038	0.347755
TMCC1.O94876	0.5757712	0.307995	1.869419	0.062144	0.249021	0.73906	0.336942	0.736388	-0.24843	0.219444	-1.13208	0.258477
PDLIM4.P50479	0.2068616	0.110775	1.867396	0.062426	-0.00702	0.289188	-0.02427	0.980649	-0.0623	0.085956	-0.72483	0.469105
RAB34.Q9BZG1	0.1369061	0.073376	1.865824	0.062647	-0.21523	0.171108	-1.25786	0.209389	-0.02778	0.051007	-0.5447	0.586349
ABC6.Q9NP58	-0.252383	0.135306	-1.86527	0.062724	-0.0926	0.350801	-0.26398	0.791971	-0.01161	0.104367	-0.11125	0.911488
SLC25A46.Q96AG3	-0.431533	0.231378	-1.86506	0.062754	0.517089	0.605564	0.853897	0.393821	-0.23921	0.179844	-1.33011	0.18446
CAMK1D.Q8IU85	-0.423512	0.227243	-1.8637	0.062945	0.412351	0.573827	0.718598	0.47293	0.170017	0.170572	0.996743	0.319667
KIAA1045.Q9UPV7	-0.350152	0.187951	-1.863	0.063044	0.347068	0.446263	0.777721	0.437327	-0.13539	0.132662	-1.02058	0.308251
ZNF365.Q70YC5	-0.28335	0.15211	-1.86279	0.063073	0.381377	0.386949	0.985601	0.325098	-0.17834	0.114845	-1.55291	0.121464
PDP1.Q9P0J1	-0.357197	0.19181	-1.86224	0.063151	0.198918	0.493301	0.403239	0.687051	-0.10013	0.146677	-0.68266	0.49533
EIF2B3.Q9NR50	0.6499905	0.349069	1.86207	0.063175	-0.84812	0.909304	-0.93271	0.351697	0.717078	0.267802	2.677643	0.007809
PPP1R13B.Q96KQ4	-0.486836	0.26145	-1.86206	0.063176	0.091519	0.655173	0.139687	0.888998	-0.68133	0.191028	-3.56664	0.000419
UPF1.Q92900	0.6707258	0.360215	1.862016	0.063183	0.205808	0.891323	0.230902	0.817543	0.73892	0.261834	2.822097	0.005079
THOC5.Q13769	0.2648757	0.142318	1.861157	0.063354	-0.18949	0.321447	-0.58948	0.556006	0.131106	0.095483	1.373078	0.170804
DLAT.P10515	-0.370129	0.19893	-1.8606	0.063383	0.370261	0.567981	0.65189	0.514955	0.021678	0.169075	0.128216	0.898061
RIMBP2.O15034	-0.447553	0.240586	-1.86027	0.06343	1.023355	0.590433	1.733229	0.084049	-0.35144	0.17536	-2.00408	0.045931
DLGAP3.O95886	-0.385568	0.207333	-1.85966	0.063516	-0.25507	0.540535	-0.47189	0.637335	-0.38308	0.159379	-2.40361	0.016821
ACO2.Q99798	-0.38933	0.209494	-1.85843	0.063691	0.500958	0.561027	0.89293	0.372587	-0.0687	0.167064	-0.41124	0.681177
CDC34.P49427	-0.252993	0.136184	-1.85773	0.063807	0.053711	0.36054	0.148973	0.881675	-0.01491	0.106486	-0.14005	0.888717
CAPS.K7EL21	0.0975442	0.052533	1.856833	0.063918	-0.01091	0.133625	-0.08162	0.935002	0.032879	0.039708	0.828028	0.408292

TMEM97.Q5BJF2	0.2142172	0.115409	1.856149	0.064025	-0.3216	0.297828	-1.07982	0.28108	0.103756	0.088667	1.170181	0.242848
GABRB1.P18505	-0.336738	0.181436	-1.85596	0.064042	0.633975	0.482542	1.313823	0.189877	-0.22125	0.143397	-1.54294	0.123865
ZZEF1.O43149	0.6309984	0.340063	1.855533	0.064104	-1.32914	0.826721	-1.60773	0.108913	0.895439	0.241665	3.705295	0.00025
ICAM5.Q9UMF0	-0.242822	0.130887	-1.85521	0.064151	0.010343	0.316473	0.032682	0.97395	-0.09777	0.093981	-1.04031	0.299006
PDK2.Q15119	-0.336452	0.18149	-1.85383	0.064348	0.349154	0.474454	0.735906	0.462345	-0.14469	0.141026	-1.02598	0.305703
PPP2R4.A6PVN8	0.2976686	0.160583	1.85368	0.064474	-0.41766	0.421806	-0.99018	0.323001	0.088433	0.121916	0.725357	0.46888
CD274.Q9NZQ7	0.2621087	0.141389	1.853814	0.064486	-0.07876	0.369536	-0.21313	0.831398	-0.01342	0.113337	-0.11845	0.905806
ENPP2.E7EUF1	0.1444476	0.077926	1.853662	0.064548	-0.16874	0.218253	-0.77314	0.440195	0.048816	0.062508	0.780954	0.435596
NES.P48681	0.2226221	0.120225	1.851712	0.064652	-0.46653	0.311097	-1.49963	0.134729	-0.14026	0.092539	-1.51568	0.13062
SMAD1.Q15797	0.2239087	0.12074	1.854469	0.064656	0.366432	0.323623	1.132279	0.258894	-0.0845	0.099451	-0.84969	0.396528
HBS1L.Q9Y450	0.4921261	0.265785	1.851593	0.064669	-0.76524	0.682044	-1.12199	0.262736	0.488466	0.201406	2.425283	0.015867
RTKN.Q9BST9.2	0.1430232	0.07725	1.851439	0.064691	0.013177	0.200687	0.065657	0.947693	-0.01074	0.059698	-0.17983	0.857402
WDR75.Q8IWA0	0.2314541	0.124998	1.851657	0.064756	0.390735	0.336989	1.159489	0.2473	0.155416	0.097776	1.589514	0.113137
SAP18.O00422	0.3600605	0.194531	1.850912	0.064767	0.005671	0.442575	0.012813	0.989785	0.080027	0.13158	0.608203	0.543498
NCS1.P62166	-0.392224	0.21201	-1.85002	0.064895	0.080168	0.537536	0.149141	0.88154	0.057576	0.15988	0.360121	0.719002
SH3BGRL.O75368	0.3490362	0.188771	1.848996	0.065044	0.301212	0.479162	0.628622	0.530059	0.183104	0.142253	1.287169	0.198996
ITGB4.P16144.3	0.2952884	0.159705	1.848959	0.065049	-0.19435	0.411052	-0.47281	0.636682	0.058411	0.12228	0.477685	0.633211
KCNMA1.Q12791.3	-0.488527	0.264319	-1.84825	0.065152	0.332863	0.65487	0.508289	0.611612	0.189814	0.194595	0.975433	0.330106
CFAP36.Q96G28	-0.387341	0.209588	-1.8481	0.065173	0.111459	0.53784	0.207235	0.835963	-0.41457	0.158267	-2.61946	0.00924
GPM6B.Q13491.4	-0.277569	0.150239	-1.84751	0.065259	0.353097	0.378281	0.933426	0.351327	-0.24717	0.111812	-2.21056	0.027796
BZW2.Q9Y6E2	0.4752527	0.257313	1.846985	0.065335	-0.5101	0.64419	-0.79184	0.429058	-0.07258	0.191784	-0.37845	0.705353
EIF4A3.P38919	0.4227785	0.228932	1.846739	0.065371	-0.3438	0.514182	-0.66864	0.50422	0.254141	0.152388	1.667721	0.096381
ACY1.Q03154	0.3904292	0.211438	1.846545	0.065399	-0.74615	0.534763	-1.39528	0.16393	0.260278	0.158895	1.638048	0.102426
GRASP.Q7Z6J2	-0.189103	0.10239	-1.84689	0.065411	-0.2075	0.2674	-0.77599	0.438412	0.017729	0.078308	0.226394	0.821061
CDC42SE2.Q9NRR3	-0.124883	0.067663	-1.84566	0.065555	0.222598	0.181737	1.224833	0.221615	-0.03489	0.054261	-0.64303	0.520707
SEPT8.Q92599	0.3606453	0.195504	1.844696	0.065668	-0.25193	0.547213	-0.46039	0.645557	0.186042	0.162499	1.144885	0.25314
RAB3IP.Q96QF0	0.3489031	0.189152	1.844568	0.065716	-0.58645	0.466666	-1.25668	0.209857	0.193565	0.140261	1.380034	0.168614
FMNL1.O95466.2	0.4359696	0.236551	1.843023	0.065913	-0.0109	0.643614	-0.01694	0.986495	0.335256	0.190515	1.759738	0.079439
PDE2A.O00408.2	-0.27753	0.150648	-1.84224	0.066028	0.065691	0.352663	0.18627	0.852355	-0.05958	0.104862	-0.56814	0.570351
RNF121.Q9H920	0.2412418	0.130846	1.843711	0.066056	-0.6105	0.375806	-1.6245	0.1057	0.065885	0.113029	0.582899	0.560558
SEPHS1.P49903	0.2901888	0.157616	1.841118	0.066192	-0.08088	0.371704	-0.2176	0.827885	0.094467	0.110454	0.855269	0.393063
SGIP1.Q9BQI5.5	-0.220989	0.120064	-1.84059	0.06627	0.198315	0.33071	0.599665	0.549168	-0.25641	0.097354	-2.63376	0.008868
IMMT.Q16891.2	-0.466819	0.253669	-1.84027	0.066317	0.887437	0.686796	1.292141	0.197271	-0.18424	0.204592	-0.90053	0.368537
UNC13B.B1AM27	0.3173456	0.172406	1.840692	0.066389	0.028013	0.459563	0.060956	0.951442	-0.07145	0.134605	-0.53083	0.596002

MAPK7.Q13164	-0.269175	0.146283	-1.8401	0.066462	0.844855	0.381305	2.215695	0.027586	0.105916	0.113863	0.930207	0.353134
MAP2K2.P36507	0.4295162	0.233556	1.839031	0.066499	-0.41769	0.545591	-0.76557	0.444516	0.443436	0.160493	2.762962	0.00607
COA6.Q5JTJ3	-0.283314	0.154074	-1.83881	0.066531	-0.24443	0.405483	-0.60281	0.547077	-0.47853	0.117595	-4.06934	5.99E-05
SNRNP200.O75643	0.4571365	0.248736	1.837842	0.066674	-0.05601	0.56898	-0.09843	0.921653	0.076901	0.169208	0.454479	0.649802
LDHB.P07195	0.4102452	0.223237	1.837715	0.066693	-0.36987	0.541836	-0.68262	0.495357	0.214315	0.160848	1.332409	0.183704
HBB.P68871	0.0985536	0.053632	1.837599	0.06671	0.081126	0.135677	0.597938	0.550318	0.077128	0.040146	1.921178	0.055626
KDM1A.O60341	0.4034578	0.219519	1.837915	0.066722	0.247108	0.546872	0.451858	0.651717	0.513056	0.158149	3.244123	0.001319
NELFCD.X6RLT1	0.267491	0.145486	1.838604	0.066773	0.298082	0.408125	0.73037	0.465895	-0.03043	0.123419	-0.24659	0.805443
PTRHD1.Q6GMV3	0.3007666	0.163776	1.836449	0.06688	-0.19071	0.420423	-0.45361	0.650424	0.233559	0.124405	1.877416	0.0614
DZIP3.Q86Y13	-0.224698	0.122294	-1.83735	0.066909	0.132219	0.330626	0.399906	0.689578	-0.09776	0.098295	-0.99459	0.320929
EPB41L1.Q9H4G0.4	-0.233668	0.127258	-1.83618	0.06692	0.428897	0.332159	1.291239	0.197583	-0.05075	0.099035	-0.51247	0.60869
C5orf51.A6NDU8	0.3513649	0.191466	1.835127	0.067076	-0.37269	0.455192	-0.81876	0.413553	-0.07587	0.13549	-0.55997	0.575903
ABC9.Q6P2Q0	0.2355476	0.128395	1.834559	0.06716	-0.1076	0.340761	-0.31576	0.752397	0.057496	0.101334	0.56739	0.57086
LPPR2.Q96GM1.2	-0.178671	0.0974	-1.8344	0.067235	0.212012	0.263825	0.803607	0.422294	-0.07508	0.077227	-0.9722	0.331773
ARF5.P84085	-0.300291	0.163763	-1.83369	0.067289	0.943782	0.414086	2.279193	0.023335	-0.18454	0.123768	-1.49105	0.136966
SMIM13.PODJ93	-0.22918	0.125223	-1.83017	0.067815	0.15662	0.34308	0.456511	0.648342	-0.51126	0.097878	-5.22344	3.23E-07
DHRS7B.A0A0C4DGQ8	-0.328617	0.179586	-1.82986	0.067861	-0.47498	0.469488	-1.01169	0.312476	-0.1328	0.139691	-0.95067	0.342511
ANP32B.Q92688	0.3037958	0.166051	1.829529	0.067911	-0.46536	0.431112	-1.07944	0.281229	0.335887	0.127065	2.643431	0.008624
CPNE3.O75131	0.3205204	0.175298	1.828432	0.068076	-0.51555	0.458604	-1.12417	0.261812	0.138614	0.136478	1.015657	0.310585
TIMM17A.Q99595	-0.165009	0.09008	-1.83181	0.068175	-0.30356	0.240845	-1.2604	0.209456	0.017941	0.056237	0.319025	0.750145
PCDH10.Q9P2E7	-0.550385	0.301288	-1.82677	0.068325	-1.03841	0.713072	-1.45625	0.146336	-0.40846	0.211583	-1.9305	0.054457
PPP1R37.O75864	-0.399661	0.218816	-1.82647	0.068371	-0.65547	0.599683	-1.09303	0.275227	0.113391	0.178623	0.634805	0.526024
FKBP1B.P68106	-0.247236	0.135391	-1.82608	0.068429	0.763001	0.33172	2.300135	0.022105	-0.04813	0.099482	-0.48383	0.628847
MT.ND3.P03897	-0.217033	0.118834	-1.82635	0.068448	0.078239	0.31659	0.247131	0.804989	0.00542	0.091594	0.059172	0.952858
IGSF11.C9JMW0	-0.192561	0.105453	-1.82603	0.068499	0.015738	0.277694	0.056673	0.954846	-0.31883	0.078292	-4.07228	6.06E-05
EPS15L1.Q9UBC2.2	-0.628215	0.344227	-1.825	0.068592	1.48515	0.873393	1.700438	0.090052	-0.43936	0.259832	-1.69093	0.091855
DPP10.Q8N608.3	-0.290542	0.159239	-1.82456	0.068659	-0.07513	0.387266	-0.194	0.846304	-0.04074	0.115189	-0.35372	0.723788
CDH20.Q9HBT6	0.3487678	0.191206	1.824042	0.068738	-0.65425	0.4865	-1.3448	0.179673	0.093538	0.145049	0.64487	0.519488
PDE1C.Q14123	0.3241966	0.177765	1.823738	0.068784	-0.07733	0.444694	-0.17389	0.862064	0.139447	0.132058	1.055952	0.291812
ATP2A2.P16615	-0.418136	0.229292	-1.8236	0.068805	0.161617	0.586936	0.275358	0.783225	-0.04547	0.174605	-0.26043	0.794704
MBP.P02686.6	0.0877403	0.04803	1.826792	0.068877	-0.03139	0.14017	-0.22391	0.823112	0.047584	0.043251	1.100186	0.272903
ABC1.P08183	-0.317252	0.17402	-1.82307	0.068885	0.129524	0.444883	0.291142	0.771137	0.075555	0.132293	0.571118	0.568334
CADM1.A0A0A0MTJ8	-0.345594	0.189624	-1.82252	0.068969	0.339519	0.492813	0.688941	0.491376	-0.08972	0.146627	-0.61189	0.541058
RNF114.Q9Y508	0.3164857	0.173685	1.822185	0.069036	-0.86638	0.460009	-1.88341	0.060612	-0.01336	0.136663	-0.09773	0.922215

FLRT2.O43155	-0.354218	0.194416	-1.82196	0.069053	-0.46515	0.485371	-0.95834	0.338639	0.033041	0.144591	0.228512	0.819399
KLC1.G3V3H3	0.1692882	0.092828	1.823677	0.069223	-0.24887	0.240452	-1.03499	0.302002	-0.04642	0.072288	-0.64218	0.521536
HNRNPC.P07910.2	0.3995382	0.219459	1.820562	0.069266	-0.20651	0.494658	-0.41747	0.676623	0.114578	0.147049	0.779178	0.436469
BANF1.O75531	0.0958983	0.05268	1.820409	0.069327	0.039963	0.138004	0.289582	0.772341	0.033375	0.040788	0.818257	0.413878
HDGF.P51858	0.2407214	0.1323	1.819513	0.069426	-0.02833	0.31833	-0.08898	0.929154	-0.00272	0.094699	-0.02877	0.977067
SRM.P19623	-0.46562	0.255971	-1.81903	0.0695	0.332153	0.633527	0.524292	0.60045	-0.16979	0.1883	-0.9017	0.367914
COPS7B.Q9H9Q2	0.4602217	0.25325	1.817265	0.06977	-1.10776	0.639074	-1.73339	0.084021	0.423718	0.18951	2.235855	0.026073
FARSB.Q9NSD9	-0.331776	0.182572	-1.81723	0.069775	0.441051	0.508062	0.868106	0.386008	-0.34008	0.150085	-2.26593	0.024145
RBM5.P52756	0.2731718	0.150438	1.815838	0.069999	-0.74071	0.402871	-1.83858	0.066949	0.076666	0.121503	0.630981	0.528526
MPC2.Q5R3B4	-0.234477	0.129171	-1.81525	0.070097	0.330942	0.338869	0.976609	0.32955	-0.04107	0.100216	-0.40979	0.682255
SPP1.P10451	0.0827594	0.045613	1.814363	0.070216	0.181352	0.122661	1.478477	0.140295	0.018938	0.036602	0.517389	0.605254
SRPR.P08240	-0.436626	0.240683	-1.81411	0.070255	-0.27348	0.580553	-0.47107	0.637922	-0.10335	0.172666	-0.59854	0.54992
PNMA1.Q8ND90	-0.226805	0.125047	-1.81376	0.070309	-0.10415	0.324881	-0.32057	0.748752	-0.03752	0.096639	-0.3883	0.698063
MRPL52.Q86TS9	-0.21409	0.117911	-1.81569	0.070365	-0.34391	0.304138	-1.13078	0.259579	-0.06778	0.08997	-0.7534	0.452149
MAGED1.Q9Y5V3	-0.310222	0.171132	-1.81277	0.070462	0.407279	0.409959	0.993462	0.32126	-0.33271	0.120679	-2.75698	0.00618
LRR7.Q96NW7	-0.412372	0.227623	-1.81165	0.070636	-0.25221	0.549328	-0.45912	0.646472	-0.26011	0.162802	-1.59771	0.111126
DOCK10.Q96BY6	0.3183153	0.175755	1.811127	0.070716	0.034069	0.469524	0.072561	0.942202	0.226223	0.139084	1.62652	0.104855
CD38.P28907	0.1387454	0.076623	1.810748	0.070775	-0.36494	0.207708	-1.757	0.079906	0.049535	0.062033	0.798533	0.425172
NUBP1.P53384	0.2448671	0.13526	1.810337	0.070839	-0.41622	0.355617	-1.17043	0.242728	0.119833	0.105805	1.132586	0.258263
PCMT1.P22061	-0.407244	0.22497	-1.81021	0.070858	0.212934	0.581773	0.366008	0.714608	0.17839	0.172808	1.032306	0.302734
NXPH1.P58417	0.3057842	0.168894	1.810509	0.070947	-0.13005	0.45298	-0.28711	0.77427	0.191629	0.129803	1.476308	0.141125
SLC6A15.Q9H2J7	0.2602359	0.143821	1.809437	0.070979	0.448333	0.37633	1.19133	0.234435	0.321553	0.110711	2.904434	0.003944
SSRP1.Q08945	0.3665184	0.202615	1.808943	0.071056	-0.82142	0.472815	-1.73729	0.083329	0.013223	0.141335	0.093558	0.92552
MAPK10.P53779.2	-0.48021	0.265545	-1.80839	0.071141	0.019394	0.653314	0.029685	0.976337	-0.15539	0.194149	-0.80037	0.424108
ARC.Q7LC44	-0.326815	0.180829	-1.80732	0.071309	-0.22636	0.442533	-0.51152	0.609351	-0.00332	0.131701	-0.02524	0.979878
ABL2.P42684.6	-0.505068	0.279608	-1.80634	0.071461	0.162715	0.699985	0.232455	0.816338	0.000256	0.208251	0.001229	0.99902
ECE1.P42892	0.2555749	0.141515	1.805996	0.071545	-0.51771	0.410838	-1.26012	0.208621	0.228433	0.119421	1.912839	0.056737
ALAD.P13716	0.2631665	0.145781	1.805219	0.071637	0.153238	0.397506	0.385497	0.700133	0.182675	0.117824	1.550408	0.122064
MRPL10.Q7Z7H8	-0.155254	0.086046	-1.8043	0.0718	-0.11584	0.219005	-0.52892	0.597249	-0.00375	0.064906	-0.05774	0.953991
NAPG.Q99747	-0.476421	0.264107	-1.8039	0.071844	0.688153	0.675757	1.018344	0.309309	0.019685	0.201359	0.097762	0.922184
KCTD12.Q96CX2	0.3636824	0.201612	1.803876	0.071848	-0.23554	0.489048	-0.48163	0.630409	0.082773	0.145462	0.569039	0.569742
PPIA.P62937.2	0.3872484	0.214718	1.803517	0.071904	-0.12853	0.552245	-0.23274	0.816117	0.417195	0.16258	2.566094	0.010755
KIAA1191.Q96A73	-0.315715	0.175156	-1.80248	0.072067	-0.18159	0.494823	-0.36699	0.713878	-0.89355	0.13821	-6.4652	3.93E-10
PLEKHA2.A8K727	-0.38206	0.21204	-1.80183	0.07217	-0.23331	0.512714	-0.45505	0.649394	-0.04585	0.152552	-0.30054	0.763968

TMEM209.Q96SK2	0.2852791	0.15826	1.8026	0.072249	-0.12143	0.365478	-0.33225	0.739993	-0.28208	0.111737	-2.52452	0.012237
MOB1B.Q7L9L4	0.2907185	0.161447	1.800703	0.072347	-0.35426	0.406788	-0.87087	0.384498	0.158584	0.120825	1.31251	0.190319
POGZ.Q7Z3K3	0.3215787	0.178675	1.799801	0.07249	0.099645	0.410725	0.242606	0.808471	-0.08201	0.122106	-0.67166	0.502302
SUCLA2.Q9P2R7	-0.397263	0.220877	-1.79857	0.072685	0.226962	0.634993	0.357424	0.721018	-0.12366	0.188808	-0.65493	0.513
ATP6V1B2.P21281	-0.535458	0.297759	-1.79829	0.072729	0.068339	0.762028	0.08968	0.928599	0.144331	0.226544	0.637097	0.524532
HSPE1.MOB4.S4R3N1	-0.336552	0.187157	-1.79824	0.072738	0.670619	0.479668	1.398091	0.163085	-0.01955	0.143138	-0.1366	0.891434
TMEM240.Q5SV17	0.1426642	0.079337	1.798208	0.072819	-0.01084	0.237074	-0.04574	0.96355	-0.06677	0.069311	-0.9633	0.336261
HMGCL.P35914	-0.39645	0.220531	-1.79771	0.072822	0.000515	0.556877	0.000924	0.999263	-0.17544	0.165361	-1.06097	0.289529
UBE2Z.Q9H832	-0.254419	0.141587	-1.79691	0.072949	0.325632	0.365178	0.891707	0.373241	0.041845	0.108747	0.384788	0.700659
PCDH1.Q08174.2	-0.396646	0.220989	-1.79487	0.073274	-0.01145	0.548107	-0.0209	0.983342	-0.28927	0.162222	-1.78315	0.07554
DBNL.Q9UJU6.3	-0.26347	0.146834	-1.79434	0.073368	-0.56564	0.397686	-1.42233	0.155956	-0.13027	0.119404	-1.09101	0.276132
NFKB1.P19838	0.3016668	0.168133	1.794215	0.073378	-0.56744	0.428787	-1.32337	0.186687	0.23781	0.127201	1.869551	0.062489
FAM21B.Q5SNT6	0.150403	0.083834	1.79405	0.073404	0.335185	0.214544	1.562314	0.119234	-0.0739	0.063936	-1.15578	0.248662
CRYAB.P02511	0.1055458	0.058831	1.794047	0.073405	-0.02713	0.157723	-0.17199	0.863555	0.034617	0.046881	0.7384	0.46083
EPB41L4B.Q9H329	-0.33371	0.186074	-1.79343	0.073504	-0.36269	0.498656	-0.72734	0.467564	-0.40953	0.146635	-2.79285	0.005549
WDR5.P61964	0.386394	0.215758	1.790869	0.073914	-0.2611	0.482964	-0.54063	0.589152	0.19821	0.143299	1.383189	0.167602
SYMPK.Q92797	0.339531	0.189592	1.790855	0.073917	-0.31867	0.482706	-0.66018	0.50963	-0.15324	0.143434	-1.06838	0.286179
KBTBD11.O94819	-0.607766	0.339395	-1.79073	0.073936	-0.63295	0.883456	-0.71645	0.474252	-0.33079	0.262358	-1.26083	0.208318
SHC2.P98077	-0.352168	0.196608	-1.79122	0.073942	-0.28159	0.566548	-0.49703	0.619577	0.064977	0.165191	0.393346	0.694378
YWHAE.K7EM20	-0.112676	0.062924	-1.79068	0.073965	0.169581	0.160851	1.054277	0.292601	-0.03295	0.047122	-0.69916	0.484994
CD99.P14209	0.0940264	0.052517	1.790407	0.073989	-0.07818	0.139325	-0.56113	0.575112	-0.07417	0.041253	-1.79784	0.073175
LONRF2.Q1L5Z9	-0.302849	0.169184	-1.79006	0.074045	0.195922	0.411053	0.476635	0.633958	0.166276	0.121961	1.363355	0.17376
SORBS1.Q9BX66.12	-0.339003	0.18939	-1.78998	0.074058	0.327982	0.489341	0.670252	0.503196	-0.77716	0.138828	-5.59806	4.78E-08
LY6H.O94772	-0.149229	0.083374	-1.78988	0.074074	-0.16577	0.198536	-0.83494	0.404393	-0.03018	0.059103	-0.51061	0.609986
CSTF1.Q05048	0.3929621	0.219682	1.788775	0.074292	-0.21915	0.584269	-0.37508	0.707874	0.334959	0.168098	1.992637	0.047245
SH3GL3.Q99963	-0.299597	0.167575	-1.78783	0.074403	0.201471	0.411433	0.48968	0.624706	-0.07541	0.122367	-0.61623	0.538194
SDC4.P31431	0.1503048	0.084092	1.787383	0.074476	0.013578	0.209979	0.064662	0.948485	-0.02158	0.062453	-0.34557	0.729898
STK38.Q15208	0.2464965	0.1378	1.788793	0.074585	0.311219	0.367364	0.847168	0.397875	0.123056	0.109683	1.121919	0.26319
TXN2.Q99757	-0.2222	0.124375	-1.78654	0.074613	0.178814	0.389928	0.458583	0.646855	0.11287	0.115859	0.974205	0.330714
EFR3A.Q14156	0.4639901	0.259787	1.786042	0.074694	0.881534	0.683559	1.289624	0.198142	0.536866	0.201598	2.663047	0.008148
ZCCHC17.Q9NP64	0.2414314	0.135111	1.786913	0.07477	-0.13242	0.331402	-0.39957	0.689845	0.112644	0.096431	1.168131	0.243979
CERS2.Q5SZE1	0.2103306	0.117807	1.785377	0.074925	0.416728	0.313916	1.327516	0.185516	0.110781	0.092811	1.193621	0.233727
ARPC5L.Q9BPX5	-0.361149	0.202458	-1.78382	0.075054	0.451208	0.513561	0.878588	0.380305	0.017785	0.152962	0.116268	0.907515
VPS26B.Q4G0F5	-0.361807	0.20288	-1.78335	0.07513	0.495069	0.515845	0.959724	0.337942	-0.2787	0.152865	-1.82321	0.069235

CHML.P26374	-0.290655	0.163054	-1.78257	0.075258	-0.22628	0.408533	-0.55388	0.580059	-0.08714	0.121491	-0.71725	0.473759
SLC25A20.O43772	0.3771491	0.211628	1.782128	0.07533	-0.20502	0.551002	-0.37209	0.710083	0.214095	0.163499	1.309463	0.191347
RAB11FIP5.Q9BXF6	-0.539429	0.302694	-1.78209	0.075336	0.445917	0.832371	0.535719	0.592537	-0.3295	0.247022	-1.33391	0.183214
GNG2.P59768	-0.193016	0.108315	-1.78199	0.075353	0.293734	0.261794	1.122003	0.262729	-0.05604	0.077972	-0.71873	0.472847
PTPRK.Q15262	-0.421632	0.236629	-1.78183	0.075379	0.162635	0.590933	0.275218	0.783332	0.085079	0.175747	0.4841	0.628657
TRIM65.Q6PJ69	-0.199041	0.111668	-1.78243	0.075432	-0.14958	0.30148	-0.49614	0.620221	0.052747	0.091798	0.574601	0.566062
VPS37B.Q9H9H4	-0.225121	0.126422	-1.78071	0.075579	0.223225	0.327737	0.681111	0.496327	-0.00669	0.096871	-0.06909	0.944962
DRG2.P55039	0.411869	0.23132	1.780516	0.075594	-0.59412	0.611328	-0.97186	0.331879	0.555263	0.179385	3.095367	0.002145
CDH9.Q9ULB4	-0.286267	0.160801	-1.78025	0.075637	0.43832	0.405913	1.079839	0.281053	0.067683	0.120918	0.559742	0.576059
AKR1C3.A0A0A0MSS8	0.2310908	0.129838	1.779842	0.075704	-0.10089	0.317379	-0.31789	0.750782	0.030303	0.094414	0.320956	0.74846
IGKC.A0A087WYL9	-0.163691	0.091812	-1.7829	0.075811	0.249407	0.231599	1.076895	0.283138	0.018038	0.070494	0.255875	0.798374
FBP1.P09467	0.2236576	0.125731	1.778863	0.076099	0.225949	0.339923	0.664705	0.506932	0.06555	0.095043	0.689688	0.491114
SEC62.Q99442	0.3606808	0.202938	1.7773	0.076122	-1.52675	0.50636	-3.01515	0.002781	0.264948	0.152083	1.742123	0.082479
SYNGAP1.B7ZCA0	-0.19744	0.111157	-1.77623	0.076328	0.363936	0.272861	1.333778	0.183305	-0.15046	0.081716	-1.84123	0.066592
U2AF1.Q01081	0.3702945	0.208534	1.7757	0.076386	-0.14397	0.488487	-0.29473	0.768399	0.091131	0.145244	0.627435	0.530836
SRSF11.Q05519	0.2603826	0.146627	1.775822	0.076404	0.155719	0.367582	0.42363	0.672147	-0.25923	0.10772	-2.40649	0.016728
HLA.DRA.P01903	0.1318116	0.074215	1.776082	0.076407	-0.2569	0.18227	-1.40943	0.159841	0.08411	0.053936	1.559445	0.120045
TTC9B.Q8N6N2	0.1774299	0.099972	1.774793	0.076536	-0.15961	0.262493	-0.60803	0.54361	0.168039	0.077549	2.166884	0.031005
RGMB.Q6NW40	-0.195792	0.11029	-1.77524	0.076545	0.17564	0.305316	0.575273	0.565583	0.069237	0.09201	0.752496	0.452404
SLCO1C1.Q9NYB5	-0.191413	0.107778	-1.776	0.076612	-0.32515	0.278892	-1.16586	0.244939	-0.06317	0.082523	-0.76552	0.444789
SPR.P35270	-0.265639	0.14972	-1.77424	0.076627	0.273249	0.387091	0.705904	0.480778	0.159033	0.114891	1.384212	0.167289
PDE4DIP.A0A087WVF8	0.2047722	0.115415	1.774226	0.076629	0.15169	0.295663	0.513051	0.608281	0.147517	0.087592	1.684135	0.093162
PPP1R12B.O60237	-0.378651	0.213499	-1.77355	0.076742	0.52599	0.572956	0.918029	0.359317	-0.8929	0.162967	-5.47902	8.86E-08
AKAP12.Q02952	0.3293007	0.185712	1.773175	0.076804	0.107329	0.496129	0.216334	0.82887	-0.07256	0.147543	-0.49177	0.623231
YWHAG.P61981	-0.44193	0.249236	-1.77314	0.07681	0.020443	0.610958	0.033461	0.973329	0.053424	0.181724	0.293982	0.768968
PHYH.O14832	-0.255356	0.144087	-1.77224	0.076997	0.115237	0.395576	0.291315	0.771017	-0.26058	0.116051	-2.24542	0.025489
MINK1.Q8N4C8.5	-0.142807	0.080527	-1.77341	0.077039	0.015579	0.239992	0.064916	0.948301	-0.41989	0.066195	-6.34321	1.30E-09
DCTN6.O00399	-0.255528	0.144259	-1.77131	0.077113	0.042018	0.357803	0.117434	0.906593	-0.04199	0.106416	-0.39461	0.693403
HMGB1.Q5T7C4	0.194285	0.109695	1.771144	0.077141	0.021808	0.260002	0.083874	0.93321	-0.07374	0.077233	-0.95481	0.340417
ORC5.O43913	0.320371	0.180718	1.772768	0.077184	0.061547	0.461437	0.133382	0.894021	-0.08771	0.138513	-0.63325	0.527275
JAK1.P23458	0.4492813	0.253799	1.770224	0.077294	-0.51294	0.619142	-0.82847	0.408039	0.14355	0.184207	0.779283	0.436407
OSBPL2.Q9H1P3	0.4660388	0.263271	1.770186	0.077301	1.074841	0.675028	1.59229	0.112339	0.09244	0.20156	0.458625	0.646825
ANKFY1.Q9P2R3	0.6021931	0.340268	1.76976	0.077372	-0.80325	0.906746	-0.88585	0.376383	0.433926	0.268955	1.613377	0.10768
PSD.A5PKW4	-0.335074	0.18934	-1.7697	0.077382	0.013466	0.470488	0.02862	0.977186	-0.36802	0.138393	-2.65923	0.008239

CYB5R2.Q6BCY4	0.1483042	0.083862	1.768433	0.077593	-0.06245	0.214129	-0.29167	0.770738	0.055904	0.063629	0.878588	0.380305
GAP43.P17677	-0.264838	0.149783	-1.76814	0.077642	0.255513	0.362408	0.705042	0.481313	-0.13816	0.107611	-1.28389	0.20014
DNER.Q8NFT8	0.2389157	0.135163	1.767608	0.077741	0.251847	0.332373	0.757724	0.449195	0.102958	0.099185	1.038038	0.300066
TMSB10.P63313	0.1050417	0.059439	1.767233	0.077794	0.078081	0.156912	0.497611	0.619111	0.043096	0.046633	0.924156	0.356124
HPS3.Q969F9	-0.124738	0.070492	-1.76954	0.077796	-0.21949	0.186997	-1.17377	0.24209	0.078896	0.05142	1.534358	0.126758
PPM1B.O75688	0.4373889	0.247566	1.766759	0.077874	0.476338	0.631516	0.754277	0.451256	-0.0007	0.188037	-0.00371	0.997044
ILF3.Q12906.7	0.3904254	0.220993	1.766687	0.077886	0.176508	0.522302	0.337942	0.735636	-0.04898	0.155379	-0.31526	0.75278
ZNF787.A0A087WUD1	0.1476672	0.083498	1.76852	0.077945	-0.22253	0.210052	-1.0594	0.290707	0.015545	0.064115	0.242455	0.808679
TSC22D3.Q99576.3	0.2648168	0.149987	1.7656	0.078068	-0.05422	0.394407	-0.13747	0.890749	-0.3374	0.115757	-2.91468	0.00382
BOLA2.Q9H3K6	0.2603231	0.147464	1.765334	0.078113	-0.13619	0.347206	-0.39224	0.69515	0.117843	0.103096	1.143039	0.253904
RBP1.A0A0A0MQT0	0.2215351	0.125548	1.764547	0.078246	0.08634	0.31373	0.275205	0.783342	0.018582	0.093335	0.199085	0.842327
KLHL42.Q9P2K6	-0.255505	0.144798	-1.76455	0.078295	0.613229	0.401782	1.526272	0.128055	-0.29322	0.117821	-2.48868	0.013395
RIC8B.Q9NVN3.1	0.2524234	0.143066	1.764383	0.078303	-0.4572	0.348359	-1.31243	0.190385	0.092334	0.104551	0.883149	0.377868
TMEM63B.Q5T3F8	-0.35496	0.201203	-1.76419	0.078306	-1.04532	0.50966	-2.05102	0.041105	-0.16682	0.152346	-1.09502	0.274356
SLC25A11.Q02978	-0.340817	0.193201	-1.76406	0.078328	-0.12054	0.487298	-0.24737	0.804783	-0.10812	0.144847	-0.74641	0.455985
CDH7.Q9ULB5	-0.298847	0.169414	-1.764	0.078378	0.033539	0.428244	0.078318	0.937629	-0.06821	0.124829	-0.54644	0.585187
ETNPPL.Q8TBG4	-0.119353	0.06767	-1.76375	0.078399	-0.19249	0.172374	-1.11668	0.265019	-0.18566	0.050354	-3.68716	0.000269
CACNA1E.Q15878.3	-0.301669	0.170779	-1.76642	0.078467	-0.30569	0.441399	-0.69254	0.489603	-0.07311	0.128699	-0.56807	0.570783
ARHGAP22.Q7Z5H3	0.1702104	0.096489	1.764031	0.0785	0.116576	0.262501	0.444096	0.657365	0.054415	0.077315	0.703808	0.48222
PDLIM3.Q53GG5.2	0.2075282	0.117742	1.76256	0.078581	0.057004	0.292886	0.194627	0.845813	-0.14335	0.086753	-1.65238	0.09947
DIRAS1.O95057	-0.322695	0.183127	-1.76213	0.078653	0.315546	0.46556	0.677777	0.498418	-0.09546	0.138492	-0.68925	0.491184
PCLO.Q9Y6V0.5	-0.422318	0.239677	-1.76203	0.078671	0.10217	0.618959	0.165068	0.868998	-0.34014	0.183121	-1.85745	0.064195
SART3.Q15020	0.4233287	0.240349	1.76131	0.078792	0.302654	0.546786	0.553515	0.58031	-0.06235	0.162701	-0.38324	0.701806
PSMA7.O14818	0.5156256	0.292977	1.759955	0.079022	-0.56327	0.753428	-0.74761	0.455259	0.584295	0.221865	2.633555	0.008873
SMG1.Q96Q15	0.518022	0.294554	1.758668	0.079241	-1.18261	0.758653	-1.55883	0.120056	0.310571	0.225881	1.374931	0.170146
RGS6.P49758.3	-0.428164	0.243476	-1.75855	0.079262	0.965282	0.627159	1.539135	0.124791	0.29662	0.186521	1.59028	0.112791
MAP7.A0A087WZ40	0.2610041	0.148435	1.758369	0.079292	0.120467	0.405864	0.296816	0.766806	-0.60388	0.115781	-5.21573	3.35E-07
MOBP.Q13875	0.0811082	0.046134	1.758102	0.079337	0.009824	0.118602	0.082829	0.934041	0.029375	0.035243	0.833517	0.405195
TTC4.O95801	0.3150472	0.179097	1.759082	0.079338	0.329482	0.473444	0.695925	0.487155	0.393683	0.138809	2.836149	0.004959
USP34.Q70CQ2	0.1211494	0.068886	1.758684	0.07951	0.062888	0.197177	0.31894	0.750092	0.008376	0.056144	0.149181	0.881556
SLTM.Q9NWH9	0.3019336	0.171841	1.757055	0.079516	-0.14244	0.417034	-0.34156	0.732913	-0.34089	0.122564	-2.78134	0.005745
AUH.Q13825	-0.393683	0.224134	-1.75646	0.079617	0.451376	0.573517	0.787032	0.431865	0.025113	0.170776	0.14705	0.883188
SLC15A2.Q16348	0.2088087	0.118887	1.756364	0.079634	-0.19485	0.28935	-0.6734	0.501197	0.111723	0.085905	1.300532	0.194385
NFIB.O00712	0.2549366	0.145012	1.758035	0.079644	-0.21438	0.330416	-0.64882	0.517147	0.0794	0.092674	0.856772	0.39252

CCDC144A.A2RUR9	-0.205112	0.11665	-1.75835	0.079681	0.23937	0.307684	0.777972	0.437563	-0.05031	0.092137	-0.54605	0.585679
ARHGEF4.Q9NR80	-0.283819	0.161647	-1.75579	0.079731	0.051411	0.437952	0.11739	0.906627	-0.19295	0.129824	-1.48624	0.138232
PIBF1.A0A087WUI6	-0.261952	0.148934	-1.75884	0.079746	0.35774	0.384772	0.929746	0.353837	-0.08925	0.113989	-0.78301	0.434722
ELMO2.Q5JVZ5	0.6281805	0.357826	1.75555	0.079773	-0.59616	0.958722	-0.62183	0.53451	0.112892	0.285309	0.395685	0.69261
SEPSECS.Q9HD40	0.2717274	0.154767	1.755717	0.079795	-0.60049	0.422972	-1.41969	0.156783	0.128605	0.129289	0.994708	0.320716
RUVBL1.Q9Y265	0.4535199	0.2585	1.754429	0.079965	0.318534	0.664309	0.479496	0.631924	0.189113	0.197402	0.958013	0.338803
SCAMP5.Q8TAC9	-0.403005	0.229722	-1.75431	0.079984	-0.11915	0.578696	-0.20589	0.837009	-0.04131	0.172148	-0.23996	0.810519
PXK.W5RWE6	0.1761913	0.100465	1.753766	0.080078	-0.19939	0.264961	-0.75251	0.452317	0.104589	0.078669	1.329481	0.184667
GRIN1.Q05586.5	-0.437837	0.249706	-1.75341	0.08014	0.339178	0.655108	0.517744	0.605006	-0.1728	0.19472	-0.88742	0.375542
XPO4.Q9C0E2	0.3544875	0.202174	1.753378	0.080145	-0.34055	0.515341	-0.66083	0.509211	-0.18427	0.153055	-1.20391	0.229541
IRAK1.D3YT85	0.4429172	0.252636	1.753182	0.080199	-0.8738	0.662554	-1.31883	0.188227	0.049364	0.196816	0.250815	0.802128
ZFR.Q96KR1	0.4102397	0.234028	1.752954	0.080218	-0.46751	0.593108	-0.78824	0.43116	-0.15042	0.176409	-0.85268	0.394497
C2CD4C.Q8TF44	-0.221313	0.126256	-1.75289	0.080229	-0.05162	0.318041	-0.16232	0.871161	-0.02691	0.094603	-0.28446	0.776247
ABCB10.Q9NRK6	-0.323137	0.184364	-1.75271	0.080259	0.019765	0.498098	0.03968	0.968374	-0.01966	0.148171	-0.13267	0.894541
EMC10.M0R2A0	-0.288517	0.164721	-1.75155	0.080459	0.281711	0.404719	0.696067	0.486909	0.067283	0.12043	0.558687	0.576779
KRT222.Q8N1A0	0.2487464	0.142073	1.750832	0.080583	0.319542	0.375294	0.851443	0.395181	0.215279	0.111103	1.937653	0.053574
SSFA2.E9PHV5	0.1942694	0.11102	1.749856	0.080825	0.387216	0.308219	1.256299	0.210062	-0.02593	0.091853	-0.28229	0.777933
RWDD2A.Q9UIY3	-0.247547	0.141457	-1.74998	0.080915	-0.08962	0.399111	-0.22455	0.822529	0.19824	0.118931	1.666853	0.096893
FAM13C.Q8NE31	0.4084603	0.233647	1.74819	0.081078	-0.82618	0.597198	-1.38343	0.167607	0.395005	0.180024	2.194177	0.029024
PLRG1.O43660	0.3208185	0.183515	1.748188	0.08108	-0.02527	0.444306	-0.05688	0.954681	-0.14485	0.132605	-1.09235	0.275576
NDUF4F3.Q9BU61	-0.252236	0.144306	-1.74793	0.081085	-0.04305	0.364263	-0.11819	0.905994	0.047226	0.108331	0.435942	0.663182
PPP3CB.P16298	-0.48498	0.277586	-1.74713	0.081224	0.007299	0.731154	0.009983	0.992041	-0.34065	0.216643	-1.57242	0.116873
DLGAP2.Q9P1A6	-0.307459	0.175997	-1.74695	0.081255	0.272577	0.426313	0.639382	0.523046	-0.37019	0.12515	-2.95793	0.003335
PAPOLA.P51003	0.2455793	0.140538	1.747419	0.081272	-0.29449	0.388831	-0.75736	0.449512	0.091822	0.114645	0.800923	0.423899
LG12.Q8NOV4	0.1720878	0.098609	1.745152	0.081585	-0.0878	0.246257	-0.35654	0.721689	-0.04033	0.07271	-0.5547	0.579515
CNTN2.Q02246	0.2660578	0.152517	1.744453	0.08169	-0.06468	0.391305	-0.16529	0.86882	0.066697	0.11635	0.573248	0.566892
SLC3A2.F5GZS6	-0.422575	0.242325	-1.74384	0.081797	-0.42339	0.630935	-0.67106	0.502685	-0.02315	0.187824	-0.12327	0.901973
PDE4A.P27815.5	0.1415527	0.081131	1.744743	0.081876	-0.32426	0.223059	-1.45367	0.147449	0.080563	0.063448	1.269739	0.205507
DOC2A.Q14183	-0.348876	0.200167	-1.74292	0.081957	-0.19141	0.518122	-0.36943	0.712056	-0.1105	0.154038	-0.71735	0.473697
uncharacterized.A0A0B4J2D5	-0.261455	0.150012	-1.74289	0.081963	0.03062	0.372511	0.082199	0.934542	0.153193	0.110475	1.386679	0.166536
PLXND1.Q9Y4D7	-0.323975	0.185969	-1.7421	0.082101	-0.53662	0.457831	-1.17209	0.24206	0.037355	0.136482	0.273699	0.784498
GYG2.O15488	0.1496297	0.085943	1.741029	0.082289	0.083901	0.213397	0.39317	0.694464	0.090016	0.063291	1.42225	0.155959
XPOT.O43592	0.3784614	0.217481	1.740207	0.082433	-0.25652	0.55168	-0.46499	0.642266	0.208506	0.163745	1.273361	0.203844
NCOA1.Q15788	-0.275882	0.158578	-1.73973	0.082592	0.436896	0.427961	1.020879	0.308206	-0.12889	0.126598	-1.0181	0.30952

RAP1GAP.X6R8W7	-0.392895	0.225898	-1.73926	0.0826	-0.10071	0.573076	-0.17574	0.860614	0.137821	0.170309	0.809239	0.418998
GSS.P48637	0.2667082	0.153375	1.738925	0.082659	-0.24158	0.431751	-0.55954	0.576198	0.105176	0.128364	0.819357	0.413212
NRXN2.G5E9G7	0.4989967	0.287057	1.738322	0.082765	-0.88025	0.707031	-1.245	0.214072	0.283717	0.210238	1.349504	0.17816
NFS1.Q9Y697	-0.366441	0.210806	-1.73829	0.082771	0.594293	0.564067	1.053586	0.292893	-0.15283	0.167876	-0.91037	0.363334
SIRT2.F8WCF4	0.0955423	0.054987	1.737538	0.082951	0.009008	0.15075	0.059752	0.952395	0.03989	0.045046	0.885554	0.376602
DLGAP1.O14490.7	-0.393663	0.226632	-1.73701	0.082996	0.646912	0.579016	1.117262	0.264747	-0.25722	0.171974	-1.49571	0.135747
LRRC73.Q5JTD7	-0.272286	0.156767	-1.73689	0.083018	0.069583	0.406373	0.171229	0.864155	-0.10614	0.120744	-0.87906	0.380048
MORC3.Q14149	0.3030968	0.174604	1.735914	0.08321	0.074584	0.425512	0.17528	0.860977	0.199311	0.127875	1.558639	0.120129
SH3GL1.Q99961	-0.281606	0.162422	-1.73379	0.083567	0.336502	0.4226	0.796265	0.426487	-0.27761	0.124853	-2.22348	0.026904
LMO7.Q8WWI1.2	-0.187733	0.108263	-1.73405	0.083573	-0.01553	0.272581	-0.05698	0.9546	-0.1737	0.082151	-2.11443	0.035344
PQBP1.O60828	0.3085858	0.178049	1.733149	0.083721	-0.22917	0.486452	-0.4711	0.637922	-0.20753	0.14181	-1.46347	0.144426
NAPRT.Q6XQN6	0.1168509	0.067505	1.730983	0.084067	-0.28416	0.170305	-1.66851	0.096224	0.056217	0.050789	1.106859	0.269213
HPS1.Q92902	0.2970356	0.171321	1.733794	0.084145	0.108613	0.46035	0.235935	0.813797	0.128333	0.142672	0.899498	0.369792
SMS.P52788	0.4162431	0.240589	1.730102	0.084224	0.045735	0.597819	0.076503	0.939068	0.325396	0.176879	1.839649	0.066776
PMPCB.O75439	-0.398645	0.230437	-1.72995	0.084252	-0.53488	0.605554	-0.8833	0.37776	-0.13052	0.180216	-0.72423	0.46947
SAE1.Q9UBE0	0.3546374	0.20511	1.729013	0.084419	-0.11275	0.487608	-0.23124	0.817283	0.031382	0.145056	0.216344	0.828862
DNPH1.O43598	0.2426008	0.140407	1.727839	0.08463	0.033168	0.363828	0.091165	0.92742	0.090766	0.108111	0.839566	0.401799
SHROOM2.Q13796	-0.393788	0.227911	-1.72781	0.084635	0.173326	0.594315	0.291641	0.770756	0.051835	0.176798	0.293187	0.769575
ACACA.Q13085	-0.503041	0.291157	-1.72773	0.084649	0.52961	0.727071	0.728416	0.466909	0.03718	0.216466	0.171761	0.863737
PDE4B.Q07343.3	0.2098185	0.121409	1.728194	0.084678	-0.05353	0.312449	-0.17133	0.864095	-0.26999	0.089406	-3.01985	0.00278
NR2F1.P10589	0.2073929	0.120042	1.727668	0.08471	-0.1176	0.306311	-0.38392	0.701322	-0.01338	0.092332	-0.14488	0.884907
SRI.E9PG82	0.1633911	0.094605	1.727083	0.084765	0.073972	0.237922	0.310906	0.756081	0.060886	0.070704	0.861133	0.38983
RPGR.Q92834	-0.290058	0.167814	-1.72845	0.0848	0.061717	0.424196	0.145492	0.88446	0.111763	0.12631	0.88483	0.377242
CHD5.Q8TDI0	-0.225188	0.13041	-1.72677	0.084895	0.209473	0.467608	0.447966	0.654532	-0.09249	0.136468	-0.67775	0.498502
TIMM22.Q9Y584	-0.253613	0.146927	-1.72612	0.085049	0.847025	0.380697	2.224932	0.026958	0.057099	0.112323	0.50835	0.611646
SLMAP.Q14BN4.6	0.4183157	0.24207	1.728077	0.085209	-0.04268	0.63243	-0.06749	0.946277	-0.06773	0.171627	-0.39461	0.693664
PITPNB.P48739.2	0.4707516	0.273111	1.723664	0.085382	0.017013	0.704513	0.024149	0.980749	0.256254	0.209074	1.225661	0.221257
NECAP2.Q9NVZ3	0.242532	0.140711	1.723614	0.085391	-0.38291	0.376922	-1.01589	0.310473	-0.05953	0.112263	-0.53029	0.596288
RASAL2.Q9UJF2.2	-0.481139	0.279273	-1.72283	0.085533	-0.12095	0.680719	-0.17768	0.859094	-0.28936	0.201844	-1.43359	0.152698
CSPG5.O95196	-0.213843	0.124151	-1.72244	0.085603	0.217675	0.318821	0.682751	0.495274	-0.34395	0.092883	-3.70308	0.000252
STARD10.A0A087WXR2	0.3724731	0.216319	1.721872	0.085706	0.256957	0.531704	0.483271	0.629245	0.434313	0.156298	2.778758	0.00579
CTDNEP1.O95476	-0.272843	0.158299	-1.72359	0.085735	-0.32654	0.398988	-0.81842	0.414059	-0.00493	0.117483	-0.04194	0.966588
VAPA.Q9POL0.2	-0.356829	0.207281	-1.72147	0.085779	0.266081	0.518699	0.512977	0.608333	-0.08409	0.154295	-0.54497	0.586168
GPT2.Q8TD30	-0.20305	0.117965	-1.72128	0.085814	0.087962	0.296505	0.296664	0.766922	-0.17719	0.087642	-2.02171	0.044065

PAFAH1B2.P68402	0.3688237	0.214328	1.72084	0.085894	0.322275	0.532223	0.605526	0.545273	0.19941	0.158015	1.261968	0.207909
VIMP.Q9BQE4	0.2509671	0.145809	1.721208	0.085916	-0.22528	0.386667	-0.58261	0.560632	-0.10908	0.118979	-0.91676	0.360067
LYSMD1.Q96S90	-0.359192	0.208777	-1.72046	0.085962	-0.49044	0.531529	-0.9227	0.356879	-0.24229	0.157738	-1.53605	0.125547
FBXO31.Q5XUXO	0.3223833	0.187479	1.719568	0.086125	0.179023	0.458796	0.390201	0.696656	-0.09841	0.136403	-0.72144	0.471183
USP31.Q70CQ4	0.4273441	0.248547	1.719369	0.086161	0.197331	0.622331	0.317083	0.751394	0.354125	0.184067	1.923893	0.055283
MTX2.O75431	-0.364023	0.211799	-1.71872	0.086279	0.12308	0.563858	0.218282	0.827353	-0.1573	0.167513	-0.93906	0.348433
KCNA1.Q09470	0.1795265	0.104471	1.718428	0.086333	0.09535	0.274952	0.346787	0.728987	0.167656	0.081253	2.063374	0.039909
TMEM178B.H3BS89	-0.207093	0.120519	-1.71834	0.086348	0.612011	0.312588	1.957883	0.051141	-0.0588	0.093503	-0.62889	0.529886
DIP2B.Q9P265	0.5354277	0.311607	1.71828	0.08636	-0.3291	0.792106	-0.41548	0.678081	0.056583	0.235681	0.240082	0.810426
UGT8.Q16880	0.12299	0.071572	1.718418	0.086376	0.06715	0.193631	0.346793	0.729003	0.120603	0.056405	2.138188	0.033355
GABRB3.P28472.2	-0.398227	0.231844	-1.71765	0.086475	-0.33023	0.61433	-0.53754	0.591278	-0.15272	0.182632	-0.83621	0.403678
IGFBP5.P24593	0.1599999	0.093156	1.717551	0.086579	0.221755	0.251299	0.882432	0.378328	0.068296	0.072266	0.945069	0.345469
THEM6.Q8WUY1	0.2087248	0.121567	1.71695	0.086603	0.348678	0.352803	0.988306	0.323773	-0.0833	0.105011	-0.79326	0.428231
SGSM1.Q2NKQ1	-0.325114	0.189361	-1.7169	0.086611	0.086134	0.49501	0.174005	0.861975	-0.23311	0.146668	-1.58938	0.112995
DST.Q03001	0.5669607	0.330241	1.716806	0.086629	-0.90663	0.875456	-1.0356	0.301194	0.343792	0.260151	1.321507	0.187307
AAK1.Q2M2I8	-0.448654	0.261338	-1.71676	0.086638	0.47319	0.659598	0.717391	0.473673	-0.39325	0.195107	-2.01556	0.044708
ST13.P50502	-0.352654	0.205448	-1.71651	0.086683	0.029257	0.554702	0.052743	0.957971	-0.14039	0.164822	-0.85175	0.39501
CCDC85B.Q15834	-0.331841	0.193396	-1.71587	0.086926	-0.54866	0.520167	-1.05478	0.292507	-0.08401	0.160598	-0.52309	0.601355
IGLV1.51.A0A075B6I5	-0.071779	0.041861	-1.7147	0.087117	-0.04589	0.101516	-0.45209	0.651562	0.031537	0.029925	1.053852	0.292879
CDKN2AIP.Q9NXV6	0.2974697	0.173542	1.71411	0.087123	-0.3799	0.415972	-0.91328	0.361807	-0.19473	0.123416	-1.57782	0.115628
LARP1B.Q659C4	0.2647324	0.154256	1.716193	0.087322	0.125643	0.401861	0.312652	0.75496	0.064351	0.11812	0.544792	0.58667
REL.Q04864	-0.289606	0.169076	-1.71287	0.087405	-0.27055	0.405945	-0.66647	0.505649	-0.0523	0.120659	-0.43345	0.665015
LYRM7.Q5U5X0	-0.232826	0.136022	-1.71168	0.087571	0.003954	0.339922	0.011633	0.990726	-0.06499	0.101053	-0.64311	0.520628
ARCN1.P48444	-0.670592	0.391858	-1.71131	0.087639	1.114578	1.002023	1.112329	0.266859	0.22506	0.298405	0.754211	0.451295
MAP4.F8W9U4	-0.207708	0.121404	-1.71089	0.087717	0.266338	0.330057	0.806945	0.420317	-0.525	0.093657	-5.60551	4.59E-08
FAM65B.Q9Y4F9	-0.143121	0.083628	-1.7114	0.087778	0.037488	0.268127	0.139813	0.888923	0.031824	0.0796	0.399793	0.689658
KCTD4.Q8WVF5	0.1451929	0.08486	1.710978	0.087813	0.249099	0.220424	1.13009	0.259484	0.105942	0.064245	1.649039	0.100352
NDFIP2.A0A0C4DGW0	-0.271152	0.158403	-1.71178	0.087828	0.464255	0.453612	1.023464	0.30726	0.135195	0.130845	1.03324	0.302674
WAC.Q9BTA9	0.2563707	0.150008	1.709042	0.088134	-0.03946	0.393201	-0.10037	0.920126	0.04922	0.117108	0.420293	0.674601
SPTA1.A0A087WZE4	0.1312953	0.076872	1.707978	0.088256	0.064089	0.196304	0.326479	0.744283	0.095768	0.058153	1.646829	0.100607
NFIA.B1AKN7	0.1461922	0.085582	1.708218	0.088275	-0.1645	0.236254	-0.69629	0.486812	-0.0846	0.070339	-1.20272	0.230082
DBT.P11182	-0.344622	0.201797	-1.70776	0.088296	0.059933	0.513395	0.116739	0.907142	-0.0668	0.152682	-0.43751	0.662049
RPS23.P62266	0.3088738	0.18087	1.707715	0.088305	-0.17376	0.462303	-0.37587	0.707273	0.032898	0.137546	0.239176	0.811127
MALSU1.Q96EH3	0.2236508	0.130788	1.710019	0.088351	-0.09755	0.353585	-0.27589	0.782967	0.000326	0.105277	0.003096	0.997533

RGS14.O43566	-0.257369	0.15081	-1.70657	0.088518	-0.0441	0.401326	-0.10988	0.912572	-0.01652	0.119386	-0.13833	0.890066
ATP6V1F.Q16864	-0.350133	0.205176	-1.7065	0.088531	0.350613	0.516618	0.67867	0.497854	-0.03183	0.153788	-0.20695	0.836183
CEBPZOS.A8MTT3	-0.276324	0.161853	-1.70726	0.088532	0.025725	0.427137	0.060226	0.952024	-0.23271	0.12013	-1.93714	0.053851
PCDH7.HOYAH0	-0.211514	0.124041	-1.7052	0.088774	0.461086	0.326566	1.411921	0.158976	-0.30936	0.095863	-3.22708	0.001384
DYNLRB1.B1AKR6	-0.248095	0.145553	-1.7045	0.088905	0.064624	0.380476	0.169851	0.865238	-0.06852	0.113123	-0.60569	0.545166
MADD.Q8WXG6	-0.387805	0.227524	-1.70445	0.088912	-0.19903	0.591549	-0.33646	0.736753	0.087991	0.175936	0.500131	0.617338
PTK2B.Q14289	-0.36836	0.216122	-1.70441	0.088921	1.013255	0.541972	1.86957	0.062486	-0.15346	0.161899	-0.94789	0.343924
ANKRD18A.Q8IVF6	0.0939454	0.055095	1.70516	0.088935	0.0662	0.151046	0.438279	0.661567	0.037317	0.043125	0.865329	0.387698
ACP6.X5D289	0.1432666	0.083976	1.706034	0.089037	-0.00146	0.21542	-0.00677	0.994605	-0.062	0.064979	-0.95423	0.341233
PRPF38A.Q8NAV1	0.2831518	0.166201	1.703675	0.089109	0.035389	0.411987	0.085899	0.931607	0.204594	0.121566	1.682993	0.093464
NDUFA13.Q9P0J0	-0.284027	0.167202	-1.69871	0.089991	1.012088	0.418762	2.416855	0.016232	-0.05944	0.125697	-0.47292	0.636603
ARHGAP26.Q9UNA1	-0.419061	0.246719	-1.69854	0.090024	0.629982	0.627055	1.004669	0.31584	0.279351	0.186166	1.500544	0.134491
CAMKV.Q8NCB2	-0.22459	0.132256	-1.69815	0.090097	-0.13721	0.30792	-0.44559	0.656207	-0.14192	0.091275	-1.55487	0.120997
IMPDH2.P12268	0.3976414	0.234232	1.697637	0.090194	-0.02697	0.590685	-0.04565	0.963617	0.258389	0.175105	1.475623	0.14106
SCRN1.Q12765	0.3731229	0.219804	1.697523	0.090215	0.598919	0.545112	1.098709	0.272748	0.224682	0.161975	1.387142	0.166395
CLDN11.O75508	0.0722855	0.042595	1.697037	0.090307	-0.05809	0.110044	-0.52792	0.597932	-0.01076	0.032745	-0.32855	0.742716
ATL3.Q6DD88	0.2704319	0.159372	1.696865	0.09034	-0.22098	0.433122	-0.51019	0.610279	0.053277	0.128865	0.413432	0.679576
GRIA1.P42261	-0.363913	0.214484	-1.69669	0.090372	0.228142	0.550556	0.414384	0.678879	-0.29535	0.162965	-1.81233	0.070903
COL4A1.P02462	0.1248792	0.073631	1.696024	0.090499	0.195921	0.181406	1.080015	0.280975	-0.03559	0.054029	-0.65872	0.510567
TCEB3.A0A024RAC6	-0.227344	0.134178	-1.69435	0.090882	-0.2207	0.360322	-0.6125	0.540708	-0.23854	0.105245	-2.26653	0.02419
IPO7.O95373	0.3743288	0.221048	1.693427	0.090992	-0.14498	0.601105	-0.24119	0.809571	0.389282	0.177463	2.193594	0.029007
ATP6V1C1.P21283	-0.435811	0.257384	-1.69323	0.091029	-0.52652	0.643286	-0.81849	0.413706	0.088597	0.191507	0.46263	0.643954
ARHGEF10L.Q9HCE6	0.2725641	0.161002	1.69292	0.091112	0.130289	0.383665	0.339592	0.734403	0.023735	0.113342	0.209412	0.83427
CDK5R1.Q15078	-0.141321	0.083458	-1.69331	0.091236	-0.33503	0.229675	-1.45873	0.145969	-0.42251	0.064303	-6.57066	3.17E-10
SAMM50.Q9Y512	-0.408242	0.241272	-1.69204	0.091257	0.067918	0.629389	0.107911	0.914136	-0.0266	0.187229	-0.14206	0.887121
RAP2B.P61225	-0.248719	0.147027	-1.69165	0.09133	-0.04516	0.359909	-0.12547	0.900234	0.038848	0.107046	0.362909	0.71692
WAPAL.Q7Z5K2	0.2789179	0.164873	1.691718	0.091558	-0.53912	0.426445	-1.26421	0.207467	0.029008	0.120707	0.240317	0.810305
RASSF2.P50749	0.2122728	0.125576	1.690391	0.091634	-0.25521	0.339064	-0.75269	0.452265	0.137414	0.09959	1.379807	0.168735
CS.O75390	-0.333906	0.197635	-1.68951	0.091741	0.586698	0.527461	1.112307	0.266868	-0.07796	0.157161	-0.49604	0.62022
SRSF6.Q13247	0.2533891	0.149989	1.689381	0.091785	-0.49799	0.391215	-1.27294	0.204019	-0.0122	0.116896	-0.10437	0.916947
DDX39A.O00148	0.1674684	0.099143	1.689168	0.091858	0.020145	0.237041	0.084986	0.932332	0.134927	0.069402	1.944148	0.052855
CLTA.P09496.3	-0.355831	0.210717	-1.68867	0.091902	-0.68388	0.528711	-1.29349	0.196804	0.22661	0.15718	1.441723	0.15039
PRMT9.Q6P2P2	-0.089456	0.052936	-1.68989	0.091908	-0.09746	0.143184	-0.68065	0.496781	0.00267	0.042567	0.062735	0.950032
GMPR.P36959	0.1439931	0.085411	1.685885	0.092457	0.159172	0.219743	0.724356	0.469408	0.065739	0.065433	1.004674	0.315858

C6orf136.Q5SQH8	-0.314774	0.186745	-1.68558	0.092495	0.082492	0.496244	0.166233	0.868082	-0.00772	0.14763	-0.05226	0.958353
CRNKL1.Q9BZJ0	0.3069865	0.182104	1.685776	0.0925	0.185099	0.438858	0.421776	0.673499	0.143435	0.131208	1.093188	0.275212
SIDT1.Q9NXL6.2	-0.178784	0.106068	-1.68556	0.092531	0.205369	0.273365	0.751265	0.453082	-0.05171	0.082459	-0.62712	0.53106
ZDHC2.Q9UIJ5	0.1875043	0.111222	1.685851	0.092545	-0.23128	0.308006	-0.7509	0.45338	0.074431	0.092761	0.802401	0.42304
LPCAT4.Q643R3	-0.299506	0.177751	-1.68498	0.092612	-0.09695	0.490539	-0.19765	0.843449	-0.01792	0.145932	-0.1228	0.902345
UGGT1.Q9NYU2	-0.598984	0.355629	-1.68429	0.092744	0.361308	0.9513	0.379805	0.70435	0.317604	0.282486	1.12432	0.261747
PARP2.G3V167	0.185139	0.10985	1.685379	0.092775	0.045633	0.262203	0.174036	0.861994	-0.05756	0.079322	-0.72566	0.468802
SETD1A.O15047	0.2346219	0.139111	1.686583	0.092883	-0.23732	0.338152	-0.7018	0.483758	-0.00239	0.107034	-0.02232	0.982221
TLE3.HOYKT5	0.2548925	0.151357	1.684047	0.092917	-0.42217	0.408855	-1.03257	0.302778	0.156639	0.121225	1.292129	0.197473
RTN4.Q9NQC3	-0.376022	0.223382	-1.68332	0.092933	0.022918	0.58357	0.039272	0.968699	-0.19301	0.173256	-1.11404	0.266127
FAIM2.F8VZI9	-0.225228	0.133936	-1.68161	0.093264	0.311826	0.332306	0.938371	0.348784	0.086759	0.098873	0.877478	0.380907
ARHGAP39.Q9C0H5	-0.507288	0.301756	-1.68112	0.093359	1.858958	0.762467	2.438082	0.015327	-0.12452	0.228876	-0.54405	0.586801
IGSF9B.Q9UPX0	-0.335194	0.199421	-1.68083	0.093415	-0.08025	0.509473	-0.15752	0.874941	0.019215	0.151562	0.12678	0.899196
RAB3C.Q96E17	-0.203975	0.12136	-1.68075	0.093431	-0.01194	0.311791	-0.03829	0.969481	-0.04578	0.092716	-0.49377	0.621818
OTUD7A.Q8TE49.2	0.4036099	0.240284	1.679719	0.093632	-0.7085	0.617344	-1.14765	0.251997	-0.15003	0.183841	-0.81609	0.415078
DHX8.F5H658	0.3010429	0.178963	1.682155	0.09367	0.373067	0.425496	0.87678	0.381829	0.04656	0.127905	0.364019	0.716291
SRCAP.A0A0C4DFX4	0.0829349	0.049347	1.680652	0.093736	0.00711	0.129555	0.05488	0.956284	0.0135	0.039579	0.341103	0.733354
TDRD3.Q9H7E2.3	0.2694528	0.16046	1.679256	0.09374	0.152819	0.37039	0.41259	0.680201	-0.16423	0.109014	-1.50652	0.132986
C8orf46.Q8TAG6	0.1978432	0.117774	1.679853	0.093777	0.01944	0.308253	0.063067	0.949766	-0.03597	0.085117	-0.42257	0.672987
EEFSEC.P57772	0.503024	0.299728	1.678271	0.093914	0.172469	0.729877	0.236299	0.813356	0.615611	0.214312	2.872503	0.004353
RCC2.Q9P258	0.274543	0.163608	1.678057	0.093956	-0.08627	0.390045	-0.22118	0.825095	0.253478	0.115144	2.201393	0.028445
CD99.A0A096LP69	0.1534646	0.091327	1.680383	0.094052	-0.6126	0.239401	-2.55888	0.011434	0.082838	0.070039	1.182745	0.238676
ZC2HC1A.Q96GY0	-0.384341	0.229241	-1.67658	0.094244	-0.32029	0.603686	-0.53056	0.596107	-0.62087	0.176173	-3.52423	0.000489
ECH1.Q13011	-0.228149	0.136288	-1.67402	0.094746	0.741666	0.339723	2.183147	0.029775	-0.11923	0.10161	-1.17341	0.241532
ELP6.Q0PNE2	0.3520927	0.210349	1.67385	0.094781	-0.05921	0.541625	-0.10932	0.913022	0.180738	0.1608	1.123992	0.261886
FOXRED1.Q96CU9	-0.145032	0.086649	-1.6738	0.094791	0.153286	0.211528	0.724662	0.469206	-0.06736	0.062863	-1.0716	0.284734
ASNSD1.L0R819	0.2814866	0.168215	1.673378	0.094894	-0.20574	0.424553	-0.48461	0.628309	0.139421	0.127384	1.094493	0.27462
BRAF.H7C560	-0.23499	0.140353	-1.67428	0.094901	-0.53758	0.397554	-1.35221	0.177649	-0.3301	0.113165	-2.91696	0.003888
STS.P08842	-0.278986	0.166621	-1.67437	0.094941	-0.05249	0.416436	-0.12606	0.899801	0.0792	0.12139	0.652441	0.514788
RBKS.Q9H477	0.2545745	0.152174	1.672918	0.094964	0.314045	0.386102	0.813375	0.416628	0.149742	0.114666	1.305896	0.192556
FXN.Q16595	0.3274645	0.195749	1.672881	0.094971	-0.65726	0.494147	-1.33009	0.184468	-0.00099	0.147419	-0.00674	0.994625
GRIA3.P42263	-0.374516	0.223964	-1.67221	0.095103	-0.28059	0.587126	-0.47791	0.633054	-0.40014	0.17324	-2.30972	0.02156
CNPY2.Q9Y2B0	0.424095	0.253637	1.672053	0.095134	-0.27453	0.641777	-0.42776	0.669122	0.474893	0.18906	2.511869	0.012517
NDUFB8.O95169	-0.202123	0.120964	-1.67094	0.095354	0.49569	0.322529	1.536884	0.125342	-0.03981	0.096285	-0.4135	0.679523

INSR.P06213	0.4579252	0.274054	1.670929	0.095356	0.146529	0.687287	0.213199	0.831312	0.311342	0.203705	1.528396	0.127434
GALE.Q14376	0.3451276	0.206639	1.670197	0.095501	-0.76206	0.534778	-1.42501	0.155161	0.302151	0.158682	1.904127	0.057819
MRPL55.Q727F7	0.114224	0.068383	1.670365	0.095519	0.179183	0.172115	1.041065	0.298721	-0.06136	0.051008	-1.20303	0.229957
DCP1B.Q8IZD4	-0.27743	0.166112	-1.67015	0.095683	-0.12153	0.464011	-0.26191	0.793614	-0.2109	0.138736	-1.52012	0.129796
AKR1A1.P14550	0.2273314	0.136209	1.668989	0.095741	0.287676	0.358273	0.802953	0.422617	-0.09338	0.106559	-0.87635	0.381517
DCUN1D1.Q96GG9	0.3989009	0.239009	1.668982	0.095742	-0.5442	0.595255	-0.91423	0.361305	0.15006	0.177112	0.847261	0.397503
MSH2.P43246	0.2541037	0.152319	1.668234	0.09589	0.22579	0.404612	0.558042	0.577218	0.269938	0.119445	2.25993	0.024519
LRFN5.Q96NI6	-0.384013	0.230244	-1.66786	0.095965	0.335791	0.540398	0.621377	0.534809	-0.14801	0.160639	-0.92139	0.357566
TNPO1.Q92973	0.3459288	0.207449	1.667538	0.096029	0.050195	0.569585	0.088125	0.929834	0.35171	0.168262	2.090247	0.03741
PARL.Q9H300	-0.256368	0.153752	-1.66742	0.096063	-0.28619	0.395511	-0.7236	0.469864	0.034381	0.118759	0.289503	0.772392
ADCY2.A0A0A0MTM9	-0.306873	0.184137	-1.66654	0.096226	0.025781	0.472414	0.054574	0.956513	-0.39054	0.138774	-2.8142	0.005203
CDH22.Q9UJ99	-0.246261	0.147737	-1.66689	0.096258	0.106778	0.392383	0.272126	0.785737	-0.32943	0.11215	-2.9374	0.003601
ZDHC8.Q9ULC8	-0.244245	0.14649	-1.66732	0.096338	-0.09354	0.359586	-0.26014	0.794983	-0.21198	0.109619	-1.93381	0.054353
YPEL5.P62699	0.282642	0.169652	1.66601	0.096375	-0.13292	0.482565	-0.27544	0.783172	0.078431	0.143135	0.547948	0.584145
OSTF1.Q92882	0.4002675	0.240315	1.665595	0.096416	0.011841	0.613204	0.019311	0.984606	0.275292	0.181746	1.514705	0.130866
PRKAR1B.P31321	-0.349131	0.209628	-1.66548	0.096439	0.202786	0.529305	0.383117	0.701895	0.021694	0.157491	0.137746	0.89053
ASPH.Q12797.7	-0.233992	0.140415	-1.66643	0.096457	-0.6858	0.356541	-1.92347	0.055645	-0.03573	0.104753	-0.34105	0.733377
AKAP8L.Q9ULX6	0.2379555	0.142902	1.665167	0.096501	0.109831	0.352261	0.311788	0.755411	0.237731	0.103935	2.287312	0.022851
SYNJ1.C9JFZ1	-0.436119	0.261937	-1.66498	0.096539	0.209162	0.625247	0.334527	0.738208	0.137954	0.185868	0.742214	0.458519
PEX14.O75381	-0.39121	0.235006	-1.66468	0.096598	-0.02029	0.584201	-0.03473	0.972318	-0.14821	0.173586	-0.85384	0.393854
RNF146.Q9NTX7	0.3445616	0.207058	1.664087	0.096734	-0.84551	0.496756	-1.70207	0.089779	-0.0889	0.147334	-0.60336	0.546726
EPB41L2.E9PHY5	0.2518392	0.151347	1.66399	0.096736	-0.00288	0.424781	-0.00679	0.994586	-0.39763	0.12433	-3.19817	0.001526
DYNLL1.P63167	-0.289621	0.174172	-1.66285	0.096965	-0.49215	0.4404	-1.11751	0.264643	-0.05486	0.131238	-0.41803	0.676214
SRSF4.Q08170	0.2977036	0.179081	1.662392	0.097056	0.06218	0.426622	0.145749	0.884215	0.009143	0.126916	0.07204	0.942617
LAMC3.Q9Y6N6	0.1711149	0.102984	1.661573	0.097251	-0.44908	0.24862	-1.80629	0.071881	0.12272	0.074568	1.645745	0.100871
AP2A1.O95782	-0.446994	0.269127	-1.6609	0.097355	0.713328	0.653717	1.091188	0.276037	-0.10047	0.194759	-0.51587	0.606311
GPS1.A8K070	0.2613996	0.157118	1.663717	0.097417	-0.42595	0.420527	-1.0129	0.31275	0.034397	0.108404	0.317308	0.751454
NT5C2.P49902	0.2835096	0.170815	1.659749	0.097587	-0.23343	0.429115	-0.54399	0.586842	0.248722	0.126931	1.959505	0.05095
TTLL1.O95922	-0.298695	0.17995	-1.65988	0.097722	0.536635	0.418879	1.281121	0.201315	-0.02511	0.131353	-0.19114	0.848569
ABHD17B.Q5VST6	0.2885101	0.173951	1.658571	0.097824	0.041072	0.455742	0.090122	0.928248	0.249795	0.134833	1.852633	0.064885
DCUN1D2.Q6PH85	0.191088	0.115247	1.658074	0.097989	0.617928	0.315594	1.957986	0.051207	0.141915	0.096578	1.469429	0.14282
SLC4A8.Q2Y0W8	-0.248486	0.149906	-1.65761	0.098018	0.26927	0.441708	0.609611	0.542566	-0.22004	0.130884	-1.68119	0.093733
DNM1L.O00429.6	-0.432638	0.261067	-1.65719	0.098103	-0.1996	0.651952	-0.30615	0.759692	0.019449	0.19397	0.100267	0.920198
WDR81.Q562E7	0.5191595	0.313414	1.656468	0.09825	0.022818	0.820149	0.027821	0.977823	0.052496	0.243962	0.215182	0.829767

PLXNA4.Q9HCM2	-0.344386	0.207927	-1.65628	0.098287	0.328061	0.500914	0.654926	0.513001	-0.08016	0.149047	-0.53784	0.591075
MID1IP1.Q9NPA3	0.2080383	0.12546	1.658198	0.098299	-0.00232	0.311524	-0.00744	0.994074	0.105561	0.093943	1.123672	0.262527
PPP1R10.Q96QC0	0.275273	0.166221	1.656063	0.098332	-0.26151	0.408532	-0.64012	0.522566	-0.05139	0.121576	-0.42268	0.67282
ZFAND2B.Q8WV99	-0.218476	0.131918	-1.65615	0.098335	-0.13832	0.326928	-0.4231	0.672527	-0.32214	0.095677	-3.36697	0.000858
HMG3.A0A087WZE9	0.1742254	0.105271	1.655024	0.098542	-0.24527	0.287278	-0.85378	0.393888	-0.20125	0.084794	-2.37341	0.018234
CA14.Q9ULX7	0.1323735	0.079987	1.654939	0.098559	0.000758	0.211066	0.003593	0.997136	0.004837	0.062788	0.07703	0.93865
GABPB1.Q06547	0.2038325	0.123049	1.656509	0.098587	0.045034	0.317539	0.141821	0.887368	0.132999	0.089172	1.49149	0.137449
CBX3.Q13185	0.281868	0.170354	1.6546	0.098628	0.043436	0.429073	0.101232	0.919432	-0.13025	0.127429	-1.02216	0.307501
GDI2.P50395	0.4017146	0.242811	1.654431	0.098663	0.016785	0.640173	0.026219	0.979099	0.236536	0.189966	1.24515	0.214017
COMMD5.Q9GZQ3	0.4062647	0.245586	1.654269	0.098716	0.313791	0.637253	0.492412	0.622792	0.413999	0.183992	2.250099	0.025174
SEC14L1.Q92503	-0.314118	0.189782	-1.65515	0.09874	-0.88672	0.495465	-1.78968	0.074844	0.124734	0.145798	0.855522	0.393168
ARHGAP23.Q9P227	0.4578002	0.276908	1.653257	0.098901	-0.41019	0.675883	-0.6069	0.544363	0.226734	0.20077	1.129322	0.259635
CPSF7.Q8N684	0.349603	0.211507	1.652918	0.09897	-0.04832	0.490973	-0.09842	0.921666	-0.03949	0.146041	-0.27043	0.787007
DDX50.Q9BQ39	0.3229009	0.195386	1.65263	0.099133	-0.28819	0.532453	-0.54124	0.588793	0.127614	0.158615	0.804553	0.421794
MTFR1L.Q9H019	-0.395709	0.23955	-1.65189	0.099181	0.474083	0.667373	0.710372	0.478008	-0.117	0.198582	-0.58915	0.556188
ATXN2.V9GY86	-0.354042	0.21458	-1.64993	0.099581	0.189943	0.545317	0.348316	0.727839	-0.76702	0.156296	-4.9075	1.49E-06
TBC1D15.Q8TC07	0.4885598	0.296176	1.649557	0.099657	1.027642	0.761622	1.349281	0.178231	0.517686	0.225323	2.297528	0.022255
RAPGEF4.Q8WZA2	-0.447249	0.271176	-1.64929	0.09971	0.462064	0.731095	0.632017	0.527842	-0.22254	0.21726	-1.0243	0.306494
RAB39A.Q14964	-0.278851	0.169141	-1.64863	0.099856	-0.50267	0.437354	-1.14935	0.251311	-0.03635	0.131531	-0.2764	0.782431
RAB19.C9JJQ5	0.1426065	0.086413	1.650283	0.100092	-0.14508	0.207863	-0.69794	0.486206	-0.13535	0.065855	-2.05527	0.041449
PTPN2.P17706	0.2334216	0.141642	1.647964	0.100159	0.124038	0.358798	0.345703	0.729871	0.177524	0.10829	1.63934	0.102464
RUFY2.Q8WXA3.4	-0.269255	0.163421	-1.64762	0.100241	-0.09515	0.432	-0.22025	0.825867	0.177077	0.125394	1.412173	0.159211
MADD.Q8WXG6.7	-0.191298	0.11606	-1.64826	0.100375	0.053785	0.288374	0.186513	0.852264	0.028404	0.083313	0.340926	0.733578
AK3.Q9UIJ7	-0.223024	0.135517	-1.64572	0.100444	0.025431	0.356067	0.071423	0.943108	-0.09025	0.105801	-0.853	0.39432
RPS18.P62269	0.3086413	0.187583	1.645361	0.100519	-0.61751	0.475012	-1.3	0.194568	-0.05889	0.141653	-0.41575	0.677879
GAS7.O60861	-0.320905	0.195044	-1.64529	0.100533	-0.00607	0.527069	-0.01152	0.990817	-0.20373	0.156366	-1.30292	0.19357
CCDC53.F5GZ97	0.3136566	0.190685	1.644898	0.100654	-1.19099	0.51877	-2.29578	0.022409	0.028239	0.151145	0.186831	0.851925
CTNND2.Q9UQB3	-0.425136	0.258515	-1.64453	0.100689	-0.49633	0.652732	-0.76038	0.447604	-0.97415	0.186316	-5.2285	3.15E-07
CTNND1.O60716.3	-0.372161	0.226304	-1.64452	0.100693	-0.20428	0.568184	-0.35953	0.719447	-0.43342	0.167258	-2.59132	0.010013
KIF5A.Q12840	-0.24941	0.151686	-1.64425	0.100748	-0.27285	0.38996	-0.69969	0.484647	-0.21245	0.115469	-1.83986	0.066745
FAM117B.Q6P1L5	0.2642523	0.160725	1.644129	0.100773	-0.27722	0.395935	-0.70017	0.484343	-0.17595	0.117452	-1.49805	0.135139
GOLGA7B.M0R0R5	-0.38178	0.232297	-1.6435	0.100903	0.093789	0.588027	0.159497	0.873381	0.278184	0.17422	1.596742	0.111342
DYM.Q7RTS9	0.2716236	0.165261	1.643605	0.10107	0.536479	0.436612	1.228732	0.220386	-0.23258	0.129578	-1.79488	0.073941
USF1.P22415	0.2354436	0.143142	1.64482	0.101083	0.43291	0.435906	0.993126	0.321989	0.312296	0.123796	2.522668	0.012518

PRMT3.O60678	0.2629467	0.160075	1.642643	0.10111	0.547654	0.459194	1.192642	0.233962	-0.03649	0.13893	-0.26266	0.792994
PTGR2.Q8N8N7	0.2357411	0.143588	1.641786	0.101258	-0.63757	0.384944	-1.65627	0.098679	0.072357	0.114946	0.629481	0.529498
RPS21.P63220	-0.37941	0.231113	-1.64166	0.101284	-0.2226	0.577669	-0.38534	0.700248	0.172248	0.171609	1.003725	0.316294
RUSC2.Q8N2Y8	0.2147911	0.130828	1.641777	0.101374	-0.53293	0.326942	-1.63004	0.104295	0.146761	0.09237	1.588842	0.113302
C17orf49.Q8IXM2	-0.230701	0.140525	-1.64171	0.101402	0.291609	0.349459	0.834458	0.404801	-0.08259	0.099384	-0.83101	0.406745
CIT.H7BYJ3	-0.269869	0.164498	-1.64056	0.101513	0.13166	0.407531	0.323068	0.746862	0.06766	0.121193	0.558286	0.577052
ADH5.P11766	0.2681762	0.163472	1.640503	0.101525	-0.60566	0.427734	-1.41598	0.157784	0.281486	0.126649	2.22257	0.026966
NTM.Q9P121.4	-0.373926	0.227951	-1.64038	0.101551	-0.0217	0.569241	-0.03812	0.969615	-0.05695	0.169309	-0.33634	0.736838
ITSN1.Q15811	-0.653434	0.398457	-1.63991	0.101648	-0.11573	1.021521	-0.11329	0.90987	-0.31329	0.303369	-1.03269	0.302553
DDX46.Q7L014	0.4181391	0.254984	1.639862	0.101658	-0.22101	0.603496	-0.36621	0.714459	0.147249	0.179373	0.820907	0.41233
MBP.H7BYR8	0.0623398	0.038016	1.639824	0.101666	-0.0822	0.100417	-0.81857	0.413661	0.040379	0.029817	1.354257	0.176641
SLC25A51.Q9H1U9	-0.239938	0.14632	-1.63981	0.101756	-0.53733	0.411629	-1.30538	0.192875	0.123201	0.118533	1.039377	0.29956
GPHN.F5H039	-0.475915	0.290309	-1.63934	0.101767	0.282365	0.758867	0.372088	0.710081	-0.89335	0.220025	-4.06024	6.21E-05
RAB14.P61106	-0.505045	0.308123	-1.6391	0.101817	-0.1326	0.784016	-0.16913	0.865801	0.16152	0.233061	0.693035	0.488806
NECAB1.Q8N987	-0.238194	0.145327	-1.63902	0.101833	-0.16578	0.340078	-0.48748	0.626262	-0.08283	0.101097	-0.81928	0.413258
CAPZB.B1AK88	-0.659603	0.402491	-1.6388	0.101878	0.015436	1.010874	0.01527	0.987826	0.696756	0.298102	2.337306	0.02006
C17orf85.Q53F19	0.0712307	0.043454	1.639228	0.101976	0.002182	0.119548	0.018251	0.985454	-0.00688	0.034354	-0.20034	0.841386
ADO.Q96SZ5	0.3764531	0.229791	1.63824	0.101996	0.395434	0.61312	0.644954	0.519434	0.105878	0.182416	0.580423	0.562051
SNAP91.O60641	-0.362638	0.22137	-1.63815	0.102014	-0.27399	0.569584	-0.48104	0.63083	-0.33852	0.16841	-2.01011	0.045285
LGALS1.P09382	0.2608101	0.159224	1.638002	0.102045	-0.28469	0.43207	-0.6589	0.510448	0.200242	0.128119	1.562931	0.119089
CAMKMT.Q7Z624	0.2323193	0.1418	1.638353	0.102073	-0.43213	0.370288	-1.16701	0.244264	-0.03852	0.107829	-0.35726	0.721185
DESI1.Q6ICB0	-0.263161	0.160573	-1.63889	0.102122	0.122378	0.415455	0.294564	0.768611	0.003221	0.122142	0.026373	0.978984
CEP152.O94986.1	0.0312016	0.019054	1.637552	0.102242	-0.01148	0.048855	-0.23494	0.814437	-0.01845	0.014203	-1.29896	0.195074
KLHL36.Q8N4N3	0.2721418	0.165986	1.639543	0.102244	-0.14668	0.413217	-0.35498	0.723021	-0.01601	0.122415	-0.13081	0.896073
CCAR2.E5RFJ3	-0.170377	0.103973	-1.63865	0.102256	-0.00641	0.271854	-0.02358	0.981215	-0.28276	0.076894	-3.67731	0.000304
BBOX1.O75936	0.1354019	0.082751	1.636251	0.102411	-0.03597	0.205274	-0.17523	0.86101	0.161518	0.060375	2.675236	0.007864
CTNNA1.P35221	0.230212	0.14075	1.635605	0.102547	0.027197	0.377063	0.072128	0.942547	-0.01857	0.112166	-0.16552	0.868642
PNMA2.Q9UL42	-0.196962	0.120448	-1.63525	0.102622	0.18681	0.318637	0.586277	0.558116	-0.12373	0.094581	-1.30816	0.191787
SDC2.P34741	0.1277339	0.078113	1.635236	0.102655	-0.01516	0.247178	-0.06135	0.951125	-0.22748	0.0727	-3.12898	0.001929
DAPK3.O43293	0.3439613	0.210382	1.634938	0.102686	-0.17363	0.532728	-0.32592	0.744703	0.526793	0.155655	3.384362	0.000805
ATP6V0A2.Q9Y487	-0.223429	0.136603	-1.63561	0.102872	0.539109	0.367166	1.468296	0.143579	0.073063	0.108578	0.672912	0.501772
TOMM22.Q9NS69	-0.271481	0.166274	-1.63274	0.103149	0.925948	0.447053	2.071226	0.039165	-0.1555	0.133616	-1.16376	0.245417
ACOX3.O15254	-0.221402	0.135656	-1.63209	0.103286	-0.27711	0.342733	-0.80852	0.419412	0.072734	0.101981	0.713216	0.476249
TRAF3.Q13114	0.3877594	0.237634	1.631751	0.103357	-0.31305	0.609613	-0.51353	0.607949	0.206714	0.181046	1.141778	0.254427

SLITRK1.Q96PX8	-0.350454	0.214858	-1.6311	0.103495	0.748341	0.560271	1.335677	0.182635	0.048276	0.167127	0.288857	0.772884
OGDHL.Q9ULD0	-0.313722	0.192346	-1.63103	0.103509	0.701716	0.4919	1.426542	0.154718	-0.0454	0.146789	-0.30928	0.757315
CABIN1.Q9Y6J0	0.2377537	0.145727	1.631497	0.103553	-0.01844	0.365669	-0.05044	0.959811	0.144616	0.112218	1.288709	0.198663
MRPS28.Q9Y2Q9	-0.235476	0.144528	-1.62927	0.103881	0.3126	0.362487	0.862375	0.389148	-0.06729	0.107895	-0.62362	0.533333
STARD3.Q14849	-0.289895	0.177792	-1.63053	0.103964	-0.03522	0.471777	-0.07466	0.940564	-0.30838	0.148091	-2.08235	0.038589
NASP.P49321	0.3899372	0.239508	1.628075	0.104134	-0.11268	0.596816	-0.18881	0.850366	0.05909	0.177521	0.332863	0.739463
PPM1J.Q5JR12	0.2477427	0.152211	1.627624	0.10423	-0.02892	0.392939	-0.07359	0.941385	0.157807	0.116549	1.353992	0.176725
FAH.P16930	0.1785148	0.109693	1.627405	0.104276	-0.24236	0.26541	-0.91314	0.361881	0.021941	0.079051	0.277553	0.781541
NACA2.Q9H009	-0.185542	0.114021	-1.62727	0.104316	-0.16503	0.319795	-0.51606	0.606186	-0.60707	0.089655	-6.77122	6.60E-11
YIPF5.Q969M3	-0.341971	0.210172	-1.62711	0.10434	-0.33875	0.526795	-0.64303	0.520678	-0.21469	0.156342	-1.3732	0.170682
TXNL1.K7ER96	0.3687058	0.226646	1.626791	0.104407	0.435434	0.620626	0.701604	0.483452	0.639897	0.181162	3.532178	0.000475
FAM185A.Q8N0U4	0.2751013	0.169117	1.626688	0.104428	-0.25655	0.438192	-0.58548	0.558652	0.176605	0.13004	1.358078	0.175426
ADSL.P30566	0.2910277	0.178979	1.626046	0.104565	-0.57884	0.449672	-1.28725	0.198967	0.193825	0.133674	1.449982	0.148074
FGFR3.P22607.2	-0.208843	0.128503	-1.6252	0.104756	-0.62962	0.339151	-1.85645	0.064353	-0.17318	0.101882	-1.69977	0.090195
LACTB2.Q53H82	0.3379328	0.208071	1.62412	0.104975	-0.27792	0.568373	-0.48897	0.62521	0.162046	0.168896	0.959446	0.338082
MAPK8IP2.Q13387	-0.283785	0.174733	-1.62411	0.105009	0.325877	0.432232	0.75394	0.451483	-0.22644	0.128881	-1.75693	0.079959
GPRASP2.Q96D09	-0.318704	0.196335	-1.62327	0.105158	0.019125	0.48863	0.03914	0.968804	-0.26182	0.144597	-1.8107	0.071155
CCDC28B.Q9BUN5	-0.174311	0.107316	-1.62428	0.105203	0.237029	0.278745	0.850345	0.396066	0.119264	0.084709	1.407937	0.160574
CNRIP1.Q96F85	-0.305172	0.188187	-1.62164	0.105506	-0.56047	0.456126	-1.22877	0.22009	0.154716	0.135735	1.139832	0.255236
CD109.Q6YHK3	0.1672961	0.103183	1.621356	0.105585	-0.29504	0.261932	-1.1264	0.260897	0.04294	0.077486	0.554164	0.57988
AK5.Q9Y6K8	-0.31127	0.192056	-1.62073	0.105701	-0.96428	0.451662	-2.13496	0.033548	0.174744	0.134981	1.29458	0.196429
ARHGDI.A.P52565	-0.326223	0.201292	-1.62064	0.105719	-0.03281	0.509211	-0.06444	0.948663	-0.109	0.151356	-0.72018	0.471956
NDUFB3.O43676	-0.219705	0.135568	-1.62063	0.105723	0.373298	0.353866	1.054914	0.292286	-0.01473	0.105454	-0.13971	0.888983
MTURN.Q8N3F0	0.2723536	0.168106	1.620129	0.10583	-0.0569	0.422301	-0.13474	0.892902	0.08174	0.125545	0.651082	0.515476
FNBP1.Q96RU3	0.3591438	0.221747	1.619607	0.105942	-0.08398	0.567449	-0.148	0.882437	0.237432	0.168273	1.410993	0.15925
VGF.O15240	-0.10629	0.065628	-1.61959	0.105947	-0.05964	0.16853	-0.35389	0.723663	-0.03143	0.050113	-0.62716	0.531019
GPHN.Q9NQX3	0.2664384	0.16452	1.619492	0.105977	-0.37772	0.449536	-0.84025	0.401433	-0.25303	0.133216	-1.89939	0.058463
RAB29.O14966	0.2323879	0.143498	1.619455	0.106039	-0.58035	0.386154	-1.50289	0.133987	0.150926	0.118381	1.274915	0.203389
HPCAL1.P37235	-0.248822	0.153696	-1.61892	0.106089	0.636729	0.406743	1.565435	0.118501	-0.1708	0.121088	-1.41054	0.159382
MARS2.Q96GW9	0.2138434	0.132112	1.618652	0.106199	-0.27059	0.360485	-0.75062	0.453502	-0.0502	0.10933	-0.45919	0.646451
ARMC8.Q8IUR7	-0.410617	0.25382	-1.61775	0.106342	-0.22873	0.668141	-0.34234	0.732327	0.066827	0.198762	0.336219	0.736933
NDUFA2.O43678	-0.26258	0.162321	-1.61766	0.106362	0.078865	0.430804	0.183065	0.854867	-0.07202	0.128098	-0.56225	0.574352
XPR1.Q9UBH6	-0.306994	0.189826	-1.61724	0.106473	-0.37506	0.449792	-0.83384	0.405032	0.247423	0.132632	1.865477	0.063087
SASH1.O94885	0.2722744	0.168465	1.616211	0.106674	-0.17485	0.443233	-0.39448	0.693498	-0.22953	0.131241	-1.74889	0.081299

CHRM4.P08173	-0.199911	0.123685	-1.6163	0.106743	-0.56073	0.306753	-1.82796	0.068659	-0.00159	0.088776	-0.0179	0.985728
FILIP1L.C9JYJ6	0.2057212	0.127175	1.617622	0.106795	0.203642	0.34035	0.598332	0.550339	-0.05425	0.099706	-0.54414	0.586989
DYRK1B.Q9Y463	0.1952101	0.120742	1.616748	0.10686	-0.47379	0.350197	-1.35291	0.177574	0.120741	0.111879	1.079209	0.281763
SEPT3.B1AHR1	-0.150915	0.093354	-1.61659	0.107113	0.276159	0.241551	1.143276	0.254531	0.047253	0.074577	0.633607	0.527189
SAMD4A.Q9UPU9	0.1525132	0.094436	1.614987	0.107131	-0.03931	0.238705	-0.1647	0.869322	-0.01578	0.071116	-0.22185	0.824626
C1orf27.Q5SWX8	0.295853	0.183293	1.614099	0.107132	-0.72047	0.432338	-1.66646	0.096633	0.162733	0.128857	1.262898	0.207575
CENPV.Q7Z7K6.3	0.2694634	0.166951	1.614025	0.107148	-0.46498	0.418339	-1.11149	0.267219	-0.10464	0.124555	-0.84013	0.401481
MCM3AP.O60318	-0.337574	0.209108	-1.61435	0.10719	0.044651	0.564313	0.079124	0.936995	-0.55251	0.159352	-3.46725	0.000614
RAF1.P04049	0.2387593	0.147986	1.613386	0.107306	-0.6236	0.37794	-1.65001	0.099981	0.124683	0.113319	1.100285	0.272084
GLS.O94925.3	-0.185731	0.115028	-1.61465	0.107416	0.495671	0.291044	1.703079	0.090163	0.098124	0.09027	1.08701	0.278388
WDR47.O94967	-0.49422	0.306495	-1.61249	0.107482	0.503	0.763104	0.65915	0.510289	-0.06371	0.22714	-0.28051	0.779274
CAP2.P40123	-0.297908	0.184767	-1.61235	0.107512	0.253069	0.474028	0.533869	0.593815	0.001243	0.14108	0.008812	0.992974
CC2D1B.Q5T0F9.2	0.3429627	0.212804	1.611634	0.107668	-0.73988	0.583771	-1.26742	0.205957	0.005105	0.174111	0.029323	0.976626
C6orf106.Q9H6K1	-0.369382	0.228918	-1.6136	0.107699	-0.53774	0.586305	-0.91716	0.360215	0.100337	0.185817	0.539977	0.589842
RPS8.P62241	-0.395198	0.245337	-1.61084	0.10784	-0.423	0.615735	-0.68699	0.492602	-0.02232	0.183305	-0.12178	0.903154
NETO2.Q8NC67	-0.214904	0.13342	-1.61073	0.107864	0.090865	0.315943	0.2876	0.773845	0.062661	0.093933	0.667087	0.505213
VDAC1.P21796	-0.322461	0.200296	-1.60992	0.108041	0.204759	0.51903	0.394502	0.693481	-0.01436	0.154439	-0.09297	0.925984
ANKRD44.Q8N8A2	0.4696378	0.291773	1.609601	0.108111	0.793246	0.723796	1.095952	0.27395	0.24088	0.215299	1.118815	0.264085
GSR.P00390	0.4077025	0.253308	1.609513	0.10813	0.405244	0.619433	0.654217	0.513457	-0.07512	0.184348	-0.40747	0.683941
TMOD2.G5EA42	-0.584813	0.363603	-1.60838	0.108378	-0.25966	0.96452	-0.26921	0.787949	0.060765	0.28694	0.21177	0.832426
COPB2.P35606	0.6647421	0.413333	1.608248	0.108407	-0.55315	1.086447	-0.50914	0.611016	1.015836	0.318145	3.193001	0.001553
HMG1.P05114	0.1740958	0.108254	1.608216	0.108414	-0.14331	0.253537	-0.56524	0.572318	-0.16726	0.074861	-2.23428	0.026177
PKNOX1.P55347	0.2060705	0.128009	1.609814	0.108652	-0.05436	0.323774	-0.16791	0.866864	-0.02349	0.097423	-0.24108	0.809799
SAFB2.Q14151	0.2649247	0.164905	1.606531	0.108783	0.561592	0.402426	1.395518	0.163858	-0.12641	0.119875	-1.05449	0.292479
YTHDF3.Q7Z739	-0.347039	0.216066	-1.60617	0.108863	-1.00848	0.585436	-1.72261	0.085956	-0.57221	0.171944	-3.32792	0.00098
FRYL.O94915	0.3414595	0.212605	1.606077	0.108883	0.028102	0.534113	0.052615	0.958073	0.316612	0.157869	2.005535	0.045775
TUBB6.K7ES63	-0.151919	0.094621	-1.60556	0.109064	-0.31503	0.217024	-1.45159	0.147732	0.023941	0.061997	0.386168	0.699665
TRPM3.Q9HCF6	0.1846755	0.115099	1.60449	0.109243	-0.03228	0.283805	-0.11374	0.909516	0.087948	0.084736	1.03791	0.300131
SIGMAR1.Q99720	-0.138729	0.086401	-1.60565	0.109386	0.168924	0.226851	0.744645	0.457378	-0.01323	0.072321	-0.18292	0.855054
SET.Q01105.2	0.3127275	0.195158	1.602429	0.109687	-0.12126	0.44923	-0.26992	0.787402	-0.01311	0.133652	-0.09808	0.92193
C4B.P0C0L5	0.0629358	0.039292	1.601767	0.109844	0.144601	0.101612	1.423071	0.155744	0.030138	0.030313	0.994228	0.320905
GHDC.Q8N2G8	0.3791463	0.236803	1.601102	0.109981	-0.84275	0.645711	-1.30515	0.19281	0.301378	0.191853	1.570883	0.11723
CNOT1.A5YKK6	0.6871931	0.429516	1.599926	0.110242	-0.88068	1.00032	-0.88039	0.379328	0.904833	0.293484	3.083075	0.002233
SUCO.Q9UBS9	-0.227658	0.142272	-1.60016	0.11025	0.433668	0.411005	1.055142	0.292264	-0.02884	0.124327	-0.23194	0.816754

LIMK1.E9PC47	-0.353581	0.22101	-1.59984	0.110261	0.553552	0.563349	0.982609	0.326566	0.00445	0.167847	0.026513	0.978866
FDPS.P14324	0.2655981	0.166082	1.599203	0.110402	-1.09301	0.420727	-2.5979	0.009827	0.266107	0.125608	2.118553	0.034923
KIAA1161.Q6NSJO	0.16211	0.101337	1.599718	0.110413	-0.34546	0.283515	-1.21848	0.22416	-0.08054	0.084604	-0.95191	0.342036
PRPH.P41219	0.0470291	0.029432	1.597904	0.110691	-0.0768	0.074118	-1.03613	0.300947	-0.02092	0.022055	-0.94842	0.343657
TSNAX.Q99598	0.2781236	0.174103	1.597462	0.110789	0.31137	0.464285	0.670644	0.502947	-0.21537	0.137674	-1.56435	0.118756
DDX19B.Q9UMR2	0.2306224	0.144316	1.598037	0.110803	0.260225	0.437627	0.594629	0.552621	-0.32965	0.128857	-2.55829	0.0111
CAPN1.P07384	0.4526506	0.283629	1.595927	0.111132	-0.19515	0.763877	-0.25547	0.798529	0.438422	0.225895	1.94082	0.053186
MRPL22.Q9NWU5	-0.258672	0.162131	-1.59545	0.111237	0.420713	0.397995	1.057081	0.291298	-0.04094	0.118587	-0.34527	0.730129
CD58.P19256	0.2692322	0.168728	1.595656	0.111268	-0.58742	0.437448	-1.34283	0.180418	0.271436	0.129329	2.098793	0.036734
GPT.P24298	0.1460968	0.091601	1.594931	0.111355	0.207666	0.240422	0.863758	0.388389	0.078137	0.07147	1.093288	0.275116
PLEC.Q15149.8	0.1107231	0.069475	1.593721	0.111646	-0.01185	0.181643	-0.06522	0.948043	-0.00525	0.054131	-0.09705	0.922747
CACNB2.Q08289	-0.456052	0.286199	-1.59348	0.11168	0.020389	0.737325	0.027653	0.977957	-0.11202	0.219249	-0.51094	0.609759
ATP1A1.P05023	-0.38835	0.243758	-1.59318	0.111747	0.555824	0.637413	0.871999	0.383884	0.10559	0.189757	0.556447	0.578307
PPFIBP2.Q8ND30	0.22175	0.139121	1.593938	0.111766	-0.20896	0.402705	-0.5189	0.604314	0.137723	0.117917	1.167963	0.24399
ATP1B1.P05026	-0.323922	0.20335	-1.59293	0.111803	0.253213	0.515048	0.491629	0.623329	-0.04232	0.153259	-0.27616	0.78261
SUGP1.Q8IWZ8	0.2994505	0.188032	1.592553	0.111987	-0.93213	0.515859	-1.80695	0.071904	-0.07528	0.151044	-0.49841	0.618608
JOSD2.Q8TAC2	0.1946356	0.122283	1.591683	0.112187	0.031459	0.310586	0.101289	0.919397	0.008838	0.09204	0.096022	0.923575
GRB10.Q13322	-0.249492	0.15679	-1.59125	0.112201	0.48261	0.418024	1.154503	0.249222	0.112638	0.121767	0.925029	0.355702
HRAS.P01112	-0.321215	0.201908	-1.5909	0.11226	0.291468	0.506041	0.575978	0.565048	0.021999	0.150614	0.146063	0.883967
TMC7.Q7Z402	0.1926734	0.120996	1.592392	0.112445	-0.20769	0.364592	-0.56964	0.569665	0.05759	0.106642	0.540032	0.589873
SPINT2.O43291	-0.247431	0.155692	-1.58923	0.112689	-0.72118	0.42834	-1.68366	0.093346	0.139841	0.125575	1.113603	0.266391
WDTC1.Q8N5D0	-0.367749	0.231396	-1.58926	0.112704	0.083635	0.65748	0.127205	0.898871	-0.069	0.191932	-0.35952	0.719486
CCDC27.Q2M243	0.0309283	0.019458	1.589505	0.112715	-0.04821	0.05176	-0.93135	0.352562	-0.00699	0.014917	-0.46879	0.639625
ATP6V1G1.O75348	-0.233997	0.147282	-1.58877	0.11274	0.270852	0.386943	0.699979	0.484466	0.188289	0.114702	1.641546	0.101698
LSP1.P33241	0.1185771	0.074604	1.589411	0.112819	-0.16662	0.187878	-0.88684	0.376101	0.079885	0.053324	1.498119	0.135486
PTTG1IP.P53801	0.1774929	0.111724	1.588668	0.112893	-0.14109	0.305959	-0.46113	0.645094	-0.09013	0.08817	-1.02225	0.30762
RFX5.F8W689	-0.254421	0.160065	-1.58949	0.112929	0.153298	0.450423	0.340344	0.733957	0.027567	0.133299	0.206803	0.836375
MFSD11.O43934	0.2500679	0.157562	1.587112	0.113214	-0.95391	0.391545	-2.43627	0.015489	0.013695	0.115859	0.118201	0.905996
IFI35.P80217	-0.192424	0.121174	-1.58799	0.113295	0.048939	0.327125	0.149605	0.881232	0.063828	0.100706	0.63381	0.526951
SMPD1.P17405	0.2234138	0.140825	1.586464	0.113362	0.537412	0.375439	1.431424	0.153478	-0.05712	0.11158	-0.51193	0.609122
FAM98B.Q52LJ0.2	0.3647951	0.230009	1.586006	0.113365	-0.26759	0.560399	-0.47751	0.633338	-0.08921	0.166693	-0.5352	0.592898
CAMLG.P49069	-0.253463	0.159815	-1.58598	0.113371	-0.1946	0.388214	-0.50126	0.616542	-0.22197	0.114844	-1.93279	0.054173
CERS4.H0YKC9	0.232226	0.146452	1.585678	0.113515	-0.49432	0.400004	-1.2358	0.217596	0.13688	0.115948	1.180524	0.238819
LRSAM1.Q6UWE0	-0.451121	0.284629	-1.58494	0.113606	0.630363	0.719092	0.876609	0.381378	0.17712	0.213946	0.827876	0.408378

KAZN.Q674X7.3	0.2413372	0.152092	1.586789	0.113643	0.520181	0.403782	1.288272	0.199314	-0.07652	0.114875	-0.66616	0.506167
SF3A3.Q12874	0.3499949	0.220907	1.584356	0.11374	-0.4249	0.518844	-0.81894	0.41345	-0.13927	0.154311	-0.90252	0.367479
SYTL2.Q9HCH5.8	-0.321188	0.202988	-1.5823	0.114208	-0.47843	0.512434	-0.93365	0.351211	0.140913	0.152444	0.92436	0.356018
REEP5.Q00765	-0.261027	0.164991	-1.58207	0.114262	-0.03733	0.416101	-0.08971	0.928577	-0.21501	0.123181	-1.74551	0.081888
COX5A.P20674	-0.233157	0.147441	-1.58135	0.114425	0.466749	0.393375	1.186524	0.236324	0.060493	0.117237	0.51599	0.606229
RAPGEF5.E9PGY3	0.273706	0.173059	1.581573	0.114616	0.234591	0.448816	0.522689	0.601703	0.161125	0.132555	1.215526	0.225434
ENO1.P06733	0.3146507	0.199151	1.579958	0.114744	-0.69649	0.502321	-1.38654	0.166579	0.289856	0.148987	1.945504	0.052618
SYCE1.A0A0B4J1R9	0.2447092	0.154717	1.581658	0.114841	-0.52843	0.418704	-1.26207	0.208614	-0.12119	0.131454	-0.92188	0.357866
PCID2.Q5JVF3	0.2443795	0.154727	1.579423	0.114895	0.107681	0.383338	0.280905	0.778981	0.046511	0.113767	0.408827	0.682964
MAGI2.Q86UL8	-0.635881	0.402861	-1.57841	0.115098	-0.59749	0.990611	-0.60316	0.546845	-0.78421	0.291479	-2.69045	0.007522
FAM188A.Q9H8M7	-0.24309	0.154017	-1.57833	0.115137	0.117649	0.418039	0.281432	0.778575	0.169238	0.121293	1.395288	0.163971
SAR1B.Q9Y6B6	0.3238294	0.205274	1.577549	0.115297	0.31136	0.521816	0.596685	0.551153	0.445831	0.153242	2.909321	0.003884
ALDH2.P05091	-0.254895	0.16161	-1.57722	0.115372	0.196546	0.402062	0.488846	0.625296	-0.00074	0.119652	-0.00618	0.995072
PPME1.Q9Y570	-0.358777	0.227698	-1.57567	0.11573	0.475551	0.596107	0.797761	0.42562	0.224138	0.177056	1.265912	0.206495
GNA13.Q14344	0.2857923	0.181419	1.575312	0.115812	-0.30639	0.480418	-0.63776	0.524101	0.244724	0.142333	1.719383	0.086543
U2AF2.P26368	0.3404708	0.216265	1.574321	0.116041	-0.35898	0.48831	-0.73516	0.4628	-0.02931	0.145381	-0.20157	0.840381
SIRT2.Q8IXJ6	0.0952769	0.060531	1.574007	0.116113	0.00929	0.16325	0.056904	0.954659	0.044292	0.048499	0.913256	0.361818
CDC40.O60508	0.3108838	0.197405	1.574856	0.116124	0.035476	0.491744	0.072142	0.942552	-0.08075	0.148755	-0.54285	0.587761
ARFGAP1.Q8N6T3	-0.398361	0.253131	-1.57374	0.116176	1.119985	0.627507	1.784818	0.075269	-0.39801	0.186262	-2.13682	0.033395
HMBS.P08397	0.2585139	0.164289	1.573535	0.116223	0.376972	0.418774	0.90018	0.368723	0.002551	0.12474	0.02045	0.983697
HDGFRP2.Q7Z4V5.2	0.2970995	0.188841	1.573277	0.116282	-0.1656	0.441106	-0.37542	0.707606	-0.23438	0.130574	-1.79498	0.073631
EDIL3.O43854	0.138651	0.088153	1.572853	0.11638	-0.24143	0.226152	-1.06754	0.28656	0.004371	0.067399	0.064857	0.948329
GPM6A.P51674	-0.265274	0.168664	-1.57279	0.116395	-0.11725	0.437997	-0.2677	0.789112	-0.22201	0.1297	-1.7117	0.087952
TSPAN14.Q8NG11	0.2572277	0.163533	1.572939	0.116427	-0.47526	0.428871	-1.10816	0.268743	0.024079	0.124707	0.193082	0.847035
MEGF9.Q9H1U4	0.2999636	0.19075	1.572549	0.116451	0.458355	0.492982	0.929758	0.35322	0.431403	0.1448	2.97931	0.003117
C20orf194.Q5TEA3	0.1084101	0.068936	1.572622	0.116485	-0.01994	0.171027	-0.1166	0.907257	-0.04165	0.051008	-0.8165	0.414892
RAB21.Q9UL25	0.3147663	0.200212	1.572165	0.11654	0.141615	0.537232	0.263601	0.792262	0.186166	0.159485	1.167295	0.243988
BROX.Q5VW32	0.2774856	0.176529	1.571902	0.116601	-0.45626	0.446124	-1.02271	0.307242	0.112642	0.132784	0.848312	0.396919
ACTN4.O43707	-0.339773	0.21616	-1.57186	0.116611	-0.07339	0.547911	-0.13394	0.893535	0.072974	0.162946	0.447841	0.654581
OTUD4.Q01804	0.2996439	0.190557	1.572463	0.116615	0.101694	0.527469	0.192796	0.847275	0.097973	0.151108	0.648363	0.517343
LPHN3.E7EVD6	-0.471548	0.30037	-1.56989	0.117068	-0.20146	0.74768	-0.26945	0.787764	0.265653	0.221935	1.196981	0.232228
KRT1.P04264	0.0526505	0.033569	1.568414	0.117412	-0.18003	0.085799	-2.09825	0.036692	0.057239	0.025498	2.244857	0.025482
TBC1D22B.Q9NU19	-0.389151	0.248144	-1.56825	0.117469	0.346223	0.658517	0.525762	0.599442	-0.11044	0.194478	-0.56789	0.570533
NEDD1.Q8NHV4	0.0616983	0.039292	1.570269	0.117564	-0.04114	0.110802	-0.37125	0.710981	0.02305	0.031761	0.725735	0.469139

FGF1.P05230	0.1254799	0.080064	1.567254	0.117683	-0.40367	0.206519	-1.95462	0.051527	0.050013	0.061748	0.809953	0.418589
BECN1.Q14457	-0.441995	0.282104	-1.56678	0.117794	0.279836	0.695844	0.402153	0.687848	0.178067	0.206808	0.861026	0.389889
SF3A2.Q15428	0.2045722	0.130572	1.566744	0.117802	-0.10139	0.33312	-0.30438	0.761044	-0.18542	0.098551	-1.88141	0.060852
RPN1.P04843	0.4356495	0.278179	1.566073	0.117959	-1.06768	0.709006	-1.50588	0.133115	0.632564	0.208616	3.032195	0.002633
CTSH.P09668	-0.11371	0.072607	-1.56611	0.117971	-0.15829	0.19023	-0.83208	0.406035	0.052688	0.055348	0.951935	0.341904
PDRG1.Q9NUG6	0.2339481	0.149327	1.566679	0.117975	-0.37751	0.415462	-0.90865	0.36445	0.013524	0.121644	0.111181	0.911567
BPTF.Q12830	0.2233702	0.142624	1.566148	0.118099	-0.2382	0.393223	-0.60577	0.545219	0.013464	0.115369	0.116707	0.907186
PEAK1.Q9H792	-0.257889	0.164748	-1.56536	0.118127	-0.46026	0.423223	-1.0875	0.277661	-0.02201	0.126135	-0.17452	0.861569
JPH1.Q9HDC5	-0.342623	0.21894	-1.56492	0.118229	-0.36618	0.566589	-0.6463	0.518566	-0.57411	0.165482	-3.46931	0.000596
UBA52.M0R2S1	-0.1534	0.09805	-1.56451	0.118389	0.201855	0.280487	0.719659	0.472331	0.094499	0.084032	1.124549	0.261736
BMPR2.Q13873	-0.346639	0.2217	-1.56355	0.118551	-0.17953	0.554447	-0.32379	0.746313	0.205019	0.164555	1.2459	0.213742
SLC38A1.Q9H2H9	0.2000618	0.12803	1.562621	0.118769	-0.2101	0.322986	-0.6505	0.515853	0.301186	0.094614	3.18331	0.001604
TXNRD1.Q16881	0.3983053	0.255133	1.561169	0.119112	-0.10099	0.662994	-0.15233	0.879027	0.269778	0.19664	1.371935	0.171076
ADIPOR1.Q96A54	-0.186897	0.11963	-1.56229	0.119175	0.070639	0.322461	0.219063	0.826819	-0.00749	0.093825	-0.07978	0.936492
RAN.P62826	0.4336647	0.27788	1.560616	0.119242	-0.79309	0.682403	-1.16221	0.246045	0.364508	0.202388	1.801032	0.07267
NGLY1.Q96IV0	0.3742566	0.239815	1.560604	0.119245	-0.20771	0.6366	-0.32628	0.744434	0.656549	0.185703	3.535482	0.000469
PSD3.E5RJ29	-0.243557	0.156118	-1.56008	0.119368	-0.01524	0.390572	-0.03901	0.968906	-0.11914	0.115991	-1.02714	0.305157
CSNK2B.P67870	-0.355935	0.228221	-1.55961	0.11948	0.335585	0.600525	0.558819	0.576688	0.175461	0.178457	0.983208	0.326272
DYNC1H1.Q14204	0.4899474	0.31427	1.559	0.119624	-0.43882	0.822079	-0.53379	0.593871	0.733619	0.241092	3.042898	0.002544
GRIA4.G3V164	-0.143243	0.091899	-1.5587	0.11976	0.106193	0.254363	0.417487	0.676639	-0.10839	0.076426	-1.4182	0.157233
TXNRD3.Q86VQ6	0.1695791	0.108797	1.55868	0.119845	-0.11022	0.311494	-0.35386	0.723744	0.040908	0.091301	0.448056	0.654503
MGST2.Q99735	0.2055424	0.131921	1.558075	0.119864	0.542983	0.320805	1.692563	0.091567	0.147567	0.096113	1.535348	0.125742
DARS.P14868	0.5755587	0.36954	1.557501	0.119979	-2.31028	0.928553	-2.48804	0.01337	0.279475	0.278521	1.003427	0.316438
GFAP.P14136.3	0.097778	0.062798	1.557013	0.120114	-0.33557	0.162002	-2.07141	0.039181	0.024021	0.048312	0.497216	0.619403
GMPPA.Q96IJ6	0.2958918	0.190083	1.556643	0.120183	0.052939	0.487856	0.108513	0.913659	0.384474	0.143479	2.679648	0.007764
CAMK2A.Q9UQM7	-0.216017	0.138797	-1.55635	0.120253	0.068437	0.320791	0.213337	0.831204	0.060288	0.095375	0.632118	0.527776
SCRIB.Q14160.3	0.3772282	0.242446	1.555926	0.120353	-0.91952	0.648245	-1.41848	0.157055	-0.14803	0.193284	-0.76587	0.444338
COG4.J3KNI1	0.4329327	0.278398	1.555088	0.120553	0.493056	0.705831	0.698547	0.485359	0.312745	0.209385	1.493635	0.136288
PHLPP1.O60346	0.2103976	0.135377	1.554159	0.120792	-0.44178	0.362195	-1.21973	0.223525	-0.02211	0.107232	-0.20615	0.836817
OXSRI.O95747	0.3791823	0.24432	1.551989	0.121293	0.771595	0.621598	1.241308	0.215431	-0.23458	0.184894	-1.26873	0.205488
HNRNPA2B1.P22626	0.2888341	0.186193	1.551265	0.121466	0.007934	0.431623	0.018383	0.985346	-0.09047	0.128297	-0.70512	0.481262
UNC5C.O95185	0.1295891	0.083552	1.551002	0.121547	-0.10014	0.21372	-0.46858	0.639713	-0.00407	0.063145	-0.06439	0.948705
DIP2C.F6XJ20	0.1928202	0.124311	1.551111	0.121634	-0.7833	0.347192	-2.2561	0.024877	0.027292	0.108178	0.252292	0.80101
RSL1D1.O76021	0.3288892	0.21213	1.550411	0.121671	-0.67239	0.542909	-1.2385	0.216469	-0.11503	0.161773	-0.71107	0.477578

SEC24B.O95487	-0.536317	0.346102	-1.54959	0.121867	-0.82163	0.941403	-0.87277	0.383462	-0.00705	0.280394	-0.02516	0.979947
MPHOSPH8.Q99549	-0.197082	0.12718	-1.54963	0.122065	-0.82687	0.412475	-2.00464	0.046173	-0.26949	0.114273	-2.35834	0.019195
CHKB.Q9Y259	0.2947454	0.19031	1.548763	0.122066	-1.12389	0.494853	-2.27115	0.023823	0.140079	0.148216	0.945101	0.345343
WHSC1L1.Q9BZ95	-0.242442	0.156498	-1.54917	0.122097	0.12824	0.429818	0.29836	0.765665	-0.09633	0.128612	-0.74903	0.454509
RMDN2.Q96LZ7	0.3217426	0.207783	1.548451	0.122141	0.373665	0.56604	0.660138	0.509655	0.139487	0.168319	0.828709	0.407907
HGS.O14964	-0.644846	0.416664	-1.54764	0.122336	-0.11639	1.039063	-0.11202	0.910883	-0.42594	0.308161	-1.38219	0.167909
NUP210.Q8TEM1	0.338607	0.218847	1.547234	0.122435	0.096043	0.528032	0.181888	0.85579	0.371587	0.155664	2.387104	0.017581
COMMD9.Q9P000	0.286662	0.185296	1.547046	0.12248	0.032448	0.438578	0.073984	0.941071	0.037453	0.130453	0.287098	0.774229
CKAP5.Q14008	0.5826965	0.376955	1.545797	0.122781	0.744997	0.976745	0.762734	0.446202	0.421537	0.28985	1.454329	0.146867
RAI1.Q7Z5J4	-0.093276	0.060305	-1.54675	0.122783	-0.15398	0.183927	-0.83721	0.403363	-0.00234	0.054782	-0.04273	0.965953
PPP6C.O00743	0.4101677	0.265387	1.545544	0.122842	-0.59376	0.706098	-0.8409	0.401051	0.151316	0.210115	0.720157	0.471971
SLC38A2.Q96QD8	0.0827456	0.053542	1.545438	0.122868	0.220159	0.128737	1.71015	0.088239	0.115712	0.037912	3.052146	0.002469
CADM2.Q8N3J6	-0.344835	0.223253	-1.5446	0.123072	0.116979	0.541554	0.216006	0.829125	0.085872	0.161041	0.533231	0.594256
ARL6.Q9H0F7.2	0.3635749	0.235424	1.54434	0.123134	0.790633	0.597687	1.322821	0.18687	0.256745	0.177705	1.444784	0.149529
MYD88.A0A0A0MS70	0.2256051	0.145994	1.545309	0.123143	0.577748	0.401391	1.439363	0.151469	0.249545	0.117443	2.124816	0.034718
CTNND2.E9PHB5	-0.111385	0.072044	-1.54607	0.1232	0.167321	0.196458	0.851691	0.395591	-0.06634	0.057367	-1.15634	0.249176
NSMF.Q6X4W1	-0.290847	0.188378	-1.54396	0.123226	-0.26461	0.478862	-0.55258	0.580948	-0.28102	0.141627	-1.98427	0.048108
NDUFV3.P56181	-0.229426	0.148605	-1.54387	0.123248	0.220313	0.387758	0.568171	0.57033	-0.04793	0.115379	-0.41541	0.678128
PSMD3.O43242	0.6017961	0.3898	1.543857	0.123251	-1.03627	0.969286	-1.06911	0.285851	0.262133	0.288493	0.908629	0.364252
MAN2A2.P49641	0.240454	0.155768	1.54367	0.123296	-0.12569	0.389828	-0.32243	0.747341	0.145139	0.115693	1.254516	0.2106
SFN.P31947	0.0663267	0.042969	1.543589	0.12343	0.057611	0.105623	0.545438	0.58591	0.043241	0.030467	1.419271	0.156991
HERC4.Q5GLZ8	-0.31654	0.205207	-1.54254	0.12357	0.216127	0.50094	0.431443	0.666446	-0.15559	0.148803	-1.04559	0.296566
NHP2L1.P55769	0.3316573	0.215206	1.541118	0.123916	-0.1624	0.524154	-0.30982	0.756903	-0.07727	0.155889	-0.49568	0.620469
NLGN4X.Q8N0W4	-0.360924	0.2342	-1.54109	0.123922	-0.12404	0.588008	-0.21095	0.833062	0.180461	0.174634	1.033367	0.302237
ACIN1.E7EQT4	0.2930239	0.190146	1.541045	0.123933	-0.12584	0.458519	-0.27444	0.78393	-0.39004	0.134607	-2.89762	0.004028
SGSH.P51688	0.1580762	0.102548	1.541488	0.123953	-0.10935	0.250388	-0.43672	0.662677	0.060646	0.075172	0.806756	0.420545
SNRPA1.P09661	0.3017319	0.195815	1.540905	0.123967	-0.2691	0.468142	-0.57484	0.565819	-0.2892	0.138367	-2.09012	0.037421
DCLK1.O15075.2	-0.279071	0.180966	-1.54211	0.124002	-0.53443	0.489577	-1.09162	0.276268	-0.00696	0.15319	-0.04545	0.963789
S100A16.Q96FQ6	0.2875458	0.186681	1.540305	0.124114	-0.32076	0.499761	-0.64183	0.521457	-0.21499	0.148267	-1.45001	0.148067
AKAP10.O43572	-0.482113	0.313322	-1.53872	0.124501	1.036997	0.774878	1.338272	0.181789	0.032824	0.23117	0.141992	0.887178
USP47.Q96K76.4	0.4811416	0.312762	1.538362	0.124588	0.361992	0.79309	0.456433	0.648398	0.206685	0.235717	0.876833	0.381256
GPRIN1.Q7Z2K8	-0.262448	0.170657	-1.53787	0.124707	-0.1395	0.446656	-0.31232	0.755011	-0.45059	0.130406	-3.45532	0.000626
IGHMBP2.P38935	0.1506134	0.097946	1.537726	0.124764	-0.04116	0.228129	-0.18043	0.856936	0.102927	0.06773	1.519665	0.129641
KANK1.Q14678	0.2568793	0.167074	1.537522	0.124814	-0.70191	0.422227	-1.66241	0.097472	0.039804	0.125629	0.316837	0.751587

HNRNPL.Q8WVV9	0.3909752	0.254322	1.537322	0.124842	-0.23152	0.589136	-0.39299	0.694599	0.220004	0.174855	1.258206	0.209264
ATP1A3.P13637.3	-0.391403	0.254627	-1.53716	0.124881	0.1806	0.691039	0.261345	0.794	0.010095	0.205594	0.0491	0.960871
METTL7A.H0YI09	0.2143418	0.139469	1.536845	0.124959	-0.63321	0.380078	-1.666	0.096723	0.156856	0.113222	1.385386	0.16693
FZD1.Q9UP38	0.2012317	0.130844	1.537949	0.12497	-0.16157	0.324601	-0.49774	0.61918	0.045426	0.09705	0.468063	0.640216
SLC25A24.Q6NUK1	-0.235685	0.153392	-1.53648	0.125047	-0.10882	0.400303	-0.27184	0.785926	-0.03984	0.119076	-0.33457	0.738174
SH3GLB2.B7ZC39	-0.227594	0.148182	-1.53591	0.125188	0.309104	0.36887	0.837975	0.40269	-0.06611	0.109792	-0.60214	0.547524
RNF13.O43567	0.1660099	0.107935	1.538061	0.125259	0.23704	0.242122	0.97901	0.328983	-0.02061	0.080107	-0.25725	0.7973
UBE2M.P61081	0.4958447	0.322968	1.535273	0.125344	-0.33028	0.899626	-0.36713	0.71377	0.289117	0.267177	1.082119	0.280041
PLAUR.Q03405	0.1564049	0.101817	1.536138	0.125416	0.077875	0.254166	0.306396	0.7596	0.131548	0.077071	1.706836	0.089296
TLE4.Q04727	0.1477415	0.096197	1.535827	0.125431	-0.20855	0.282475	-0.73829	0.461076	0.100039	0.084862	1.178842	0.239653
PLEKHG5.O94827	-0.201749	0.131501	-1.53421	0.125648	0.287394	0.353417	0.813188	0.416775	-0.04969	0.106496	-0.46661	0.641131
CNKS3R3.G9CGD6	-0.235258	0.153394	-1.53369	0.125735	-0.4543	0.391224	-1.16123	0.246441	0.03332	0.11662	0.285719	0.775284
IKBKG.Q9Y6K9	-0.482742	0.314856	-1.53321	0.125851	0.848873	0.768622	1.104409	0.270272	0.117153	0.229004	0.511575	0.609313
SH2D5.Q6ZV89	-0.308891	0.201471	-1.53318	0.12586	-0.22376	0.500405	-0.44717	0.655068	-0.49287	0.146255	-3.36992	0.000847
SART1.O43290	0.3333281	0.217416	1.533133	0.125871	-0.21543	0.526894	-0.40887	0.682916	-0.38421	0.155258	-2.47465	0.013871
HSBP1.O75506	-0.175553	0.114531	-1.53279	0.125955	0.440882	0.290106	1.519728	0.129599	0.015175	0.086618	0.1752	0.861037
GOLGA5.Q8TBA6	0.2082473	0.135997	1.531262	0.126332	-0.25149	0.407567	-0.61705	0.537654	0.373276	0.119452	3.124911	0.001947
CTR9.Q6PD62	0.2208751	0.14427	1.53098	0.12642	-0.53295	0.371762	-1.43357	0.152737	0.265965	0.1091	2.437801	0.015357
GSK3B.P49841.2	-0.375952	0.245689	-1.53019	0.126597	-0.02829	0.631039	-0.04483	0.964269	-0.18609	0.187426	-0.99288	0.321544
STIM1.G0XQ39	-0.417928	0.27313	-1.53014	0.126609	0.818249	0.709584	1.15314	0.249741	-0.83083	0.206211	-4.02906	7.05E-05
CRELD1.Q96HD1	-0.233574	0.152757	-1.52906	0.126877	0.21829	0.395984	0.55126	0.581852	0.082276	0.117763	0.698655	0.485292
PSMC6.A0A087X2I1	0.578277	0.378231	1.528901	0.126916	0.31485	0.964916	0.326298	0.744419	0.299162	0.286592	1.043862	0.297362
RNF144A.P50876	-0.063444	0.041475	-1.5297	0.127	0.038841	0.11253	0.345158	0.730318	0.002178	0.032695	0.066625	0.946943
GNAL.P38405.2	-0.176117	0.115272	-1.52784	0.127198	0.07049	0.307318	0.229371	0.818736	-0.17252	0.091169	-1.89235	0.059404
RFTN2.Q52LD8	0.2718686	0.177961	1.527684	0.127218	0.264647	0.473769	0.558598	0.576839	0.055238	0.140974	0.391832	0.695452
NSUN5.Q96P11.2	0.1293925	0.084588	1.529673	0.127247	0.283983	0.229282	1.238573	0.217134	0.067636	0.070474	0.959742	0.338487
MID2.Q9UJV3	0.2388359	0.156324	1.527827	0.127298	-0.13679	0.403227	-0.33923	0.734706	0.072502	0.116455	0.622577	0.534106
C19orf43.Q9BQ61	0.188494	0.123416	1.527307	0.127312	-0.48307	0.316217	-1.52764	0.127622	-0.31932	0.092664	-3.44599	0.000647
ANXA5.P08758	0.1410707	0.092369	1.527256	0.127325	-0.19117	0.248576	-0.76908	0.442433	0.209762	0.073052	2.871402	0.004368
VPS39.Q96JC1.2	0.4949026	0.324078	1.527108	0.127361	0.037808	0.812026	0.04656	0.962894	1.007164	0.234694	4.291398	2.38E-05
KIAA1143.Q96AT1	0.2465274	0.161434	1.527112	0.127381	-0.40488	0.427503	-0.94707	0.344371	-0.31306	0.123285	-2.53935	0.011616
SORCS3.Q9UPU3	-0.270849	0.177357	-1.52714	0.127392	0.298602	0.46852	0.637332	0.52441	-0.22294	0.137196	-1.62494	0.105258
THRAP3.Q9Y2W1	0.2792438	0.182882	1.526907	0.127411	-0.00927	0.441215	-0.021	0.983258	-0.35307	0.129713	-2.72193	0.006857
RABEP1.Q15276	-0.537492	0.352025	-1.52685	0.127424	0.410314	0.875344	0.468746	0.63958	0.335734	0.259793	1.292315	0.197211

MARS.P56192	0.4796388	0.314151	1.526776	0.127444	-0.96563	0.841819	-1.14708	0.252233	0.090603	0.250905	0.361104	0.718267
MT.CO3.P00414	0.1611441	0.105561	1.526551	0.12751	0.405555	0.272907	1.486056	0.138287	0.019959	0.08179	0.244031	0.807369
PLS3.A0A0A0MSQ0	0.2704345	0.177176	1.52636	0.127548	-0.14149	0.490955	-0.28819	0.773392	0.110188	0.145936	0.755046	0.450794
NEIL2.Q969S2	0.2846874	0.186359	1.527631	0.127661	-0.15537	0.496944	-0.31264	0.754917	0.217547	0.154193	1.410874	0.160027
HNRNPM.P52272	0.2619851	0.171706	1.525778	0.127692	0.326248	0.417018	0.782334	0.434615	-0.01743	0.124174	-0.14035	0.888478
CPLX3.Q8WVH0	-0.144713	0.094878	-1.52526	0.127839	0.081643	0.248988	0.3279	0.743216	-0.14416	0.07308	-1.97259	0.049461
TSR3.Q9UJK0	0.2120973	0.139016	1.525706	0.127979	-0.39272	0.363656	-1.07991	0.281332	-0.10708	0.110367	-0.97022	0.332974
ARMCX4.F8W8Y7	-0.269703	0.176932	-1.52433	0.128275	-0.11876	0.459929	-0.25822	0.79646	0.187945	0.136716	1.374715	0.170529
SLC8A3.P57103.2	-0.244334	0.160468	-1.52263	0.128497	0.742831	0.431116	1.723043	0.085904	-0.06268	0.129524	-0.48395	0.628774
WBP1L.Q9NX94	0.2279054	0.149525	1.524198	0.128643	0.060386	0.386971	0.156049	0.876197	0.033864	0.115424	0.293392	0.769615
DNTTIP1.Q9H147	0.1915225	0.125703	1.523611	0.128723	-0.27253	0.29194	-0.93351	0.351805	0.030849	0.084764	0.363933	0.716335
SIRPA.P78324	-0.160673	0.105617	-1.52127	0.128819	0.356813	0.275436	1.295451	0.196129	0.054098	0.082101	0.658915	0.510439
DNAJC8.O75937	0.3102026	0.203932	1.521109	0.12886	-0.70544	0.476375	-1.48085	0.139661	0.016506	0.14221	0.11607	0.907673
POGLUT1.Q8NBL1	0.2474674	0.1627	1.521007	0.128885	0.639743	0.415704	1.538937	0.12484	0.197684	0.123627	1.599032	0.110832
STAT3.P40763.2	0.3132079	0.20593	1.52094	0.128902	-0.94112	0.54096	-1.73971	0.082902	0.295955	0.160834	1.840129	0.066705
RAD50.Q92878	0.3226336	0.212189	1.520504	0.129011	-0.07914	0.527316	-0.15008	0.880797	0.497899	0.154303	3.22676	0.001386
AMPH.P49418	-0.31096	0.20454	-1.52029	0.129065	0.200023	0.522644	0.382714	0.702194	0.01924	0.15551	0.123724	0.901614
EPN2.O95208	0.2923933	0.192372	1.519934	0.129155	-0.04031	0.505995	-0.07967	0.936548	-0.10455	0.150409	-0.69507	0.48753
PCYOX1L.Q8NBM8	-0.269323	0.177236	-1.51958	0.129244	-0.17809	0.443353	-0.40168	0.688197	-0.36252	0.130308	-2.78201	0.005733
PREX1.Q8TCU6	0.3097298	0.203835	1.519515	0.12926	-0.97186	0.510604	-1.90336	0.05792	-0.15109	0.152539	-0.99051	0.322698
CIB1.Q99828	0.1623114	0.106967	1.517393	0.129824	0.053776	0.29012	0.185357	0.853075	0.094892	0.086218	1.100608	0.271956
EPM2AIP1.Q7L775	0.3860532	0.254485	1.516996	0.129895	-0.06774	0.620055	-0.10924	0.913081	-0.15796	0.184241	-0.85737	0.391902
CHMP5.Q9NZZ3	-0.3352	0.221004	-1.51671	0.129966	0.221693	0.538572	0.411631	0.680894	0.066995	0.160214	0.418162	0.676118
CDK16.Q00536	0.3986117	0.262819	1.516676	0.129975	-0.04262	0.629752	-0.06768	0.946082	-0.14907	0.18715	-0.79651	0.426343
UTP15.Q8TED0	0.3493576	0.230239	1.517368	0.12999	-0.06363	0.607318	-0.10477	0.916647	0.367956	0.178241	2.064367	0.040049
ATXN3.G3V3R7	-0.151531	0.099985	-1.51554	0.130262	0.295118	0.268334	1.099815	0.272266	-0.0117	0.079978	-0.14623	0.883834
RPL22.P35268	-0.532842	0.351589	-1.51553	0.130266	-1.39593	0.901669	-1.54816	0.122605	0.282572	0.268787	1.051286	0.293946
ZNF598.Q86UK7	0.3726249	0.245904	1.515325	0.130317	-0.53768	0.642748	-0.83653	0.403503	0.032785	0.191413	0.171278	0.864117
TUBGCP6.Q96RT7	0.2553145	0.168541	1.51485	0.13055	0.520736	0.46969	1.10868	0.268585	-0.0102	0.139367	-0.07322	0.941688
NIPSNAP1.Q9BPW8	-0.234166	0.154652	-1.51415	0.130614	0.170197	0.427196	0.398405	0.690606	0.077217	0.12704	0.607817	0.543754
TMPO.H0YJH7	0.2047027	0.135074	1.515485	0.130802	-0.38995	0.371572	-1.04946	0.295413	-0.0485	0.109647	-0.44232	0.658801
CCSER1.Q9C0I3	-0.220163	0.145298	-1.51526	0.130927	0.369077	0.37117	0.99436	0.321444	-0.00686	0.103426	-0.06632	0.947198
LRRN1.Q6UXK5	-0.228103	0.150727	-1.51335	0.130947	-0.18256	0.378189	-0.48272	0.629708	-0.00022	0.109627	-0.00198	0.998421
MDGA2.Q7Z553	-0.403496	0.266734	-1.51273	0.130975	-0.67927	0.714525	-0.95066	0.342519	0.196031	0.212577	0.922166	0.357159

CA3.P07451	0.1183802	0.07828	1.512268	0.131265	0.208421	0.215367	0.967751	0.334111	0.03382	0.06352	0.532434	0.594902
KIAA1107.Q9UPP5.2	-0.28263	0.186992	-1.51146	0.131299	-0.11616	0.498302	-0.2331	0.815834	-0.52076	0.145269	-3.5848	0.000392
XAB2.Q9HCS7	0.2689702	0.177888	1.512018	0.131302	0.361646	0.455126	0.794606	0.427567	0.197552	0.139757	1.413533	0.158695
PDCL.Q13371	0.2808743	0.185844	1.511346	0.131327	-0.34382	0.476561	-0.72145	0.471176	-0.01843	0.141884	-0.1299	0.896731
ARHGEF37.A1IGU5	0.2111812	0.139733	1.511316	0.131355	0.00848	0.358801	0.023635	0.98116	-0.02499	0.104994	-0.23799	0.812053
RAB31.Q13636	0.2620528	0.173433	1.510976	0.131421	0.065665	0.439199	0.14951	0.881248	-0.04153	0.130637	-0.31792	0.75076
PLXNB2.O15031	0.3530276	0.233667	1.510814	0.131462	0.048189	0.565014	0.085288	0.932088	0.064302	0.168044	0.382653	0.70224
SLC25A5.P05141	-0.2322	0.153785	-1.5099	0.131696	-0.17097	0.420395	-0.40668	0.684522	0.007445	0.125093	0.05952	0.952577
SCPEP1.Q9HB40	0.2584282	0.171292	1.5087	0.132002	-0.19749	0.457802	-0.43139	0.666483	0.193976	0.135783	1.428581	0.154132
TOM1L2.B722U2	-0.142621	0.094528	-1.50876	0.132008	0.355212	0.248503	1.429411	0.15393	-0.06232	0.075354	-0.82705	0.408868
PLEKHA5.Q9HAU0.6	-0.420705	0.279033	-1.50773	0.132251	0.899681	0.684912	1.313572	0.189962	-0.71112	0.200284	-3.55059	0.000444
ERBB2.J3QLU9	0.1800031	0.119229	1.509722	0.132297	-0.09115	0.320512	-0.2844	0.776441	-0.09267	0.095737	-0.96794	0.33442
ABC2.Q9UG63	0.4246851	0.281742	1.507354	0.132347	0.755147	0.742932	1.016442	0.310212	0.852457	0.216018	3.946233	9.83E-05
THYN1.Q9P016	0.2814166	0.186709	1.507244	0.132375	-0.38545	0.449648	-0.85722	0.391988	-0.29229	0.132888	-2.19951	0.02858
MRPL9.Q9BYD2	-0.192502	0.127773	-1.5066	0.132561	0.424352	0.32393	1.310009	0.191188	-0.04363	0.096776	-0.45087	0.652408
H1FX.Q92522	0.1844207	0.122429	1.506354	0.132603	-0.3838	0.283185	-1.35529	0.176311	-0.02782	0.084477	-0.32937	0.742095
CLTC.A0A087WVQ6	-0.406387	0.269785	-1.50633	0.132608	-0.12831	0.682894	-0.18789	0.851085	0.273226	0.202567	1.348818	0.17838
SSBP2.A0A087X159	0.1965753	0.130423	1.507211	0.132636	-0.07144	0.33133	-0.2156	0.829494	0.209194	0.101598	2.059046	0.040646
CHERP.Q8IWX8	0.3459109	0.229663	1.50617	0.13265	-0.02959	0.517848	-0.05714	0.954471	-0.00508	0.154051	-0.03296	0.97373
RNF185.A9X3U0	0.2192841	0.145622	1.505844	0.132734	-0.66048	0.386497	-1.70889	0.088471	-0.0847	0.115416	-0.73388	0.463579
CXorf38.Q8TB03	0.2310877	0.153421	1.506229	0.132748	-0.1937	0.378206	-0.51216	0.608972	-0.14088	0.108927	-1.29333	0.197036
PHIP.Q8WWQ0	0.263391	0.174979	1.505271	0.132881	-0.06105	0.421521	-0.14482	0.884946	-0.12785	0.125189	-1.02123	0.307943
RPL38.P63173	-0.384473	0.255451	-1.50508	0.132931	-0.80518	0.740396	-1.08749	0.277664	-0.1984	0.220387	-0.90023	0.368695
HBA2.P69905	0.0766085	0.05091	1.504797	0.133003	0.113765	0.130715	0.87033	0.384794	0.066143	0.038751	1.706855	0.08885
EXOC7.B4DJ07	-0.338494	0.22475	-1.50609	0.133024	-0.01012	0.601253	-0.01684	0.986584	-0.0381	0.17436	-0.21849	0.827275
STX12.Q86Y82	-0.45916	0.305292	-1.504	0.133207	-1.5008	0.755084	-1.98759	0.047737	0.007468	0.226051	0.033039	0.973665
CNNM2.Q9H8M5	-0.412821	0.274567	-1.50354	0.133327	-0.18137	0.711136	-0.25504	0.798864	0.394345	0.210384	1.874407	0.061815
IPO9.Q96P70	0.4633222	0.308205	1.503294	0.13339	-0.34173	0.795676	-0.42948	0.66787	1.130868	0.227892	4.962306	1.15E-06
CFDP1.Q9UEE9	0.1466857	0.097612	1.502746	0.133531	0.200192	0.246167	0.813238	0.416706	0.140324	0.072874	1.925572	0.055072
ERP29.P30040	-0.325471	0.216666	-1.50217	0.133678	-0.3955	0.549622	-0.71959	0.472323	0.261433	0.162964	1.604237	0.10968
BLVRA.P53004	0.4447721	0.296088	1.502162	0.133682	-1.10451	0.741675	-1.48921	0.13745	0.440158	0.220007	2.00065	0.046302
CNTNAP1.P78357	0.2398697	0.159702	1.501987	0.133727	-0.21123	0.413697	-0.51059	0.610001	0.094477	0.123002	0.768088	0.44302
PEBP1.P30086	0.3052596	0.203271	1.501736	0.133792	-0.12276	0.525381	-0.23366	0.8154	0.254861	0.155634	1.63757	0.102526
TUBGCP2.Q9BSJ2	0.4640861	0.309068	1.501566	0.133836	1.303562	0.809866	1.609602	0.108503	0.052524	0.241907	0.217124	0.828254

SPRED3.Q2MJR0	-0.138282	0.092064	-1.50203	0.133857	-0.41079	0.289947	-1.41678	0.157782	-0.10216	0.086971	-1.1746	0.241263
THOP1.P52888	0.3551509	0.236553	1.501358	0.133889	0.234382	0.601298	0.389793	0.696957	0.149824	0.178717	0.838334	0.402489
TCEA1.P23193	0.2612899	0.174136	1.500492	0.134113	-0.46784	0.429244	-1.08991	0.276601	-0.35911	0.126301	-2.84326	0.004762
SORBS1.Q9BX66	-0.216894	0.144552	-1.50046	0.134122	0.116	0.371618	0.312148	0.755138	-0.39355	0.108284	-3.6344	0.000326
WWP1.Q9H0M0	-0.29119	0.194054	-1.50056	0.134138	0.483637	0.521809	0.926847	0.354782	-0.18842	0.153381	-1.22842	0.220292
ARPC3.O15145	-0.221436	0.14761	-1.50014	0.134204	0.397335	0.403713	0.984201	0.325784	0.091755	0.120172	0.763533	0.445726
FLOT1.O75955	-0.173735	0.115863	-1.49949	0.134372	0.242304	0.295336	0.820435	0.412599	-0.11383	0.087715	-1.29775	0.195337
SERPINB1.P30740	0.1279199	0.085327	1.499168	0.134456	-0.44878	0.226956	-1.97739	0.048884	-0.24994	0.06644	-3.76195	0.000202
PIH1D1.Q9NWS0	-0.25271	0.168613	-1.49875	0.134603	0.568469	0.450616	1.261539	0.208125	-0.09355	0.132707	-0.70494	0.481412
GLE1.Q53GS7	0.2425398	0.161636	1.50053	0.13462	0.03664	0.416135	0.088049	0.929942	-0.00486	0.116013	-0.04187	0.966653
RAP1GAP2.Q684P5	-0.305493	0.20388	-1.4984	0.134656	-0.18206	0.520509	-0.34978	0.726742	-0.06149	0.154833	-0.39713	0.691542
POLDIP2.Q9Y2S7	-0.239319	0.159752	-1.49807	0.134742	0.419128	0.436952	0.959208	0.338202	-0.139	0.129939	-1.0697	0.285585
LPCAT2.Q7L5N7	0.1737078	0.115977	1.49778	0.134816	-0.04441	0.304171	-0.14599	0.884021	0.22749	0.089561	2.54005	0.011572
ZMYM4.Q5VZL5	0.2433424	0.162434	1.498101	0.134877	0.181745	0.38149	0.476409	0.634202	0.171107	0.112502	1.520923	0.129553
CDH10.Q9Y6N8	-0.28883	0.192924	-1.49712	0.134988	-0.17661	0.487778	-0.36207	0.717544	-0.31141	0.144054	-2.16174	0.031403
SRSF10.O75494	0.2347169	0.156782	1.497094	0.134995	0.149197	0.346369	0.430745	0.666953	0.063675	0.103006	0.618164	0.536921
PITPNM2.Q9BZ72	-0.37417	0.249958	-1.49693	0.135036	0.248266	0.648999	0.382537	0.702325	-0.4257	0.191592	-2.22192	0.02701
REEP2.Q9BRK0.2	-0.310087	0.207162	-1.49683	0.135063	-0.01236	0.550619	-0.02245	0.982107	-0.49747	0.161344	-3.08331	0.002231
PQLC1.Q8N2U9	-0.205057	0.136957	-1.49724	0.135089	-0.40048	0.403626	-0.9922	0.322028	-0.14181	0.119839	-1.18335	0.237758
SDHA.P31040	-0.39778	0.266185	-1.49437	0.135704	1.184285	0.719105	1.646887	0.100595	0.152971	0.214679	0.712555	0.476657
SLC17A8.Q8NDX2	0.2189597	0.146451	1.495103	0.13584	-0.14267	0.384315	-0.37124	0.710839	-0.02359	0.111073	-0.21238	0.832017
SLC8A1.P32418.2	0.1547832	0.103637	1.493511	0.135972	0.027328	0.284983	0.095895	0.92367	0.022656	0.086024	0.263362	0.792459
PI4KA.J3KN10	-0.425562	0.284986	-1.49328	0.13599	0.002366	0.733068	0.003228	0.997427	-0.29236	0.217442	-1.34457	0.179748
ACY3.Q96HD9	0.1119538	0.074963	1.493445	0.136025	-0.15717	0.196361	-0.80042	0.424152	0.045557	0.059133	0.77042	0.441705
SLC4A4.Q9Y6R1	0.2296104	0.153781	1.493098	0.136037	-0.19767	0.395413	-0.49992	0.617488	-0.07131	0.117606	-0.60638	0.544703
BMPER.Q8N8U9	0.2155312	0.144289	1.493743	0.136095	-0.37804	0.402265	-0.93978	0.348297	0.169891	0.119706	1.419236	0.157155
PDE4D.Q08499.11	-0.234493	0.157125	-1.4924	0.13626	0.404001	0.401019	1.007434	0.314566	-0.14969	0.116816	-1.28142	0.20107
PANK1.Q8TE04	0.2027436	0.135858	1.492319	0.136282	0.170534	0.348305	0.489611	0.624775	0.11882	0.104151	1.14084	0.254865
WHAMM.Q8TF30	0.212239	0.142232	1.492206	0.136389	0.111208	0.34927	0.318402	0.750433	0.023126	0.102374	0.225901	0.821455
CAAP1.Q9H8G2	-0.10504	0.070387	-1.49232	0.136399	0.387458	0.199475	1.942387	0.05325	0.037943	0.058466	0.648965	0.516976
FBLN1.P23142.4	0.1084777	0.072714	1.491846	0.136528	-0.07579	0.180596	-0.41969	0.675086	0.074705	0.057921	1.289789	0.19835
GNPNAT1.Q96EK6	0.1773054	0.118878	1.491492	0.136559	-0.12384	0.312262	-0.3966	0.691984	-0.03418	0.091057	-0.37542	0.707646
DEF8.Q6ZN54	-0.184386	0.123672	-1.49093	0.136636	0.18129	0.302674	0.598961	0.549654	-0.01213	0.091492	-0.13263	0.894572
F3.P13726	-0.160293	0.107523	-1.49078	0.136645	-0.12055	0.279801	-0.43083	0.666891	0.029529	0.083244	0.354729	0.723034

KPNA3.O00505	0.3925993	0.263371	1.490671	0.136673	-0.41136	0.669376	-0.61454	0.539311	0.306509	0.198487	1.544231	0.123553
VWC2.Q2TAL6	-0.278803	0.187116	-1.49	0.13685	0.803079	0.484133	1.658799	0.098168	0.005816	0.144658	0.040206	0.967954
DCAF6.Q58WW2	0.3291297	0.220906	1.489905	0.136875	0.261249	0.595612	0.438622	0.661241	0.176232	0.176956	0.995905	0.320073
EHD3.Q9NZN3	-0.304123	0.204138	-1.48979	0.136904	0.788125	0.502998	1.566855	0.118169	-0.01453	0.150222	-0.09675	0.922987
AGAP2.F8VVT9	-0.401669	0.269722	-1.4892	0.137061	-0.32673	0.704183	-0.46399	0.642984	-0.32615	0.208734	-1.5625	0.119191
LSAMP.Q13449	-0.435025	0.292225	-1.48867	0.137201	-0.85104	0.721372	-1.17975	0.239004	0.200043	0.214776	0.931401	0.352371
CCDC101.Q96ES7	-0.290019	0.194603	-1.49031	0.137222	-0.29989	0.550353	-0.5449	0.586527	0.303442	0.150603	2.014854	0.045477
MICU2.Q8IYU8	0.2315147	0.155324	1.49053	0.137377	-0.25742	0.38748	-0.66434	0.507453	0.04001	0.114006	0.350947	0.726102
MRPS36.P82909	-0.353692	0.237731	-1.48779	0.137433	0.808687	0.590304	1.369949	0.171694	-0.27492	0.175442	-1.56698	0.118139
COP55.Q92905	0.4066805	0.273547	1.486694	0.137721	-0.45615	0.720018	-0.63353	0.526856	0.2167	0.213978	1.012721	0.311983
CTNNBIP1.Q9NSA3	-0.179233	0.120573	-1.48652	0.137811	0.531867	0.312453	1.702229	0.089788	-0.11612	0.091324	-1.27155	0.204554
COL4A3BP.Q9Y5P4	0.4736205	0.318731	1.485956	0.137916	-0.3212	0.776428	-0.41369	0.679388	0.391035	0.229968	1.700392	0.09006
SLC45A1.Q9Y2W3	-0.225402	0.151715	-1.48569	0.138052	0.48596	0.409084	1.187922	0.235867	-0.03177	0.120151	-0.26439	0.791673
TJP2.Q9UDY2.6	0.0846115	0.056949	1.485747	0.138146	0.074118	0.156151	0.474656	0.635462	-0.13527	0.045604	-2.96625	0.003318
TPM3.P06753.4	-0.307587	0.207277	-1.48394	0.138449	0.658145	0.54277	1.212567	0.226219	0.132791	0.161671	0.821365	0.412069
GNG10.P50151	0.2054352	0.138477	1.483536	0.138557	0.131866	0.357401	0.368959	0.71241	-0.1388	0.106051	-1.30879	0.191574
FAM221A.A4D161	-0.176531	0.119057	-1.48275	0.138807	0.062365	0.282177	0.221013	0.825236	0.008261	0.083488	0.098947	0.921248
ERMN.Q8TAM6	0.0822326	0.055469	1.482508	0.13883	-0.0148	0.149897	-0.09871	0.921432	-0.04898	0.044506	-1.10056	0.271941
IGFBP6.P24592	0.2066149	0.139329	1.48293	0.138833	-0.36696	0.370451	-0.99057	0.322815	0.031268	0.107851	0.289917	0.77211
CLCN7.P51798	0.2666941	0.179895	1.482497	0.138833	-0.60307	0.459098	-1.31359	0.189954	0.276584	0.136049	2.032972	0.042907
SRSF1.J3KTL2	0.307091	0.207149	1.482463	0.138842	0.232555	0.483299	0.481182	0.630726	0.240413	0.143177	1.67913	0.094134
FAM167A.Q96KS9	-0.213332	0.143817	-1.48336	0.138911	0.563507	0.42027	1.340822	0.181499	-0.10706	0.133712	-0.80064	0.42429
AKAP17A.Q02040	0.2393624	0.16146	1.48249	0.139041	0.31594	0.394314	0.80124	0.423809	0.168143	0.117296	1.433498	0.153056
GCN1L1.Q92616	0.3526602	0.238014	1.481679	0.139051	0.693565	0.594651	1.166341	0.244373	0.240892	0.176757	1.362841	0.173922
CPEB3.Q8NE35.2	-0.43328	0.292448	-1.48156	0.139081	1.341285	0.744607	1.801332	0.072622	0.186595	0.222411	0.838965	0.402136
TBXAS1.Q53F23	0.1453036	0.098067	1.481672	0.139153	-0.07867	0.286273	-0.27482	0.783671	0.139974	0.083454	1.677265	0.09467
DDX1.Q92499	0.4528598	0.305897	1.480432	0.139383	-0.07034	0.734279	-0.0958	0.923745	0.37613	0.217391	1.7302	0.08459
STRBP.Q96SI9	0.317127	0.214215	1.480418	0.139387	-0.11049	0.582817	-0.18958	0.849763	0.141854	0.1732	0.819015	0.413407
DGKB.Q9Y6T7	-0.188472	0.127393	-1.47945	0.139645	0.225619	0.315796	0.714444	0.475491	-0.17001	0.093524	-1.81778	0.070064
MICAL1.Q8TDZ2	-0.232702	0.157311	-1.47925	0.139698	-0.19829	0.439488	-0.45119	0.652169	0.238449	0.13008	1.833095	0.067747
DUSP23.Q9BVJ7	0.140417	0.094954	1.478787	0.139822	-0.3447	0.267782	-1.28725	0.198966	0.1497	0.079419	1.884932	0.060374
RANBP9.Q96S59	-0.345752	0.233982	-1.47769	0.140116	0.919881	0.595263	1.545335	0.123285	0.035056	0.17775	0.19722	0.843785
COMMD6.Q7Z4G1	-0.294158	0.199081	-1.47758	0.140145	0.645613	0.50667	1.274228	0.203537	0.070597	0.151066	0.467324	0.640596
GCDH.Q92947	-0.169195	0.114533	-1.47726	0.140231	0.11049	0.289336	0.381873	0.702817	0.007346	0.086092	0.085332	0.932053

BRD3.Q15059	0.1830413	0.123879	1.477581	0.140286	-0.18698	0.32484	-0.5756	0.565402	0.109383	0.095374	1.146885	0.252517
MLLT4.A8MQ02	-0.549507	0.37209	-1.47681	0.140351	0.180373	0.967747	0.186384	0.852265	-1.01721	0.282048	-3.60652	0.000362
SUMF2.Q8NBJ7	-0.196286	0.132923	-1.47669	0.140425	-0.43572	0.329748	-1.32136	0.187425	-0.06981	0.09637	-0.72436	0.46943
C10orf76.Q5T2E6	0.3413545	0.231424	1.47502	0.140832	0.902364	0.582869	1.548143	0.122608	0.274298	0.173364	1.58221	0.114621
PLEC.Q15149.3	0.3624385	0.245733	1.474926	0.140857	0.192464	0.629595	0.305695	0.760042	-0.09276	0.187248	-0.49539	0.620675
DPYS.Q14117	0.0285621	0.019357	1.475532	0.140927	-0.03064	0.047089	-0.65068	0.515922	0.006569	0.013937	0.471344	0.637854
DOLPP1.Q86YN1	0.2686299	0.181989	1.476081	0.141066	-1.15621	0.489707	-2.36102	0.019364	-0.02355	0.129407	-0.18201	0.855797
DHX57.Q6P158	0.1437535	0.097541	1.473781	0.141227	-0.01693	0.225883	-0.07495	0.94031	0.026336	0.064836	0.406203	0.684906
SOS2.Q07890	0.2181875	0.148064	1.473607	0.141353	-0.00408	0.405372	-0.01007	0.991972	0.150106	0.116437	1.28917	0.198521
KRIT1.O00522	-0.147324	0.100125	-1.4714	0.141808	-0.41503	0.268456	-1.546	0.123126	0.105947	0.079942	1.325299	0.186048
SEC61A1.B4DR61	0.2291867	0.155838	1.470674	0.142003	-0.30884	0.39002	-0.79185	0.429055	0.247003	0.115291	2.142438	0.032937
PLIN3.O60664	0.1525603	0.10378	1.47004	0.142175	0.302388	0.279103	1.08343	0.27946	-0.09432	0.083012	-1.13623	0.256738
VPS26A.O75436	-0.325192	0.221295	-1.46949	0.142323	0.014952	0.586534	0.025493	0.979678	0.373853	0.173187	2.158668	0.031643
RCBTB2.B4DWG0	0.2462275	0.167377	1.471096	0.142438	0.325582	0.478646	0.680214	0.497346	0.316513	0.138575	2.284048	0.023675
CAMK2N2.Q96S95	-0.136422	0.092892	-1.4686	0.142592	0.13917	0.251943	0.552388	0.581099	-0.40819	0.071029	-5.74685	2.26E-08
OLFM3.Q96PB7	-0.233709	0.159169	-1.46831	0.142643	-0.08917	0.402322	-0.22165	0.824735	-0.24638	0.118872	-2.07264	0.039032
NME7.Q9Y5B8	0.3080075	0.209769	1.468314	0.142663	0.227586	0.566697	0.401602	0.688262	0.105352	0.167809	0.627811	0.530604
SCG2.P13521	-0.160121	0.109074	-1.468	0.142727	0.050455	0.266924	0.189023	0.850199	0.027198	0.079395	0.342572	0.732152
PSMB2.P49721	0.4368944	0.297781	1.467166	0.142955	-0.24386	0.767009	-0.31794	0.750747	0.575493	0.225856	2.548051	0.011315
NTRK2.Q16620.4	-0.310458	0.211699	-1.4665	0.143135	0.063719	0.557353	0.114325	0.909054	0.137183	0.165623	0.828286	0.408146
APOE.P02649	0.0960288	0.065492	1.466271	0.143198	0.107629	0.173057	0.621928	0.534446	-0.00832	0.051511	-0.16157	0.871749
C19orf25.Q9UFG5	-0.221577	0.151129	-1.46615	0.143252	0.240359	0.405212	0.593167	0.553515	-0.24592	0.119268	-2.06195	0.040071
MLH1.P40692	-0.235401	0.160559	-1.46613	0.143336	-0.32178	0.40125	-0.80196	0.423281	-0.10713	0.119714	-0.89491	0.371629
MAP1LC3A.Q9H492	-0.277239	0.189179	-1.46548	0.143413	0.870703	0.534408	1.629285	0.104268	0.332785	0.158533	2.099147	0.036612
SBSN.Q6UWP8	0.0741383	0.050567	1.466128	0.143467	-0.08786	0.118378	-0.74219	0.458724	0.071189	0.038937	1.828313	0.068792
PPP1R3G.B7ZBB8	0.1906306	0.130132	1.464898	0.143582	0.31954	0.340222	0.93921	0.348366	-0.0257	0.102248	-0.25136	0.801707
SLITRK5.O94991	-0.334109	0.228235	-1.46388	0.143867	-0.38654	0.597908	-0.64648	0.51846	0.158989	0.176477	0.900907	0.36836
CAMK2D.E9PBG7	-0.230234	0.157304	-1.46363	0.143918	0.067712	0.394004	0.171857	0.863662	-0.02495	0.117206	-0.21286	0.831578
LURAP1.Q96LR2	-0.209865	0.143435	-1.46313	0.144216	0.308947	0.374736	0.824439	0.410486	0.031086	0.106331	0.292355	0.77026
MT3.P25713	0.1225971	0.083839	1.462299	0.144283	-0.17848	0.215218	-0.8293	0.407575	0.029622	0.064073	0.462314	0.644181
SGSM3.Q96HU1	-0.255375	0.17475	-1.46137	0.14468	0.029748	0.508797	0.058468	0.953423	0.114727	0.145678	0.787539	0.431712
APRT.P07741	0.2373197	0.162504	1.460393	0.144805	-0.77744	0.410066	-1.89589	0.058904	0.15093	0.122393	1.233158	0.218451
NEK7.Q8TDX7	0.2251762	0.154215	1.460144	0.144874	-0.07975	0.354897	-0.22471	0.822355	0.14837	0.105247	1.409727	0.159623
VANGL2.Q9ULK5	0.2038631	0.139553	1.46083	0.144893	0.119727	0.336969	0.355308	0.722677	-0.04293	0.097358	-0.44091	0.65968

KIAA1671.Q9BY89	-0.40282	0.275949	-1.45976	0.144979	0.227863	0.754152	0.302145	0.762744	-0.67759	0.221055	-3.06524	0.002366
ARFRP1.Q13795	-0.25294	0.173269	-1.45981	0.145091	0.178371	0.435094	0.40996	0.682177	-0.03754	0.126005	-0.29796	0.765977
CAMK2A.Q9UQM7.2	-0.111918	0.0767	-1.45915	0.145156	0.651479	0.193413	3.368332	0.000854	0.039083	0.059023	0.662171	0.508363
FBXO6.Q9NRD1	0.1801006	0.123463	1.458744	0.145258	-0.30324	0.319598	-0.94881	0.343455	-0.02439	0.095203	-0.25619	0.797975
ADAP1.O75689	-0.41316	0.283319	-1.45829	0.145384	0.097164	0.674154	0.144127	0.885494	0.298658	0.199837	1.494508	0.13606
RBBP4.Q09028.2	0.2889837	0.198167	1.458285	0.145385	-0.37415	0.497402	-0.75222	0.452491	0.183295	0.147737	1.240686	0.21566
UBA1.Q5JRS3	-0.070965	0.048661	-1.45836	0.145465	-0.08179	0.128461	-0.63665	0.524898	0.033636	0.037727	0.891566	0.373431
CSNK1A1.P48729	0.4441044	0.304675	1.457634	0.145564	-0.32169	0.760125	-0.42321	0.672435	0.131628	0.226066	0.582255	0.560818
MZT1.Q08AG7	0.2613511	0.179334	1.457344	0.145685	0.271474	0.46008	0.590059	0.555614	-0.01207	0.138659	-0.08702	0.930718
GK.P32189.1	-0.324989	0.223084	-1.45681	0.145793	0.28714	0.582046	0.493329	0.622129	-0.18689	0.172891	-1.08097	0.280549
PPP4R4.Q6NUP7	-0.198846	0.1365	-1.45675	0.145809	-0.55429	0.356018	-1.5569	0.120513	-0.0229	0.106314	-0.2154	0.829601
TRAPPC6B.Q86SZ2	-0.278561	0.191288	-1.45624	0.14595	0.067063	0.501507	0.133723	0.893709	-0.20663	0.148732	-1.38928	0.165746
EIF4EBP2.Q13542	-0.183423	0.12596	-1.4562	0.146	-0.05069	0.309766	-0.16362	0.870141	-0.25298	0.089844	-2.81574	0.005199
MLLT11.Q13015	-0.138425	0.095061	-1.45617	0.146	0.063334	0.250948	0.25238	0.800925	-0.08916	0.073452	-1.21391	0.225765
EEF1A1.P68104	0.2049975	0.140956	1.45434	0.146475	-0.26718	0.361732	-0.73862	0.4607	0.119831	0.107488	1.114829	0.265787
RCOR3.Q9P2K3	0.2505415	0.172303	1.454078	0.146622	0.034579	0.426477	0.081081	0.935436	0.01634	0.12608	0.129604	0.896975
TSPAN7.B4DDG0	-0.185451	0.127571	-1.45371	0.14665	0.571259	0.325172	1.75679	0.079941	-0.0559	0.097161	-0.57532	0.565495
KCNB2.Q92953	0.1989673	0.136886	1.453528	0.146907	-0.0738	0.316349	-0.23329	0.815728	-0.08421	0.093428	-0.90137	0.368278
ACTB.P60709	-0.280243	0.192902	-1.45277	0.14691	0.165839	0.475893	0.348479	0.727717	-0.18629	0.141202	-1.3193	0.188042
VAV3.Q9UKW4	0.2502425	0.17214	1.453717	0.14695	0.410251	0.447014	0.917759	0.359808	-0.01117	0.134202	-0.08321	0.933765
L2HGDH.Q9H9P8	-0.266519	0.183493	-1.45248	0.146991	0.346119	0.486428	0.711552	0.477277	0.066838	0.144772	0.461676	0.644637
SEPT6.Q14141	-0.307573	0.211785	-1.45229	0.147042	0.169448	0.548309	0.309037	0.757501	0.05419	0.163108	0.332233	0.739938
ANKS1B.F8VR14	-0.17457	0.120298	-1.45115	0.14736	-0.04515	0.290863	-0.15521	0.876753	-0.24969	0.08536	-2.9252	0.003696
TTC7B.Q86TV6	-0.371337	0.255964	-1.45074	0.147475	0.18388	0.64398	0.285536	0.775424	-0.17574	0.191338	-0.9185	0.359072
CCNYL1.Q8N7R7	-0.233586	0.160947	-1.45133	0.147499	0.242252	0.394744	0.613694	0.540004	0.058078	0.112927	0.514299	0.60752
ZBTB11.O95625	0.0368084	0.025365	1.451129	0.147736	-0.06224	0.068907	-0.90318	0.367527	-0.00518	0.018506	-0.27973	0.779978
ME3.Q16798	-0.259771	0.179198	-1.44963	0.147784	0.595766	0.477859	1.246738	0.213435	-0.11035	0.142373	-0.77506	0.438892
FLOT2.Q14254	-0.155863	0.107531	-1.44947	0.147828	0.040602	0.272319	0.149096	0.881574	-0.08208	0.080879	-1.0148	0.31099
ARHGEF2.V9GYM8	-0.314135	0.216775	-1.44913	0.147923	-0.49222	0.573103	-0.85887	0.391079	-0.21817	0.17024	-1.28152	0.20097
TPD52L2.O43399.4	0.2132646	0.147073	1.450056	0.147928	-0.47333	0.429925	-1.10096	0.272135	-0.11531	0.120194	-0.95933	0.338463
TCEAL4.Q96EI5	0.2623127	0.18106	1.448765	0.148046	-0.20055	0.448225	-0.44743	0.654887	0.016043	0.133616	0.120069	0.904508
MTSS1L.H3BPV0	-0.13006	0.089662	-1.45056	0.148077	-0.01331	0.266821	-0.04989	0.960269	-0.30373	0.068556	-4.4304	1.73E-05
SIRPA.P78324.2	-0.213263	0.147209	-1.44871	0.148083	0.402261	0.383229	1.049661	0.294742	-0.09939	0.111663	-0.89012	0.374135
HLA.DRB1.P20039	0.0889917	0.06142	1.448893	0.148177	0.086401	0.161295	0.53567	0.592687	0.049476	0.0462	1.070921	0.28529

METTL17.Q9H7H0	-0.164245	0.1134	-1.44836	0.148188	-0.00499	0.272834	-0.01828	0.985425	-0.02963	0.080368	-0.36872	0.712609
RAB3D.O95716	-0.136752	0.094466	-1.44763	0.148342	0.249918	0.238609	1.047397	0.295732	0.085836	0.07094	1.209972	0.227211
EIF2B4.E7ERK9	0.1679145	0.116003	1.447502	0.148444	-0.15578	0.304308	-0.51193	0.609108	0.162039	0.090538	1.789734	0.074589
CSE1L.P55060	0.3595807	0.24864	1.446191	0.148745	-0.50922	0.630557	-0.80757	0.419959	0.317639	0.186908	1.699441	0.090239
NFYB.F8VSL3	0.1513111	0.104582	1.446814	0.148776	-0.25106	0.258174	-0.97244	0.33185	0.119436	0.077503	1.541042	0.124675
EIF1AX.P47813	0.2712604	0.187598	1.445968	0.148808	0.175702	0.486259	0.361335	0.718095	-0.11834	0.144528	-0.81878	0.413543
METTL9.Q9H1A3	0.2688659	0.185794	1.447118	0.14894	0.457461	0.464563	0.984713	0.326037	-0.16639	0.14179	-1.17353	0.242076
SORBS2.O94875.4	-0.132114	0.091378	-1.44579	0.149013	0.060542	0.231777	0.261208	0.794145	-0.29548	0.066108	-4.46958	1.19E-05
SMPD4.B1PBA3	0.2347004	0.162462	1.444652	0.149195	0.510018	0.400986	1.271909	0.204391	0.232087	0.117992	1.966973	0.050108
SMYD5.Q6GMV2	0.2113806	0.146375	1.444102	0.149332	-0.07009	0.401672	-0.1745	0.86159	0.166059	0.119124	1.394008	0.164314
FAM81A.Q8TBF8	-0.218394	0.15127	-1.44373	0.149435	0.169171	0.375725	0.450252	0.652843	-0.05671	0.111762	-0.50743	0.612217
SF3B5.Q9BWJ5	0.3304522	0.228889	1.443723	0.14948	-0.90142	0.551942	-1.63318	0.103505	-0.04268	0.166764	-0.25593	0.798187
CADPS.Q9ULU8	-0.337463	0.233799	-1.44339	0.149531	1.039573	0.611722	1.699421	0.090243	-0.08331	0.182761	-0.45582	0.648835
ENPP6.Q6UWR7	0.064683	0.044863	1.44179	0.149983	0.015166	0.12102	0.125319	0.900352	-0.00541	0.036001	-0.15032	0.880613
PRAM1.Q96QH2	0.1979479	0.137146	1.443333	0.15009	-0.00632	0.425732	-0.01485	0.98817	-0.1231	0.116135	-1.05998	0.29075
RBM22.Q9NW64	0.2805502	0.194702	1.44092	0.150228	-0.13144	0.490556	-0.26795	0.788917	0.232839	0.145348	1.601937	0.110188
PLCG2.P16885	-0.152594	0.10586	-1.44146	0.15023	-0.11081	0.267996	-0.41348	0.679611	0.017481	0.078599	0.222404	0.824181
SEPT7.Q16181.2	-0.462794	0.321271	-1.44051	0.150345	-0.43862	0.804452	-0.54524	0.585979	0.041167	0.239414	0.171949	0.86359
HSD17B7.P56937	-0.22818	0.158393	-1.4406	0.150507	-0.19604	0.416591	-0.47059	0.638374	0.136136	0.123155	1.105407	0.270123
GRIP1.F5H4N6	-0.339741	0.235983	-1.43968	0.150578	0.418534	0.597056	0.700997	0.483831	0.289856	0.17699	1.637696	0.1025
PRKD1.Q15139	0.22183	0.153995	1.440503	0.150624	-0.14996	0.385766	-0.38874	0.697841	0.004158	0.120793	0.03442	0.972573
SDHD.O14521	-0.119259	0.082821	-1.43997	0.150705	-0.01386	0.2144	-0.06466	0.948504	-0.0306	0.058915	-0.51946	0.603937
ARF4.P18085	0.1610659	0.111937	1.438894	0.150801	0.182311	0.280628	0.649655	0.516396	0.156777	0.083063	1.88745	0.060034
PLEKHA1.Q9HB21	-0.322048	0.22383	-1.43881	0.150826	0.283755	0.525916	0.539544	0.589899	0.272779	0.155756	1.751329	0.080878
BRINP1.O60477	-0.33219	0.230883	-1.43878	0.150834	0.025992	0.599089	0.043386	0.965422	0.197784	0.177865	1.111992	0.267003
HMGAI1.P17096.2	0.2168186	0.150664	1.439087	0.150887	-0.3856	0.354878	-1.08658	0.278254	0.071386	0.103083	0.692515	0.489249
NACC2.Q96BF6	0.2093243	0.145345	1.440185	0.15089	0.101269	0.330903	0.306039	0.759909	0.086465	0.106093	0.814992	0.416092
NARFL.Q9H6Q4	0.3204078	0.222774	1.438264	0.15098	-0.02385	0.575021	-0.04148	0.96694	0.347789	0.169915	2.046841	0.041517
RASA4.O43374	-0.11159	0.077619	-1.43767	0.151149	0.295874	0.209566	1.411842	0.158999	0.073443	0.062403	1.176914	0.240133
UBTD1.Q9HAC8	0.216345	0.150531	1.43721	0.151279	0.106011	0.38783	0.273345	0.78477	0.161654	0.115021	1.405432	0.160894
ATPIF1.Q9UII2	-0.146346	0.101832	-1.43714	0.151299	-0.01598	0.254403	-0.06281	0.949956	-0.14418	0.075237	-1.91642	0.056231
LASP1.Q14847	-0.350192	0.243895	-1.43583	0.15167	0.006299	0.619871	0.010161	0.991899	-0.52956	0.181931	-2.91075	0.003867
GRSF1.F5H516	-0.30323	0.211199	-1.43576	0.151692	0.020132	0.546646	0.036827	0.970646	0.225258	0.162114	1.389507	0.165676
UGP2.Q16851	0.372828	0.259676	1.43574	0.151697	-0.98281	0.637919	-1.54065	0.124423	0.293114	0.189766	1.544608	0.123461

HDCC3.Q8N4P3	0.187895	0.130907	1.435329	0.151814	0.349433	0.353927	0.987302	0.324265	0.01731	0.105448	0.164156	0.869715
SYNPO2.Q9UMS6.2	-0.206937	0.144196	-1.43511	0.151876	0.02077	0.367889	0.056457	0.955014	-0.26438	0.108406	-2.43881	0.015297
MYBPC1.Q00872.7	-0.288436	0.20072	-1.43701	0.151992	0.394191	0.546058	0.721885	0.471512	0.216929	0.14965	1.449579	0.149306
ACTBL2.Q562R1	-0.119443	0.083221	-1.43526	0.152006	-0.28605	0.219393	-1.30384	0.193547	0.005128	0.064562	0.07942	0.936765
BTD.P43251	-0.207031	0.144279	-1.43493	0.152055	0.14577	0.372148	0.391698	0.695606	0.117706	0.108099	1.088866	0.277233
SGCD.Q92629	0.1946855	0.135832	1.433278	0.152419	0.541524	0.35763	1.514204	0.131038	0.066584	0.104421	0.637655	0.52419
ERLIN1.O75477	0.24529	0.171273	1.432154	0.15272	-1.00554	0.42796	-2.34961	0.01942	0.065383	0.128386	0.509268	0.610926
VPS13D.Q5THJ4	-0.413901	0.289091	-1.43173	0.152841	-0.15271	0.706871	-0.21603	0.829106	-0.07596	0.210253	-0.36127	0.718143
PPP1R14A.Q96A00	0.0710124	0.049598	1.431769	0.15285	-0.05221	0.129968	-0.40174	0.688158	-0.03241	0.038697	-0.83754	0.402953
ABCG1.P45844	0.1966885	0.137309	1.432448	0.152959	0.163876	0.328071	0.499515	0.617945	0.020228	0.092841	0.217881	0.827735
HSPA14.Q0VDF9	0.3383403	0.236386	1.431307	0.152962	0.083538	0.611648	0.136579	0.891453	0.39514	0.180571	2.188286	0.029395
NRXN3.Q9Y4C0	-0.357957	0.250112	-1.43118	0.152997	0.542177	0.625584	0.866673	0.386791	-0.03657	0.186314	-0.1963	0.844506
PHKG1.F6VCX5	0.2327245	0.162618	1.431113	0.153018	-0.21297	0.443384	-0.48032	0.631339	-0.17588	0.131569	-1.33678	0.182274
PRUNE.Q86TP1	0.2966239	0.207297	1.430909	0.153076	-0.56723	0.552661	-1.02637	0.305517	0.097673	0.164593	0.593425	0.553329
SERBP1.Q8NC51.3	0.1130093	0.078991	1.430666	0.153179	-0.13064	0.204666	-0.63833	0.523755	-0.04934	0.061234	-0.80578	0.421022
MBP.P02686.3	0.0600697	0.041999	1.43027	0.153278	0.032477	0.115879	0.280272	0.779461	-0.00875	0.034659	-0.2526	0.800752
DNTTIP2.Q5QJE6	-0.197207	0.137835	-1.43074	0.153298	0.119584	0.344632	0.34699	0.728895	-0.11321	0.103249	-1.09646	0.273948
UBE2I.P63279	0.2618463	0.183139	1.42977	0.153403	-0.43596	0.410246	-1.06268	0.288755	0.213381	0.121661	1.753898	0.080436
DNAH2.Q9P225	0.1003849	0.070115	1.431716	0.1535	-0.11377	0.189731	-0.59965	0.549725	0.059387	0.056322	1.054436	0.293526
CFL1.E9PK25	0.3566315	0.249581	1.428919	0.153647	-0.7427	0.631199	-1.17665	0.240238	-0.06938	0.188148	-0.36877	0.712554
SON.P18583.5	0.2985053	0.208975	1.428427	0.153788	-0.21104	0.504336	-0.41846	0.675901	-0.14709	0.149841	-0.98162	0.327051
ATAD3A.Q9NVI7.2	-0.362411	0.253777	-1.42807	0.153892	0.240829	0.640902	0.375765	0.707348	0.077245	0.19065	0.405169	0.685633
GLRX2.Q9NS18	-0.230405	0.161259	-1.42879	0.153923	0.050089	0.431468	0.116089	0.907688	0.033467	0.113197	0.295655	0.767774
PAXBP1.Q9Y5B6	0.1951085	0.136609	1.428222	0.153963	-0.44943	0.374867	-1.1989	0.231645	0.369041	0.11352	3.250894	0.0013
PDE4B.Q07343	0.3019394	0.211501	1.427603	0.154025	0.405833	0.514461	0.78885	0.430802	-0.10239	0.153086	-0.66886	0.504082
AFF4.Q9UHB7	0.1703648	0.119297	1.428077	0.154029	0.259173	0.310344	0.835114	0.404432	-0.10954	0.095006	-1.15302	0.249978
HDAC11.Q96DB2	0.1354348	0.094885	1.427351	0.154098	0.007681	0.246022	0.031221	0.975113	0.098363	0.072974	1.347924	0.178667
ANKRD54.Q6NXT1	0.1542318	0.108058	1.427307	0.15416	0.167723	0.272348	0.615841	0.538489	-0.0811	0.079949	-1.01445	0.311226
ATP6V1G2.O95670	-0.257622	0.180613	-1.42638	0.154378	0.247878	0.456433	0.543075	0.587468	-0.08901	0.135751	-0.6557	0.512503
CCDC154.A6NI56	-0.161532	0.113159	-1.42747	0.154457	0.279939	0.29816	0.938888	0.348968	-0.07335	0.083564	-0.8778	0.381148
ARHGAP33.O14559	-0.213425	0.149674	-1.42593	0.154594	-0.19514	0.388101	-0.5028	0.615517	-0.34983	0.109634	-3.19089	0.001586
NCKIPSD.Q9NZQ3	-0.322148	0.225991	-1.42549	0.154634	0.402858	0.534112	0.754259	0.451267	-0.27406	0.158271	-1.73159	0.084341
CASKIN2.Q8WXE0	0.3108532	0.21809	1.425344	0.154677	-0.34285	0.510545	-0.67153	0.502382	-0.0696	0.151937	-0.4581	0.647203
SCN2A.Q99250	-0.336823	0.236466	-1.4244	0.154949	-0.0551	0.588716	-0.09359	0.925493	-0.03795	0.175122	-0.21673	0.82856

NUCKS1.Q9H1E3	0.1458848	0.102425	1.424306	0.154977	0.1159	0.263948	0.439101	0.660894	0.475562	0.073754	6.447962	4.34E-10
HEATR5B.Q9P2D3	0.4974432	0.349273	1.424226	0.155	-1.51347	0.851762	-1.77687	0.07657	0.105475	0.254601	0.414276	0.678958
ACAN.A0A087X1T7	0.1601376	0.112291	1.426097	0.155162	0.4394	0.312851	1.404502	0.162279	0.034165	0.08693	0.393019	0.694875
SNRPA.P09012	0.2591112	0.182008	1.423622	0.155175	-0.02061	0.427209	-0.04824	0.961553	-0.05773	0.127045	-0.45438	0.649871
MYRIP.Q8NFW9	-0.252471	0.177375	-1.42337	0.155248	0.199643	0.449626	0.444019	0.657338	-0.24262	0.133087	-1.82305	0.069259
PARD3.Q8TEW0	0.1953094	0.137202	1.423518	0.155258	-0.07822	0.366434	-0.21345	0.831126	-0.23104	0.106589	-2.16753	0.031023
SPATA2.Q9UM82	-0.409375	0.287798	-1.42244	0.155518	0.712521	0.762589	0.934344	0.350853	-0.52848	0.225184	-2.34689	0.01956
ACBD5.Q5T8D3	0.2353652	0.165567	1.421573	0.155769	-0.30666	0.409978	-0.74798	0.45504	-0.01239	0.122069	-0.10146	0.919249
CYP7B1.O75881	-0.153437	0.107921	-1.42176	0.155803	-0.19538	0.278521	-0.7015	0.483591	-0.21869	0.08003	-2.73261	0.006697
ELFN1.P0C7U0	-0.205525	0.14459	-1.42144	0.15585	0.030982	0.397154	0.078011	0.937873	-0.20469	0.118214	-1.73156	0.084416
NFU1.Q9UMS0	-0.233652	0.164411	-1.42115	0.155892	-0.26754	0.430081	-0.62207	0.534354	-0.00163	0.128021	-0.01272	0.989863
PARVB.Q9HBI1	0.1952939	0.137416	1.421189	0.155978	-0.06906	0.408859	-0.16892	0.865986	0.088392	0.125632	0.703579	0.482306
S100A4.P26447	0.0731348	0.051474	1.420811	0.15599	-0.15566	0.130771	-1.1903	0.234838	0.111179	0.038476	2.889572	0.00413
ZFYVE9.O95405	0.3127504	0.220133	1.420736	0.156012	0.213523	0.578001	0.369417	0.712069	-0.08426	0.171916	-0.4901	0.624413
P2RY12.Q9H244	-0.142143	0.100019	-1.42116	0.156032	0.066973	0.269967	0.24808	0.804276	-0.03291	0.079328	-0.41487	0.678589
SYT4.Q9H2B2	0.2637197	0.185622	1.420733	0.156153	-0.54741	0.499432	-1.09607	0.274075	-0.04016	0.151016	-0.26596	0.790484
TIMM9.Q9Y5J7	-0.378137	0.266282	-1.42006	0.156209	0.224561	0.68378	0.328411	0.742822	-0.25379	0.202937	-1.25056	0.212036
CDC16.Q13042	0.4058317	0.285817	1.419902	0.156255	-1.79007	0.761541	-2.35059	0.01937	0.048034	0.228539	0.210177	0.833668
CDC42EP2.O14613	0.1193743	0.084056	1.420168	0.156419	-0.34702	0.254681	-1.36255	0.174416	0.109673	0.076808	1.427882	0.154744
PVRL2.Q92692	0.2406603	0.169564	1.419293	0.156432	-0.713	0.420116	-1.69715	0.090672	0.129259	0.125341	1.031252	0.303226
DNAJC28.Q9NX36	-0.107096	0.075414	-1.4201	0.156517	0.208682	0.202414	1.030965	0.303808	-0.02359	0.057436	-0.41067	0.681758
VEZT.Q9HBM0	-0.286755	0.202104	-1.41885	0.156581	-0.30056	0.566645	-0.53042	0.596214	0.050331	0.169531	0.296883	0.76676
RPL19.P84098	0.2833691	0.199755	1.418585	0.156638	-0.6311	0.517183	-1.22026	0.223295	0.211623	0.153753	1.376382	0.169697
HZGJ.Q86YQ0	-0.250015	0.176258	-1.41846	0.156675	0.200591	0.444804	0.450964	0.652331	0.101734	0.132239	0.769323	0.442288
ARHGEF18.Q6ZSZ5	0.4946941	0.348803	1.418263	0.156732	-1.06191	0.883283	-1.20223	0.230191	-0.39563	0.262413	-1.50766	0.13266
HGF.P14210	0.0915256	0.064483	1.419376	0.15686	-0.01947	0.184593	-0.10546	0.916128	0.062627	0.052301	1.197426	0.232706
ALG5.Q9Y673	0.2700079	0.190466	1.417614	0.156942	-0.3022	0.486252	-0.6215	0.534746	-0.02722	0.146689	-0.18557	0.852904
SCN3B.Q9NY72	-0.233993	0.165173	-1.41665	0.157202	-0.46875	0.392559	-1.19408	0.233359	0.05128	0.117012	0.438251	0.661509
CDC42.P60953.1	-0.224643	0.158584	-1.41655	0.157232	0.138919	0.456206	0.304511	0.760943	-0.08036	0.135657	-0.59236	0.554042
CNR1.P21554	-0.238885	0.168671	-1.41628	0.157312	-0.29352	0.407433	-0.7204	0.471821	-0.12855	0.121086	-1.06166	0.289216
FAT1.Q14517	0.2047352	0.144428	1.417554	0.157417	-0.00973	0.37053	-0.02626	0.979079	0.141748	0.111267	1.273943	0.204475
SNAP25.P60880.2	-0.142689	0.100799	-1.41558	0.157555	0.203703	0.265737	0.766559	0.443963	-0.13049	0.078326	-1.66595	0.096795
CA1.P00915	0.0711281	0.050258	1.415263	0.157609	0.200884	0.128474	1.563608	0.11893	0.065538	0.038188	1.71619	0.087126
CKM.P06732	-0.121589	0.085893	-1.41559	0.157703	0.155163	0.206111	0.752813	0.452303	0.058633	0.058071	1.009692	0.313664

MARCKS.A0A087WZH7	0.2091318	0.14782	1.414772	0.157753	-0.36494	0.366745	-0.99507	0.320478	0.044259	0.109245	0.40513	0.685662
ACADM.Q5T4U5	0.1615768	0.114233	1.41445	0.157847	-0.52726	0.289074	-1.82395	0.069122	0.1548	0.086006	1.799872	0.072853
EXOC3.O60645.3	-0.663624	0.469208	-1.41435	0.157877	0.221491	1.201115	0.184404	0.853817	-0.00088	0.35733	-0.00246	0.998036
IGSF3.O75054	-0.246266	0.1743	-1.41288	0.158369	0.008579	0.443531	0.019343	0.984581	-0.06916	0.12824	-0.53927	0.590132
TSR2.Q969E8	-0.255889	0.181143	-1.41264	0.158389	0.272464	0.440902	0.617969	0.537056	-0.12532	0.132181	-0.9481	0.343826
SNX9.A0A087WYU1	-0.385342	0.27293	-1.41187	0.158605	0.619566	0.703261	0.880989	0.379006	0.134641	0.20933	0.6432	0.52057
FUT9.Q9Y231	-0.21747	0.153859	-1.41344	0.158623	0.41926	0.383684	1.092721	0.276036	0.023613	0.115815	0.203889	0.83868
MAST4.O15021	-0.395394	0.280097	-1.41163	0.158675	-0.8145	0.702159	-1.16	0.246943	0.188325	0.209059	0.900823	0.368382
MPZL1.O95297	0.3042787	0.215561	1.411567	0.158736	0.117122	0.572258	0.204667	0.837977	0.285279	0.164891	1.730113	0.084681
RPS6KA1.Q15418	0.1922853	0.136252	1.411252	0.158787	0.141921	0.328381	0.432185	0.665908	0.242036	0.096745	2.501784	0.012872
UQCC2.V5IRT4	-0.264502	0.187426	-1.41124	0.158791	0.324572	0.499943	0.649218	0.516678	0.074507	0.148765	0.500836	0.616842
HMGB3.O15347	-0.166125	0.117736	-1.41099	0.158865	0.405566	0.326361	1.242692	0.214921	-0.53575	0.092449	-5.79506	1.68E-08
ETFB.P38117	-0.29153	0.206615	-1.41098	0.158866	0.394317	0.520088	0.758174	0.448923	0.043738	0.15484	0.282474	0.777769
FAM175A.A0A087WWJ9	-0.05	0.03543	-1.41121	0.159027	-0.03301	0.083724	-0.39424	0.693765	-0.00208	0.025641	-0.0813	0.935269
WDR24.Q96S15.2	0.2784545	0.197443	1.4103	0.159068	0.248423	0.477671	0.520072	0.603385	0.103838	0.142038	0.731055	0.465298
TBK1.Q9UHD2	-0.46279	0.328174	-1.4102	0.159099	0.238415	0.83101	0.286897	0.774382	-0.03757	0.247234	-0.15195	0.879329
CTU2.H3BSW6	0.2309493	0.163772	1.410187	0.159288	0.750533	0.448299	1.67418	0.095437	0.122008	0.131381	0.928658	0.354027
SLC5A6.Q9Y289	-0.196722	0.139479	-1.41041	0.159296	-0.088	0.414187	-0.21248	0.831935	0.063785	0.119751	0.532651	0.59482
GNAL.P38405	-0.104519	0.074139	-1.40977	0.159411	0.195899	0.185156	1.058025	0.291126	-0.1081	0.052377	-2.06383	0.040127
TUBB2A.Q13885	-0.339431	0.24089	-1.40907	0.159431	0.097466	0.635643	0.153335	0.878234	0.101136	0.189013	0.535078	0.59298
LRRC49.Q8IUZ0	-0.234226	0.166252	-1.40886	0.15957	0.267476	0.42782	0.625208	0.532353	-0.02184	0.127455	-0.17138	0.864054
OPALIN.Q96PE5	0.0827659	0.05877	1.408311	0.159656	0.114677	0.150412	0.76242	0.446389	0.003091	0.044786	0.069015	0.945022
WDFY1.Q8IWB7	0.3028568	0.215159	1.407593	0.159868	0.247639	0.551738	0.448835	0.653865	0.126267	0.164029	0.769784	0.442014
WDFY2.Q96P53	0.1934811	0.137439	1.407763	0.159906	0.303195	0.416324	0.728268	0.467078	0.129023	0.123369	1.045828	0.296572
CLCN3.P51790	0.3619325	0.257173	1.407351	0.15994	-1.19954	0.66838	-1.7947	0.073675	0.570716	0.197215	2.893873	0.004075
PSMC3.P17980	-0.526127	0.373921	-1.40705	0.160028	-0.59291	0.976354	-0.60727	0.544114	0.341419	0.289973	1.177416	0.239933
CASP9.P55211	0.2424002	0.172135	1.408197	0.160037	-0.62456	0.434619	-1.43703	0.152249	0.036786	0.132047	0.278581	0.78085
EPHX4.Q8IUS5	-0.248252	0.176447	-1.40695	0.160059	0.454346	0.43319	1.048837	0.29507	-0.16121	0.12877	-1.25192	0.211541
SDHAF2.Q9NX18	-0.165418	0.117582	-1.40684	0.160123	0.078479	0.317488	0.247187	0.804935	-0.08365	0.094618	-0.88404	0.377393
MESDC1.Q9H1K6	0.2277465	0.161894	1.406764	0.160154	-0.3154	0.393581	-0.80136	0.423572	0.027853	0.115952	0.240216	0.810331
PHPT1.Q9NRX4	0.1856239	0.131978	1.406475	0.160199	-0.05064	0.364464	-0.13894	0.889591	0.049081	0.108389	0.452823	0.650993
ITGAV.P06756	0.266141	0.189253	1.406272	0.16026	-0.38429	0.508485	-0.75576	0.450366	0.344071	0.150138	2.291692	0.022594
SLC39A12.Q504Y0	0.1427025	0.101484	1.406156	0.160312	-0.26223	0.26213	-1.00037	0.317936	0.26376	0.076039	3.468729	0.0006
ARHGAP18.Q8N392	0.1918984	0.136343	1.407464	0.160353	0.161861	0.35678	0.453671	0.650618	0.031601	0.113137	0.279314	0.780328

HIBCH.Q6NVY1	0.156549	0.111366	1.405719	0.160424	0.148761	0.302805	0.491275	0.623579	-0.05075	0.090068	-0.56342	0.573556
ATP5J.P18859	-0.229431	0.163284	-1.4051	0.160607	0.254001	0.455771	0.5573	0.577725	0.030938	0.13564	0.228091	0.819726
VPS33A.Q96AX1	-0.577428	0.41101	-1.4049	0.160667	-0.98414	1.050514	-0.93682	0.349583	0.481996	0.311752	1.546087	0.123104
ENSA.A6NMQ3	-0.242158	0.172393	-1.40469	0.160731	-0.33425	0.477748	-0.69964	0.484679	-0.28161	0.141332	-1.99251	0.047191
CACNB4.HOY476	0.3651344	0.260029	1.404206	0.160874	0.809266	0.658486	1.228979	0.220012	-0.02067	0.196361	-0.10525	0.916246
SSB.P05455	0.282097	0.200955	1.40378	0.161	-0.21213	0.475782	-0.44585	0.656017	-0.1757	0.14123	-1.24406	0.214416
CCDC50.Q8IVM0	-0.210637	0.150091	-1.4034	0.161113	0.389086	0.400767	0.970852	0.332379	-0.59323	0.11455	-5.17877	4.03E-07
POLRMT.O00411	-0.188147	0.134062	-1.40343	0.161122	0.06845	0.347114	0.197197	0.843806	-0.09036	0.103694	-0.87142	0.384216
CLTB.P09497.2	-0.336319	0.239707	-1.40304	0.161219	-0.79302	0.585814	-1.3537	0.176819	0.221803	0.174329	1.272327	0.204211
SNAP25.P60880	-0.226676	0.161664	-1.40214	0.16149	0.075067	0.416305	0.180318	0.857021	-0.10739	0.1237	-0.86814	0.385988
MRPS34.C9JJ19	-0.163944	0.117011	-1.4011	0.161864	0.447571	0.289756	1.544646	0.123561	-0.0581	0.084362	-0.68865	0.491615
TOLLIP.Q9HOE2	-0.46408	0.331315	-1.40072	0.161913	0.886178	0.878289	1.008982	0.31377	-0.06589	0.261678	-0.25181	0.801358
UTP20.O75691	-0.065023	0.046406	-1.40118	0.162012	0.025541	0.127124	0.200912	0.840952	-0.02707	0.03656	-0.74044	0.459821
CALU.O43852	0.2814633	0.201015	1.400209	0.162066	-0.28478	0.538801	-0.52854	0.597504	0.055392	0.160325	0.3455	0.729953
RHOG.P84095	0.1495256	0.106788	1.400207	0.162067	-0.07826	0.278351	-0.28114	0.778788	0.017098	0.082809	0.206475	0.836556
TWF2.Q6IBS0	-0.362413	0.258847	-1.40011	0.162096	-0.32003	0.659328	-0.48539	0.627739	0.262569	0.195645	1.342069	0.180556
CRK.P46108	0.4248769	0.303517	1.399847	0.162174	-0.05984	0.741958	-0.08066	0.935766	0.266579	0.220202	1.210613	0.226966
SGPP1.Q9BX95	0.3132319	0.223765	1.399827	0.16218	-0.15231	0.591358	-0.25756	0.796916	-0.24831	0.175371	-1.41594	0.157797
MRPL14.Q6P1L8	-0.174635	0.12479	-1.39943	0.162298	-0.16097	0.324741	-0.4957	0.620456	-0.11452	0.096424	-1.18766	0.235878
NSG1.P42857	-0.122526	0.087558	-1.39937	0.162368	-0.19568	0.23098	-0.84718	0.397599	-0.07979	0.068893	-1.15817	0.247757
TMC6.Q7Z403	0.1266036	0.090453	1.39966	0.162418	0.166441	0.227257	0.732391	0.464663	0.023099	0.067057	0.344465	0.730806
RBX1.P62877	0.1601886	0.11453	1.398661	0.16253	-0.81696	0.325812	-2.50746	0.012671	0.20607	0.097199	2.120083	0.034793
EPN1.Q9Y6I3	-0.314383	0.224906	-1.39784	0.162775	0.516232	0.568405	0.908212	0.364472	-0.46756	0.16722	-2.79609	0.005495
HCN1.O60741	-0.252073	0.180344	-1.39773	0.162808	-0.07397	0.456765	-0.16195	0.871453	-0.34495	0.134465	-2.56531	0.010779
AIF1L.Q9BQI0	0.1063417	0.076098	1.397437	0.162897	-0.32883	0.198001	-1.66077	0.097771	0.046748	0.059104	0.790944	0.429582
FER.P16591	0.2591766	0.185572	1.396634	0.163158	0.912704	0.51898	1.758651	0.079667	0.369154	0.150319	2.455801	0.01463
SLMAP.Q14BN4.3	0.5419326	0.388266	1.395778	0.163396	0.153106	0.97303	0.15735	0.875072	0.25801	0.2891	0.89246	0.372839
DLGAP4.Q9Y2H0.1	-0.184641	0.132173	-1.39696	0.163464	-0.29401	0.340462	-0.86356	0.388953	-0.42117	0.099625	-4.22762	3.72E-05
NDUFAB1.O14561	-0.125109	0.089695	-1.39483	0.163703	0.145584	0.236757	0.61491	0.539079	-0.01729	0.069324	-0.24948	0.803162
SPATS2L.Q9NUQ6	-0.183017	0.131267	-1.39423	0.163862	-0.94096	0.340876	-2.76041	0.006117	-0.15549	0.102263	-1.52051	0.129402
PIGBOS1.A0A0B4J2F0	-0.173872	0.124731	-1.39398	0.163939	0.375932	0.319967	1.174906	0.240934	-0.17054	0.094903	-1.797	0.073309
CAMSAP3.Q9P1Y5.2	-0.514894	0.369571	-1.39322	0.164167	1.050663	0.926048	1.134567	0.257433	-0.08426	0.276013	-0.30528	0.760357
MRPS18B.Q9Y676	-0.18216	0.130768	-1.393	0.164235	0.310815	0.329366	0.943678	0.346069	-0.22096	0.097315	-2.27056	0.02386
GJA9.MYCBP.A0A087WV05	0.2309195	0.165785	1.392888	0.164407	-0.54342	0.468563	-1.15975	0.247258	-0.07013	0.137716	-0.50922	0.611046

FAM195B.I3L2L5	-0.182907	0.131361	-1.39239	0.164418	-0.02092	0.371514	-0.0563	0.955137	-0.73996	0.102217	-7.23918	3.58E-12
MT1X.P80297	-0.059092	0.042431	-1.39266	0.164449	0.026354	0.10372	0.254083	0.79963	0.02172	0.031037	0.6998	0.484673
SMAP1.Q8IYB5	-0.350742	0.25209	-1.39134	0.164737	0.082352	0.629336	0.130856	0.895974	-0.14984	0.187028	-0.80117	0.423648
CTBP1.Q13363	-0.348399	0.25044	-1.39114	0.164795	0.910108	0.641355	1.419039	0.156892	-0.14879	0.191224	-0.7781	0.437101
PMVK.Q15126	0.1919076	0.137957	1.391068	0.164819	-0.07704	0.377062	-0.20433	0.838233	0.006824	0.112176	0.06083	0.951534
PNCK.Q6P2M8	-0.126306	0.090848	-1.39031	0.16505	0.284745	0.224547	1.26809	0.205717	-0.18645	0.066129	-2.81945	0.00512
SEC14L2.O76054	0.2126129	0.152944	1.390133	0.165102	-0.46445	0.395312	-1.17489	0.240939	0.099132	0.117725	0.842064	0.400401
KCNH1.O95259	-0.306721	0.220734	-1.38955	0.165279	-0.32823	0.590833	-0.55553	0.578931	0.292696	0.175062	1.671952	0.095543
GEMIN4.I3L2C7	0.2142949	0.1542	1.389722	0.165327	-0.92572	0.397378	-2.32957	0.020572	0.09586	0.115685	0.828634	0.408049
MTX3.Q5HYI7	-0.284536	0.204839	-1.38907	0.165424	-0.17667	0.529681	-0.33355	0.738947	-0.01865	0.157596	-0.11834	0.905871
KCNH5.Q8NCM2	-0.204013	0.146816	-1.38958	0.165845	-0.14852	0.357185	-0.41581	0.678072	0.098984	0.109838	0.901187	0.368764
SNRNP70.P08621.2	0.2975199	0.214446	1.38739	0.165936	-0.24633	0.492987	-0.49968	0.617657	-0.10768	0.146586	-0.7346	0.463137
EEF1B2.P24534	-0.30756	0.221876	-1.38618	0.166305	-0.38606	0.584733	-0.66024	0.509591	0.107266	0.173963	0.616601	0.537951
EFHD1.Q9BUP0	0.0921078	0.066451	1.386092	0.166332	-0.04007	0.183313	-0.21858	0.82712	0.044989	0.054477	0.825833	0.409534
CA2.P00918	0.1356498	0.097865	1.386087	0.166333	-0.17018	0.255804	-0.66527	0.506374	0.151977	0.075661	2.008659	0.04544
HMGNA4.O00479	0.1274844	0.091997	1.385751	0.166436	-0.38681	0.225853	-1.71265	0.087776	-0.19463	0.066593	-2.92263	0.003726
NCOR1.O75376	0.1682488	0.121384	1.386086	0.166458	-0.19622	0.320414	-0.61238	0.540824	-0.09138	0.093262	-0.97985	0.328079
FGFR1OP2.Q9NVK5.2	-0.397376	0.286859	-1.38527	0.166584	-0.25126	0.717528	-0.35017	0.726449	0.084965	0.213439	0.398076	0.690848
CRYZL1.O95825	-0.380444	0.274667	-1.38511	0.166631	-1.38823	0.712908	-1.94729	0.052403	0.225774	0.212985	1.060046	0.289949
TARSL2.A2RTX5	0.2903368	0.209753	1.384187	0.166914	0.013005	0.535866	0.024269	0.980654	0.065586	0.159367	0.411542	0.68096
IFIT2.P09913	0.116699	0.084305	1.38424	0.167008	-0.09191	0.218149	-0.4213	0.673882	0.049487	0.065235	0.758592	0.448776
SEC61A2.Q9H9S3	-0.338819	0.244847	-1.3838	0.167033	-1.37434	0.628112	-2.18805	0.029412	0.470436	0.186384	2.524012	0.012102
CDH4.P55283	-0.228837	0.165386	-1.38366	0.167076	0.151418	0.442948	0.341841	0.732702	-0.01096	0.131792	-0.08318	0.933764
PEF1.Q9UBV8	0.3270544	0.236417	1.383382	0.16716	-0.41083	0.602341	-0.68206	0.495713	0.278131	0.178623	1.557084	0.120471
MT.ATP8.P03928	0.1644019	0.11886	1.383161	0.167228	-0.04276	0.328427	-0.13019	0.896498	0.061971	0.09764	0.634688	0.5261
SURF4.O15260	0.1910015	0.138136	1.382706	0.167387	-0.4434	0.390887	-1.13435	0.257563	0.075582	0.113933	0.663391	0.507595
S100A10.P60903	0.1003183	0.072564	1.382486	0.167435	-0.24075	0.178783	-1.3466	0.179093	0.00323	0.05334	0.06056	0.951748
ARHGEF17.Q96PE2	-0.298701	0.216084	-1.38234	0.167481	0.438205	0.566413	0.773648	0.439728	0.144178	0.168462	0.855851	0.392741
TRAK1.C9JC32	0.2670158	0.193159	1.382366	0.167492	0.186447	0.493315	0.377947	0.705737	0.007063	0.148452	0.047575	0.962086
GSTCD.Q8NEC7	0.1562315	0.113003	1.382541	0.167575	0.128871	0.306766	0.420094	0.67477	-0.11669	0.091185	-1.27967	0.201824
GALT.P07902	0.182503	0.132074	1.381819	0.16766	0.181972	0.363346	0.500821	0.616868	0.228445	0.104966	2.176376	0.030315
RAB2A.P61019	-0.394189	0.285323	-1.38155	0.167721	0.316278	0.734753	0.430455	0.667163	-0.16276	0.218446	-0.74509	0.456784
MBOAT7.Q96N66	-0.227797	0.164922	-1.38124	0.167817	0.580097	0.421052	1.377732	0.16928	-0.28297	0.124606	-2.27088	0.02384
LDB3.O75112	0.1216136	0.088015	1.381743	0.16785	-0.07034	0.247035	-0.28474	0.77609	-0.11538	0.071419	-1.61558	0.107515

SPECC1.Q5M775	-0.386477	0.279846	-1.38104	0.16788	0.589447	0.713859	0.825719	0.409599	-0.87093	0.206759	-4.21228	3.32E-05
PSMA1.P25786	0.3837675	0.277953	1.380694	0.167985	-0.0887	0.678297	-0.13076	0.896046	0.318629	0.200974	1.585426	0.113889
SENP8.Q96LD8	0.2563621	0.185706	1.380474	0.168053	0.038067	0.442633	0.086002	0.931521	0.2758	0.130742	2.109503	0.035703
TESK1.Q15569	0.2392037	0.173134	1.381614	0.168125	-0.36357	0.436737	-0.83247	0.406208	0.01242	0.139818	0.088833	0.92931
ENDOD1.O94919	0.2311726	0.167501	1.380124	0.16816	0.387905	0.451675	0.858814	0.391107	0.289822	0.133514	2.17072	0.030711
WDR13.Q9H1Z4	-0.500524	0.362742	-1.37984	0.168249	-0.07543	0.971462	-0.07765	0.938159	0.023192	0.288993	0.08025	0.93609
MRPL1.Q9BYD6	-0.169286	0.122692	-1.37976	0.168271	0.122383	0.303709	0.402961	0.687255	-0.0783	0.090262	-0.86751	0.386335
GTPBP4.Q9BZE4	0.2780235	0.201498	1.379781	0.168352	0.367576	0.512398	0.717364	0.473769	0.353932	0.149558	2.366522	0.018662
C6.P13671	0.0955009	0.069215	1.379772	0.168407	-0.15104	0.187638	-0.80497	0.421591	0.123547	0.055307	2.233855	0.026364
TRIM33.E7EN20	0.2511622	0.182231	1.378267	0.168733	0.077511	0.423728	0.182927	0.854975	0.247408	0.125273	1.974952	0.049161
MGLL.Q99685	-0.178585	0.129609	-1.37787	0.168854	-0.09176	0.340558	-0.26944	0.787773	-0.17586	0.100828	-1.74419	0.082117
PYCARD.Q9ULZ3	0.1493908	0.108443	1.377593	0.16894	-0.13442	0.28757	-0.46745	0.640507	0.128067	0.085268	1.501938	0.134131
YRDC.Q86U90	-0.209096	0.151789	-1.37754	0.169111	0.32281	0.454666	0.709993	0.478384	0.079632	0.133149	0.598068	0.550347
CCDC92.Q53HC0	-0.341805	0.248288	-1.37665	0.169232	0.215792	0.612365	0.352392	0.724784	-0.36045	0.181051	-1.99087	0.047372
RGS4.P49798	-0.151809	0.110157	-1.37812	0.169292	-0.13829	0.295635	-0.46776	0.640556	-0.09508	0.083835	-1.13418	0.258326
NR2C2AP.Q86WQ0	0.2694955	0.195541	1.378205	0.169294	0.830344	0.482778	1.719932	0.087223	0.004749	0.149116	0.031845	0.974632
PTMA.H7C2N1	0.1263872	0.091857	1.375913	0.16946	-0.24184	0.257173	-0.9404	0.347747	-0.23268	0.075465	-3.08323	0.002232
TGFBRAP1.Q8WUH2	-0.532937	0.387344	-1.37588	0.16947	2.07724	0.977968	2.124037	0.034458	0.122951	0.292954	0.419694	0.675
GRAMD4.Q6IC98	-0.316767	0.230271	-1.37563	0.169548	-0.17082	0.640289	-0.26678	0.789815	-0.36272	0.189379	-1.91533	0.05637
DPYSL5.Q9BPU6	0.2575472	0.187253	1.375394	0.16962	-0.31949	0.467514	-0.68338	0.494876	0.166708	0.138859	1.200553	0.230841
PPP4R1.Q8TF05	0.2228336	0.161925	1.376151	0.169683	-0.52866	0.436375	-1.21149	0.227019	0.070269	0.133385	0.526812	0.59886
ME2.P23368	-0.263063	0.191303	-1.37511	0.169709	-0.63335	0.472755	-1.3397	0.181323	-0.08829	0.140954	-0.62635	0.531549
CRHBP.P24387	-0.188772	0.137302	-1.37486	0.169804	0.029591	0.343262	0.086205	0.93136	0.112171	0.102093	1.098714	0.272768
CALB1.P05937	0.1143068	0.083146	1.374767	0.169815	-0.00275	0.195876	-0.01402	0.988819	-0.01401	0.058264	-0.24053	0.810077
ULK1.O75385	-0.339158	0.246837	-1.37401	0.170048	1.303193	0.639952	2.036393	0.042561	0.024144	0.191639	0.125987	0.899824
SSBP1.Q04837	-0.27056	0.196922	-1.37395	0.170068	-0.76035	0.502592	-1.51286	0.131333	-0.23327	0.149477	-1.56055	0.119651
CNKS2.Q8WXI2.5	-0.479343	0.348893	-1.3739	0.170085	0.165868	0.912305	0.181813	0.855849	-0.34486	0.270701	-1.27396	0.203633
SNX21.Q5JZH3	0.220746	0.16057	1.374766	0.170154	0.242964	0.443846	0.547408	0.584697	0.140612	0.135347	1.038901	0.300081
DIDO1.Q9BTC0	0.2313378	0.168477	1.373112	0.170529	-0.17034	0.418078	-0.40743	0.684074	0.065141	0.125986	0.517051	0.60562
TMOD1.P28289	-0.30181	0.219908	-1.37244	0.170537	0.136218	0.560818	0.242892	0.80825	-0.28165	0.166081	-1.69585	0.090918
TSC22D1.Q15714	-0.250483	0.182529	-1.3723	0.170582	0.408873	0.472264	0.865772	0.387285	-0.48478	0.137939	-3.51447	0.000506
CHTOP.Q9Y3Y2	-0.137383	0.100115	-1.37225	0.170595	0.122455	0.27815	0.440247	0.660065	-0.18741	0.082083	-2.28316	0.023098
EIF5B.O60841	0.4932367	0.359506	1.371984	0.170679	0.233385	0.941344	0.247927	0.804355	-0.27098	0.279638	-0.96902	0.33329
NMD3.Q96D46	0.3242713	0.236379	1.371826	0.170728	-0.32063	0.608684	-0.52675	0.598742	0.114701	0.181036	0.63358	0.526822

MFN2.O95140	-0.389974	0.284334	-1.37154	0.170818	0.829919	0.722977	1.147919	0.251887	-0.27155	0.214977	-1.26316	0.20748
RPL23A.P62750	-0.314199	0.229112	-1.37138	0.170866	-0.45838	0.602322	-0.76102	0.447221	0.160481	0.179116	0.895962	0.370968
CIT.O14578.4	-0.266779	0.194583	-1.37102	0.170978	0.22697	0.467881	0.485101	0.627947	0.190246	0.138819	1.370459	0.171535
YWHAZ.P63104	-0.329556	0.240438	-1.37065	0.171094	0.10051	0.621987	0.161596	0.87173	-0.08503	0.184975	-0.45969	0.646057
LYNX1.A0A087WZS0	-0.086026	0.062778	-1.37032	0.171198	0.116973	0.158039	0.74015	0.459769	0.062515	0.046921	1.332327	0.183731
NXF1.Q9UBU9	0.3145675	0.229641	1.369824	0.171352	0.645212	0.545506	1.182777	0.237804	0.079599	0.162581	0.489595	0.624767
C7orf43.Q8WVR3	-0.396388	0.289404	-1.36967	0.1714	-0.26089	0.730037	-0.35736	0.721064	0.482941	0.215479	2.241244	0.025718
GFAP.P14136	0.074061	0.05408	1.36947	0.171462	0.023942	0.136148	0.175856	0.860522	0.049838	0.040405	1.233484	0.21833
MRPL45.A0A087X2D5	-0.157197	0.11481	-1.36919	0.171549	0.485839	0.297765	1.631619	0.103775	-0.09514	0.088795	-1.07148	0.284789
EPB41L2.H0Y5B0	0.167027	0.121952	1.369618	0.171617	-0.26508	0.345827	-0.76652	0.444117	-0.13597	0.099296	-1.36933	0.172171
TBC1D20.Q96BZ9	-0.23039	0.168261	-1.36924	0.171631	-0.36829	0.469847	-0.78385	0.433811	-0.17259	0.139248	-1.23945	0.216252
VPS4B.O75351	0.3666778	0.267956	1.368427	0.171788	0.496621	0.713595	0.695942	0.486986	0.025893	0.212443	0.121881	0.903072
X0.A0A096LP75	0.2675413	0.195516	1.368385	0.171801	-0.76577	0.494371	-1.54898	0.122406	-0.25924	0.146899	-1.76477	0.078586
TRIM9.Q9C026.4	-0.323395	0.236349	-1.3683	0.171829	-0.07928	0.603777	-0.13131	0.895614	-0.65934	0.175671	-3.75326	0.000208
MCTP1.Q6DN14	-0.362936	0.265431	-1.36735	0.172126	-0.15442	0.674056	-0.22909	0.818948	-0.28046	0.199903	-1.40299	0.161619
ELOVL1.Q9BW60	0.1168894	0.085477	1.3675	0.172165	-0.10182	0.226386	-0.44977	0.653234	0.041796	0.065959	0.633669	0.526829
GAN.Q9H2C0	0.336946	0.246522	1.366797	0.172298	0.57002	0.646131	0.882206	0.378349	-0.10285	0.192365	-0.53465	0.593272
SPG20.Q8N0X7	-0.339019	0.24807	-1.36663	0.172352	-0.22144	0.620068	-0.35712	0.721247	-0.02533	0.184492	-0.13731	0.890877
CD55.H7BY55	0.1143774	0.083715	1.366274	0.172462	0.149693	0.212117	0.705708	0.4809	0.00063	0.063152	0.009972	0.99205
MCCC2.Q9HCC0	0.3100846	0.227007	1.365972	0.172557	0.900248	0.618283	1.456046	0.146392	-0.15057	0.184358	-0.81671	0.414724
FAM89B.Q8N5H3	-0.204238	0.149572	-1.36548	0.17271	0.153124	0.382888	0.399917	0.689493	0.065179	0.113872	0.572387	0.567475
TIMM10B.Q9Y5J6	-0.333218	0.24417	-1.36469	0.172958	0.595848	0.65575	0.908652	0.36424	-0.35489	0.194291	-1.82661	0.068719
WDR44.Q5JSH3	0.4710456	0.345237	1.364413	0.173046	0.584109	0.904623	0.645693	0.518956	-0.4497	0.268076	-1.67749	0.094454
HSPH1.Q92598	-0.213225	0.156281	-1.36437	0.17306	-0.23913	0.376306	-0.63548	0.525587	0.110477	0.111841	0.987798	0.324022
PPP5C.H0YDU8	-0.411238	0.301444	-1.36423	0.173105	0.499041	0.791415	0.630569	0.528787	0.014424	0.235581	0.061227	0.951218
EDF1.O60869	0.222141	0.162834	1.36422	0.173107	0.138141	0.40651	0.339821	0.734221	0.105827	0.120803	0.87603	0.381692
CNOT3.O75175	0.3531048	0.258924	1.363738	0.173259	0.786215	0.625547	1.256845	0.209756	0.000146	0.186563	0.000785	0.999374
ERICH3.Q5RHP9	0.1821125	0.13356	1.363527	0.173345	-0.04052	0.340634	-0.11896	0.905387	0.082113	0.101404	0.80976	0.418716
PGD.P52209.2	0.3339521	0.244938	1.363414	0.173361	-0.24927	0.62578	-0.39833	0.690663	0.345781	0.185168	1.867396	0.06279
MCM4.P33991	0.1614686	0.118348	1.364353	0.173381	0.132735	0.284099	0.467214	0.640827	-0.01331	0.084863	-0.15686	0.875505
POLR2B.C9J2Y9	0.1978219	0.145135	1.363023	0.173484	0.12227	0.360497	0.339171	0.73471	-0.05872	0.107209	-0.54772	0.584278
FMN1.Q68DA7	-0.206356	0.151394	-1.36304	0.173509	0.58319	0.378999	1.538763	0.124927	0.210849	0.113039	1.865284	0.063128
MTA1.Q13330	0.2323606	0.170542	1.362487	0.173653	-0.2696	0.385721	-0.69896	0.485099	-0.23113	0.114083	-2.02595	0.043626
RPL30.P62888	-0.316483	0.232312	-1.36232	0.173706	0.230009	0.656636	0.350283	0.726364	-0.11326	0.19527	-0.58004	0.562311

FASN.P49327	0.277767	0.2039	1.362271	0.173721	-0.97644	0.498791	-1.95762	0.051172	0.588416	0.145507	4.043895	6.64E-05
PLXDC2.Q6UX71	0.1309517	0.096135	1.362162	0.173765	0.225665	0.266211	0.847692	0.397268	0.099612	0.079259	1.256783	0.209784
KIF3A.E9PES4	-0.433198	0.318033	-1.36212	0.17377	-0.1762	0.811097	-0.21724	0.828164	0.219366	0.240984	0.910295	0.363374
DNAJC30.Q96LL9	-0.163181	0.119803	-1.36208	0.173781	-0.38209	0.324024	-1.17921	0.239219	-0.04326	0.096576	-0.4479	0.654535
YY1.P25490	0.1292494	0.094936	1.361432	0.174084	0.073531	0.243262	0.302272	0.762681	-0.0165	0.0697	-0.23667	0.813095
RPL8.P62917	0.2968497	0.218209	1.360392	0.174314	-0.13959	0.528257	-0.26424	0.79177	0.440775	0.155158	2.840813	0.004798
SLC6A7.Q99884	-0.162978	0.119801	-1.36041	0.174371	0.202753	0.348432	0.581903	0.561104	-0.0073	0.1001	-0.07295	0.941897
RHEB.Q15382	-0.266765	0.196153	-1.35999	0.174442	0.452583	0.511666	0.884528	0.377097	-0.12646	0.152234	-0.83072	0.406769
CHCHD3.C9JRZ6	-0.387048	0.284862	-1.35872	0.174843	0.15613	0.760099	0.205407	0.837389	-0.10362	0.226055	-0.45839	0.64699
ANKHD1.Q8IWZ3	0.253881	0.186829	1.358896	0.174848	-0.67292	0.484298	-1.38948	0.165779	0.084447	0.14298	0.590622	0.555245
CNTNAP4.Q9COA0	0.1946521	0.143284	1.358506	0.174911	-0.38741	0.349738	-1.10772	0.268843	0.029395	0.104233	0.282007	0.778126
KSR2.Q6VAB6	-0.323229	0.23797	-1.35828	0.174984	0.470082	0.604686	0.7774	0.437516	0.005632	0.180058	0.031277	0.975069
VPS25.Q9BRG1	-0.357435	0.263155	-1.35827	0.174986	0.188713	0.665705	0.283478	0.777	-0.37069	0.196939	-1.88226	0.060738
OMG.P23515	0.1489131	0.109644	1.358145	0.175025	-0.11535	0.28088	-0.41066	0.681604	0.076423	0.083467	0.915606	0.360585
PRDX5.P30044	-0.334144	0.246108	-1.35771	0.175162	0.59145	0.640278	0.923739	0.356341	0.150578	0.190542	0.790265	0.429977
HACL1.Q9UJ83	-0.128406	0.094598	-1.35739	0.175284	-0.05311	0.23714	-0.22396	0.822938	-0.02245	0.07133	-0.31468	0.753221
JAKMIP3.Q5VZ66	-0.388011	0.286066	-1.35637	0.175589	0.023558	0.739319	0.031864	0.974601	0.441458	0.218501	2.020395	0.044202
NELFB.Q8WX92	0.2249883	0.16587	1.356417	0.175604	0.240368	0.461921	0.520366	0.603203	0.015543	0.13571	0.114528	0.908898
EBNA1BP2.Q99848	0.2786839	0.205425	1.356621	0.175622	0.367457	0.53592	0.685655	0.493534	0.223481	0.157098	1.422551	0.156051
SMC2.O95347	0.1428627	0.105217	1.357793	0.175643	0.250342	0.304447	0.822285	0.41208	0.071648	0.086419	0.829079	0.408236
GSKIP.Q9P0R6	-0.26757	0.197299	-1.35617	0.175653	-0.3438	0.488456	-0.70385	0.482057	0.105319	0.1453	0.724838	0.469098
SCAMP1.O15126	-0.264407	0.194998	-1.35595	0.175724	0.129076	0.505241	0.255474	0.798526	-0.16862	0.150011	-1.12407	0.261853
RPS9.P46781	0.3170995	0.233971	1.355294	0.175931	-1.05287	0.604912	-1.74053	0.082758	-0.10198	0.180735	-0.56423	0.573009
CASK.O14936	-0.090505	0.066685	-1.35721	0.175985	0.036474	0.200095	0.182283	0.85562	0.045704	0.057315	0.797425	0.426536
ATOX1.O00244	0.2117791	0.156315	1.354818	0.176082	-0.49046	0.434597	-1.12854	0.259966	-0.64272	0.124301	-5.1707	4.19E-07
HNRNPA3.P51991	0.2273878	0.167968	1.353753	0.176422	0.265562	0.405641	0.654672	0.513165	-0.06214	0.120703	-0.51481	0.607051
OSTC.A0A087WUD3	-0.109213	0.080623	-1.35461	0.176717	0.209775	0.186681	1.123711	0.262873	-0.05943	0.050207	-1.18376	0.238322
DYNLL2.Q96FJ2	-0.250961	0.185705	-1.3514	0.177175	0.249611	0.476044	0.524344	0.600414	-0.13535	0.141469	-0.95674	0.339442
POMGNT1.Q8WZA1	0.0825604	0.061005	1.353349	0.177234	-0.04775	0.146401	-0.32613	0.744765	-0.04205	0.042485	-0.98978	0.323826
ATP1A2.B1AKY9	-0.262506	0.194365	-1.35059	0.177434	-0.56956	0.515963	-1.10388	0.270501	0.017227	0.153788	0.112018	0.910882
NUDCD3.Q8IVD9	-0.249157	0.184491	-1.35051	0.177458	-0.21438	0.472888	-0.45335	0.650616	-0.18784	0.140318	-1.33871	0.181646
EIF3K.Q9UBQ5	0.3791221	0.280732	1.350476	0.177469	-1.1775	0.695259	-1.69361	0.091343	0.358087	0.206784	1.731692	0.084323
TRIM36.Q9NQ86	-0.258538	0.191479	-1.35022	0.177552	-0.2959	0.500805	-0.59085	0.555052	-0.00568	0.149064	-0.03812	0.969616
TMEM194A.O14524	0.2396197	0.177238	1.351965	0.177681	-0.37297	0.517264	-0.72104	0.472009	0.06557	0.15029	0.436291	0.663253

PITPNC1.A0A0C4DGPO	-0.132521	0.098145	-1.35025	0.177693	0.273435	0.260542	1.049483	0.294965	-0.13041	0.076368	-1.7076	0.088946
HMCES.E7EMP6	-0.233583	0.172977	-1.35037	0.177776	0.480042	0.471676	1.017736	0.309964	-0.15081	0.140746	-1.07148	0.285174
GNB1.F6UT28	-0.262099	0.194391	-1.34831	0.178166	0.389136	0.481142	0.808776	0.419264	0.287475	0.142349	2.01951	0.044294
TOM1L1.O75674.2	-0.193087	0.14324	-1.348	0.178316	-0.66897	0.367767	-1.819	0.069961	0.137824	0.112831	1.22151	0.222903
LSM2.Q9Y333	0.2788584	0.206894	1.347832	0.178318	0.323305	0.501484	0.644696	0.519601	0.142722	0.149062	0.957463	0.33908
CDH8.P55286	-0.203976	0.151348	-1.34773	0.178352	-0.1307	0.379654	-0.34426	0.730887	-0.22229	0.112254	-1.98028	0.048556
CRIP2.P52943	-0.177825	0.131985	-1.34731	0.178485	-0.50069	0.325226	-1.53952	0.124698	-0.3231	0.095369	-3.38787	0.000795
SYTL5.Q8TDW5	0.2005452	0.148774	1.347989	0.178489	0.292247	0.400423	0.729846	0.46623	-0.03715	0.120957	-0.30717	0.758996
GPR155.Q7Z3F1	0.1843754	0.136869	1.347098	0.178665	-0.10929	0.349126	-0.31304	0.754499	-0.01827	0.101279	-0.18036	0.857008
MROH1.E9PHY8	-0.269589	0.200222	-1.34645	0.178763	0.20767	0.523023	0.397057	0.691598	-0.15721	0.155373	-1.01181	0.312418
UBE2N.P61088	-0.358302	0.2662	-1.34599	0.178911	0.907943	0.645452	1.406678	0.160524	0.025556	0.192617	0.13268	0.894533
ARMC6.Q6NXE6	-0.231097	0.171709	-1.34586	0.178952	0.777104	0.447646	1.735979	0.083561	-0.13509	0.133592	-1.01118	0.312721
DDX5.P17844	0.2183346	0.162249	1.34568	0.179011	0.137527	0.388738	0.353778	0.723746	-0.05179	0.115629	-0.44791	0.654532
RPP25L.Q8N5L8	-0.227486	0.16883	-1.34743	0.179134	0.329285	0.365732	0.900345	0.369419	-0.2924	0.109489	-2.67062	0.00843
TMEM231.Q9H6L2	-0.205604	0.152791	-1.34566	0.179293	0.740435	0.421986	1.754642	0.080725	-0.25285	0.126626	-1.99682	0.047089
AADAT.Q8N5Z0	-0.208513	0.155011	-1.34514	0.179306	-0.52966	0.391023	-1.35454	0.17674	0.019188	0.113805	0.168602	0.866241
ENO3.P13929	0.0885862	0.06589	1.344448	0.179408	-0.33909	0.178456	-1.90013	0.058343	0.105897	0.053056	1.995953	0.046814
SHARPIN.Q9H0F6	0.2124475	0.158033	1.344325	0.179571	-0.07931	0.428633	-0.18504	0.85334	0.135156	0.131245	1.029805	0.304044
SEC22A.Q96IW7	-0.202243	0.150423	-1.3445	0.179594	0.592935	0.427285	1.387681	0.166577	-0.01217	0.122315	-0.09951	0.920821
SLC25A15.Q9Y619	-0.151135	0.112374	-1.34493	0.179594	0.239408	0.283762	0.843695	0.399828	0.005449	0.081859	0.06657	0.946989
TBC1D9.Q6ZT07	0.2387621	0.177651	1.343993	0.179666	-0.61094	0.496035	-1.23165	0.219175	0.187757	0.149836	1.253082	0.211285
GGA2.Q9UJY4	-0.257686	0.191807	-1.34347	0.179725	-0.1939	0.486475	-0.39859	0.690471	-0.22701	0.144179	-1.57448	0.116396
TPRKB.Q9Y3C4	-0.144628	0.10768	-1.34313	0.179876	0.702501	0.275374	2.551077	0.011256	-0.07862	0.079397	-0.99023	0.322894
GPR123.Q86SQ6.1	-0.240204	0.178879	-1.34283	0.179931	0.10624	0.463583	0.229171	0.818887	-0.52677	0.134635	-3.91253	0.000112
NDUFA9.F5GY40	-0.103445	0.077004	-1.34338	0.180176	-0.10424	0.173137	-0.60205	0.547896	-0.01463	0.050772	-0.28815	0.773565
CTNNAL1.Q9UBT7	0.0792556	0.059054	1.342095	0.180292	0.112497	0.151465	0.742725	0.458314	0.012157	0.045569	0.266774	0.789853
OXCT1.P55809	-0.217533	0.162131	-1.34171	0.180294	0.596721	0.43501	1.371741	0.171136	-0.05178	0.129767	-0.39904	0.69014
DNAJC27.Q9NZQ0	-0.195156	0.145386	-1.34232	0.180294	0.770548	0.371027	2.076798	0.038907	-0.0882	0.107896	-0.81741	0.414523
STXBP5L.E9PFI2	0.1056079	0.078638	1.342963	0.180507	0.166087	0.182358	0.910775	0.363979	-0.03241	0.049065	-0.66045	0.510049
PPA2.Q9H2U2	0.2380164	0.177487	1.341034	0.180514	0.207791	0.498173	0.417107	0.676889	-0.03099	0.148229	-0.20908	0.834526
SEZ6L2.A0A087WYLS	-0.395209	0.294728	-1.34093	0.180549	0.575719	0.774835	0.743021	0.458032	0.139558	0.230569	0.605275	0.545439
RBM14.Q96PK6	0.2561102	0.191001	1.340887	0.180561	-0.26427	0.465415	-0.56782	0.570567	-0.23966	0.137854	-1.73852	0.083112
FAAH.O00519	0.1464953	0.109274	1.340624	0.180646	0.41003	0.273358	1.499972	0.134639	0.04515	0.081574	0.553488	0.580328
WDR11.Q9BZH6	-0.287494	0.214448	-1.34062	0.180647	0.210253	0.548623	0.383238	0.701806	0.158106	0.162997	0.969995	0.332805

ACADSB.P45954	-0.149579	0.11158	-1.34055	0.18067	0.177352	0.2941	0.603034	0.546927	-0.23109	0.086551	-2.66997	0.007986
SDK2.Q58EX2	-0.240193	0.17918	-1.34051	0.1807	-0.79575	0.468393	-1.6989	0.090375	-0.06669	0.138951	-0.47993	0.631625
TUBB1.Q9H4B7	0.0601892	0.04491	1.340205	0.180782	0.053732	0.118843	0.45213	0.651491	-0.04142	0.035287	-1.17391	0.241333
BOD1.Q96IK1	-0.198638	0.148152	-1.34077	0.180815	-0.37917	0.401006	-0.94554	0.34538	-0.50846	0.113877	-4.46499	1.26E-05
DDX17.Q92841	0.2920933	0.218001	1.33987	0.180891	0.01046	0.494517	0.021152	0.983138	0.098602	0.147004	0.670742	0.502884
PPP3CA.Q08209	-0.234532	0.175162	-1.33894	0.181193	-0.00559	0.433741	-0.0129	0.989719	0.001014	0.12903	0.007856	0.993737
TCEB2.Q15370	-0.395599	0.295476	-1.33885	0.181222	-0.7704	0.726593	-1.06029	0.289839	-0.23783	0.216119	-1.10045	0.27199
STOX2.Q9P2F5	-0.174656	0.130413	-1.33925	0.181309	-0.52852	0.332904	-1.5876	0.113726	-0.10224	0.099552	-1.02702	0.305473
POTEF.A5A3E0	-0.062971	0.047021	-1.33923	0.18136	0.021487	0.138137	0.155551	0.87653	-0.00626	0.040612	-0.15416	0.877623
RMDN3.Q96TC7	-0.325383	0.243112	-1.33841	0.181367	0.330404	0.608521	0.542963	0.587546	-0.20219	0.180746	-1.11863	0.264164
SNAP23.O00161	0.20217	0.15107	1.338254	0.181417	-0.03879	0.375596	-0.10328	0.91781	-0.09601	0.111602	-0.86026	0.390308
EEF1E1.O43324	0.2717974	0.203138	1.337991	0.181503	-0.58916	0.519407	-1.1343	0.257547	0.12759	0.154665	0.824944	0.410038
RRBP1.Q9P2E9.2	0.2398444	0.179282	1.337806	0.181563	-0.50854	0.478562	-1.06264	0.288771	-0.04591	0.142599	-0.32196	0.747702
OXR1.Q8N573	-0.314324	0.235057	-1.33722	0.181754	0.057357	0.594758	0.096438	0.923235	-0.05571	0.176904	-0.3149	0.753047
STXBP5L.Q9Y2K9	-0.360682	0.269812	-1.33679	0.181894	0.87763	0.704568	1.245629	0.213841	0.197376	0.209821	0.940687	0.347598
GOLGA3.Q08378	-0.411363	0.307775	-1.33657	0.181965	0.117974	0.785807	0.150131	0.880759	-0.05183	0.233754	-0.22174	0.824665
LAMA1.P25391	0.1491035	0.111633	1.335658	0.182316	-0.14881	0.27572	-0.53971	0.589825	0.127734	0.079725	1.602179	0.110231
TBC1D13.Q9NVG8	-0.314191	0.235304	-1.33526	0.182396	-0.84289	0.593633	-1.41989	0.156645	-0.1833	0.176862	-1.03641	0.30082
KIAA1217.Q5T5P2.2	-0.357771	0.267948	-1.33523	0.182405	0.185587	0.692912	0.267837	0.789003	-0.33628	0.205266	-1.63825	0.102384
N6AMT1.B2RA97	0.1538117	0.115217	1.334977	0.182655	0.12845	0.31508	0.407675	0.683876	0.006118	0.094776	0.064554	0.948583
SH3BP5L.Q7L8J4	-0.255862	0.191771	-1.33421	0.182739	-0.22834	0.509995	-0.44772	0.654666	-0.28212	0.150915	-1.86937	0.062514
GBAS.O75323	-0.228775	0.171503	-1.33394	0.182825	0.210168	0.449843	0.467203	0.640683	0.094827	0.133759	0.708941	0.478894
BCR.P11274	-0.414492	0.310746	-1.33386	0.182852	-0.38204	0.799099	-0.47808	0.632928	-0.2526	0.237372	-1.06415	0.288087
FXYD6.Q9H0Q3	-0.187524	0.140605	-1.33369	0.182907	0.002612	0.34687	0.007529	0.993997	-0.27928	0.101961	-2.73911	0.006517
PHACTR3.Q96KR7.4	-0.252638	0.189543	-1.33288	0.183174	0.048084	0.489585	0.098215	0.921825	-0.70702	0.14	-5.05016	7.55E-07
MINK1.Q8N4C8.3	-0.31941	0.239749	-1.33227	0.183374	0.266433	0.60862	0.437765	0.661861	-1.09122	0.170175	-6.41233	5.34E-10
CEND1.Q8N111	-0.274273	0.205871	-1.33226	0.183378	0.257636	0.564903	0.456072	0.648657	0.181443	0.167789	1.081376	0.28037
EPHA7.Q15375	0.2075941	0.155849	1.332019	0.183456	0.414664	0.414725	0.999855	0.31816	0.040148	0.123551	0.324954	0.745435
CHL1.O00533	-0.293144	0.220098	-1.33188	0.183502	0.457478	0.558602	0.81897	0.413433	0.037267	0.166341	0.22404	0.822874
AACS.Q86V21	-0.155292	0.1166	-1.33184	0.183516	-1.25301	0.291813	-4.2939	2.35E-05	0.136164	0.089018	1.529627	0.127129
FUCA2.Q9BTY2	-0.121311	0.091121	-1.33132	0.18381	-0.30113	0.217075	-1.3872	0.166574	-0.02232	0.064559	-0.3457	0.729848
TAOK1.Q7L7X3	-0.532382	0.400179	-1.33036	0.184002	0.77818	0.976641	0.796792	0.426182	-0.80326	0.28723	-2.79657	0.005487
GNAS.P63092	0.343615	0.258323	1.330178	0.184061	0.333639	0.695043	0.480027	0.631547	0.275961	0.206245	1.338027	0.181868
ABCC9.O60706	-0.201584	0.151433	-1.33117	0.184263	0.23688	0.394718	0.600126	0.549226	-0.06695	0.115346	-0.58039	0.562424

GCC2.Q8IWJ2	-0.273904	0.206071	-1.32917	0.184393	0.147804	0.556747	0.265477	0.790818	-0.0124	0.16564	-0.07484	0.940389
RUFY3.Q7L099.2	-0.198558	0.149303	-1.3299	0.184407	0.100001	0.420192	0.237989	0.812114	0.014296	0.119236	0.119892	0.904679
PLA2G16.P53816	0.0882841	0.066427	1.329034	0.184458	0.022432	0.1698	0.13211	0.894986	0.031128	0.050377	0.617908	0.537103
SRSF3.P84103	0.246492	0.18556	1.328367	0.184658	-0.1276	0.414986	-0.30748	0.758682	0.139126	0.123217	1.129116	0.259722
LZIC.Q8WZA0	0.2559821	0.192715	1.328292	0.184683	-0.49603	0.507513	-0.97738	0.329142	0.04931	0.151183	0.326163	0.744521
MLF2.Q15773	-0.217537	0.164018	-1.3263	0.185341	-0.1522	0.460814	-0.33029	0.741402	-0.41609	0.135056	-3.08089	0.002249
ANXA3.P12429	-0.161978	0.122162	-1.32593	0.185464	0.142926	0.314144	0.454969	0.64945	0.139376	0.093148	1.496292	0.135595
DENR.O43583	-0.326763	0.246475	-1.32574	0.185525	0.052998	0.59756	0.088691	0.929385	-0.09722	0.17768	-0.54714	0.584678
FCHO1.O14526	-0.217179	0.163858	-1.32541	0.185636	0.047424	0.407129	0.116484	0.907344	0.074107	0.121043	0.612233	0.540832
MYH10.P35580.2	0.2143476	0.16173	1.325338	0.185697	-1.02303	0.392775	-2.60462	0.00967	0.055713	0.116749	0.477208	0.633572
RPLP1.P05386	-0.127676	0.096308	-1.3257	0.185807	0.057044	0.261104	0.218474	0.82727	-0.08618	0.075618	-1.13961	0.255733
RABGAP1L.Q5R372	0.2526479	0.190739	1.324577	0.185912	0.124892	0.489492	0.255146	0.798779	0.041978	0.145611	0.288287	0.77332
ANAPC7.Q9UJX3	0.1806798	0.136436	1.324284	0.186009	0.187736	0.326826	0.574422	0.566099	0.211805	0.09653	2.194185	0.028964
CARM1.Q86X55	-0.394592	0.298088	-1.32374	0.18619	-0.55594	0.758659	-0.73279	0.464238	0.19989	0.225598	0.886048	0.376279
VAT1.Q99536	0.1934144	0.14614	1.323484	0.186275	-0.00264	0.393551	-0.0067	0.994659	0.084953	0.116975	0.726252	0.468232
PCDH9.B7ZM79	-0.402273	0.303975	-1.32338	0.18631	-0.30561	0.723444	-0.42244	0.672996	-0.33469	0.214433	-1.5608	0.119591
VMA21.Q3ZAQ7	-0.287902	0.217626	-1.32292	0.186461	-0.33132	0.548076	-0.60451	0.545945	-0.87687	0.155351	-5.64445	3.74E-08
NDEL1.Q9GZM8	-0.393102	0.297182	-1.32276	0.186514	-0.02566	0.735351	-0.03489	0.972191	-0.18906	0.218491	-0.86531	0.387537
JAKMIP2.Q96AA8	-0.395656	0.299154	-1.32258	0.186574	-0.53035	0.74063	-0.71608	0.474478	-0.27275	0.219962	-1.23999	0.215917
HNRNPH2.P55795	0.3428818	0.259373	1.321963	0.18678	0.446509	0.61724	0.723396	0.469982	0.186704	0.183467	1.017642	0.309642
NPM2.Q86SE8	0.1576023	0.119257	1.321538	0.186962	-0.07578	0.300598	-0.25209	0.801146	-0.06392	0.090046	-0.70988	0.478343
GOLIM4.O00461	0.1773564	0.13423	1.321285	0.187006	0.120022	0.339332	0.3537	0.723804	0.002857	0.100966	0.028293	0.977446
ABHD11.Q8NFV4	-0.168778	0.127752	-1.32114	0.187053	0.424766	0.327604	1.296584	0.195739	0.090959	0.097584	0.932116	0.352002
PEX19.P40855	-0.302075	0.228649	-1.32113	0.187057	0.203421	0.575864	0.353245	0.724145	-0.62219	0.16766	-3.71101	0.000245
CNTN3.Q9P232	-0.236659	0.179315	-1.31979	0.187503	-0.4001	0.45279	-0.88363	0.377581	0.090429	0.134769	0.670991	0.502726
PLEKHO2.Q8TD55	-0.190196	0.144176	-1.3192	0.187702	-0.18639	0.390904	-0.47681	0.63383	-0.57982	0.111571	-5.19684	3.68E-07
SBF2.Q86WG5	0.3492294	0.265082	1.317441	0.188289	-0.92633	0.689291	-1.34388	0.179969	0.060777	0.205619	0.295579	0.767749
ANKH.Q9HCJ1	0.2464645	0.187155	1.3169	0.188471	-0.85154	0.495757	-1.71766	0.086857	0.158544	0.147905	1.071932	0.284584
SPATA33.J3KRC8	-0.221579	0.16823	-1.31712	0.188471	0.002797	0.429264	0.006516	0.994806	-0.14174	0.127093	-1.11525	0.265702
UQCRC1.P31930	-0.311934	0.236877	-1.31686	0.188482	0.483748	0.635763	0.760894	0.447299	0.059501	0.189275	0.314363	0.753457
OGFOD2.Q6N063	0.1928902	0.146468	1.316942	0.188792	0.205712	0.387411	0.530992	0.596008	-0.02006	0.122096	-0.16426	0.86969
SMYD2.Q9NRG4	0.1231487	0.093696	1.31434	0.18933	0.031055	0.222043	0.139861	0.888861	-0.04966	0.065996	-0.75241	0.452374
COL4A2.P08572	0.1070014	0.081417	1.31424	0.189363	0.08815	0.198417	0.444266	0.65716	-0.0105	0.059041	-0.17789	0.858923
ETFA.P13804	-0.259459	0.197433	-1.31416	0.18939	0.859942	0.49068	1.752553	0.080667	-0.00692	0.146689	-0.04718	0.962397

ITGB8.P26012	0.2138362	0.162738	1.313994	0.189446	-0.48218	0.434449	-1.10987	0.267917	0.15658	0.129192	1.211997	0.226437
EMC4.Q5J8M3	0.3176167	0.241878	1.313129	0.189757	-0.49992	0.619291	-0.80725	0.420169	0.110499	0.180333	0.612751	0.54051
KCNJ9.Q92806	0.1408414	0.107265	1.313027	0.189808	-0.14028	0.287537	-0.48788	0.626003	0.071248	0.085288	0.83538	0.404187
CIC.I3L2J0	0.1820102	0.138686	1.312395	0.190014	0.252508	0.387127	0.65226	0.514738	-0.37708	0.113673	-3.31724	0.001022
RNF14.Q9UBS8	0.1693754	0.1291	1.311968	0.190145	0.004393	0.346017	0.012695	0.98988	0.155257	0.101802	1.525084	0.128292
RCSD1.Q6JBY9	-0.183827	0.14014	-1.31173	0.190208	-0.27136	0.366694	-0.74001	0.459851	-0.02588	0.109171	-0.2371	0.812736
GDA.Q9Y2T3	-0.170001	0.129632	-1.31141	0.190316	-0.00457	0.302546	-0.0151	0.987961	-0.05127	0.089955	-0.5699	0.569161
MT.ND6.P03923	0.1646137	0.125629	1.310322	0.190703	0.202851	0.326682	0.620941	0.535107	-0.06521	0.097344	-0.66986	0.50346
DENND4B.O75064	-0.408926	0.312137	-1.31009	0.190764	-0.63873	0.786103	-0.81252	0.417117	-0.46257	0.232622	-1.9885	0.047636
PNMAL1.Q86V59	0.1933902	0.147636	1.309909	0.190823	-0.01978	0.382984	-0.05165	0.958844	-0.20706	0.113323	-1.8272	0.06863
LAMB1.P07942	0.1436712	0.109696	1.309724	0.190886	-0.45659	0.266034	-1.71628	0.08711	0.02679	0.079501	0.336979	0.736361
DES.P17661	0.0430007	0.032839	1.309426	0.191058	0.046702	0.088254	0.529178	0.59711	-0.02893	0.025722	-1.12478	0.261666
COMMD4.Q9H0A8	0.3143527	0.240207	1.308672	0.191282	-0.54766	0.615049	-0.89043	0.373964	0.281579	0.182006	1.547082	0.122923
RPUSD4.Q96CM3	0.1973904	0.150761	1.309293	0.191396	-0.01679	0.339894	-0.04939	0.960657	0.085691	0.106588	0.80395	0.42239
TFE3.P19532	0.2697774	0.206208	1.308275	0.191417	0.252727	0.566109	0.446427	0.655619	0.096813	0.167942	0.57647	0.56474
PCNT.O95613	0.2598498	0.19865	1.30808	0.191443	-0.07356	0.545364	-0.13488	0.892791	0.175844	0.161933	1.0859	0.278367
R3HDM2.B5MCU0	-0.18328	0.140164	-1.30761	0.191601	-0.29382	0.367489	-0.79954	0.42459	-0.18389	0.108935	-1.68806	0.092406
RFK.Q969G6	-0.217803	0.166579	-1.3075	0.191638	-0.14303	0.419831	-0.3407	0.733564	-0.07579	0.124841	-0.60712	0.544216
LAMP1.P11279	0.2083036	0.15935	1.307205	0.191739	-0.62196	0.414341	-1.50108	0.134352	0.235179	0.122983	1.912291	0.05676
KCNB1.Q14721	-0.233482	0.178622	-1.30713	0.191785	-0.53138	0.470359	-1.12973	0.259502	-0.45549	0.134626	-3.38338	0.000812
FZD7.O75084	0.120084	0.091853	1.307348	0.191999	-0.32015	0.251657	-1.27217	0.204735	0.088287	0.073203	1.206067	0.229162
ARHGAP35.Q9NRY4	-0.456902	0.349733	-1.30643	0.192002	0.502205	0.888392	0.565297	0.57228	0.001649	0.264417	0.006235	0.995029
TPD52L1.J3KNE7	-0.126009	0.096496	-1.30585	0.1922	-0.14239	0.238217	-0.59774	0.55045	-0.15859	0.070332	-2.25491	0.024837
MKL1.W0Z7M9	-0.20419	0.156377	-1.30575	0.192269	0.001593	0.38766	0.004109	0.996724	0.044483	0.116519	0.381769	0.702911
ACYP2.P14621	0.1928357	0.147718	1.305432	0.192342	-0.66189	0.372888	-1.77505	0.076871	0.24485	0.110619	2.213448	0.027595
KCNJ11.Q14654	-0.16397	0.125615	-1.30534	0.192499	0.329614	0.333396	0.988658	0.323746	0.052583	0.10305	0.510263	0.610298
SLC7A2.P52569	0.0887367	0.068008	1.304801	0.192574	0.027291	0.178057	0.153268	0.878289	0.113608	0.052854	2.149459	0.032392
NLGN2.Q8NFZ4	-0.338619	0.259576	-1.30451	0.192656	0.939393	0.636352	1.476215	0.140901	-0.10999	0.189865	-0.5793	0.562807
CARNS1.A5YM72.3	0.0721457	0.05532	1.304156	0.192776	0.0188	0.142334	0.132084	0.895004	-0.00362	0.042343	-0.08547	0.931946
ABAT.P80404	-0.263313	0.201954	-1.30383	0.192887	0.918685	0.516278	1.779439	0.076148	-0.011	0.154365	-0.07123	0.943261
SRP72.O76094	0.5129332	0.393519	1.303453	0.193015	-0.70624	1.002447	-0.70451	0.481642	0.290789	0.297992	0.975829	0.32991
ITPR1.Q14643.2	0.209437	0.160719	1.303123	0.193128	-0.16307	0.348296	-0.46819	0.639979	0.066001	0.103581	0.637191	0.524471
GLA.P06280	0.2569041	0.197197	1.302778	0.193308	-0.00315	0.516172	-0.00611	0.99513	0.205442	0.155589	1.320415	0.187763
FRS3.O43559	-0.267669	0.205484	-1.30263	0.193327	0.668461	0.533327	1.253381	0.211056	-0.23901	0.161689	-1.47823	0.140411

TBC1D4.O60343	0.392245	0.301177	1.302372	0.193384	0.745969	0.796166	0.936952	0.349513	0.370499	0.236245	1.568281	0.117836
PAK2.Q13177	0.3705285	0.284537	1.302218	0.193437	-0.12365	0.736846	-0.16781	0.866843	-0.09539	0.219142	-0.4353	0.663645
C12orf43.F5H7W8	0.1601646	0.122915	1.303055	0.193464	-0.11669	0.297289	-0.39251	0.695082	-0.13404	0.089446	-1.49852	0.135513
DCTD.P32321	0.2219773	0.170474	1.302119	0.193531	-0.13016	0.4668	-0.27883	0.780581	0.064526	0.136741	0.471886	0.637374
CIRBP.Q14011	-0.076402	0.058687	-1.30184	0.193565	0.082075	0.154388	0.531614	0.595374	-0.21367	0.044317	-4.82144	2.24E-06
HEPH.A0A0C4DG76	0.1521321	0.11685	1.30194	0.19364	-0.14892	0.28067	-0.5306	0.596137	-0.04406	0.084003	-0.52445	0.600403
MTMR3.Q13615	0.0824543	0.063364	1.30127	0.193801	-0.08158	0.16222	-0.50292	0.615401	-0.01436	0.047322	-0.30344	0.76177
CLINT1.Q14677	-0.396745	0.305162	-1.30011	0.194157	0.095903	0.806638	0.118892	0.905438	-1.00585	0.233067	-4.31573	2.14E-05
GALC.P54803	0.100122	0.077026	1.299848	0.194247	-0.0209	0.205564	-0.10167	0.919087	-0.00746	0.061151	-0.12201	0.902967
NDUFS1.P28331	-0.227211	0.174812	-1.29974	0.194284	0.512953	0.462468	1.109165	0.268219	0.027673	0.13784	0.20076	0.841018
C15orf57.Q9BV29	0.1402549	0.107892	1.299954	0.194347	-0.11819	0.282639	-0.41815	0.676193	-0.02091	0.083396	-0.25069	0.802258
PBXIP1.Q96AQ6	0.1542042	0.118704	1.299065	0.194516	-0.09917	0.314546	-0.31526	0.752773	0.059652	0.093526	0.637814	0.524066
SLC13A5.Q86YT5	0.1215273	0.09363	1.297958	0.194896	0.190804	0.26159	0.729401	0.466307	-0.04958	0.077834	-0.63695	0.524627
PTPRN.Q16849	-0.192619	0.148434	-1.29768	0.194991	0.152552	0.384569	0.396685	0.691873	-0.12643	0.114206	-1.10705	0.269131
ADCY1.Q08828	-0.285764	0.220226	-1.2976	0.19502	1.067095	0.546867	1.951287	0.051923	-0.27487	0.162933	-1.68699	0.09261
CD276.Q5ZPR3	0.2268344	0.174642	1.298857	0.195047	0.211538	0.610339	0.346591	0.729293	-0.27153	0.184659	-1.47046	0.143137
CLCN4.P51793	0.2423958	0.186846	1.2973	0.195121	-0.56351	0.478571	-1.17748	0.239908	0.266468	0.141879	1.878129	0.061302
MACROD2.A1Z1Q3	0.2563558	0.197697	1.296709	0.195325	-0.52541	0.489059	-1.07433	0.283512	-0.16882	0.145441	-1.16072	0.24665
IGF1R.C9J5X1	0.2717207	0.209653	1.296047	0.195572	-0.42675	0.547926	-0.77885	0.436681	0.170272	0.163157	1.043605	0.297503
KCTD16.Q68DU8	-0.263154	0.203064	-1.29592	0.195597	-0.20653	0.474309	-0.43543	0.66355	-0.07842	0.141071	-0.55592	0.578665
LIN7C.Q9NUP9	0.2746123	0.212041	1.295089	0.195883	0.875165	0.520519	1.681333	0.093705	0.342598	0.154328	2.21994	0.027146
TPD52.P55327.5	-0.164869	0.127289	-1.29523	0.195918	0.289452	0.346014	0.836532	0.403579	-0.29333	0.098091	-2.9904	0.003038
OLFM2.O95897	-0.22077	0.170497	-1.29486	0.19596	-0.04882	0.426337	-0.11452	0.9089	-0.15042	0.126542	-1.18873	0.235455
HNRNPUL1.Q9BUJ2	0.2770766	0.21402	1.294632	0.19604	0.202191	0.506275	0.399369	0.689896	-0.20285	0.150205	-1.35047	0.177849
MYO18A.Q92614	0.5548247	0.428559	1.294628	0.196041	0.516972	1.081301	0.478102	0.632915	0.606711	0.319936	1.896352	0.058843
MACF1.Q9UPN3	-0.267698	0.206812	-1.2944	0.196136	-0.11566	0.52941	-0.21847	0.827213	-0.15213	0.156127	-0.97439	0.33065
OPHN1.O60890	-0.378697	0.292591	-1.29429	0.196159	-1.22597	0.727269	-1.68572	0.092856	0.019167	0.217336	0.088192	0.929781
DERL1.E5RGY0	-0.083472	0.064473	-1.29467	0.196177	-0.03173	0.191985	-0.16529	0.868849	-0.09818	0.056185	-1.74753	0.081778
HDGFRP3.Q9Y3E1	0.1902279	0.146993	1.294126	0.196214	-0.11567	0.332477	-0.34789	0.728158	0.048242	0.098887	0.487846	0.626004
ACSBG1.Q96GR2	-0.183341	0.141749	-1.29342	0.19646	0.529765	0.362752	1.460405	0.145192	-0.37206	0.106201	-3.50338	0.000527
MAP3K4.F5H538	0.2263781	0.175099	1.292855	0.196653	0.383254	0.486157	0.788334	0.431104	0.158677	0.144487	1.098205	0.272967
KCNA2.P16389	0.1868956	0.144569	1.292782	0.196679	0.203046	0.355651	0.570914	0.568472	0.080721	0.105756	0.763277	0.445878
DLG4.P78352	-0.316443	0.244781	-1.29276	0.196687	0.153387	0.621158	0.246937	0.80512	-0.18769	0.184494	-1.01735	0.309782
SAA2.P0DJ19	0.0397052	0.030727	1.292205	0.196974	0.009311	0.083963	0.110889	0.911789	0.025321	0.024075	1.051744	0.293879

TMOD2.Q9NZR1.2	-0.164045	0.127179	-1.28987	0.197687	0.068085	0.34722	0.196086	0.844671	-0.04756	0.103263	-0.46058	0.645426
MAP1S.Q66K74	0.2809543	0.217855	1.289639	0.197768	0.491962	0.539756	0.911453	0.362765	0.066351	0.160739	0.412791	0.680045
SEMA7A.O75326	0.181165	0.140493	1.289495	0.197818	0.006202	0.377269	0.01644	0.986894	0.531572	0.108094	4.9177	1.42E-06
CFHR1.Q03591	0.0685783	0.053177	1.289619	0.197873	0.00349	0.137834	0.02532	0.979819	0.060706	0.04066	1.493016	0.136627
RC3H2.Q9HBD1	0.2023478	0.156898	1.289681	0.197874	-0.39054	0.40885	-0.95521	0.340365	-0.04316	0.118463	-0.3643	0.71593
COPG1.Q9Y678	0.451652	0.350368	1.289081	0.197961	0.938954	0.899971	1.043315	0.297615	-0.03079	0.26819	-0.1148	0.908677
PHAX.Q9H814	0.2148455	0.166635	1.289317	0.198001	-0.19328	0.465619	-0.41511	0.678405	-0.03533	0.138887	-0.25435	0.799425
ALDH18A1.P54886	0.2234754	0.173412	1.288693	0.198096	0.055588	0.464988	0.119548	0.904918	0.233938	0.137689	1.699026	0.090317
DPP8.Q6V1X1	-0.246362	0.191181	-1.28863	0.198117	-0.01914	0.491217	-0.03897	0.968943	-0.29452	0.145168	-2.02885	0.043328
GNG7.O60262	0.1508914	0.117103	1.288536	0.198151	0.095905	0.296345	0.323626	0.746439	0.082921	0.088046	0.941791	0.347033
QPCTL.Q9NXS2	-0.257812	0.200072	-1.2886	0.198236	-0.45687	0.529813	-0.86233	0.389283	0.057907	0.157627	0.367367	0.713637
ABHD14B.Q96IU4	0.1581359	0.122798	1.287774	0.198416	-0.22665	0.318279	-0.71211	0.476932	0.104492	0.094574	1.104871	0.270072
AP3B2.Q13367.2	-0.203459	0.157871	-1.28877	0.198561	0.175941	0.373632	0.470893	0.638307	-0.0264	0.118572	-0.22268	0.824044
CCDC117.Q8IWD4	0.1569423	0.121873	1.287749	0.198779	-0.16572	0.318381	-0.52049	0.603292	-0.14304	0.089836	-1.59227	0.112897
NAE1.Q13564	0.3353896	0.260716	1.286419	0.198887	0.427934	0.658755	0.649609	0.516426	0.052303	0.196079	0.266747	0.789841
NUB1.Q9Y5A7	0.2636699	0.204976	1.286347	0.198913	1.583516	0.529496	2.990611	0.003007	0.231396	0.15923	1.453213	0.147176
SPATA13.Q96N96.6	0.1858806	0.144448	1.286831	0.198945	-0.47806	0.355571	-1.34448	0.180077	0.273649	0.110333	2.480201	0.013827
TUBB4A.P04350	0.2364528	0.183898	1.285781	0.19911	0.674983	0.4895	1.378922	0.168913	0.113716	0.145921	0.779298	0.436398
PPP2R5D.Q14738	-0.363928	0.283154	-1.28527	0.199289	0.633894	0.709771	0.893096	0.372498	-0.0009	0.211416	-0.00427	0.996597
YOD1.Q5VVQ6	0.2305314	0.179465	1.28455	0.19954	-0.29066	0.44274	-0.6565	0.511992	0.203637	0.131291	1.55104	0.121912
INPP4A.Q96PE3.4	0.1775707	0.138217	1.284727	0.199571	0.037373	0.364296	0.102589	0.918367	-0.13869	0.102212	-1.35693	0.175963
SNX15.Q9NRS6	0.306486	0.238617	1.284429	0.199582	-0.43742	0.610826	-0.71612	0.474458	0.075006	0.18181	0.412552	0.68022
MAP2.P11137.4	-0.114274	0.088994	-1.28406	0.199781	-0.21438	0.252422	-0.8493	0.39644	-0.40048	0.071688	-5.58641	5.49E-08
HOMER2.Q9NSB8	-0.275032	0.214255	-1.28367	0.199849	-0.43222	0.543188	-0.7957	0.426813	-0.17759	0.161439	-1.10003	0.272172
LBH.Q53QV2	-0.16818	0.130974	-1.28408	0.200056	0.436306	0.339967	1.283379	0.200859	-0.21003	0.111456	-1.88437	0.06098
MARK1.Q9P0L2	-0.388683	0.302941	-1.28303	0.20007	-0.75366	0.776971	-0.97	0.332803	-0.37349	0.230512	-1.62025	0.106195
RAPGEF2.Q9Y4G8	-0.346104	0.269832	-1.28266	0.2002	-0.06445	0.641758	-0.10043	0.920065	0.211176	0.190538	1.108313	0.268586
RTP1.P59025	-0.153453	0.119517	-1.28395	0.200274	0.086476	0.302353	0.286011	0.775224	-0.08642	0.092272	-0.93655	0.350345
DGKZ.Q13574.3	-0.286749	0.223639	-1.2822	0.200363	-0.69529	0.575962	-1.20718	0.228283	-0.26036	0.171103	-1.52164	0.12912
EXOSC8.Q96B26	0.21229	0.165567	1.282198	0.200444	0.764957	0.491753	1.555571	0.120981	0.263543	0.141519	1.862246	0.063655
CNTN5.O94779	-0.211436	0.164931	-1.28197	0.200444	-0.54151	0.414201	-1.30735	0.192061	0.066997	0.123498	0.542494	0.587868
NDUFS8.O00217	-0.171045	0.133429	-1.28192	0.200461	0.690881	0.335957	2.05646	0.040575	0.010762	0.100619	0.106961	0.914889
HBD.P02042	0.0725622	0.056605	1.281902	0.200466	0.065591	0.142127	0.461498	0.644765	0.0672	0.042122	1.595347	0.111654
PSMB1.P20618	0.3828773	0.29875	1.281599	0.200573	0.088064	0.748671	0.117627	0.906439	0.27232	0.222184	1.225652	0.22126

TMEM106B.Q9NUM4	0.0708639	0.0553	1.281457	0.200622	0.016297	0.136405	0.119474	0.904977	0.018262	0.040566	0.450177	0.652897
SESTD1.Q86VW0	0.3048318	0.2379	1.281346	0.200661	-0.60486	0.624166	-0.96907	0.333267	-0.1502	0.185764	-0.80854	0.419399
EPB41L3.Q9Y2J2	-0.335667	0.261975	-1.28129	0.20068	0.944829	0.664065	1.422796	0.155801	-0.28889	0.197511	-1.46264	0.14458
KSR1.Q8IVT5.2	0.4292693	0.335036	1.281262	0.200691	1.018816	0.834863	1.22034	0.223264	0.293442	0.248394	1.181355	0.238367
RTN4.Q9NQC3.3	-0.065316	0.050969	-1.28148	0.200845	0.076403	0.139387	0.548133	0.584156	0.024238	0.040353	0.600653	0.54869
CYFIP2.Q96F07	-0.320692	0.250445	-1.28049	0.200962	-0.19666	0.649498	-0.30279	0.762249	0.093967	0.193169	0.486447	0.626994
GTPBP3.Q969Y2	-0.206171	0.161029	-1.28034	0.201035	-0.66127	0.423834	-1.5602	0.119767	0.105821	0.128007	0.826685	0.409073
FAM45A.Q8TCE6	0.3198393	0.24982	1.280277	0.201037	0.300578	0.661163	0.45462	0.649701	0.212238	0.19638	1.080752	0.280648
UBR2.Q8I WV8	0.3008479	0.235041	1.27998	0.201141	0.508856	0.620672	0.819847	0.412933	0.641188	0.181216	3.538251	0.000464
BCL11A.Q9H165.2	-0.223111	0.174312	-1.27995	0.201444	-0.56996	0.448309	-1.27136	0.204987	0.12353	0.136337	0.906067	0.365924
MAG1.Q96QZ7	-0.357128	0.279385	-1.27826	0.201746	-0.27468	0.741877	-0.37025	0.711446	-0.41974	0.219453	-1.91268	0.056711
ARFGAP2.G5E9L0	-0.310553	0.242965	-1.27818	0.201773	-0.72063	0.614008	-1.17364	0.241438	-0.6008	0.179854	-3.34049	0.000939
DLGAP4.Q9Y2H0	-0.305535	0.239129	-1.2777	0.201942	-0.07943	0.632655	-0.12554	0.900175	-0.72156	0.183692	-3.9281	0.000106
GTDC1.Q4AE62	-0.239223	0.187242	-1.27762	0.201972	-0.22925	0.465213	-0.49279	0.622507	0.151356	0.13818	1.095356	0.274211
COX7B.P24311	0.1314291	0.102871	1.277614	0.202012	0.008893	0.286817	0.031005	0.975287	-0.04182	0.083854	-0.49877	0.61832
CDKN1B.P46527	0.1492996	0.116876	1.277419	0.202043	0.150131	0.290871	0.516143	0.606122	-0.2445	0.085445	-2.86145	0.004504
NHEJ1.Q9H9Q4	0.1443266	0.112981	1.277437	0.202054	0.231939	0.293925	0.789109	0.430667	0.067692	0.087914	0.769985	0.441911
AKTIP.Q9H8T0	0.1848617	0.144745	1.277156	0.202186	0.207206	0.345113	0.6004	0.548715	-0.11493	0.098805	-1.16322	0.245709
PTPRS.Q13332.2	-0.418831	0.32803	-1.27681	0.202258	-0.47679	0.792859	-0.60136	0.548041	0.279105	0.235466	1.185332	0.236794
ARSD.P51689	0.222586	0.174193	1.27781	0.202308	0.126505	0.420101	0.30113	0.763642	0.180898	0.120534	1.500813	0.135047
DRG1.Q9Y295	0.2474891	0.193866	1.276597	0.202333	0.070458	0.498058	0.141466	0.887594	0.40293	0.14639	2.752437	0.006264
CENPV.Q7Z7K6	0.0910464	0.071318	1.276632	0.202533	-0.06606	0.184707	-0.35766	0.720935	0.005109	0.051206	0.09977	0.920615
TNPO3.Q9Y5L0	0.2971304	0.232873	1.275933	0.202567	0.533484	0.626152	0.852004	0.39487	0.397157	0.185118	2.145429	0.032695
ANXA2.P07355	0.0966232	0.075748	1.275592	0.202687	-0.23361	0.187494	-1.24594	0.213727	-0.00451	0.055915	-0.0806	0.935808
KNG1.P01042.2	-0.070129	0.054974	-1.27567	0.202743	-0.14232	0.144026	-0.98814	0.323968	0.038189	0.041436	0.921647	0.357535
SLC31A1.O15431	0.1913955	0.149888	1.276928	0.202763	0.069624	0.391651	0.17777	0.859133	-0.13913	0.122179	-1.13875	0.256543
TAP2.Q03519	0.1380456	0.108262	1.275103	0.20286	-0.22687	0.29593	-0.76662	0.443888	0.140257	0.087756	1.59825	0.111006
ZDHHC20.Q5W0Z9	0.1245303	0.097599	1.275942	0.20291	0.01218	0.279163	0.043629	0.965246	0.100975	0.074687	1.351965	0.178011
GRIN3A.Q8TCU5	0.1401691	0.109846	1.276046	0.203012	-0.26316	0.278641	-0.94446	0.346284	0.097542	0.071252	1.368972	0.172825
GBE1.Q04446	0.2539637	0.199292	1.27433	0.203134	-0.20695	0.520101	-0.3979	0.690975	0.464501	0.152495	3.046007	0.002518
FTSJ2.Q9UI43	0.2436	0.191096	1.274755	0.203309	-0.69465	0.547574	-1.2686	0.206154	-0.10978	0.176681	-0.62136	0.535117
NPL.Q9BXD5	-0.121544	0.095371	-1.27444	0.203322	0.061474	0.242137	0.253879	0.799821	-0.03124	0.076179	-0.41007	0.682145
ATXN2L.Q8WWM7	-0.239651	0.18816	-1.27366	0.203373	-0.03768	0.516557	-0.07295	0.941896	-1.13208	0.139569	-8.11122	1.18E-14
SYNPO2.Q9UMS6	-0.128479	0.100749	-1.27523	0.20344	-0.04273	0.266759	-0.16018	0.872958	-0.2533	0.074193	-3.41399	0.000828

BCAS3.Q9H6U6.7	-0.203968	0.160149	-1.27362	0.203521	0.496375	0.425251	1.16725	0.244183	-0.27742	0.130966	-2.11828	0.035104
LIAS.O43766	0.1836464	0.144343	1.272291	0.203915	-0.06993	0.348271	-0.20079	0.84101	-0.0249	0.100545	-0.24769	0.804551
PHKA1.P46020.2	0.2254328	0.17722	1.272048	0.203943	0.329814	0.47314	0.697075	0.486279	-0.38864	0.139121	-2.79358	0.005537
PLXNB3.Q9ULL4	0.1523416	0.119928	1.270275	0.204573	0.133111	0.3141	0.423784	0.672017	-0.10807	0.093265	-1.15874	0.247452
NDUFB11.Q9NX14	-0.211667	0.166729	-1.26953	0.20484	0.638395	0.424281	1.504651	0.133432	-0.01406	0.126674	-0.11098	0.911701
ELOVL4.Q9GZR5	-0.169427	0.133441	-1.26968	0.204905	-0.29365	0.3444	-0.85263	0.394668	0.221929	0.098917	2.243577	0.025722
EIF3H.B3KS98	0.4907541	0.386647	1.269258	0.204935	-1.2308	0.944132	-1.30363	0.193326	0.298191	0.281122	1.060718	0.289644
AHCYL2.Q96HN2.2	-0.23239	0.183127	-1.26901	0.205021	-0.25399	0.458522	-0.55394	0.580021	-0.53755	0.133011	-4.04138	6.71E-05
HIST1H1C.P16403	0.0619919	0.048858	1.268819	0.205091	0.057998	0.131276	0.441802	0.65894	0.023354	0.039042	0.598172	0.550162
RAB37.Q96AX2.2	0.1779451	0.140255	1.268729	0.205123	0.363931	0.355439	1.02389	0.306685	-0.18676	0.105383	-1.77219	0.077345
POLR2K.P53803	0.2189081	0.172496	1.26906	0.205143	-0.22902	0.458596	-0.4994	0.61794	0.35434	0.131568	2.69321	0.00756
C9orf78.Q9NZ63	0.2027913	0.159849	1.268643	0.205173	-0.34254	0.398437	-0.85971	0.390634	-0.0561	0.120628	-0.46504	0.642239
PPFIA1.H0YEF9	-0.230773	0.181901	-1.26867	0.205265	-0.31007	0.458491	-0.67629	0.499458	0.147473	0.142205	1.037049	0.300673
GOLGB1.Q14789.2	0.1072791	0.084591	1.268214	0.205307	-0.16542	0.199709	-0.82828	0.408149	-0.01521	0.059469	-0.25581	0.798263
TBC1D5.Q92609.2	0.3119935	0.246012	1.268204	0.205311	0.464404	0.631679	0.735189	0.46278	-0.60694	0.184891	-3.28269	0.001146
SAMD4B.M0QZ22	0.2262914	0.17855	1.267385	0.205603	-0.78793	0.445596	-1.76825	0.078002	-0.23372	0.132561	-1.76311	0.078867
SRGAP1.Q7Z6B7.2	0.2395867	0.188997	1.267673	0.205605	0.437429	0.497711	0.878881	0.380271	0.16332	0.143589	1.137419	0.256402
TSC22D4.H7BZ77	-0.096913	0.076472	-1.26731	0.205629	-0.16852	0.198123	-0.8506	0.395648	-0.28787	0.056696	-5.07738	6.61E-07
C17orf100.D3DTM5	0.1618712	0.127764	1.266953	0.205855	0.060761	0.328071	0.185207	0.853207	0.016474	0.094608	0.174123	0.861901
HECW1.Q76N89	-0.370391	0.292448	-1.26652	0.205913	0.505934	0.728932	0.694075	0.488155	0.049361	0.216995	0.227477	0.820203
SMAD3.P84022	-0.188809	0.149014	-1.26705	0.205918	-0.29234	0.373077	-0.7836	0.434058	0.01254	0.113981	0.11002	0.912487
PABPC1.P11940	-0.360986	0.285153	-1.26594	0.20612	0.061632	0.747731	0.082425	0.934362	0.373878	0.221423	1.688523	0.092316
ATP6V0D1.F5GYQ1	-0.249627	0.197266	-1.26543	0.206301	-0.3632	0.507333	-0.7159	0.474594	0.030994	0.151037	0.205209	0.837544
ARHGAP5.Q13017	0.5123758	0.40495	1.265283	0.206355	-1.46609	0.968153	-1.51432	0.130964	-0.2301	0.288776	-0.79681	0.42617
MED21.F5H872	0.2113109	0.166778	1.26702	0.206435	-0.19611	0.425337	-0.46106	0.645485	0.018652	0.12317	0.151432	0.879858
INAFM2.P0DMQ5	-0.170293	0.134562	-1.26554	0.206475	0.258357	0.368176	0.701723	0.483568	-0.10628	0.102085	-1.0411	0.298933
TSPAN33.Q86UF1	-0.154146	0.121797	-1.26559	0.20649	0.013065	0.353433	0.036965	0.970547	-0.17366	0.101302	-1.71431	0.087913
FAM179B.G3XAE9	0.1976899	0.156144	1.266071	0.206497	0.260466	0.451291	0.577158	0.56452	0.182089	0.134552	1.353295	0.177578
NCALD.P61601	-0.160114	0.126606	-1.26467	0.206574	0.133459	0.322714	0.413551	0.679489	-0.03827	0.096003	-0.39866	0.690421
MRI1.Q9BV20	0.1056384	0.083559	1.264243	0.206727	0.026872	0.200228	0.134205	0.893328	-0.00428	0.059565	-0.07189	0.942736
CCSAP.Q6IQ19	0.1706029	0.134991	1.263807	0.206883	0.119411	0.339236	0.351998	0.725079	0.002171	0.100937	0.021505	0.982857
CDS2.O95674	0.2684094	0.212382	1.263803	0.206885	-0.25956	0.521201	-0.49801	0.618829	-0.18726	0.154745	-1.21014	0.227147
UNC119.Q13432	0.2470077	0.195441	1.263845	0.20691	0.623471	0.535075	1.165203	0.244885	0.051528	0.15911	0.32385	0.746283
SUMO1.P63165	0.2215313	0.175414	1.262907	0.207226	-0.01086	0.417561	-0.02601	0.979268	0.008185	0.125173	0.065393	0.947904

SLC30A9.Q6PML9	-0.370421	0.293343	-1.26276	0.207259	-0.11921	0.777071	-0.15341	0.878173	-0.10472	0.231097	-0.45316	0.650753
ABI3.Q9P2A4	0.159095	0.125995	1.262713	0.207357	0.014236	0.342435	0.041574	0.966869	0.093564	0.101203	0.924514	0.356048
CPD.O75976	-0.288935	0.228866	-1.26247	0.207365	0.403371	0.560141	0.720124	0.471991	-0.19588	0.1664	-1.17719	0.240024
FBXW2.Q9UKT8	0.2374377	0.187975	1.263136	0.207427	-0.24132	0.529918	-0.45538	0.649317	0.124309	0.153081	0.812045	0.417712
APBA2.Q99767	-0.3254	0.257787	-1.26228	0.207432	0.029851	0.653856	0.045654	0.963616	0.196859	0.19419	1.013746	0.311494
TNFRSF21.O75509	-0.203628	0.161369	-1.26187	0.207578	0.418623	0.480293	0.871599	0.384102	-0.01424	0.143051	-0.09956	0.920761
MYL9.P24844	-0.075052	0.059478	-1.26184	0.207648	-0.00284	0.154171	-0.01844	0.985298	-0.07081	0.044397	-1.59492	0.111862
RPS14.P62263	-0.3636	0.288212	-1.26157	0.207686	0.320391	0.793269	0.403887	0.686574	-0.11219	0.235959	-0.47547	0.634786
CALCOCO2.Q13137	0.1549961	0.122937	1.260779	0.208029	-0.21262	0.328713	-0.64683	0.518262	0.175483	0.097519	1.799474	0.073005
NPEPPS.E9PLK3	0.3155903	0.250422	1.260234	0.208168	0.109544	0.624865	0.175309	0.860951	0.547416	0.183277	2.986825	0.003044
LRRC40.Q9H9A6	-0.337287	0.267804	-1.25945	0.208449	-1.17852	0.63097	-1.86779	0.062735	-0.04253	0.18874	-0.22532	0.821877
FEM1B.Q9UK73	-0.18667	0.148214	-1.25946	0.208516	0.357988	0.381988	0.937172	0.349483	0.050356	0.113394	0.444083	0.657328
SLC9A6.Q92581.3	-0.215048	0.170739	-1.25952	0.208673	0.023069	0.385401	0.059857	0.952325	0.034015	0.118987	0.285875	0.775248
WRNIP1.Q96S55	0.2468712	0.19616	1.25852	0.208787	-0.12209	0.470977	-0.25922	0.795634	0.307312	0.139031	2.210384	0.027809
RRP1.P56182	0.1801938	0.143183	1.258489	0.208827	0.302082	0.332005	0.909874	0.363637	-0.02357	0.097282	-0.24232	0.808699
MRPS33.C9JBY7	-0.140169	0.111371	-1.25858	0.208929	0.221915	0.279318	0.794491	0.427691	-0.08166	0.081979	-0.99615	0.320177
CHMP4B.Q9H444	-0.390854	0.310721	-1.25789	0.209012	0.192938	0.790485	0.244076	0.807334	-0.03793	0.235168	-0.1613	0.871962
SRI.P30626	0.2415649	0.192234	1.256618	0.209474	0.360422	0.485234	0.742781	0.458177	0.002225	0.144477	0.015397	0.987725
ACAD9.Q9H845	-0.148823	0.118434	-1.25659	0.209486	0.314599	0.328598	0.957399	0.339112	-0.02746	0.097884	-0.28049	0.779286
CLTA.P09496.2	0.1606018	0.127879	1.255889	0.209757	-0.0302	0.328262	-0.09201	0.926752	0.13947	0.095731	1.456905	0.146185
RSF1.Q96T23	0.2345589	0.18677	1.255872	0.209763	-0.42609	0.452636	-0.94134	0.347281	-0.18115	0.134685	-1.345	0.179633
DYNC2H1.Q8NCM8	0.2312034	0.184103	1.25584	0.209765	0.670732	0.481133	1.394068	0.164312	0.28406	0.143946	1.973375	0.049355
CD99.H7C2F2	0.0920982	0.073334	1.255871	0.209771	-0.17395	0.204859	-0.8491	0.396512	0.075005	0.060155	1.246871	0.213431
SLC25A16.P16260	-0.165803	0.131948	-1.25658	0.20984	-0.81889	0.349957	-2.33997	0.020318	-0.07285	0.102554	-0.71039	0.478326
CAP1.Q01518.2	0.3991	0.31786	1.255583	0.209849	-0.84449	0.889988	-0.94888	0.343422	0.257415	0.264737	0.972345	0.331637
PTDSS2.Q9BVG9	0.2077325	0.165469	1.255413	0.20992	0.288723	0.401812	0.718553	0.472968	-0.10359	0.120435	-0.86011	0.390407
CAPG.P40121	0.1037551	0.082659	1.255222	0.20998	-0.12447	0.220751	-0.56384	0.57327	-0.02088	0.065692	-0.31778	0.750866
SERINC1.Q9NRX5	0.2815887	0.224494	1.254324	0.210306	-0.3979	0.581256	-0.68456	0.494136	0.402895	0.171524	2.348912	0.019456
VEZF1.J3QSH4	0.1503141	0.119807	1.254631	0.210386	-0.53213	0.326696	-1.62883	0.104724	0.03599	0.096973	0.371138	0.710878
MTDH.Q86UE4	-0.267342	0.213409	-1.25272	0.210889	-0.77069	0.598352	-1.28801	0.198702	-1.01484	0.168911	-6.00813	5.26E-09
TMED10.P49755	-0.282165	0.225274	-1.25254	0.210953	0.006326	0.527383	0.011995	0.990438	0.249089	0.156248	1.594193	0.111912
IDNK.Q5T6J7	0.1482581	0.118374	1.252457	0.211192	0.515809	0.306456	1.683144	0.093664	-0.08623	0.095492	-0.90298	0.367452
DHCR24.Q3LIE7	0.0730734	0.058384	1.2516	0.211296	-0.26677	0.150561	-1.77185	0.077401	0.028595	0.044986	0.635642	0.525479
FABP7.O15540	0.100385	0.080206	1.251588	0.2113	-0.30211	0.209407	-1.44269	0.150117	0.021416	0.062492	0.342706	0.732052

TRADD.Q15628	0.16111	0.128741	1.251423	0.211422	0.420188	0.358511	1.172038	0.242189	-0.03187	0.107626	-0.29616	0.767333
SHISA9.B4DS77	-0.172322	0.137745	-1.25102	0.211507	-0.21489	0.359414	-0.59788	0.550355	-0.45045	0.103877	-4.33634	1.96E-05
OTUD6B.A0A087X0W9	0.275865	0.220724	1.249819	0.211946	-0.36272	0.58142	-0.62385	0.533188	0.01235	0.173069	0.07136	0.943157
CLIP2.Q9UDT6	-0.417752	0.334359	-1.24941	0.212094	1.140707	0.884214	1.29008	0.197984	0.224012	0.263436	0.850347	0.395788
ZC3H15.Q8WU90	0.2228675	0.178378	1.24941	0.212095	-0.36922	0.434163	-0.85043	0.395744	0.229458	0.128648	1.783615	0.075464
SLC9A2.Q9UBY0	-0.074565	0.059643	-1.25018	0.212263	-0.07779	0.159951	-0.48635	0.627328	0.039714	0.047109	0.843027	0.400371
BBS2.Q9BXC9	0.2645704	0.211835	1.248948	0.212264	-1.21069	0.550822	-2.19797	0.02869	0.023537	0.165126	0.142537	0.886748
ITSN2.Q9NZM3	-0.381228	0.305256	-1.24888	0.212289	0.168501	0.761451	0.22129	0.825012	-0.51318	0.224653	-2.28431	0.023029
SLC12A5.Q9H2X9	-0.271596	0.217483	-1.24882	0.212312	-0.0491	0.559629	-0.08774	0.930139	0.029944	0.166473	0.179873	0.857369
MPPED2.Q15777	-0.201559	0.161409	-1.24875	0.212457	-0.13795	0.418643	-0.32951	0.742034	-0.11927	0.128688	-0.92684	0.35486
C1orf21.Q9H246	-0.186545	0.149427	-1.24841	0.212462	0.026275	0.389493	0.067459	0.94626	-0.46675	0.112795	-4.13807	4.52E-05
STAT4.Q14765	-0.115053	0.092155	-1.24847	0.212468	0.363375	0.221322	1.641837	0.101686	-0.15183	0.066318	-2.28941	0.022759
TBKBP1.A7MCY6.2	0.0296776	0.023737	1.250283	0.212478	-0.02075	0.060379	-0.34367	0.731606	-0.0131	0.016355	-0.80116	0.424376
DHX16.O60231	0.1548262	0.124025	1.248342	0.212555	-0.24051	0.346969	-0.69316	0.488796	0.095306	0.101234	0.941446	0.347306
RGS14.O43566.6	-0.168483	0.134984	-1.24817	0.212622	-0.12081	0.346473	-0.3487	0.727579	0.107832	0.106617	1.011399	0.312705
ARL15.Q9NXU5	-0.219034	0.175555	-1.24767	0.212733	-0.50387	0.437442	-1.15186	0.250264	-0.20377	0.129895	-1.56876	0.117725
ASIC1.P78348.1	-0.227395	0.182292	-1.24742	0.212823	0.257376	0.470657	0.546845	0.584878	-0.00411	0.140079	-0.02932	0.976628
ACOX1.Q15067.2	-0.183559	0.14721	-1.24692	0.213005	0.138448	0.383159	0.361333	0.718097	-0.37039	0.112049	-3.30562	0.001059
FCHO2.Q0JRZ9	0.182576	0.146473	1.246479	0.213177	-0.76066	0.375607	-2.02514	0.043724	-0.0575	0.113439	-0.50688	0.612606
GSG1L.Q6UXU4	-0.158405	0.127059	-1.2467	0.213221	-0.06007	0.32703	-0.18369	0.854398	-0.09064	0.100812	-0.89905	0.369456
TMEM177.Q53S58	-0.220554	0.176952	-1.24641	0.213233	0.269262	0.460178	0.585126	0.558921	-0.05722	0.13331	-0.42924	0.668072
DNAJB11.Q9UBS4	-0.293733	0.235697	-1.24623	0.213257	-0.72921	0.608025	-1.19931	0.231323	0.182868	0.180998	1.01033	0.313125
OXLD1.Q5BKU9	-0.171867	0.137968	-1.24571	0.213451	0.531454	0.35733	1.487293	0.137954	-0.23367	0.105849	-2.20754	0.028008
DGKH.Q86XP1	-0.234197	0.18801	-1.24566	0.213467	0.112607	0.512342	0.219789	0.82618	-0.1161	0.152282	-0.76242	0.446387
GNAZ.P19086	-0.29473	0.236636	-1.2455	0.213527	0.985201	0.60086	1.639653	0.102092	-0.16586	0.179271	-0.92518	0.355592
PRKRA.O75569	-0.175984	0.141308	-1.2454	0.213565	-0.05419	0.373789	-0.14499	0.884815	-0.6756	0.104369	-6.4732	3.75E-10
ATG9A.Q7Z3C6	0.2363899	0.189841	1.245199	0.213637	-0.3828	0.479984	-0.79752	0.425759	0.335393	0.141658	2.367627	0.018516
SRP9.P49458	0.1774066	0.142489	1.245058	0.213689	-0.07341	0.367237	-0.19989	0.841699	-0.03037	0.10924	-0.27802	0.781185
FLII.Q13045	-0.505393	0.405959	-1.24493	0.213734	1.018534	1.083842	0.939745	0.34808	0.589799	0.32114	1.836577	0.06723
CRMP1.Q14194	0.1745363	0.140218	1.244751	0.213802	0.396847	0.356447	1.113341	0.266424	-0.05365	0.106205	-0.50519	0.613787
CYSTM1.Q9H1C7	-0.175479	0.140964	-1.24485	0.213824	-0.17613	0.372544	-0.47276	0.636751	-0.04037	0.111218	-0.36297	0.716905
SCFD2.Q8WU76	0.2850475	0.229021	1.244635	0.213844	-0.66765	0.591126	-1.12946	0.259576	0.190486	0.175878	1.083052	0.279627
ACTR5.Q9H9F9	-0.187635	0.150647	-1.24553	0.213883	0.347983	0.391576	0.888675	0.375256	0.213631	0.117824	1.813138	0.071325
SYNGR3.O43761	-0.180634	0.145148	-1.24448	0.2139	-0.30109	0.36863	-0.81679	0.414677	-0.07584	0.109694	-0.69141	0.489827

MAGOH.P61326	0.2372168	0.190758	1.243547	0.214244	-0.08375	0.448493	-0.18674	0.851989	0.316944	0.132206	2.397343	0.017106
NMI.Q13287	0.0831539	0.066788	1.245036	0.214353	0.00602	0.165225	0.036437	0.970985	-0.00191	0.04866	-0.03917	0.96881
ENY2.Q9NPA8	0.2425294	0.195134	1.24289	0.214534	-0.48451	0.597952	-0.81028	0.418461	-0.38869	0.171697	-2.26383	0.024344
SCN8A.Q9UQD0	0.2521177	0.202908	1.24252	0.214622	0.531034	0.508479	1.044358	0.297133	0.295439	0.150597	1.961782	0.050682
DGAT1.O75907	0.1671658	0.134521	1.242678	0.214743	-0.49724	0.364887	-1.36273	0.174251	0.046429	0.110734	0.419283	0.675386
TBC1D10B.Q4KMP7	-0.384584	0.309662	-1.24195	0.214834	-0.88245	0.767495	-1.14978	0.251121	-0.17747	0.22858	-0.77641	0.438102
NOMO2.Q5JPE7	0.4310773	0.347171	1.241686	0.21493	-0.81638	0.892906	-0.91429	0.361275	0.380758	0.265101	1.436273	0.151933
CKMT2.P17540	-0.151544	0.12204	-1.24176	0.214972	0.390625	0.321722	1.21417	0.225713	0.018629	0.096222	0.193605	0.846626
BRAF.P15056	-0.40484	0.326123	-1.24137	0.215045	0.108804	0.821391	0.132463	0.894704	0.199919	0.244092	0.819033	0.413397
GALM.Q96C23	0.1112486	0.089627	1.241242	0.215094	0.326258	0.227421	1.4346	0.152409	0.070158	0.067761	1.03538	0.301298
KDM3B.Q7LBC6	0.2085558	0.168002	1.241391	0.215095	-0.57012	0.438625	-1.2998	0.194725	-0.30583	0.131271	-2.32978	0.020519
MYO6.E7EW20	0.2255634	0.181728	1.241217	0.215103	-0.26726	0.478523	-0.55852	0.576894	-0.09106	0.14233	-0.6398	0.522778
MYH14.Q7Z406.6	0.3010274	0.242578	1.240951	0.215201	0.359701	0.627646	0.573095	0.566996	0.16711	0.186571	0.895691	0.371113
RAC3.J3QLK0	-0.129926	0.104732	-1.24055	0.215367	-0.06521	0.256041	-0.25467	0.79915	-0.05964	0.076234	-0.78236	0.434614
SLC12A4.Q9UP95	0.1632545	0.131632	1.240237	0.215534	-0.03395	0.38131	-0.08904	0.929114	0.142596	0.110592	1.289387	0.198347
ITGA6.P23229	0.1995898	0.160975	1.23988	0.215597	-0.9117	0.401625	-2.27003	0.023892	0.239647	0.119694	2.002167	0.046138
RNGTT.O60942	0.1635844	0.131883	1.240372	0.215605	0.168844	0.350236	0.482086	0.630201	0.055442	0.107041	0.51795	0.604989
MGST1.P10620	0.1158929	0.093473	1.239853	0.215607	-0.44012	0.249586	-1.76339	0.07882	0.056195	0.07455	0.753786	0.45155
TMCC2.O75069	-0.357355	0.288375	-1.2392	0.215849	0.868728	0.76681	1.132913	0.258126	-0.47987	0.226953	-2.11442	0.035278
CEP41.Q9BYV8	-0.284729	0.229823	-1.2389	0.215958	0.275222	0.615776	0.446952	0.655222	-0.08782	0.183174	-0.47941	0.631985
CPLX2.Q6PUV4	-0.152416	0.123026	-1.2389	0.215961	0.369811	0.313171	1.180861	0.238563	-0.16589	0.092895	-1.78574	0.075119
DENND5A.Q6IQ26	0.2456857	0.198327	1.238792	0.216058	0.2106	0.50294	0.418738	0.675723	0.01407	0.150035	0.09378	0.92535
CXorf56.Q9H5V9	-0.152556	0.123181	-1.23848	0.216223	0.092499	0.316776	0.292002	0.770514	0.060807	0.09861	0.616645	0.538
AATK.Q6ZMQ8	-0.234796	0.189632	-1.23817	0.216229	0.614211	0.478587	1.283384	0.200316	-0.26076	0.141979	-1.83658	0.067229
DFNA5.O60443	0.2571085	0.20767	1.238065	0.216269	0.237865	0.501564	0.474246	0.635659	-0.0244	0.149254	-0.16351	0.870227
ACAD8.Q9UKU7	0.1913266	0.154545	1.237998	0.216293	-0.34318	0.402401	-0.85283	0.394414	0.2138	0.119231	1.79316	0.073922
UBQLN1.Q9UMX0	-0.305012	0.246457	-1.23759	0.216446	0.380595	0.609412	0.624528	0.53274	-0.22818	0.18094	-1.26109	0.208224
NAT6.Q93015.2	0.1783905	0.144185	1.237234	0.216634	0.221292	0.398232	0.555686	0.578872	-0.08914	0.114277	-0.78001	0.436049
TBC1D1.H0Y8P0	-0.164933	0.133267	-1.23761	0.216738	0.428675	0.341836	1.254037	0.211292	0.034558	0.098268	0.351668	0.725457
FASTKD5.Q7L8L6	-0.145844	0.117967	-1.23631	0.216918	0.192254	0.289753	0.663509	0.507498	0.097226	0.086081	1.12948	0.259568
PALD1.Q9ULE6	0.1966905	0.159161	1.235798	0.217109	0.66172	0.430382	1.537519	0.125186	-0.06582	0.128464	-0.51236	0.608761
TMEM167A.Q8TBQ9	0.1274333	0.103061	1.23648	0.217184	-0.18954	0.266097	-0.7123	0.47709	0.073246	0.080984	0.90445	0.366819
PNP.P00491	0.1606068	0.130078	1.234693	0.21752	0.192422	0.320963	0.599514	0.549268	0.120186	0.095292	1.261238	0.208171
PPID.Q08752	-0.12699	0.102933	-1.23371	0.217886	-0.18959	0.269254	-0.70412	0.481886	-0.02919	0.080145	-0.36417	0.715979

HNRNPA0.Q13151	0.1675309	0.135798	1.233677	0.217898	-0.00938	0.331279	-0.02832	0.977423	-0.07976	0.098446	-0.8102	0.418449
VPS13C.Q709C8	-0.388839	0.315292	-1.23327	0.218052	-0.27732	0.798716	-0.34721	0.72867	0.450681	0.236267	1.907504	0.057379
FRY.Q5TBA9	0.3877502	0.314504	1.232896	0.218189	0.050027	0.761134	0.065727	0.947638	-0.07725	0.226383	-0.34122	0.73317
MAPK8IP3.A0A087WYG2	-0.344695	0.279778	-1.23203	0.218512	-0.37266	0.710658	-0.52438	0.600387	-0.57875	0.208932	-2.77005	0.005943
CD99L2.Q8TCZ2.5	-0.135569	0.110035	-1.23205	0.218746	0.063481	0.28021	0.226548	0.82099	-0.01265	0.081382	-0.15549	0.876577
REEP3.X6R3X1	0.1651535	0.134154	1.231075	0.219124	0.241334	0.35735	0.675342	0.500174	0.283333	0.109648	2.584017	0.010419
SYN2.A0A087X2E3	-0.190734	0.154993	-1.2306	0.219237	-0.59954	0.383854	-1.56191	0.119691	-0.03127	0.110539	-0.28293	0.777487
SYNGAP1.Q96PV0.2	0.1626033	0.132134	1.230598	0.219239	-0.48486	0.333462	-1.45401	0.147238	-0.13138	0.098433	-1.33468	0.183235
POLR1C.O15160	-0.227017	0.184553	-1.23009	0.219252	0.401705	0.462576	0.868409	0.385865	0.174857	0.136421	1.28175	0.20092
LANCL2.Q9NS86	-0.257449	0.209399	-1.22947	0.21947	0.131731	0.516707	0.254944	0.798935	-0.19257	0.153338	-1.25585	0.210117
TBC1D19.Q8N5T2	-0.233631	0.190099	-1.229	0.219778	-0.11278	0.490316	-0.23001	0.818265	-0.16734	0.144996	-1.1541	0.24954
UBE2V2.Q15819	-0.397877	0.323835	-1.22864	0.219779	0.433364	0.802691	0.539888	0.589662	0.274331	0.23839	1.150763	0.250717
B4GALNT1.Q00973	0.2360236	0.192074	1.228816	0.219786	0.023124	0.539128	0.042891	0.96582	0.282323	0.153804	1.835595	0.067501
PANK2.Q9BZ23	0.2853332	0.232334	1.228118	0.219976	0.222746	0.582046	0.382694	0.702209	-0.02165	0.173185	-0.12503	0.900581
SYN3.O14994	-0.198776	0.161859	-1.22808	0.21999	0.422453	0.401831	1.05132	0.293931	-0.0919	0.119637	-0.76818	0.442967
SMPD3.Q9NY59	-0.307402	0.250339	-1.22795	0.220041	-0.0603	0.664429	-0.09076	0.927745	-0.44152	0.196061	-2.25196	0.025025
GART.P22102	0.1727976	0.140725	1.227908	0.220055	0.032877	0.346497	0.094884	0.924468	-0.05694	0.103028	-0.55271	0.580862
SNX30.Q5VWJ9	-0.312523	0.254519	-1.2279	0.220059	0.863208	0.655244	1.317384	0.188683	-0.15153	0.195279	-0.77598	0.438351
C9orf142.Q9BUH6	0.2367745	0.192865	1.227667	0.220164	0.032042	0.517145	0.06196	0.950636	-0.10645	0.150393	-0.7078	0.479623
PPP1CC.P36873	0.2493514	0.203141	1.227483	0.220214	0.286708	0.450069	0.63703	0.524576	-0.22947	0.13334	-1.72096	0.086256
RPA1.P27694	0.2682875	0.218638	1.227087	0.220363	0.154306	0.528368	0.292042	0.77045	0.124062	0.157044	0.789982	0.430142
DCAF8.G3V3G9	-0.29873	0.243503	-1.22681	0.220468	0.311511	0.579628	0.537434	0.591354	-0.09894	0.172418	-0.57384	0.566489
P2RX7.Q99572	0.0621823	0.050715	1.226108	0.22073	0.206541	0.130578	1.581745	0.114727	0.000918	0.039001	0.023547	0.981229
RBM15.A0A087WWP4	0.2504922	0.20438	1.225623	0.220913	0.091955	0.473317	0.194278	0.846085	-0.14782	0.140561	-1.05166	0.293775
IDUA.P35475	0.1635336	0.133403	1.225861	0.221082	0.475578	0.342512	1.388503	0.166414	0.116891	0.101427	1.152461	0.250405
AKR7A2.O43488	0.2426315	0.198102	1.224779	0.221231	-0.23905	0.56569	-0.42258	0.672893	0.151569	0.168111	0.901601	0.367969
STMN1.P16949	-0.190208	0.155416	-1.22386	0.221576	-0.3608	0.396687	-0.90953	0.363777	-0.08115	0.118075	-0.68726	0.492435
USP48.Q86UV5	-0.20119	0.16437	-1.22401	0.221589	0.214811	0.399112	0.538222	0.590854	0.133445	0.117579	1.134936	0.25738
GABBR1.Q9UBS5	-0.327584	0.267734	-1.22354	0.221697	-0.83962	0.688152	-1.22011	0.223351	-0.08286	0.20515	-0.40392	0.686552
IVD.P26440	-0.158195	0.129295	-1.22352	0.221706	-0.08958	0.339641	-0.26376	0.792143	0.020723	0.101042	0.205095	0.837632
USE1.Q9NZ43	-0.27451	0.224434	-1.22312	0.221855	0.276417	0.571419	0.483738	0.628914	0.082069	0.169987	0.482793	0.629583
RPS19.P39019	-0.340316	0.278245	-1.22308	0.221872	-1.35335	0.714093	-1.89521	0.058995	0.29008	0.213021	1.361743	0.174268
GAB1.Q13480.2	0.1562615	0.127765	1.223035	0.221888	-0.04732	0.345739	-0.13688	0.891218	-0.16117	0.102446	-1.57321	0.116691
RTN4RL2.Q86UN3	-0.282393	0.230955	-1.22272	0.222008	-0.39642	0.562915	-0.70422	0.481824	-0.13776	0.167408	-0.8229	0.411198

EIF1AY.O14602	-0.02887	0.023596	-1.22355	0.222014	-0.07502	0.072682	-1.0322	0.303258	-0.00742	0.022215	-0.33402	0.738723
GRIA1.P42261.6	-0.14354	0.117446	-1.22218	0.222212	-0.34553	0.311128	-1.11057	0.267614	-0.2993	0.091168	-3.28299	0.001144
PRKCG.P05129	-0.16364	0.13393	-1.22183	0.222342	-0.00557	0.330145	-0.01686	0.98656	-0.21123	0.097477	-2.167	0.030996
RYR1.A0A0A0MRH2	-0.021909	0.017932	-1.22182	0.222493	0.0018	0.047355	0.03802	0.969702	0.001686	0.01365	0.123525	0.901791
BDH1.Q02338	-0.175374	0.143592	-1.22133	0.222531	0.117054	0.394861	0.296444	0.767089	-0.02045	0.117475	-0.17406	0.861931
PHLDB1.Q86UU1.2	0.168907	0.138305	1.221262	0.222558	-0.25719	0.37289	-0.68973	0.490881	-0.21554	0.110336	-1.95347	0.051664
CTNNA2.P26232.5	-0.340093	0.278546	-1.22096	0.222673	-0.24943	0.658786	-0.37863	0.705225	-0.19344	0.195714	-0.98836	0.323748
SCAF8.Q9UPN6	0.1670481	0.136794	1.221161	0.222675	-0.23125	0.357219	-0.64738	0.517945	0.025278	0.102874	0.245721	0.806087
SSSCA1.O60232	-0.138379	0.113364	-1.22066	0.222786	0.247904	0.286523	0.865212	0.387591	-0.103	0.085138	-1.20976	0.227293
PARP4.Q9UUK3	0.1148985	0.094131	1.220621	0.2228	0.069669	0.250779	0.277812	0.781342	0.080388	0.074472	1.079439	0.281231
TSPAN2.B1AKP2	-0.119251	0.097746	-1.22001	0.223146	0.210618	0.259433	0.811837	0.417625	-0.07273	0.079121	-0.91925	0.358816
ITM2C.Q9NQX7	-0.226709	0.185971	-1.21905	0.223394	-0.37756	0.45958	-0.82154	0.411971	-0.05542	0.136829	-0.40499	0.685761
SH3GLB1.Q9Y371	0.1413011	0.11597	1.218432	0.223679	-0.60765	0.317663	-1.91287	0.056766	0.064387	0.093981	0.685109	0.493832
COPA.P53621	0.4730321	0.388292	1.218239	0.223703	-0.42535	1.054497	-0.40336	0.686958	0.539153	0.312279	1.72651	0.085252
DCTN5.Q9BTE1	0.3733407	0.306474	1.218179	0.223726	-0.76412	0.775514	-0.98531	0.325241	0.305289	0.230411	1.324975	0.186155
CELF3.Q5SZQ8	-0.149831	0.12297	-1.21843	0.223834	0.391725	0.316856	1.23629	0.217601	0.009626	0.091994	0.10464	0.916752
TIAL1.Q01085.2	0.419434	0.344414	1.21782	0.223862	-0.59696	0.825017	-0.72357	0.469874	0.456054	0.244266	1.867041	0.06284
ALG11.Q2TAA5	0.2330012	0.191334	1.217775	0.223879	-0.15215	0.498177	-0.3054	0.760263	0.332217	0.147015	2.259747	0.024531
OLIG2.Q13516	0.1022298	0.083931	1.218027	0.223988	-0.09397	0.213541	-0.44006	0.660302	-0.04713	0.062787	-0.75059	0.453652
GREM2.Q9H772	0.1225571	0.100595	1.21832	0.224011	-0.22199	0.26797	-0.8284	0.408463	0.003271	0.080065	0.040853	0.967455
SCD5.Q86SK9	0.1664276	0.136717	1.217314	0.224054	0.165482	0.366332	0.451726	0.651782	-0.15968	0.108635	-1.46987	0.142611
AIMP1.Q12904	-0.347295	0.285486	-1.2165	0.224362	-0.55591	0.77037	-0.72162	0.471074	-0.42618	0.228083	-1.86855	0.062628
PRPF6.O94906	0.2813136	0.231258	1.216449	0.224383	-0.33555	0.537735	-0.62401	0.533081	-0.04819	0.160044	-0.30112	0.763527
RAP1GAP.P47736.2	-0.208763	0.171576	-1.21673	0.224393	-0.51704	0.446527	-1.1579	0.247987	0.175082	0.126716	1.381681	0.168279
BTAF1.A0A0A0MTH9	-0.225444	0.185434	-1.21577	0.224759	0.512609	0.483557	1.06008	0.290096	0.046285	0.141628	0.326807	0.744078
DNAL1.Q4LDG9	-0.279772	0.230238	-1.21514	0.224881	1.393041	0.695973	2.001572	0.046202	-0.01484	0.208372	-0.07121	0.943276
RAB7A.P51149	-0.369952	0.304532	-1.21482	0.225003	-0.97251	0.825757	-1.17772	0.239811	0.15218	0.246045	0.618505	0.536697
GPR89B.P0CG08	-0.235085	0.193524	-1.21476	0.225065	-0.1787	0.504211	-0.35442	0.723282	-0.21296	0.149666	-1.42288	0.155835
ZNF326.Q5BKZ1	0.199879	0.164567	1.214573	0.225155	-0.50869	0.404103	-1.2588	0.209159	-0.1366	0.116065	-1.17694	0.240224
EPHB3.P54753	0.2924148	0.240812	1.214287	0.225207	-0.09332	0.637756	-0.14633	0.883754	0.668527	0.18589	3.596366	0.000375
DCPS.Q96C86	0.1907171	0.15718	1.213369	0.225557	0.351818	0.381578	0.922007	0.357242	0.09737	0.113534	0.857631	0.391759
PRPF4.O43172	0.2997181	0.247082	1.213033	0.225686	0.097891	0.579404	0.168951	0.865945	0.246415	0.171801	1.4343	0.152495
NHS.A0A087WWC4	-0.164567	0.135678	-1.21292	0.225871	-0.07826	0.370003	-0.21151	0.832668	-0.26124	0.108258	-2.41315	0.01655
CASP3.P42574	0.1369161	0.112891	1.21282	0.225954	-0.19664	0.302708	-0.64961	0.516585	-0.00589	0.08709	-0.06766	0.946118

EIF4E.D6RBW1	0.3308286	0.272986	1.21189	0.226122	-0.06871	0.665064	-0.10331	0.917786	-0.2143	0.197473	-1.08521	0.278673
TAGLN.Q01995	-0.043791	0.036137	-1.21181	0.226153	0.011018	0.089567	0.123016	0.902174	-0.03378	0.026576	-1.27104	0.204667
TMEM132D.Q14C87	-0.199955	0.165004	-1.21182	0.226184	-0.28	0.409349	-0.68401	0.494511	0.001612	0.121203	0.013301	0.989397
MTHFD1L.B7ZM99	0.1981474	0.163529	1.211697	0.226196	0.284534	0.39173	0.726351	0.468172	0.187768	0.116143	1.616693	0.106962
KIAA1324L.A8MWY0	0.2964725	0.244785	1.211153	0.22642	-1.06807	0.614164	-1.73907	0.083048	0.254807	0.181711	1.402263	0.161871
CPEB4.Q17RY0	-0.242866	0.20053	-1.21112	0.226435	0.173799	0.499595	0.347879	0.728173	-0.18205	0.148545	-1.22554	0.221326
SLC29A2.Q14542	0.1545276	0.127492	1.212061	0.226443	-0.29889	0.328232	-0.91062	0.36367	0.053686	0.093657	0.573222	0.567183
UNC5B.Q8IZJ1	0.1833262	0.151436	1.210583	0.226712	-0.26278	0.418794	-0.62748	0.530886	0.353866	0.120472	2.937332	0.003602
ZC3H14.Q6PJT7	0.2183186	0.180412	1.210111	0.226803	-0.1506	0.435473	-0.34583	0.729704	-0.17855	0.129173	-1.38226	0.167887
TACC2.D6RAA5	0.2534695	0.209499	1.209886	0.22689	0.485729	0.520678	0.932877	0.351609	0.094297	0.155017	0.608298	0.543435
OClAD2.Q56VL3	0.1349331	0.111568	1.209429	0.227065	-0.07863	0.291349	-0.26989	0.787424	-0.07835	0.086567	-0.90511	0.366111
IGLV3.10.A0A075B6K4	-0.046978	0.03884	-1.2095	0.227093	0.105624	0.094799	1.114184	0.266149	-0.00841	0.028595	-0.29395	0.769014
FAM103A1.Q9BTL3	-0.166005	0.137292	-1.20914	0.227176	-0.13788	0.347967	-0.39624	0.692197	-0.31091	0.102023	-3.04742	0.002507
SDR39U1.Q9NRG7.2	-0.124238	0.102751	-1.20912	0.227186	0.161271	0.267412	0.603082	0.546895	-0.02837	0.079581	-0.35654	0.72168
RAB4B.P61018	-0.321868	0.266221	-1.20903	0.227219	-0.12681	0.66408	-0.19096	0.84868	-0.00453	0.197564	-0.02294	0.981715
STX16.O14662	0.2848319	0.235593	1.209001	0.227229	0.924546	0.673005	1.373758	0.170509	0.188156	0.200531	0.938287	0.348827
VTA1.A0A087WY55	-0.251619	0.208176	-1.20868	0.227353	-0.09357	0.533366	-0.17544	0.860847	0.227618	0.158147	1.439278	0.151081
SLC35A4.L0R6Q1	-0.216683	0.179291	-1.20856	0.227419	-0.25039	0.524736	-0.47718	0.633584	-0.32436	0.151623	-2.13926	0.033229
FDXR.P22570	0.1466311	0.121346	1.208368	0.227472	-0.55792	0.313443	-1.77997	0.07606	0.026547	0.093707	0.283297	0.777138
TADA3.O75528	-0.24382	0.201686	-1.20891	0.227526	-0.1595	0.508093	-0.31392	0.753878	0.312509	0.14569	2.14503	0.033056
C19orf52.Q9BSF4	0.2536923	0.209992	1.208102	0.227574	0.349059	0.545324	0.640095	0.522583	-0.10589	0.16222	-0.65274	0.514407
RABL2B.Q9UNT1.2	0.1056942	0.087453	1.208589	0.227591	0.03563	0.216724	0.164405	0.869561	-0.05788	0.062278	-0.92937	0.353698
AVEN.Q9NQS1	0.172599	0.142908	1.207762	0.227705	-0.20952	0.378541	-0.55349	0.580329	0.007934	0.112664	0.070425	0.943901
ECHDC2.Q86YB7	-0.165016	0.136657	-1.20752	0.227836	-0.21821	0.39218	-0.55641	0.578364	0.097705	0.115326	0.847209	0.397582
HARS2.P49590	-0.26161	0.216705	-1.20721	0.227916	-0.05715	0.516937	-0.11056	0.912039	0.073285	0.153726	0.476724	0.633894
PGAM4.Q8N0Y7	0.1877648	0.155521	1.207324	0.228169	0.340622	0.400262	0.850996	0.395794	0.166908	0.117658	1.418584	0.157585
HVCN1.Q96D96	0.1405924	0.116518	1.206615	0.228185	-0.06847	0.310985	-0.22018	0.82589	0.113996	0.091314	1.24839	0.212906
PRMT8.Q9NR22	-0.189133	0.156771	-1.20643	0.228219	0.62742	0.387339	1.619821	0.106287	-0.28449	0.114579	-2.48295	0.013559
RPL31.P62899	0.2743404	0.227405	1.206398	0.22823	-0.28257	0.578227	-0.48868	0.625412	0.242641	0.171526	1.414602	0.158189
SCARF1.Q14162	0.1369955	0.113602	1.205924	0.228505	0.165103	0.29709	0.555733	0.578864	-0.13199	0.085336	-1.54666	0.123142
RNF31.Q96EPO	0.2791866	0.231649	1.205215	0.228686	0.027798	0.566241	0.049092	0.960878	0.190227	0.1681	1.131625	0.258667
DDI2.Q5TDH0	0.2606338	0.216274	1.205108	0.228727	0.903352	0.540079	1.672631	0.095409	0.043582	0.161368	0.270077	0.787281
METTL13.Q8N6R0	-0.281198	0.233402	-1.20478	0.228854	0.511635	0.614565	0.832516	0.405758	0.03812	0.183014	0.208292	0.835137
SLC9A3R2.Q15599.3	-0.167268	0.138878	-1.20443	0.22899	-0.21897	0.349143	-0.62717	0.531011	-0.08416	0.10382	-0.81063	0.4182

MVP.Q14764	0.0772019	0.064103	1.204343	0.229022	-0.02791	0.175586	-0.15896	0.873803	0.04226	0.052181	0.809876	0.418633
ISOC2.Q96AB3	-0.110125	0.091439	-1.20435	0.229122	0.05585	0.265453	0.210394	0.833524	0.020111	0.076804	0.261844	0.793648
MINA.Q8IU8	0.1602399	0.132951	1.205252	0.229169	-0.02331	0.344298	-0.0677	0.946115	0.175962	0.104791	1.679169	0.095121
GOLT1B.Q9Y3E0	0.0848721	0.070448	1.204753	0.229424	0.00356	0.221196	0.016095	0.98718	0.040714	0.061381	0.663308	0.508145
CDH11.P55287	0.2558873	0.212671	1.20321	0.22946	-0.72752	0.565235	-1.2871	0.199019	-0.19363	0.168237	-1.15093	0.250647
SDF2.Q99470	-0.146765	0.122029	-1.2027	0.229657	0.18537	0.299373	0.619194	0.536244	-0.0462	0.089075	-0.51862	0.604395
PACSIN2.Q9UNF0	0.1548871	0.128757	1.202944	0.22986	-0.23219	0.335025	-0.69306	0.489079	0.027291	0.096794	0.281952	0.778272
CHIC1.Q5VXU3.2	-0.242319	0.201663	-1.2016	0.230454	0.066419	0.523767	0.12681	0.899224	-0.04669	0.157285	-0.29685	0.766905
MED18.Q9BUE0	0.1679155	0.139781	1.201279	0.230499	-0.28547	0.387241	-0.73718	0.461881	0.004248	0.11774	0.036082	0.971253
FADS2.O95864	-0.073405	0.06114	-1.20061	0.230503	-0.07905	0.162678	-0.48595	0.627375	-0.03686	0.046939	-0.78535	0.432894
NUP43.Q8NFH3	0.1913069	0.159374	1.200366	0.23057	-0.1291	0.391052	-0.33014	0.741523	-0.00426	0.117274	-0.03637	0.971015
LIPA.A0A0A0MT32	0.0950674	0.07919	1.200499	0.230589	0.011764	0.199278	0.059034	0.952969	0.042077	0.056427	0.745677	0.456511
TMEM55B.Q86T03	-0.195454	0.162842	-1.20027	0.230599	-0.66106	0.417539	-1.58324	0.114387	-0.07669	0.124636	-0.6153	0.538808
EIF5A2.Q9GZV4	0.1654014	0.137854	1.19983	0.230838	0.135863	0.378854	0.358617	0.720156	-0.00153	0.111845	-0.0137	0.989075
LSM4.V9GZ56	-0.134521	0.112139	-1.19959	0.23086	0.2914	0.281609	1.034766	0.301585	0.016663	0.083913	0.19857	0.842729
AKAP2.Q9Y2D5.4	-0.23155	0.193042	-1.19948	0.230904	-0.19575	0.434307	-0.45073	0.652503	-0.06384	0.12919	-0.49416	0.621543
CHCHD4.Q8N4Q1	-0.179657	0.149792	-1.19938	0.230944	0.297291	0.374272	0.794318	0.427618	-0.15742	0.111093	-1.41705	0.157472
FAM163B.P0C2L3	-0.177675	0.148052	-1.20009	0.230966	-0.00972	0.384318	-0.02528	0.979857	-0.10964	0.11277	-0.97228	0.332062
PPM1A.P35813	0.5014668	0.41814	1.19928	0.230982	0.555006	1.076494	0.515568	0.606524	0.127108	0.320294	0.396849	0.691752
PGGT1B.P53609	0.2423682	0.202114	1.199167	0.231045	-0.9148	0.53326	-1.71548	0.087283	0.256533	0.159005	1.613365	0.10771
STX4.Q12846	0.2694369	0.224781	1.198666	0.231221	0.278484	0.61471	0.453034	0.650841	-0.24649	0.182389	-1.35147	0.17753
SMPX.Q9UHP9	0.1608609	0.134222	1.198466	0.231485	-0.2086	0.337353	-0.61834	0.53695	-0.03312	0.096879	-0.34182	0.73279
ATG3.Q9NT62	0.3075274	0.256729	1.197867	0.231532	-1.22507	0.693058	-1.76762	0.078108	0.727583	0.203046	3.583333	0.000394
PPA1.Q15181	0.2521066	0.210473	1.197808	0.231555	0.060159	0.559978	0.107431	0.914517	0.375348	0.165217	2.27185	0.023781
IFT22.Q9H7X7	-0.182994	0.152618	-1.19903	0.231578	0.365116	0.425631	0.857823	0.392234	-0.31724	0.117417	-2.70182	0.007617
UBE2Q1.Q7Z7E8	0.3701794	0.309082	1.197673	0.231607	-0.1792	0.786174	-0.22794	0.819841	0.374494	0.232923	1.607799	0.108897
POMT1.Q9Y6A1	0.1878786	0.156754	1.19856	0.231677	-0.20882	0.368741	-0.5663	0.571876	-0.14384	0.110873	-1.29733	0.196134
LSM11.P83369	-0.13306	0.11108	-1.19788	0.231701	0.042387	0.267691	0.158341	0.87432	-0.14199	0.077935	-1.82187	0.069709
RFFL.Q8WZ73	0.1558816	0.130112	1.198055	0.231793	-0.17745	0.366228	-0.48454	0.628545	-0.04052	0.109651	-0.36949	0.712162
TSC2.H3BMQ0	-0.41468	0.346428	-1.19702	0.231863	1.043388	0.865875	1.20501	0.229118	-0.6984	0.25512	-2.73755	0.006547
PALM2.Q8IXS6.2	-0.220956	0.184604	-1.19692	0.231901	0.105018	0.469154	0.223845	0.823026	-0.27223	0.138717	-1.96247	0.050601
CORO1C.Q9ULV4	0.2863131	0.239224	1.19684	0.231932	-0.62714	0.618912	-1.01329	0.311711	0.128777	0.184275	0.698834	0.48518
SLC7A6OS.A0A087WY19	0.1594455	0.133226	1.196805	0.232039	0.153317	0.335443	0.457058	0.648005	0.22363	0.100229	2.231194	0.026508
EXOSC5.Q9NQT4	0.20618	0.172335	1.196392	0.232276	0.037344	0.453369	0.082369	0.934423	0.034806	0.135381	0.257096	0.797328

FIP1L1.A0A0B4J203	0.1569976	0.131316	1.195573	0.23247	-0.30892	0.353212	-0.8746	0.382516	-0.27031	0.104024	-2.59848	0.009842
ASTN2.O75129	-0.233982	0.195799	-1.19501	0.232646	-0.01464	0.553834	-0.02644	0.978926	0.295785	0.163897	1.804696	0.072093
VKORC1L1.Q8N0U8	0.1339973	0.112134	1.19498	0.232736	-0.09705	0.276877	-0.35053	0.726213	0.133711	0.081849	1.633622	0.103487
ADAM22.H7C3I4	0.1665814	0.139498	1.194147	0.233052	-0.47322	0.391349	-1.2092	0.227638	0.014694	0.116455	0.126174	0.899688
BIRC2.E9PMH5	-0.271938	0.227869	-1.1934	0.233275	-0.13083	0.566866	-0.23079	0.81763	-0.10212	0.168547	-0.6059	0.545025
PRPS1.P60891	0.3523294	0.295253	1.193314	0.233308	-0.12172	0.742333	-0.16398	0.869857	0.277098	0.220279	1.257941	0.20936
FKBP9.O95302	-0.133134	0.111598	-1.19298	0.233439	-0.10223	0.271416	-0.37665	0.706695	-0.18679	0.08006	-2.33312	0.020281
MCUR1.Q96AQ8	0.2189076	0.183576	1.192461	0.233642	-0.34295	0.467466	-0.73365	0.463719	-0.07711	0.139115	-0.55431	0.579763
NUDT5.A6NFX8	0.2324281	0.194926	1.192392	0.233669	0.490616	0.51299	0.956385	0.339623	0.375824	0.151333	2.483433	0.013541
PSMB6.P28072	0.3959487	0.332082	1.192322	0.233696	-1.00915	0.858327	-1.17572	0.240611	0.6186	0.253483	2.440406	0.015231
DBI.B8ZWD1	0.1196043	0.100335	1.192051	0.233802	-0.02093	0.254558	-0.08222	0.934521	0.109044	0.075474	1.4448	0.149524
RFC2.P35250	0.1879861	0.157665	1.192315	0.233857	0.318689	0.468666	0.679991	0.497139	0.079636	0.141383	0.563263	0.573761
OSBPL6.Q9BZF3.5	-0.331682	0.278341	-1.19164	0.233964	0.272858	0.710434	0.384072	0.701188	-0.00802	0.211392	-0.03793	0.96977
GRM3.Q14832	-0.203758	0.171039	-1.19129	0.2341	-0.72668	0.432905	-1.67862	0.094233	-0.08026	0.129285	-0.62077	0.535204
ERMP1.Q7Z2K6	0.1965354	0.165077	1.190571	0.234383	-0.49659	0.415058	-1.19643	0.232443	0.052807	0.123721	0.426826	0.669802
RAVER1.A0A087WZ13	0.1698088	0.142605	1.190765	0.234408	-0.55491	0.386125	-1.43714	0.151882	0.239018	0.112204	2.130216	0.034093
ARMCX1.Q9P291	-0.171678	0.144273	-1.18996	0.234632	0.681045	0.361896	1.881882	0.060804	-0.01318	0.109242	-0.12066	0.904039
APOB.A0A087WTM7	0.1329918	0.111648	1.191175	0.234671	0.270462	0.269114	1.005011	0.316478	-0.00735	0.076993	-0.09544	0.92409
SERAC1.Q96JX3	-0.185268	0.155716	-1.18978	0.234691	-0.00634	0.406563	-0.01559	0.987573	0.01486	0.120942	0.122865	0.902294
NTHL1.P78549	0.1444565	0.121384	1.19008	0.234719	-0.32186	0.288701	-1.11485	0.266043	0.01187	0.080515	0.14742	0.882926
SLC25A1.P53007	0.2393722	0.201276	1.189274	0.234892	-1.04159	0.502499	-2.07283	0.039014	0.205498	0.150064	1.369405	0.171864
SIRPB1.Q5TFQ8	0.0276704	0.02327	1.189101	0.235073	-0.05064	0.061094	-0.82883	0.407966	-0.00591	0.017586	-0.3359	0.737219
SERPINE2.P07093.3	-0.102941	0.086615	-1.18848	0.235204	-0.34089	0.218559	-1.55973	0.119845	-0.24274	0.063799	-3.8048	0.000171
LYRM5.Q6IPR1	0.1722518	0.144832	1.189324	0.235228	-0.57282	0.422563	-1.35559	0.176791	-0.31789	0.126404	-2.5149	0.01271
RAB1B.Q9H0U4	-0.159394	0.134153	-1.18816	0.235332	0.209502	0.364738	0.57439	0.566121	0.065544	0.108497	0.604108	0.546214
RAB5A.P20339	0.2680644	0.225679	1.187815	0.235466	-0.91895	0.603641	-1.52234	0.128943	-0.09466	0.180162	-0.52539	0.599685
HINT1.P49773	-0.199828	0.168335	-1.18709	0.235752	0.490989	0.432714	1.134673	0.257389	0.206023	0.12846	1.603787	0.109779
ANK3.A0A087WTF3	0.1457927	0.122684	1.188357	0.235848	0.158338	0.330284	0.479399	0.632363	0.020442	0.097368	0.209942	0.834002
ABCE1.P61221	0.400273	0.337297	1.186707	0.235902	-0.79448	0.879089	-0.90375	0.366827	-0.62208	0.259463	-2.39755	0.017096
SASH3.O75995	0.1685573	0.141913	1.187754	0.235926	-0.23531	0.376993	-0.62416	0.533314	0.084773	0.11789	0.719083	0.473028
PPP1R7.Q15435	-0.375062	0.31607	-1.18664	0.235929	-0.40286	0.792145	-0.50857	0.611419	0.352946	0.234894	1.502577	0.133966
NDUFAF7.Q7L592	-0.165081	0.139146	-1.18639	0.236029	0.622513	0.348327	1.787153	0.07489	-0.13927	0.103853	-1.34099	0.180904
TMEM126A.Q9H061	-0.193934	0.163487	-1.18623	0.236089	0.005337	0.447681	0.011921	0.990497	-0.39728	0.131252	-3.02683	0.002679
NDE1.Q9NXR1.2	0.15461	0.130333	1.186266	0.236166	-0.20445	0.362599	-0.56385	0.57334	0.183904	0.106529	1.726331	0.085462

USP5.P45974	0.4037699	0.340607	1.185442	0.236401	-0.27158	0.919937	-0.29521	0.76803	0.274219	0.27326	1.003509	0.316398
KIT.P10721	0.1573464	0.132761	1.185187	0.236502	-0.43894	0.347059	-1.26475	0.206911	0.043641	0.10348	0.421736	0.67351
STXBP2.A0A087WWS7	0.159335	0.134297	1.18644	0.236642	-0.01743	0.347931	-0.05009	0.960121	0.270493	0.098392	2.749134	0.006741
LBP.P18428	0.0607347	0.051258	1.184879	0.23681	0.005629	0.135538	0.041532	0.966908	0.087945	0.037653	2.335674	0.02038
RGS17.Q9UGC6	-0.203576	0.171899	-1.18428	0.236861	-0.29528	0.421641	-0.70031	0.484261	0.023323	0.125523	0.185806	0.852718
DPH6.Q7L8W6	0.2216712	0.187044	1.185129	0.23693	0.425888	0.506316	0.841151	0.401386	-0.0696	0.15697	-0.44341	0.658004
APOL1.O14791	0.0972045	0.082001	1.185408	0.236973	-0.10349	0.213341	-0.48509	0.628302	0.009738	0.065484	0.14871	0.881977
MAP2K4.P45985	-0.317034	0.267842	-1.18366	0.237105	0.142471	0.658803	0.216257	0.828929	-0.0534	0.195973	-0.27247	0.785444
OTUD5.Q96G74	0.1719584	0.145151	1.18469	0.23711	0.305151	0.37431	0.815235	0.41598	-0.00986	0.115112	-0.08566	0.931833
CDK5RAP3.Q96JB5	0.3493489	0.295541	1.182067	0.237737	0.305145	0.791491	0.385531	0.700108	-0.09409	0.23545	-0.39962	0.689708
DAG1.Q14118	0.3393905	0.287178	1.181811	0.237838	-0.52175	0.745576	-0.6998	0.484579	-0.09037	0.221911	-0.40722	0.684131
SH3RF1.Q7Z6J0	-0.180693	0.152955	-1.18135	0.238031	-0.09312	0.412441	-0.22577	0.821533	-0.23157	0.123085	-1.88141	0.060868
TUBB.P07437	-0.186686	0.158135	-1.18055	0.238338	0.030583	0.396841	0.077066	0.938621	0.219527	0.117394	1.870001	0.062426
VARS.P26640	0.3247252	0.275089	1.180437	0.238383	1.097263	0.70426	1.558036	0.120245	0.040912	0.210311	0.19453	0.845888
PRKCB.P05771.2	-0.200639	0.169979	-1.18038	0.238406	-0.42622	0.425967	-1.00059	0.317807	0.064035	0.12687	0.504727	0.614109
SF1.Q15637.5	0.1788581	0.151547	1.180216	0.238471	-0.62385	0.39493	-1.57965	0.115207	-0.24021	0.117165	-2.05018	0.041188
ACTG1.I3L4N8	-0.073729	0.062456	-1.18049	0.238519	0.122444	0.180566	0.678112	0.498349	0.012257	0.051749	0.236849	0.812974
GPC4.O75487	0.1490454	0.12631	1.179996	0.238559	0.194865	0.326432	0.596954	0.550974	0.114391	0.096946	1.179949	0.238925
SS18L1.O75177	0.1463584	0.124068	1.17966	0.23872	-0.36994	0.320098	-1.15571	0.24872	-0.2852	0.094745	-3.01022	0.002832
TPPP3.Q9BW30	0.1054469	0.089398	1.179522	0.238747	-0.22068	0.230596	-0.95699	0.339317	-0.00547	0.068699	-0.07963	0.936579
PSME2.A0A087X1Z3	0.1950316	0.165405	1.179114	0.238909	-0.34155	0.462046	-0.73922	0.460331	0.268264	0.136725	1.962067	0.050649
ACAN.E7EX88	0.1039177	0.088148	1.178904	0.238993	0.096548	0.226937	0.425439	0.670812	0.065159	0.067428	0.966346	0.334624
FLII.J3KS54	0.3004455	0.254695	1.179629	0.239058	0.533502	0.721022	0.739924	0.460274	-0.1113	0.214683	-0.51842	0.604776
PDPR.Q8NCN5	0.2586095	0.219419	1.178609	0.23911	-0.39077	0.569865	-0.68573	0.493397	0.047283	0.169632	0.278737	0.780633
NGRN.Q9NPE2	-0.174661	0.148152	-1.17894	0.239164	0.05042	0.374203	0.13474	0.892932	0.173357	0.11408	1.519614	0.129941
BCL2L2.Q92843	-0.276906	0.234996	-1.17834	0.239234	0.376611	0.611819	0.61556	0.53865	-0.52941	0.178769	-2.96142	0.003306
ATP5L.O75964	-0.233285	0.198	-1.1782	0.239272	-0.2289	0.535339	-0.42759	0.669248	0.079452	0.159237	0.498957	0.618164
SH3BGR12.Q9UJC5	-0.340291	0.288835	-1.17815	0.239292	0.310634	0.765716	0.405679	0.685259	0.094185	0.227785	0.413484	0.679538
XKR6.Q5GH73	0.1702826	0.144516	1.1783	0.239359	-0.17652	0.379503	-0.46513	0.642238	0.050891	0.109878	0.463155	0.643655
PCDH19.Q8TAB3	-0.214894	0.18247	-1.1777	0.239474	0.164466	0.457118	0.359789	0.71925	-0.15403	0.135731	-1.13478	0.257344
STX6.O43752	-0.272501	0.231396	-1.17764	0.239496	-1.04185	0.586521	-1.77632	0.076661	0.367137	0.174121	2.108513	0.035789
CDH13.P55290	-0.149697	0.12712	-1.17761	0.239508	-0.06482	0.299313	-0.21656	0.828697	-0.07539	0.088944	-0.84767	0.397278
PCNP.Q8WW12	0.162263	0.137801	1.177517	0.239545	-0.17004	0.353711	-0.48073	0.631046	-0.44981	0.102115	-4.40491	1.46E-05
SETMAR.Q53H47	0.2056863	0.174647	1.177728	0.239791	-0.29144	0.468442	-0.62214	0.534592	-0.10013	0.137594	-0.7277	0.46769

ITCH.Q96J02	0.2820783	0.239722	1.176688	0.239875	-0.13576	0.568486	-0.23882	0.811406	-0.06177	0.169094	-0.36531	0.715132
ZEB2.O60315	0.1355806	0.115214	1.176776	0.239899	-0.2829	0.309576	-0.91383	0.361597	-0.03362	0.091404	-0.36779	0.71331
KCND3.Q9UK17	-0.297545	0.253074	-1.17572	0.240262	-1.07781	0.678801	-1.58782	0.113346	-0.45337	0.201109	-2.25436	0.024872
NEBL.O76041.2	-0.229375	0.19511	-1.17562	0.240302	0.262561	0.521499	0.503474	0.614989	-0.6793	0.150328	-4.51881	8.86E-06
ITGA7.Q13683	0.182457	0.155216	1.175507	0.240347	-0.13773	0.41266	-0.33377	0.738777	0.18182	0.122346	1.486114	0.138265
TXNDC12.O95881	0.1701906	0.144799	1.175362	0.240405	-0.25936	0.402756	-0.64396	0.52008	-0.14101	0.119625	-1.17873	0.23941
HIST1H1B.P16401	0.068831	0.058561	1.175369	0.24042	-0.18505	0.141443	-1.30832	0.191759	0.04798	0.04218	1.137496	0.256233
GARS.P41250	0.3403571	0.28959	1.175308	0.240427	0.294854	0.716386	0.411586	0.680928	0.193239	0.212888	0.907706	0.364739
ALDH1A1.P00352	0.0938064	0.079817	1.175265	0.240443	0.038178	0.189052	0.201943	0.840094	-0.00531	0.056243	-0.09441	0.924843
EIF4G2.D3DQV9	0.334044	0.284236	1.175233	0.240456	-0.64472	0.729777	-0.88344	0.377682	0.364251	0.216382	1.683372	0.09331
HNRNP1.P31943	0.2343234	0.199396	1.175167	0.240483	0.136461	0.4572	0.298471	0.765544	0.146109	0.135775	1.076107	0.282716
FAM96B.Q9Y3D0	-0.159685	0.135901	-1.17501	0.240546	0.159025	0.342389	0.464457	0.642647	-0.09049	0.101761	-0.88927	0.37455
GABRA3.P34903	-0.168931	0.143776	-1.17496	0.240566	-0.10824	0.366083	-0.29566	0.767684	-0.08865	0.108802	-0.81475	0.415841
ZNF330.Q9Y3S2	0.2519396	0.21432	1.175527	0.240572	0.332442	0.626651	0.530506	0.59628	0.129194	0.189978	0.680047	0.497168
VSTM2A.F8W8J5	0.1305456	0.111126	1.174757	0.240647	0.555528	0.287757	1.930544	0.054451	0.125418	0.085821	1.461394	0.14492
KCTD10.Q9H3F6	0.2934724	0.249821	1.17473	0.240658	1.041064	0.624551	1.666899	0.096544	0.210285	0.186241	1.129099	0.259729
SGTA.O43765	-0.303252	0.258197	-1.1745	0.24075	0.087311	0.63799	0.136853	0.891236	0.11217	0.189689	0.591336	0.554726
FAM84B.Q96KN1	0.1503061	0.127889	1.175284	0.240789	0.407408	0.35694	1.141391	0.255199	0.101696	0.106795	0.952251	0.342226
METAP2.F8VQZ7	0.1434225	0.122074	1.174885	0.240873	0.217459	0.3261	0.666849	0.505615	0.184811	0.103898	1.77878	0.076751
EMILIN1.Q9Y6C2	0.0786811	0.067014	1.174096	0.24097	-0.10345	0.169236	-0.61129	0.541501	0.047287	0.052008	0.909225	0.364005
PAK7.Q9P286	-0.246356	0.209953	-1.17339	0.241196	0.151434	0.482751	0.313689	0.753968	-0.03745	0.143617	-0.26078	0.794432
PHYHIP.Q92561	-0.285256	0.243184	-1.173	0.241349	0.304941	0.602309	0.506286	0.613015	0.200057	0.17889	1.118326	0.264294
TRAPPC9.Q96Q05	0.4937742	0.421046	1.172732	0.241457	0.326586	1.041335	0.313622	0.754019	0.699148	0.307273	2.275333	0.023568
POTEKP.Q9BYX7	0.0777155	0.066211	1.173754	0.241543	-0.22961	0.174766	-1.31383	0.190726	0.074446	0.049682	1.498451	0.135927
CBR4.Q8N4T8	-0.188075	0.160453	-1.17215	0.241691	0.153649	0.403603	0.380693	0.703692	-0.06643	0.120034	-0.5534	0.580388
TRNT1.Q96Q11	0.2663046	0.227218	1.172022	0.241742	-1.52501	0.552842	-2.75849	0.006152	0.441208	0.16457	2.680972	0.007734
EOGT.Q5NDL2	0.1509641	0.128764	1.172408	0.241756	-0.0993	0.339753	-0.29228	0.770329	0.021405	0.100116	0.213804	0.830884
CDK2.P24941	-0.075719	0.064546	-1.17311	0.241792	0.023603	0.1806	0.130691	0.896183	0.005489	0.048463	0.11326	0.909966
PFN1.P07737	0.2605344	0.222323	1.171873	0.241802	-0.7918	0.558863	-1.4168	0.157546	0.224238	0.166302	1.348375	0.178522
GORAB.Q5T7V8	0.2262929	0.192916	1.173012	0.241806	-0.20056	0.517916	-0.38725	0.699057	0.194358	0.166548	1.16698	0.244853
MAP7D1.Q3KQU3.4	-0.180663	0.154162	-1.17191	0.241824	-0.31606	0.381889	-0.82762	0.408558	-0.47949	0.111398	-4.30433	2.28E-05
EZR.P15311	0.2374418	0.202641	1.171734	0.241858	0.042466	0.544702	0.077962	0.937909	0.114468	0.16191	0.706985	0.480107
KLHDC2.G3V3U8	0.1000415	0.085373	1.171812	0.24197	0.21859	0.207065	1.055659	0.292139	0.009301	0.063228	0.147099	0.883172
SNX13.Q9Y5W8	-0.298007	0.254402	-1.1714	0.241991	-0.58093	0.634626	-0.91539	0.360697	-0.04481	0.189028	-0.23705	0.812777

PPFIA1.Q13136	0.3618581	0.308957	1.171225	0.242062	0.368515	0.76428	0.482173	0.630023	-0.12934	0.227327	-0.56895	0.569803
FRA10AC1.Q70Z53	0.1562477	0.133291	1.17223	0.242119	-0.38371	0.325917	-1.17733	0.240643	0.107807	0.099178	1.086999	0.278515
TOMM5.Q8N4H5	-0.182029	0.155471	-1.17083	0.24222	-0.29966	0.384924	-0.7785	0.436871	-0.38031	0.112566	-3.37856	0.000822
RAD23A.P54725	0.3328653	0.284347	1.17063	0.242301	0.151228	0.752115	0.20107	0.840776	0.2519	0.223298	1.128092	0.260154
KCTD13.Q8WZ19	-0.235497	0.200984	-1.17172	0.242421	0.123275	0.542898	0.227069	0.820675	-0.08966	0.159233	-0.5631	0.5742
FUBP1.Q96AE4	0.2688061	0.229732	1.170086	0.242519	-0.77038	0.537482	-1.43331	0.152776	-0.09531	0.160329	-0.59449	0.552616
KLC4.Q9NSK0	0.3334532	0.284988	1.170059	0.24253	0.287082	0.789467	0.363641	0.716374	-0.22141	0.234566	-0.94393	0.345941
SLC25A22.Q9H936	-0.193611	0.165472	-1.17005	0.242534	-0.08778	0.406994	-0.21567	0.829384	0.06811	0.121021	0.562794	0.573982
ANK2.Q01484.7	-0.108239	0.09251	-1.17003	0.242643	-0.19578	0.270158	-0.72468	0.469306	-0.00888	0.077289	-0.1149	0.908615
NAAA.Q02083	-0.144527	0.123512	-1.17014	0.242696	0.159712	0.292512	0.546003	0.585589	0.088562	0.083023	1.066716	0.287209
WBP11.Q9Y2W2	0.1927193	0.16478	1.169558	0.242732	0.122907	0.413681	0.297106	0.766584	-0.27756	0.122066	-2.27383	0.023659
SELO.Q9BVL4	0.1700043	0.145385	1.169336	0.242821	0.529965	0.380462	1.392952	0.164632	0.069964	0.113465	0.616612	0.537943
THOC3.Q96J01	-0.136207	0.116489	-1.16927	0.242847	0.419736	0.291046	1.442164	0.150266	0.034784	0.086849	0.400515	0.689053
PRPF31.Q8WWY3	0.2406777	0.205862	1.169119	0.242908	-0.4255	0.546497	-0.77859	0.436813	-0.03353	0.162721	-0.20608	0.836861
OCLN.Q16625	0.1817189	0.155485	1.168722	0.243116	-0.37631	0.416344	-0.90384	0.366852	0.087416	0.12156	0.719118	0.472664
TAF15.Q92804	0.1932232	0.165386	1.168316	0.243232	-0.23899	0.414906	-0.57601	0.565029	-0.33781	0.121994	-2.76906	0.005961
MRPL16.Q9NX20	-0.160536	0.137435	-1.16809	0.243358	0.06292	0.357835	0.175836	0.860545	-0.05728	0.105818	-0.54128	0.588727
ADRA1B.P35368	-0.151671	0.129849	-1.16806	0.243646	-0.0573	0.329376	-0.17396	0.862074	-0.16065	0.094547	-1.69916	0.090867
ATM.Q13315	0.1543153	0.132053	1.168588	0.243674	0.214696	0.410556	0.52294	0.601798	0.086131	0.129462	0.665298	0.506895
TTC26.B7Z6R6	0.1089866	0.093315	1.167943	0.243688	0.262082	0.243709	1.075389	0.283516	0.091209	0.068959	1.322659	0.187482
ATP5B.F8W0P7	-0.138297	0.118485	-1.16721	0.243745	0.130293	0.303976	0.428631	0.668521	0.061768	0.091682	0.673718	0.501046
MRPL11.Q9Y3B7	-0.151743	0.13004	-1.16689	0.243805	0.102721	0.338632	0.303342	0.761833	-0.13862	0.100444	-1.38004	0.168569
HDAC2.Q92769	0.2426962	0.207999	1.166816	0.243836	0.072905	0.484407	0.150503	0.880465	0.241074	0.143456	1.680471	0.093873
PHF1.O43189	-0.207066	0.177423	-1.16708	0.244004	-0.65556	0.439273	-1.49237	0.137088	0.230555	0.133072	1.73255	0.08463
TAPT1.Q6NXT6	0.3349964	0.287217	1.166353	0.244023	-0.77714	0.791358	-0.98203	0.326851	0.233657	0.235407	0.992566	0.321696
SARS.Q5T5C7	0.3296562	0.282955	1.165048	0.244551	-0.81792	0.738586	-1.10741	0.268976	0.429205	0.218797	1.961663	0.050696
CEP76.Q8TAP6	-0.06645	0.057029	-1.1652	0.244756	-0.10542	0.144147	-0.73133	0.465448	-0.01756	0.038972	-0.45068	0.652718
SEC11C.K7EJQ7	-0.191867	0.164768	-1.16446	0.244788	-0.50106	0.412056	-1.21601	0.224906	0.048316	0.122841	0.393318	0.694355
C5orf24.Q7Z6I8	0.0959659	0.082368	1.165084	0.244804	-0.0162	0.237949	-0.06809	0.945781	-0.15094	0.07139	-2.11426	0.035667
TRIM2.Q9C040	0.2965702	0.25475	1.164161	0.24491	-0.46002	0.650981	-0.70665	0.480314	0.348964	0.192795	1.810027	0.07126
IARS2.Q9NSE4	-0.350234	0.300857	-1.16412	0.244926	0.855653	0.771938	1.108448	0.268528	0.220952	0.22975	0.961706	0.336947
IDE.P14735	0.3475334	0.298623	1.163787	0.245061	1.048676	0.748776	1.400519	0.162358	0.494586	0.221679	2.231096	0.02639
NPM1.P06748	0.2080855	0.178811	1.163717	0.245089	0.373175	0.445907	0.836889	0.403299	0.088263	0.132705	0.665112	0.506473
CMTR1.Q8N1G2	0.1583404	0.136099	1.16342	0.24521	0.160202	0.319016	0.502175	0.615901	-0.0041	0.09494	-0.04314	0.965618

DIS3.Q9Y2L1	0.2291453	0.196984	1.16327	0.245271	-0.21267	0.472706	-0.4499	0.653094	0.030673	0.140657	0.218068	0.82752
SLC7A10.Q9NS82	-0.119309	0.102581	-1.16308	0.245349	-0.00461	0.263178	-0.01753	0.986023	-0.20174	0.077448	-2.6049	0.009633
POLR2H.C9JLU1	0.2839305	0.24416	1.162888	0.245425	0.591454	0.601276	0.983664	0.326048	0.181226	0.178852	1.013272	0.31172
RNASE4.P34096	0.1103904	0.094882	1.163455	0.24557	0.108982	0.228885	0.476145	0.634536	-0.00081	0.067267	-0.0121	0.99036
MRPL39.Q9NYK5	-0.164279	0.141341	-1.16229	0.245669	0.287781	0.36444	0.789653	0.430334	-0.08322	0.10842	-0.76755	0.44334
LAMP5.Q9UJQ1	-0.158758	0.136611	-1.16211	0.24574	0.305654	0.34248	0.892471	0.372833	0.050949	0.101972	0.49964	0.617683
SLC25A40.Q8TBP6	-0.14349	0.123505	-1.16182	0.245859	-0.04616	0.327712	-0.14085	0.888079	0.03427	0.097472	0.351587	0.725387
STK11.K7EP59	-0.328613	0.282991	-1.16121	0.246105	1.348536	0.696499	1.936165	0.053756	-0.02313	0.208441	-0.11099	0.9117
GTF2E2.P29084	0.0631958	0.054425	1.161156	0.24654	0.30866	0.132878	2.322887	0.021291	0.034282	0.041006	0.836031	0.404234
EXOSC10.Q01780	0.1373673	0.118418	1.160016	0.246731	-0.30182	0.379338	-0.79565	0.426991	-0.0764	0.11167	-0.68412	0.494533
ERO1L.Q96HE7	-0.302225	0.260677	-1.15939	0.246847	0.154644	0.723382	0.213779	0.83086	0.108553	0.215121	0.504613	0.614189
NOVA2.Q9UNW9	0.2448505	0.211208	1.159284	0.246889	0.097686	0.500585	0.195143	0.845409	-0.06797	0.148874	-0.45658	0.648296
ADCYAP1.P18509	-0.105978	0.091383	-1.15971	0.246911	0.138046	0.242928	0.568259	0.570404	-0.16642	0.071796	-2.31794	0.021316
LSM8.O95777	-0.230006	0.198448	-1.15902	0.246996	0.137274	0.517632	0.265196	0.791035	0.168458	0.153706	1.095975	0.273941
HYOU1.Q9Y4L1	-0.299444	0.258379	-1.15893	0.247032	-0.49553	0.674936	-0.73419	0.463388	0.114659	0.200851	0.570868	0.568502
WFS1.O76024	0.1994653	0.172192	1.158388	0.247254	0.45869	0.454803	1.008546	0.313979	-0.1111	0.135371	-0.8207	0.412446
LRRFIP1.C9JTC6	0.1779231	0.15343	1.159634	0.24727	0.164969	0.360903	0.4571	0.648215	0.11563	0.107477	1.075852	0.283603
SLCO3A1.Q9UIG8	0.1844585	0.159241	1.158358	0.247479	-0.25613	0.459839	-0.557	0.578115	0.254477	0.123761	2.05619	0.040989
IRF2BP2.Q7Z5L9	0.1810966	0.156447	1.157557	0.24764	-0.24788	0.417159	-0.5942	0.552844	-0.21687	0.126308	-1.71696	0.087062
FAM102B.Q5T8I3	-0.203215	0.175663	-1.15685	0.247917	-0.38958	0.472767	-0.82404	0.410592	-0.02152	0.141845	-0.15171	0.879524
SLC12A7.Q9Y666	0.1207024	0.104326	1.156979	0.247995	0.175188	0.252742	0.693149	0.488892	0.004015	0.074418	0.053946	0.957024
SMARCB1.G5E975	0.1465809	0.126773	1.15625	0.248154	0.155821	0.323103	0.482264	0.629977	-0.03105	0.098016	-0.31677	0.751642
ATE1.F5GXE4	0.2474162	0.214039	1.155941	0.248253	0.460603	0.547614	0.841108	0.400936	-0.29025	0.162256	-1.78886	0.074613
HDLBP.A0A024R4E5	-0.434316	0.375733	-1.15592	0.248263	0.140946	0.993222	0.141908	0.887245	-0.33501	0.294862	-1.13616	0.256768
RTN2.O75298	-0.203235	0.17583	-1.15586	0.24832	0.548773	0.429784	1.27686	0.20267	0.048812	0.126656	0.385392	0.700228
UBR4.Q5T4S7	0.6065326	0.524867	1.155592	0.248395	-0.50391	1.37761	-0.36579	0.714772	1.060588	0.405453	2.615809	0.009337
SLC19A1.P41440	-0.184996	0.160086	-1.1556	0.248435	-0.10088	0.455634	-0.2214	0.824938	-0.05374	0.136003	-0.39518	0.693006
SV2A.Q7L0J3	-0.26057	0.225535	-1.15534	0.248497	-0.03533	0.574642	-0.06149	0.951012	0.054873	0.170918	0.321048	0.74839
RPL18.J3QQ67	0.2309336	0.199897	1.155265	0.248529	-0.06699	0.512998	-0.13059	0.896186	0.194775	0.152211	1.27964	0.201629
RNFT2.Q96EX2	0.132018	0.114184	1.156184	0.248613	0.518786	0.282244	1.838076	0.067709	-0.16355	0.087318	-1.87307	0.062689
PAF1.Q8N7H5	0.2190843	0.189836	1.154072	0.249026	0.061335	0.44882	0.136658	0.891391	0.13593	0.13272	1.024187	0.306556
TRPV2.Q9Y5S1	-0.091045	0.078913	-1.15375	0.249149	0.270747	0.200735	1.348775	0.178394	-0.04902	0.059825	-0.81936	0.413209
XO.E9PCH4	-0.151158	0.131022	-1.15369	0.249287	0.441734	0.482998	0.914566	0.361273	0.225287	0.141547	1.591612	0.112696
IP6K1.Q92551	0.2423876	0.210159	1.153351	0.249313	0.175812	0.525693	0.334438	0.738275	0.127952	0.156244	0.818926	0.413458

EXOC7.Q9UPT5.1	-0.486496	0.421906	-1.15309	0.24942	-0.92993	1.063601	-0.87432	0.382618	0.437824	0.315815	1.386333	0.166642
GOSR1.G5E9T8	0.2250384	0.195166	1.153064	0.249465	-1.06885	0.483328	-2.21143	0.027783	-0.16392	0.142941	-1.14678	0.252415
ZDHC5.Q9C0B5	-0.322209	0.279463	-1.15296	0.249474	0.642234	0.734926	0.873876	0.382862	-0.56665	0.216518	-2.61712	0.009302
PIKFYVE.Q9Y2I7	0.3694046	0.320801	1.151505	0.25007	0.204312	0.801374	0.254952	0.798929	0.226845	0.238071	0.952846	0.34141
SRA1.Q9HD15	-0.229428	0.199248	-1.15147	0.250102	0.124482	0.523955	0.237581	0.81237	-0.44775	0.150286	-2.9793	0.003128
RPS10.P46783	-0.226714	0.196946	-1.15115	0.250216	-0.21564	0.538509	-0.40044	0.689109	-1.05172	0.148688	-7.0733	1.01E-11
PRKAR2A.P13861	-0.385682	0.335049	-1.15112	0.250228	-0.40117	0.809871	-0.49535	0.620702	-0.21198	0.240717	-0.88061	0.37921
RAP1GDS1.P52306.3	-0.153945	0.133806	-1.1505	0.250483	0.781674	0.345904	2.259801	0.024527	-0.02495	0.103735	-0.2405	0.810104
NARS.O43776	0.2719122	0.236364	1.150395	0.250527	0.099114	0.630166	0.157283	0.875125	0.063706	0.187436	0.339881	0.734176
DAAM1.Q9Y4D1	-0.329114	0.286109	-1.15031	0.250562	0.17404	0.723049	0.240702	0.809945	-0.16441	0.214912	-0.76499	0.444858
CDC42BPA.Q5VT25	-0.156974	0.136463	-1.1503	0.250715	0.295485	0.372172	0.793945	0.42798	-0.10472	0.108496	-0.96515	0.335401
GSTZ1.G3V5T0	0.0523309	0.045514	1.149773	0.250783	0.123059	0.113637	1.082908	0.279691	0.036133	0.033807	1.068803	0.28599
HOGA1.Q86XE5	0.1250826	0.108822	1.149419	0.250946	-0.41089	0.283259	-1.4506	0.147934	0.05978	0.085275	0.701028	0.483827
THSD7A.Q9UPZ6	0.1739922	0.151424	1.149039	0.251085	-0.07767	0.411407	-0.18879	0.850377	0.025818	0.122384	0.210959	0.833058
LIMS1.P48059.3	0.2081933	0.181196	1.148993	0.251104	-0.59951	0.469305	-1.27745	0.2024	-0.03332	0.139964	-0.23809	0.811965
SF3B6.Q9Y3B4	0.2113178	0.184055	1.148121	0.251463	-1.00083	0.451525	-2.21655	0.027379	-0.1074	0.135243	-0.79413	0.42773
NANS.Q9NR45	0.1742201	0.151782	1.147833	0.251582	0.370335	0.392384	0.943809	0.346002	0.152208	0.116575	1.305669	0.192633
SLC23A2.Q9UGH3	0.1164976	0.101498	1.147781	0.251631	-0.38703	0.282893	-1.36813	0.172316	0.000865	0.086071	0.010047	0.991991
CAPZB.P47756	0.123335	0.107467	1.147657	0.251655	-0.29208	0.295938	-0.98695	0.324435	-0.23572	0.087152	-2.70467	0.007215
NPLOC4.Q8TAT6	0.3498967	0.305071	1.146937	0.251952	-0.21978	0.734261	-0.29932	0.764895	0.184794	0.218209	0.846868	0.397722
ITIH2.P19823	0.0761487	0.066428	1.14634	0.252199	-0.32491	0.156733	-2.07304	0.038994	0.143097	0.046239	3.094747	0.002149
ATP5S.Q99766	-0.192718	0.168124	-1.14629	0.25222	0.037208	0.428491	0.086835	0.930859	-0.17128	0.127098	-1.34765	0.178755
PTS.Q03393	0.1848519	0.16125	1.146367	0.252339	0.066897	0.421607	0.158671	0.87406	0.172567	0.132473	1.302658	0.19393
GPR56.Q9Y653	0.0957779	0.083579	1.145956	0.252357	-0.04967	0.217403	-0.22848	0.819421	0.18953	0.063777	2.97177	0.003193
TRIP10.Q15642	0.052643	0.045935	1.146042	0.252473	-0.08258	0.116143	-0.71101	0.477756	0.048548	0.03453	1.405965	0.161001
EVI2A.P22794	0.0772278	0.067399	1.145837	0.25256	-0.02679	0.167483	-0.15998	0.873029	-0.00416	0.050024	-0.08316	0.933792
RALYL.Q86SE5.3	0.1752664	0.153011	1.145449	0.252567	-0.24836	0.358424	-0.69292	0.488877	0.167398	0.106283	1.575023	0.116271
FLAD1.Q8NFF5	-0.222786	0.194763	-1.14389	0.253231	0.075935	0.474143	0.160151	0.872869	0.073037	0.141754	0.515233	0.606767
NYAP1.Q6ZVC0.2	-0.202707	0.177236	-1.14371	0.253286	0.032123	0.452851	0.070935	0.943496	-0.01341	0.134714	-0.09954	0.920777
RNPEP.Q9H4A4	0.214314	0.187391	1.143675	0.253301	-0.27542	0.471115	-0.58462	0.559231	0.224903	0.139643	1.610561	0.108293
ADSS.P30520	0.2871053	0.251099	1.143395	0.253417	-0.58481	0.637412	-0.91747	0.35961	0.253785	0.189328	1.340451	0.18108
CCM2.Q9BSQ5	0.2589884	0.226544	1.143217	0.253491	-0.01202	0.61983	-0.01939	0.984543	0.153429	0.184182	0.833026	0.405471
PPP1R12A.O14974	-0.327774	0.286736	-1.14312	0.253531	-0.15859	0.779024	-0.20358	0.838815	-1.31571	0.219384	-5.99729	5.58E-09
LARP7.Q4G0J3	0.2039914	0.178477	1.142955	0.253609	-0.26264	0.474626	-0.55337	0.580418	0.055155	0.142486	0.387088	0.698961

SLC7A5.Q01650	-0.230948	0.202111	-1.14268	0.253714	-0.35247	0.522797	-0.67421	0.500682	-0.36041	0.154285	-2.33603	0.020127
BRD4.O60885	0.2344776	0.205226	1.142534	0.253775	0.300292	0.489156	0.613898	0.539733	-0.12264	0.145437	-0.84324	0.399747
ARMCX2.Q7L311	-0.130936	0.114645	-1.1421	0.253955	0.447063	0.280413	1.594301	0.111888	-0.17197	0.083188	-2.06726	0.039539
ITFG2.Q969R8	-0.1621	0.141858	-1.14269	0.253975	0.516534	0.3642	1.418271	0.157637	-0.18213	0.102187	-1.78231	0.076186
X0.A6NIZ1	-0.156543	0.137086	-1.14194	0.254023	0.185141	0.357934	0.517251	0.60535	0.01667	0.106521	0.156491	0.875748
C4BPA.P04003	0.0546188	0.047833	1.14187	0.25405	0.15034	0.118358	1.270212	0.204962	0.095352	0.034883	2.733464	0.006627
GADD45GIP1.Q8TAE8	-0.166594	0.145912	-1.14174	0.254104	0.483735	0.389187	1.242936	0.214831	-0.15184	0.115744	-1.31184	0.190545
APBA1.Q02410	-0.350522	0.307405	-1.14026	0.254719	1.154218	0.783659	1.472857	0.141804	-0.29327	0.233345	-1.25682	0.209764
EXOC6.Q8TAG9	-0.284183	0.249231	-1.14024	0.254728	-0.60333	0.603208	-1.0002	0.317992	0.059626	0.179701	0.331808	0.740259
KIF1C.O43896	0.1868102	0.163913	1.139691	0.254965	-0.45001	0.417027	-1.07908	0.281409	0.046919	0.124405	0.37715	0.706326
HSP90AB2P.Q58FF8	0.063022	0.055327	1.139077	0.255289	0.017228	0.148977	0.115639	0.908024	0.060142	0.043764	1.374223	0.170504
RASSF5.Q8WWW0	-0.179994	0.157905	-1.13988	0.255357	0.267635	0.411005	0.651174	0.51584	-0.03128	0.12909	-0.2423	0.808849
GTF2H1.P32780	0.1821316	0.159876	1.139204	0.255411	0.377568	0.354936	1.063766	0.288628	0.089508	0.093861	0.953627	0.341344
PDHX.O00330	-0.250017	0.219655	-1.13823	0.255567	0.6123	0.558462	1.096404	0.273753	-0.11477	0.166327	-0.69002	0.490699
PCMTD1.F5H1M8	0.161907	0.142144	1.139038	0.255599	0.354496	0.354372	1.000351	0.318387	-0.16245	0.109903	-1.4781	0.141003
KCNQ2.Q4VXP6	-0.244907	0.215314	-1.13744	0.255894	0.189934	0.557897	0.340446	0.733751	-0.31365	0.165037	-1.90047	0.058299
SHB.Q15464	0.1649415	0.144965	1.137803	0.25597	0.342056	0.377581	0.905915	0.365972	0.021878	0.108798	0.201089	0.840815
MRPS7.Q9Y2R9	-0.131928	0.116012	-1.1372	0.255996	0.884875	0.293951	3.010282	0.002824	-0.08164	0.088593	-0.92156	0.357473
KCTD15.Q96S11	-0.146498	0.128832	-1.13712	0.256164	0.187018	0.356003	0.525327	0.599831	0.008272	0.110264	0.075018	0.940262
MTHFD1.P11586	0.0597703	0.052578	1.136804	0.256207	-0.37228	0.138822	-2.68172	0.00775	-0.06734	0.042119	-1.59879	0.110971
FAM177A1.Q8N128	0.1440956	0.126837	1.136073	0.256466	0.205204	0.332005	0.618074	0.536981	-0.0879	0.0987	-0.89056	0.373858
ACTR1A.P61163	0.3349986	0.29496	1.135744	0.256603	-0.28418	0.828168	-0.34315	0.731719	0.541827	0.244483	2.216217	0.027402
TMEM126B.Q8IUX1	-0.186264	0.164148	-1.13473	0.257093	0.32622	0.45429	0.718086	0.473312	0.014542	0.134243	0.108324	0.913817
RPN2.P04844.2	0.3050064	0.268946	1.134079	0.2573	-0.53331	0.696304	-0.76592	0.444307	0.070117	0.207296	0.338246	0.735407
GNG8.Q9UK08	0.0752341	0.066327	1.134296	0.257311	0.08166	0.180532	0.452332	0.651404	0.058423	0.051009	1.145343	0.253112
POLR3C.Q9BUI4	-0.177851	0.156729	-1.13477	0.257406	0.800128	0.405826	1.971606	0.050249	-0.04697	0.106513	-0.44099	0.65977
STX5.Q13190	-0.337125	0.297422	-1.13349	0.257548	0.351282	0.746517	0.470561	0.638285	-0.13116	0.22203	-0.59075	0.555118
ABHD16A.O95870	-0.361586	0.319045	-1.13334	0.257612	0.643866	0.806054	0.798788	0.425025	0.054176	0.240014	0.225718	0.821569
HLA.B.P30483	-0.033538	0.029585	-1.13359	0.257654	-0.15947	0.072888	-2.18787	0.029632	-0.0081	0.021988	-0.36843	0.712875
GSTP1.P09211	0.1674926	0.147804	1.133209	0.257665	-0.24098	0.381694	-0.63133	0.528289	0.118968	0.113419	1.048923	0.295031
COA7.Q96BR5	-0.148961	0.131463	-1.1331	0.257712	-0.01548	0.332254	-0.04659	0.962868	-0.37389	0.096532	-3.87326	0.000131
MGAT5.Q09328	0.1867857	0.16478	1.133544	0.257718	-0.34174	0.409147	-0.83526	0.404416	0.213088	0.120292	1.771419	0.077782
MED15.Q96RN5	0.1339503	0.118166	1.133581	0.257791	0.571825	0.335513	1.704331	0.089812	0.013784	0.100759	0.1368	0.891322
MRPL21.Q7Z2W9	-0.114402	0.100987	-1.13283	0.257823	0.359648	0.27184	1.323011	0.186807	-0.04654	0.081053	-0.57424	0.566224

MT.ATP6.P00846	-0.153989	0.135926	-1.13289	0.257873	0.112711	0.334529	0.336924	0.736432	-0.0393	0.096676	-0.40649	0.684703
GIT1.Q9Y2X7.3	-0.395047	0.348804	-1.13257	0.257932	-0.36595	0.852156	-0.42944	0.667901	0.404621	0.252533	1.602249	0.110119
SYN1.P17600	-0.193379	0.170748	-1.13254	0.257948	0.066922	0.419845	0.159397	0.87346	-0.1598	0.124571	-1.28279	0.200525
IGBP1.P78318	-0.379023	0.334714	-1.13238	0.258014	0.185391	0.823628	0.225091	0.822057	-0.11604	0.244946	-0.47374	0.63602
DTNA.Q9Y4J8.10	-0.095485	0.084261	-1.13321	0.258143	0.10588	0.226057	0.468379	0.640151	-0.19438	0.055099	-3.5278	0.000547
FKBPL.Q9UIM3	-0.172796	0.152541	-1.13279	0.258347	0.115845	0.372308	0.311153	0.75607	0.012265	0.110257	0.111242	0.911557
PSAP.C9JIZ6	-0.077763	0.068742	-1.13123	0.258497	0.133978	0.170943	0.783758	0.433781	0.028109	0.050878	0.552484	0.581015
PTGDS.P41222	0.0894895	0.079135	1.130839	0.258661	0.367028	0.219974	1.668504	0.096225	0.01868	0.065723	0.284225	0.776428
SPAG7.I3L0X5	-0.196431	0.173728	-1.13068	0.258727	-0.26867	0.438295	-0.61299	0.54033	-0.10135	0.130337	-0.77762	0.437388
GSTM4.Q03013	0.0521121	0.046105	1.130283	0.258895	-0.09682	0.125875	-0.76914	0.442394	-0.01908	0.037466	-0.50915	0.61101
ARPC1B.O15143	0.1504224	0.133087	1.13026	0.258904	-0.27159	0.326317	-0.8323	0.40588	0.225224	0.096336	2.337894	0.020029
N6AMT2.Q8WVE0	0.1754496	0.155298	1.129763	0.259189	0.033228	0.410913	0.080864	0.93561	-0.05933	0.119339	-0.49713	0.619506
PPP1R14C.Q8TAE6	-0.107641	0.095312	-1.12935	0.259287	-0.03716	0.227119	-0.1636	0.870156	0.033517	0.06754	0.49625	0.62007
AIF1.Q5STX8	-0.095638	0.084737	-1.12864	0.259588	-0.10019	0.212357	-0.47182	0.637385	-0.00189	0.063195	-0.02984	0.97621
TMEM11.P17152	0.207206	0.183625	1.128416	0.259681	-0.36118	0.478579	-0.75469	0.451008	0.083774	0.14242	0.588219	0.556813
VPS13B.Q7Z7G8	-0.141336	0.125211	-1.12879	0.259747	-0.0119	0.318599	-0.03735	0.970239	-0.07821	0.095731	-0.81694	0.414834
UBAC1.Q9BSL1	-0.205173	0.181882	-1.12806	0.259831	0.891409	0.468427	1.902985	0.057969	-0.25707	0.139398	-1.84418	0.066111
PDIA4.P13667	0.2086237	0.184947	1.128019	0.259848	-0.44676	0.486976	-0.91742	0.359634	0.049466	0.145036	0.34106	0.73329
MOGS.Q13724	0.4077872	0.361535	1.127932	0.259885	-0.18828	0.889231	-0.21173	0.832458	0.408725	0.263529	1.550965	0.12193
EXTL2.Q9UBQ6	0.1825897	0.16188	1.127934	0.25996	0.231123	0.438631	0.52692	0.598681	0.347113	0.124448	2.789214	0.00566
HEATR1.Q9H583	0.1850684	0.164093	1.127823	0.260006	-0.03359	0.408894	-0.08215	0.934587	0.25288	0.116985	2.16165	0.031514
WDSUB1.Q8N9V3	0.0959731	0.085125	1.127442	0.26011	0.268803	0.219409	1.225125	0.221499	0.066474	0.063906	1.040185	0.2991
GNG11.P61952	-0.136426	0.120983	-1.12765	0.260154	-0.46272	0.301655	-1.53394	0.126339	-0.12475	0.085832	-1.45346	0.147382
MAGT1.Q9H0U3	0.1854501	0.164511	1.127279	0.260282	-0.6197	0.460277	-1.34637	0.179417	0.103932	0.129521	0.802434	0.423073
PEX5L.Q8IYB4.2	-0.266108	0.236163	-1.1268	0.260364	0.768433	0.559828	1.372623	0.170862	-0.20399	0.166642	-1.22412	0.221837
INPP4A.Q96PE3	0.4872346	0.432422	1.126757	0.260381	-0.66113	1.088335	-0.60747	0.543982	0.46586	0.322871	1.442868	0.150067
IQCB1.Q15051	-0.136213	0.120865	-1.12698	0.260436	-0.03127	0.291071	-0.10743	0.914538	-0.0905	0.088086	-1.02745	0.305226
ARHGEF1.M0QZR4	0.1477645	0.131149	1.126689	0.260444	-0.25358	0.382614	-0.66277	0.508002	0.153882	0.112923	1.362717	0.174022
CASP7.P55210	0.1529876	0.135672	1.127626	0.26049	0.308455	0.352245	0.875681	0.382425	0.100422	0.106274	0.944927	0.346022
NUDC.Q9Y266	-0.245965	0.218484	-1.12578	0.260793	0.340321	0.555558	0.612575	0.540606	0.167486	0.165095	1.014482	0.311144
NUP85.Q9BW27	0.2269226	0.201754	1.124747	0.261232	1.079529	0.517523	2.085955	0.0378	0.160734	0.154761	1.038593	0.299803
SS18.J3QQW2	0.1713848	0.152306	1.125264	0.261511	0.354254	0.464886	0.762023	0.44719	-0.08915	0.134035	-0.66513	0.506942
UFC1.Q9Y3C8	0.3126204	0.278209	1.123688	0.26168	-0.62189	0.661195	-0.94056	0.347663	0.531931	0.194644	2.732844	0.006639
GLUD1.P00367	-0.185603	0.165228	-1.12332	0.261837	0.069099	0.416852	0.165764	0.868451	-0.06469	0.123957	-0.52189	0.602121

ADA.P00813	0.1274585	0.113504	1.122939	0.262016	-0.11124	0.294433	-0.37782	0.705831	0.082352	0.085584	0.962229	0.336717
PTPRR.Q15256	0.1769116	0.157526	1.123066	0.262033	-0.01408	0.426403	-0.03303	0.973678	0.011136	0.123692	0.090028	0.928333
AKAP13.Q12802	0.1783834	0.158883	1.122736	0.262183	-0.42052	0.38905	-1.08088	0.280724	0.043364	0.119518	0.36282	0.717027
BTBD7.Q9P203	-0.102282	0.091045	-1.12342	0.262269	-0.21894	0.260718	-0.83975	0.402199	0.086986	0.074131	1.173399	0.242239
PYGM.P11217	-0.119529	0.106508	-1.12225	0.26229	0.190692	0.272967	0.698591	0.485332	0.032939	0.081245	0.405423	0.685447
IFT172.Q9UG01	0.2236549	0.199102	1.123316	0.262336	0.324595	0.510684	0.635607	0.525958	0.113918	0.152508	0.746961	0.456204
KIF5B.P33176	0.4166818	0.371388	1.121958	0.262415	-0.88058	0.963214	-0.91421	0.361316	0.299641	0.28642	1.046161	0.296302
TRMT61B.Q9BVS5	0.1093259	0.097447	1.121904	0.262454	-0.11518	0.254867	-0.45193	0.651646	0.076062	0.076128	0.999133	0.31853
RHBDF1.Q96CC6	0.1486674	0.132514	1.121899	0.262466	-0.29904	0.362428	-0.8251	0.409979	-0.2014	0.109493	-1.83936	0.066863
CD63.F8VWK8	-0.104905	0.093484	-1.12217	0.262472	0.077887	0.253633	0.307086	0.759043	0.008996	0.07317	0.12295	0.902249
SLC2A6.Q9UGQ3	-0.124552	0.110949	-1.1226	0.262485	-0.1425	0.375117	-0.37987	0.704456	0.056022	0.10513	0.532883	0.594728
GNG4.P50150	-0.076782	0.068452	-1.12169	0.262527	0.401553	0.215555	1.862873	0.063426	-0.0228	0.064469	-0.35363	0.723857
ZDHC6.Q9H6R6	-0.180717	0.161133	-1.12154	0.262851	-0.19613	0.408473	-0.48015	0.631621	-0.10811	0.123606	-0.87467	0.382758
WASH6P.Q9NQA3	0.0292897	0.026129	1.120976	0.26291	-0.01601	0.07238	-0.22124	0.825071	0.03746	0.021929	1.708296	0.088726
HLA.B.P30460	-0.024499	0.021853	-1.12107	0.263077	-0.02933	0.058317	-0.50297	0.615526	0.046867	0.016173	2.897772	0.004167
TNRC6B.Q9UPQ9	-0.214904	0.191856	-1.12013	0.263208	0.143298	0.511576	0.28011	0.779585	-0.54993	0.149154	-3.68703	0.000269
MRPL30.Q8TCC3	-0.143063	0.127794	-1.11948	0.263493	0.547584	0.347719	1.574788	0.116377	-0.08463	0.103945	-0.81414	0.41622
BAI3.O60242	-0.308382	0.275521	-1.11927	0.263559	-0.22682	0.683397	-0.33191	0.740184	-0.34449	0.202391	-1.70209	0.089741
SAA1.P0DJI8	0.0256023	0.022879	1.119035	0.263658	0.099529	0.059716	1.666706	0.096583	0.028566	0.01777	1.607513	0.10896
AMBP.P02760	0.0651586	0.058249	1.118628	0.263832	-0.04081	0.144862	-0.28173	0.778339	0.051751	0.042999	1.203532	0.229689
MRPL43.B1AL05	-0.147474	0.131931	-1.11781	0.26418	0.001762	0.328521	0.005363	0.995724	-0.04005	0.097703	-0.40989	0.682168
SCRN1.Q12765.3	-0.092707	0.082854	-1.11892	0.264236	0.132291	0.239203	0.55305	0.581001	0.003974	0.068067	0.058383	0.953516
TCEB1.Q15369	-0.241657	0.216294	-1.11726	0.264416	0.185439	0.574935	0.32254	0.747261	-0.02526	0.171056	-0.14767	0.882703
PRPSAP2.O60256	0.3184618	0.28508	1.117097	0.264485	0.148837	0.710279	0.209548	0.834158	0.0215	0.211307	0.101745	0.919025
HIST1H1D.P16402	0.0674626	0.060393	1.117056	0.264577	-0.02658	0.148274	-0.17924	0.857886	0.063148	0.043703	1.44493	0.149633
TM9SF1.E9PSI1	0.1791604	0.160415	1.116859	0.264587	-0.2085	0.380837	-0.54748	0.584444	-0.16197	0.112973	-1.4337	0.152667
HDHD3.Q9BSH5	-0.153735	0.137788	-1.11574	0.265067	0.260486	0.379554	0.686295	0.49304	0.043446	0.11297	0.384579	0.700813
KCNMB4.Q86W47	0.1904467	0.170494	1.117028	0.265086	-0.22677	0.477024	-0.47538	0.635187	-0.33593	0.137594	-2.44147	0.015753
MRPL53.Q96EL3	-0.126749	0.113654	-1.11522	0.265289	-0.02641	0.295293	-0.08943	0.928801	-0.09478	0.087681	-1.08099	0.280543
SLC33A1.O00400	0.2222968	0.199365	1.115025	0.26538	-0.2478	0.514599	-0.48154	0.630477	0.428156	0.151517	2.825794	0.005028
HECTD3.Q5T447	0.3369855	0.302236	1.114974	0.265393	-1.05019	0.750413	-1.39948	0.16267	0.813388	0.219122	3.712035	0.000244
GJC2.Q5T442	0.1034266	0.092786	1.114677	0.265642	0.177396	0.250478	0.70823	0.479457	-0.00173	0.073305	-0.02364	0.981155
TRIM27.P14373	-0.139681	0.125272	-1.11502	0.265654	0.185196	0.326221	0.567701	0.570875	-0.21717	0.100456	-2.16181	0.031821
C9orf172.C9J069	-0.325133	0.291767	-1.11436	0.265656	0.322199	0.81021	0.397674	0.691145	-0.98752	0.234469	-4.21174	3.33E-05

GFER.P55789	0.1563061	0.140274	1.114289	0.265686	0.099575	0.369568	0.269437	0.787773	0.141374	0.109659	1.289211	0.198286
CGREF1.Q99674	-0.147204	0.132096	-1.11437	0.265687	-0.00332	0.322648	-0.01028	0.991804	0.159626	0.0932	1.71272	0.087829
SEC11A.H0YNG3	0.2129581	0.191135	1.114176	0.265735	0.240245	0.507967	0.472954	0.636578	0.235162	0.150575	1.561762	0.119364
TICAM2.Q86XR7.2	-0.288099	0.258622	-1.11398	0.26582	-1.1592	0.64004	-1.81114	0.071087	0.522746	0.189089	2.764556	0.006041
SMARCA5.O60264	0.2225273	0.199916	1.113106	0.266194	-0.45734	0.483305	-0.94628	0.344744	0.199842	0.143534	1.392298	0.16483
PI4KB.A0A0B4J1S8	0.2389665	0.214842	1.11229	0.266544	0.883881	0.548405	1.611729	0.108038	-0.33927	0.162686	-2.08544	0.037847
CKMT1A.P12532	0.2048543	0.184186	1.112211	0.266578	-0.03623	0.466711	-0.07763	0.938176	0.058834	0.138799	0.42388	0.671947
NLRX1.Q86UT6	0.2501937	0.224988	1.112033	0.266654	-0.23298	0.570711	-0.40822	0.683394	0.076147	0.169767	0.448536	0.65408
ATG101.Q9BSB4	0.2492418	0.22418	1.111792	0.266757	0.722604	0.567673	1.272922	0.204	0.389948	0.167859	2.323073	0.020822
SEC16A.J3KNL6	-0.298846	0.268929	-1.11124	0.266994	-0.4804	0.735372	-0.65327	0.514066	-0.59294	0.216305	-2.74121	0.006477
COX7C.P15954	-0.179398	0.161513	-1.11073	0.267212	0.483159	0.424469	1.138266	0.255888	0.039646	0.126516	0.31337	0.75421
CUL4A.Q13619	0.3682766	0.331761	1.110065	0.2675	-0.85932	0.866741	-0.99143	0.322246	0.141936	0.258123	0.549877	0.5828
GAMT.Q14353	-0.131025	0.11804	-1.11001	0.267525	0.44923	0.283832	1.58273	0.114503	0.035308	0.084752	0.416602	0.677258
VAV2.P52735.2	0.2220479	0.199999	1.110244	0.267544	0.492656	0.547837	0.899275	0.369368	0.406219	0.159997	2.538919	0.011724
VRK1.Q99986	0.1091748	0.098337	1.110207	0.267551	0.127566	0.229842	0.555014	0.579373	-0.00624	0.070801	-0.08808	0.92988
GNB1.B3KVK2	-0.168034	0.151437	-1.1096	0.267702	0.028972	0.419465	0.069068	0.94498	0.059686	0.124738	0.478489	0.632639
LYN.P07948	0.1505747	0.135711	1.109525	0.267733	0.048064	0.328905	0.146133	0.883911	-0.01111	0.097845	-0.11354	0.909673
ABI1.Q8IZP0.9	-0.334813	0.301797	-1.1094	0.267787	-0.87949	0.739461	-1.18936	0.235207	0.010175	0.220477	0.046152	0.963219
NPR2.P20594	0.1738031	0.156591	1.109917	0.267801	1.145573	0.42476	2.696988	0.007557	0.159242	0.125666	1.267178	0.206475
PPAPDC2.Q8IY26	0.1751483	0.157855	1.10955	0.267818	-1.10789	0.423927	-2.6134	0.009483	-0.34316	0.122183	-2.80856	0.005351
CPNE7.Q9UBL6	-0.138762	0.125093	-1.10927	0.267843	-0.18453	0.316065	-0.58383	0.55976	-0.05541	0.094023	-0.58928	0.5561
FNDC3A.Q9Y2H6	-0.257283	0.231975	-1.1091	0.267917	-1.06114	0.604238	-1.75616	0.080049	-0.28471	0.179917	-1.58246	0.114564
SSPN.Q14714	0.1327554	0.119677	1.109281	0.268012	-0.08182	0.323324	-0.25306	0.800439	0.020404	0.091494	0.223005	0.823723
DDA1.Q9BW61	-0.14908	0.134499	-1.10842	0.268226	-0.05772	0.407688	-0.14158	0.887506	-0.33815	0.118822	-2.84584	0.004735
GALK2.Q01415	0.1664496	0.150172	1.108395	0.268256	0.163665	0.386272	0.423705	0.672096	-0.07149	0.112608	-0.63483	0.526043
RIC8A.Q9NPQ8	0.2737581	0.247061	1.108058	0.268365	0.34131	0.604741	0.56439	0.572897	0.077134	0.179939	0.428669	0.668462
C6orf120.Q7Z4R8	0.1629343	0.147066	1.1079	0.268639	-0.88965	0.383446	-2.32014	0.021242	0.102813	0.113996	0.901907	0.368084
VTI1B.Q9UEU0	-0.310085	0.280054	-1.10724	0.26872	-0.95088	0.746066	-1.27453	0.203431	-0.48435	0.220815	-2.19344	0.029018
CEP170B.Q9Y4F5	-0.338844	0.306038	-1.1072	0.268737	0.966821	0.784364	1.232617	0.218653	-0.9467	0.227642	-4.15875	4.15E-05
EPN1.Q9Y6I3.1	-0.107556	0.097159	-1.10702	0.269017	-0.05214	0.241326	-0.21607	0.82913	-0.13568	0.068959	-1.96749	0.050377
DDRK1.Q96HY6	0.2227008	0.201294	1.106347	0.269104	-0.61434	0.520837	-1.17952	0.239096	-0.28156	0.154462	-1.82285	0.06929
HGH1.Q9BTY7	0.1666512	0.150715	1.105737	0.269527	0.199746	0.387042	0.516084	0.606273	0.164921	0.113402	1.454305	0.147174
EXOSC9.Q06265	0.1588775	0.143687	1.10572	0.269566	0.297994	0.366367	0.813376	0.416858	-0.03364	0.108406	-0.31028	0.756634
THOC7.Q6I9Y2	0.1945185	0.175883	1.105954	0.269713	0.059186	0.480712	0.123122	0.902151	0.152811	0.12612	1.211627	0.22728

WDR61.Q9GZS3	0.2997519	0.271438	1.104311	0.269985	-0.52934	0.670029	-0.79003	0.430116	0.037914	0.199511	0.190036	0.849405
POMK.Q9H5K3	-0.194349	0.176077	-1.10377	0.270315	-0.45038	0.450471	-0.99979	0.318336	-0.04247	0.130885	-0.32451	0.745812
SYT12.Q8IV01	-0.146656	0.132913	-1.10339	0.270383	-0.20917	0.349043	-0.59926	0.549436	-0.06754	0.103823	-0.65051	0.515841
TMED9.Q9BVK6	-0.261315	0.236906	-1.10303	0.270538	-0.48955	0.549708	-0.89057	0.373853	0.324453	0.162697	1.994217	0.047004
FTO.Q9C0B1	0.2024726	0.183727	1.102029	0.270975	0.328602	0.456482	0.719857	0.472156	0.063531	0.135861	0.467619	0.640386
DAP3.P51398	-0.122642	0.111317	-1.10174	0.271102	0.431465	0.286505	1.505959	0.133096	-0.13127	0.085216	-1.54039	0.124484
OR1M1.Q8NGA1	0.0928392	0.08424	1.102075	0.271191	0.008163	0.21811	0.037427	0.97018	0.124113	0.062777	1.977066	0.04933
RBSN.Q9H1K0	-0.357668	0.324848	-1.10103	0.271408	0.15423	0.847655	0.181949	0.855741	-0.67444	0.24925	-2.70588	0.007189
DDR1.Q08345	0.1898244	0.17245	1.100748	0.271532	-0.48822	0.454479	-1.07424	0.283551	0.019947	0.135446	0.147267	0.883017
TGFBI.Q15582	0.0668997	0.060778	1.100727	0.271541	-0.10955	0.150156	-0.72959	0.466192	0.032473	0.044669	0.726974	0.467791
AASS.Q9UDR5	0.1254743	0.113995	1.100699	0.271553	0.084856	0.320554	0.264716	0.791404	-0.09293	0.095224	-0.97592	0.329867
AP4B1.Q9Y6B7	0.1701799	0.154532	1.101257	0.271721	-0.23749	0.43012	-0.55214	0.581614	-0.0329	0.120244	-0.27357	0.784762
TXNDC15.H0Y997	-0.110957	0.100803	-1.10073	0.271879	-0.36085	0.235922	-1.52951	0.127893	0.033091	0.072656	0.455454	0.649332
HS2ST1.Q7LGA3	-0.192314	0.174737	-1.10059	0.271914	0.725704	0.503866	1.440273	0.151354	0.134698	0.147326	0.914283	0.361669
SMARCA2.P51531	0.2891426	0.263017	1.099331	0.272148	-0.48406	0.596969	-0.81086	0.418068	-0.03975	0.177762	-0.22362	0.823197
PAIP2.Q9BPZ3	0.1112608	0.101195	1.099464	0.272185	0.171777	0.248446	0.691407	0.489913	-0.16875	0.073204	-2.30515	0.021928
ANKRD27.Q96NW4	-0.176119	0.160223	-1.09921	0.272201	0.47034	0.395616	1.188878	0.235398	-0.21502	0.117323	-1.83268	0.067809
RBM17.Q96I25	0.2935174	0.267211	1.098449	0.27255	0.402353	0.628101	0.640588	0.522278	-0.30995	0.185332	-1.67242	0.095481
TRMT1.Q9NXH9	0.1140771	0.103863	1.098347	0.272611	0.152162	0.282411	0.538795	0.590439	-0.06547	0.083505	-0.78401	0.433671
BTN3A3.O00478	0.1459909	0.133009	1.097599	0.272904	-0.28569	0.378995	-0.7538	0.45154	0.07071	0.112776	0.626993	0.531125
YAP1.P46937	-0.10696	0.097466	-1.0974	0.273024	0.080149	0.275403	0.291024	0.771241	-0.25361	0.078932	-3.21306	0.001462
PIN4.Q9Y237	0.1450753	0.132226	1.097176	0.273088	-0.33028	0.371228	-0.88969	0.374324	0.031513	0.11056	0.285034	0.775808
ACTA2.P62736	-0.103141	0.094017	-1.09704	0.273148	0.298406	0.253861	1.175472	0.240708	-0.06672	0.075592	-0.88267	0.378097
FLRT3.Q9NZU0	-0.209325	0.190813	-1.09702	0.273157	0.069868	0.491013	0.142293	0.886941	0.071175	0.146016	0.487443	0.626289
PARN.O95453	-0.205669	0.187481	-1.09701	0.273197	0.117821	0.47916	0.245891	0.805942	-0.05982	0.141036	-0.42416	0.671764
RANBP1.P43487	0.2356668	0.21499	1.096177	0.273525	0.457352	0.557392	0.820521	0.412549	-0.35161	0.164789	-2.13372	0.03365
STX7.O15400	-0.27753	0.253228	-1.09597	0.273617	-0.52839	0.647144	-0.8165	0.414841	-0.096	0.192644	-0.49835	0.618589
ENAH.Q8N8S7.2	-0.171793	0.156722	-1.09616	0.273638	-0.29334	0.413903	-0.70872	0.47914	-0.33196	0.118945	-2.79086	0.00565
RAP1B.F5H077	-0.085576	0.078045	-1.0965	0.273676	-0.26216	0.184639	-1.41983	0.15727	0.021508	0.05591	0.384691	0.70089
BRSK1.Q8TDC3	-0.339153	0.309576	-1.09554	0.273804	1.517374	0.742646	2.043198	0.041878	-0.17802	0.222177	-0.80127	0.423586
CYP4X1.Q8N118	-0.186235	0.169999	-1.0955	0.273819	-0.05306	0.447742	-0.1185	0.905752	-0.09532	0.133088	-0.71622	0.474397
MACF1.H3BQK9	-0.477353	0.435855	-1.09521	0.273948	-1.06089	1.114735	-0.9517	0.341993	0.510921	0.330828	1.544372	0.123518
NUDT2.P50583	0.1894401	0.172981	1.09515	0.273974	1.018508	0.440858	2.310286	0.021529	-0.15789	0.131967	-1.1964	0.232455
TBC1D7.Q9P0N9	0.2909094	0.265733	1.094744	0.274152	-0.26003	0.668508	-0.38896	0.69757	0.159549	0.198711	0.802917	0.422638

GOLM1.Q8NBJ4	0.2066871	0.18885	1.094452	0.27428	0.137177	0.475226	0.288657	0.773037	-0.1407	0.141164	-0.9967	0.319686
GNPDA1.P46926	-0.246307	0.225078	-1.09432	0.274339	-0.1557	0.574011	-0.27125	0.786377	0.220171	0.17032	1.292693	0.19708
CUL3.Q13618	-0.34285	0.313451	-1.09379	0.274568	1.127279	0.795222	1.417566	0.157322	-0.14393	0.237189	-0.60681	0.544419
FAM160A2.Q8N612	-0.150604	0.137705	-1.09367	0.274636	-0.43463	0.365336	-1.18968	0.235113	-0.11386	0.107956	-1.05473	0.292398
HSPB11.Q9Y547	0.1437775	0.131458	1.093716	0.274656	0.349261	0.333899	1.046007	0.296444	0.125632	0.098292	1.278154	0.202235
ADD1.P35611.4	-0.277981	0.254308	-1.09309	0.274876	0.273922	0.641354	0.4271	0.669603	-0.41298	0.189401	-2.18044	0.029977
NFAT5.O94916.4	0.27363	0.250622	1.091802	0.275442	-0.52062	0.643029	-0.80964	0.418768	0.097807	0.191411	0.510978	0.60973
GALNT11.Q8NCW6	-0.094465	0.086475	-1.0924	0.275492	0.059357	0.213727	0.277725	0.781507	0.073479	0.06612	1.111304	0.267758
SYVN1.Q86TM6	-0.156993	0.143899	-1.09099	0.275798	0.010855	0.372949	0.029107	0.976798	-0.08133	0.11085	-0.73366	0.463709
FCER1G.P30273	-0.07111	0.065178	-1.09101	0.275805	0.024099	0.162544	0.148259	0.882238	-0.04177	0.048382	-0.86341	0.3886
YDJC.A8MPS7	-0.205307	0.18802	-1.09194	0.275874	0.204337	0.481049	0.424775	0.671558	-0.17119	0.153062	-1.11847	0.265004
TMLHE.Q9NVH6	0.1021605	0.093663	1.090723	0.275916	0.041229	0.249577	0.165197	0.868896	-0.01445	0.074243	-0.19458	0.845853
AP3S1.F5H459	-0.194266	0.178123	-1.09063	0.275964	-0.1669	0.438702	-0.38045	0.703877	-0.05814	0.131201	-0.44312	0.657995
WDR45B.Q5MNZ6	0.2899595	0.266031	1.089947	0.276257	-1.0457	0.68293	-1.5312	0.126741	0.130035	0.203793	0.638074	0.523896
GATC.O43716	-0.187141	0.171714	-1.08984	0.276303	0.226288	0.433745	0.521709	0.602246	-0.06319	0.129038	-0.48973	0.624673
FKBP15.Q5T1M5.2	-0.12507	0.114786	-1.08959	0.276432	-0.07569	0.300565	-0.25182	0.801349	-0.01546	0.086305	-0.17915	0.85794
PIGK.Q92643	-0.163128	0.149763	-1.08924	0.276568	0.145437	0.390155	0.372768	0.709576	0.056066	0.116047	0.483131	0.629344
USP6NL.X6RAB3	-0.143943	0.132083	-1.08979	0.276705	0.117455	0.387907	0.302792	0.762383	-0.06677	0.115812	-0.57654	0.564942
QPRT.Q15274	0.1041038	0.095649	1.088394	0.276941	-0.31612	0.245866	-1.28575	0.19949	0.108456	0.073076	1.484142	0.138787
ECI2.A0A0C4DGA2	-0.140612	0.129209	-1.08826	0.277001	-0.02746	0.32907	-0.08344	0.933559	-0.05899	0.097836	-0.60295	0.546981
DHODH.Q02127	0.14115	0.129705	1.088242	0.277008	0.147045	0.372186	0.395085	0.693052	-0.06209	0.11069	-0.56094	0.575244
CCT2.P78371	-0.243303	0.223606	-1.08809	0.277076	0.490501	0.583658	0.840391	0.401337	0.122074	0.173687	0.702838	0.482684
MSRB2.Q9Y3D2	0.2622508	0.241066	1.087877	0.277169	0.260152	0.580432	0.448204	0.654319	-0.19818	0.172357	-1.1498	0.251113
PSMC1.P62191	-0.464984	0.427554	-1.08754	0.277316	-1.19115	1.073946	-1.10913	0.268234	-0.28473	0.319704	-0.89059	0.37384
F12.P00748	0.0954249	0.08768	1.088336	0.277373	0.150846	0.198887	0.758449	0.449142	0.093429	0.060169	1.552788	0.122174
NRSN2.Q9GZP1	-0.104495	0.096101	-1.08735	0.277488	0.269765	0.246697	1.093506	0.275125	-0.13165	0.076016	-1.73187	0.084414
CDC42BPA.Q5VT25.2	0.4559984	0.419616	1.086705	0.277687	0.182721	1.142164	0.159978	0.873003	0.572045	0.338231	1.691285	0.091787
AMT.P48728	-0.172359	0.158624	-1.08659	0.277737	0.214226	0.389894	0.549446	0.583095	-0.01203	0.116041	-0.10366	0.917504
KCNJ10.P78508	0.1079061	0.099308	1.086575	0.277744	-0.37751	0.252217	-1.49678	0.135467	0.096999	0.075099	1.291612	0.197454
LARP6.Q9BRS8	-0.183363	0.168821	-1.08614	0.277938	0.661938	0.432265	1.531325	0.126709	-0.09077	0.128974	-0.70378	0.482099
CEP44.Q9C0F1	0.1785806	0.164395	1.086291	0.278278	0.115238	0.431643	0.266975	0.789794	0.13068	0.134499	0.971604	0.332552
ITIH4.Q14624	0.0574745	0.05297	1.085039	0.278423	0.17194	0.133882	1.284271	0.200006	0.050186	0.039831	1.259962	0.208631
RABEPK.Q7Z6M1	0.1908435	0.175889	1.085022	0.278503	0.84287	0.472303	1.784598	0.075433	0.22003	0.140452	1.566579	0.118367
LYRM4.Q9HD34	-0.135649	0.125048	-1.08478	0.278538	0.02519	0.313971	0.080231	0.936105	-0.17754	0.092856	-1.91196	0.056803

SYT2.Q8N9I0	0.0607641	0.056026	1.084565	0.278633	0.205934	0.144463	1.425513	0.155015	0.014267	0.043108	0.330962	0.740897
AP1AR.Q63HQ0	0.0933079	0.085956	1.085529	0.2788	0.087588	0.235261	0.372303	0.710214	-0.04845	0.066679	-0.72664	0.468629
TRAPPC11.Q7Z392	0.4079814	0.376319	1.084137	0.278822	0.682279	0.965508	0.706653	0.480313	0.742318	0.284344	2.610632	0.009477
RASA3.Q14644	0.2289802	0.21123	1.084031	0.278869	-0.31015	0.584286	-0.53082	0.595926	0.390903	0.172471	2.266492	0.02411
ANKRD34A.Q69YU3	-0.179842	0.165921	-1.0839	0.278926	-0.65969	0.414391	-1.59195	0.112415	-0.04011	0.123756	-0.32408	0.746094
CLDN10.P78369	0.0910445	0.083997	1.083896	0.278929	-0.33324	0.224214	-1.48626	0.138228	-0.07416	0.066804	-1.11018	0.267782
TLN1.Q9Y490	0.2102145	0.194053	1.083282	0.279201	-0.15802	0.510314	-0.30965	0.757038	0.163619	0.151548	1.079649	0.281138
VLDLR.P98155	-0.230517	0.212978	-1.08235	0.279675	0.718992	0.547494	1.313242	0.19018	0.1858	0.162232	1.145273	0.253077
WARS.P23381	-0.162973	0.1506	-1.08216	0.279698	-0.67727	0.388068	-1.74524	0.081934	-0.20251	0.115438	-1.7543	0.080368
ARL3.P36405	0.2342041	0.216559	1.081481	0.28	-0.29188	0.564311	-0.51724	0.605359	-0.10872	0.167831	-0.64781	0.517584
LRTM2.Q8N967	-0.182603	0.168859	-1.08139	0.28005	-0.18227	0.428475	-0.4254	0.670845	-0.18285	0.128177	-1.42655	0.154729
RAB9B.Q9NP90	-0.228334	0.21123	-1.08097	0.280226	0.096835	0.570607	0.169706	0.865352	0.110767	0.169637	0.652963	0.514264
MBD2.Q9UBB5	-0.176834	0.16355	-1.08122	0.280261	0.194016	0.41646	0.465869	0.641734	-0.09713	0.126167	-0.76985	0.44215
PSRC1.Q6PGN9	0.1355441	0.125356	1.081271	0.280292	-0.04157	0.325812	-0.12758	0.898592	-0.06629	0.100838	-0.65739	0.511585
TATDN3.Q17R31	0.1707493	0.158079	1.080154	0.28059	0.701184	0.405571	1.728881	0.084826	0.193777	0.12073	1.605044	0.109502
TTC19.Q6DKK2	-0.104155	0.096442	-1.07997	0.280672	0.176762	0.24519	0.72092	0.471502	-0.10318	0.072765	-1.41793	0.157215
BCLAF1.Q9NYF8	0.178992	0.165783	1.079675	0.280803	0.149169	0.403995	0.369234	0.712205	-0.3661	0.118396	-3.09214	0.002168
AGPAT6.Q86UL3	-0.178153	0.165039	-1.07946	0.280963	-0.56793	0.471277	-1.20509	0.22921	-0.0919	0.139587	-0.65839	0.510839
MNAT1.P51948	0.1807875	0.167401	1.079965	0.281005	0.4804	0.394015	1.219243	0.224263	0.276188	0.117693	2.346679	0.019972
STK4.Q13043	0.2457835	0.227836	1.078772	0.281205	0.392333	0.60529	0.648173	0.517353	0.221048	0.179747	1.229773	0.219715
MICU3.Q86XE3	-0.25717	0.238402	-1.07872	0.281227	0.596847	0.632232	0.944032	0.345888	0.12686	0.18821	0.674035	0.500791
MAP7D1.Q3KQU3	-0.271293	0.251601	-1.07827	0.281431	-0.49937	0.739727	-0.67507	0.500132	-1.12805	0.210691	-5.35405	1.68E-07
RYBP.Q8N488	0.1448135	0.134265	1.078564	0.281502	-0.54351	0.326921	-1.6625	0.097757	0.063921	0.099568	0.641976	0.52152
PRKCA.P17252	0.2381986	0.221051	1.077574	0.281739	-0.11595	0.569041	-0.20376	0.838673	0.038983	0.169276	0.23029	0.818019
TMX2.Q9Y320	-0.272815	0.253182	-1.07755	0.281752	-1.06353	0.637243	-1.66895	0.096137	0.41917	0.188924	2.218719	0.02723
ARHGEF26.Q96DR7	-0.188253	0.174704	-1.07756	0.281763	-0.35287	0.444343	-0.79414	0.427738	-0.27263	0.131625	-2.07129	0.039181
STAT5B.P51692	0.2716694	0.252314	1.076713	0.282124	-0.52546	0.587431	-0.89451	0.371744	0.009124	0.174975	0.052147	0.958445
NDUFS4.O43181	-0.174164	0.161825	-1.07625	0.28233	0.330322	0.427056	0.773488	0.439823	-0.03976	0.127144	-0.31273	0.754699
NFKB2.Q00653	-0.129969	0.120696	-1.07683	0.282621	0.275914	0.402315	0.685816	0.493847	0.020492	0.11848	0.172954	0.862912
ZFPL1.O95159	0.1703799	0.158511	1.07488	0.282943	-0.55306	0.420739	-1.31449	0.189652	0.12244	0.125318	0.977036	0.329313
ZFYVE16.Q7Z3T8	0.2092204	0.194709	1.074528	0.283135	-0.08841	0.474694	-0.18624	0.852387	-0.28617	0.142076	-2.01424	0.044907
TCEAL3.Q969E4	0.125946	0.117233	1.074323	0.283192	0.038572	0.292191	0.132011	0.895061	0.14348	0.086541	1.657936	0.098342
PTPLB.Q6Y1H2	0.1093486	0.101788	1.07428	0.283211	0.166922	0.27787	0.600721	0.548465	-0.09477	0.082534	-1.14827	0.25174
TAOK3.Q9H2K8	0.311356	0.289851	1.074193	0.28325	-0.15272	0.757813	-0.20153	0.84042	-0.2334	0.225061	-1.03708	0.300509

LPP.C9J2R5	0.0969255	0.090204	1.074514	0.283373	-0.155	0.218075	-0.71078	0.478043	-0.01799	0.065274	-0.27556	0.78317
PELP1.Q8IZL8	0.1488293	0.138581	1.07395	0.283374	-0.30435	0.36012	-0.84515	0.398702	0.059765	0.106432	0.561531	0.574855
KIAA0319.Q5VV43	-0.164893	0.15338	-1.07506	0.283383	0.566443	0.397704	1.424285	0.156374	-0.15054	0.107494	-1.40042	0.163385
VKORC1.Q9BQB6	0.1213257	0.11303	1.073398	0.283621	-0.07637	0.288701	-0.26452	0.791563	0.045264	0.085238	0.531026	0.595794
ZC3H11A.O75152	0.1721621	0.160396	1.073359	0.283641	-0.21903	0.400282	-0.54719	0.584657	0.073078	0.120414	0.606887	0.544385
PRDX3.P30048	-0.200054	0.186478	-1.0728	0.283873	0.420087	0.502958	0.835232	0.40423	0.212948	0.1493	1.42631	0.154785
NDUFV3.P56181.2	-0.104837	0.097729	-1.07273	0.283904	-0.20954	0.245569	-0.85329	0.394156	-0.10322	0.072903	-1.41592	0.157801
CDH18.Q13634	-0.242148	0.225774	-1.07252	0.283998	0.085334	0.569062	0.149955	0.880897	-0.2476	0.168707	-1.46763	0.143218
PVRL3.Q9NQS3	-0.126697	0.118189	-1.07198	0.284242	0.00724	0.283699	0.025521	0.979656	-0.15517	0.083934	-1.84868	0.065456
LYRM2.Q9NU23	-0.165141	0.154023	-1.07219	0.284347	-0.1682	0.389107	-0.43227	0.665965	-0.16413	0.110359	-1.4872	0.138375
RUFY1.Q96T51	0.3390719	0.316409	1.071627	0.284401	-0.03223	0.778592	-0.04139	0.967011	0.260229	0.231146	1.125822	0.261112
MRPL44.Q9H9J2	-0.138842	0.129569	-1.07157	0.284425	0.413882	0.335075	1.235193	0.217694	-0.05735	0.099871	-0.57427	0.566204
UBR3.Q6ZT12	-0.28918	0.269962	-1.07119	0.284597	-0.04865	0.679076	-0.07164	0.942936	-0.13129	0.201877	-0.65035	0.51595
NOTCH1.P46531	0.1310772	0.122333	1.071475	0.284654	-0.07777	0.308535	-0.25207	0.801213	-0.07869	0.088361	-0.89051	0.374129
WNK3.Q9BYP7	-0.195532	0.18263	-1.07064	0.284868	-0.5291	0.480682	-1.10073	0.271907	0.000904	0.144847	0.006244	0.995022
PRDX6.P30041	0.1380059	0.128946	1.070263	0.285013	0.130037	0.323486	0.401987	0.687971	0.13455	0.095953	1.402258	0.161839
PEG10.B4DSP0	0.1590207	0.148592	1.070184	0.285083	0.002699	0.362473	0.007446	0.994064	-0.10323	0.106963	-0.96507	0.335307
RERE.Q9P2R6	0.1222038	0.114172	1.070352	0.285243	0.304679	0.313739	0.971123	0.332626	0.089548	0.099982	0.895638	0.371492
FAF1.Q9UNN5	-0.393885	0.368224	-1.06969	0.285271	0.674944	0.930681	0.725215	0.468867	-0.20197	0.276858	-0.72951	0.466241
USP8.P40818	0.3327046	0.31103	1.069686	0.285273	0.378768	0.856986	0.441977	0.658814	0.146149	0.254883	0.573396	0.566793
TMEM43.Q9BTV4	0.1976063	0.184785	1.069385	0.285408	-0.3412	0.463055	-0.73685	0.46177	0.157427	0.137581	1.144246	0.253404
HARS.P12081	-0.265553	0.248347	-1.06928	0.285454	0.83308	0.7067	1.17883	0.23937	0.001585	0.210701	0.007521	0.994004
ATP5J2.PTCD1.G3V325	-0.044919	0.042002	-1.06944	0.285499	0.073326	0.107926	0.679416	0.497498	0.015157	0.030584	0.495569	0.62063
PSMG1.O95456	-0.192582	0.180231	-1.06853	0.285847	0.896661	0.453482	1.977279	0.048974	-0.13244	0.135939	-0.97426	0.330756
SYNJ2.O15056	0.1078453	0.100945	1.068361	0.285886	0.12176	0.260724	0.467009	0.640831	0.084223	0.07711	1.092244	0.275599
SH3KBP1.Q96B97	-0.293725	0.274986	-1.06815	0.285966	0.20563	0.677756	0.303399	0.761789	-0.44939	0.200029	-2.24662	0.025368
UQCC1.Q9NVA1	-0.167351	0.15671	-1.0679	0.286075	0.111416	0.403638	0.276031	0.782708	0.029789	0.120078	0.248082	0.804235
CCDC51.Q96ER9	0.1654179	0.154904	1.067875	0.286088	0.000891	0.41789	0.002132	0.9983	0.018338	0.12431	0.147515	0.882821
CAPN7.Q9Y6W3	0.2165708	0.202827	1.067763	0.286139	-0.21855	0.501542	-0.43575	0.663318	0.314826	0.14817	2.124758	0.034398
ECI1.P42126	0.1225817	0.114808	1.067713	0.286161	0.179858	0.282452	0.636775	0.524742	-0.05344	0.084024	-0.63605	0.525212
SLC27A3.Q5K4L6	0.1577167	0.14769	1.067893	0.286329	-0.40006	0.434402	-0.92094	0.358145	-0.04078	0.125873	-0.32396	0.746295
CHURC1.Q8WUH1	0.1578561	0.147913	1.067221	0.286398	0.223995	0.40988	0.546489	0.585136	0.159744	0.120767	1.322744	0.186928
PCBP4.P57723	0.1097924	0.102908	1.0669	0.286553	-0.33272	0.27128	-1.22649	0.220985	0.007544	0.081785	0.092243	0.926568
NOP56.O00567	0.2363038	0.22155	1.066594	0.286666	-0.24202	0.548164	-0.44151	0.659149	0.18784	0.162771	1.154015	0.249383

UBE2E2.Q96LR5	0.1652986	0.154992	1.066496	0.28671	-0.4049	0.388927	-1.04107	0.298655	0.064068	0.115844	0.553051	0.580627
MAD1L1.Q9Y6D9	0.2201857	0.206478	1.066386	0.28676	0.173741	0.546764	0.317761	0.75088	0.160733	0.162423	0.989596	0.323143
TTC27.Q6P3X3	0.1225978	0.114984	1.066214	0.286871	0.073474	0.304055	0.241648	0.809224	-0.03517	0.088916	-0.39552	0.692751
BCAT1.P54687.5	-0.18731	0.175796	-1.0655	0.287162	0.255829	0.468554	0.545997	0.585461	-0.20619	0.138961	-1.48377	0.138886
TMSB15A.P0CG34	0.0626386	0.058785	1.065557	0.287169	-0.08478	0.149795	-0.56598	0.571838	-0.04221	0.044404	-0.95063	0.342575
PGRMC2.O15173	0.278718	0.261698	1.065035	0.28737	0.28063	0.625179	0.448878	0.653833	0.334363	0.185069	1.8067	0.071779
ARHGDIG.Q99819	-0.154853	0.145332	-1.06551	0.287486	0.239231	0.393543	0.60789	0.543947	0.038393	0.119924	0.320147	0.74919
FGFR2.P21802	0.1940801	0.182269	1.064799	0.287528	0.108234	0.493798	0.219187	0.826666	4.49E-05	0.142648	0.000315	0.999749
PCBP3.E9PFP8	0.1443081	0.13555	1.064616	0.28756	0.1427	0.30936	0.461274	0.644925	-0.12611	0.091782	-1.37406	0.170415
APOOL.Q6UXV4	-0.193359	0.181688	-1.06424	0.287729	0.285939	0.474784	0.602252	0.547447	-0.21487	0.140794	-1.52611	0.128002
ITGA6.P23229.6	0.122474	0.11512	1.063879	0.287978	-0.00692	0.315281	-0.02195	0.982504	-0.09709	0.088414	-1.09817	0.273153
ZCCHC6.Q5VYS8	-0.128522	0.120838	-1.06359	0.28818	0.067163	0.311626	0.215526	0.829544	-0.07119	0.09761	-0.72929	0.466547
GPC1.P35052	0.2078945	0.195558	1.063085	0.288252	-0.73904	0.488644	-1.51243	0.131444	-0.10434	0.145778	-0.71575	0.474684
FBXW5.Q969U6	-0.14803	0.139241	-1.06312	0.28826	0.634763	0.363365	1.746901	0.081688	0.078886	0.110154	0.716143	0.474466
ENTPD2.Q9Y5L3	0.0774994	0.072922	1.062777	0.288425	-0.10922	0.187002	-0.58408	0.559615	0.008317	0.056049	0.148393	0.882134
CMPK2.Q5EBM0	0.1921321	0.180805	1.062647	0.288451	0.061411	0.458677	0.133886	0.893579	0.062685	0.136406	0.459551	0.646161
DNAJC9.Q8WXX5	0.1535319	0.144581	1.061907	0.288803	-0.16652	0.36437	-0.457	0.648006	0.131345	0.105816	1.241255	0.215491
TMEM184C.Q9NVA4	-0.150971	0.142187	-1.06178	0.288876	-0.05937	0.376531	-0.15768	0.874819	-0.17432	0.111409	-1.56465	0.118745
PPCDC.H3BRQ0	0.1483925	0.139773	1.06167	0.289023	-0.11998	0.404412	-0.29669	0.766958	0.302941	0.118208	2.562791	0.010985
VDAC3.Q9Y277.2	-0.120218	0.113348	-1.06061	0.289377	0.638002	0.2834	2.251244	0.02507	0.03133	0.084974	0.368697	0.712606
COMMD7.Q86VX2	0.2282875	0.215255	1.060543	0.289406	0.175172	0.526387	0.332783	0.739523	0.238456	0.156032	1.528252	0.12747
SYNE1.F5GXQ8	-0.154887	0.145981	-1.06101	0.28944	0.298721	0.37018	0.806963	0.420564	-0.16695	0.110555	-1.51011	0.132456
MBOAT2.Q6ZWT7	0.180638	0.170352	1.060378	0.289489	-0.59432	0.421077	-1.41143	0.159136	0.030277	0.126778	0.238822	0.811404
TCEAL7.Q9BRU2	-0.11219	0.105857	-1.05983	0.28979	0.125483	0.293693	0.427259	0.669522	-0.08995	0.087892	-1.02338	0.307016
DR1.Q01658	0.1693809	0.159927	1.059114	0.290055	-0.66528	0.397483	-1.67374	0.09519	-0.39183	0.116674	-3.35834	0.000882
VAT1L.Q9HCJ6	0.1069402	0.100984	1.058983	0.290115	-0.16859	0.246308	-0.68449	0.49418	-0.00654	0.073327	-0.08915	0.929017
GNAQ.P50148	0.2774969	0.262123	1.058653	0.290265	-0.49655	0.677547	-0.73287	0.464192	0.113299	0.20163	0.561915	0.57458
HLA.A.P30455	0.0192327	0.018164	1.05881	0.290299	0.016662	0.044659	0.373099	0.709379	0.015942	0.01322	1.205939	0.228937
CFAP20.Q9Y6A4	0.2191821	0.20719	1.057877	0.290618	-0.3148	0.543499	-0.57922	0.562864	-0.02121	0.161764	-0.1311	0.895784
CNNM1.Q9NRU3	-0.275459	0.26041	-1.05779	0.290659	-0.20512	0.700849	-0.29267	0.769968	0.455523	0.206908	2.201573	0.028432
RRP7A.Q9Y3A4	0.1497923	0.141544	1.058273	0.290917	-0.04855	0.377986	-0.12845	0.897944	-0.00219	0.116616	-0.0188	0.985021
MGAT1.P26572	-0.095262	0.090019	-1.05824	0.290935	0.058564	0.230049	0.254574	0.799392	0.000262	0.069152	0.003786	0.996984
DOCK11.Q5JSL3	0.1283134	0.121379	1.057134	0.290957	0.222566	0.313158	0.710713	0.477796	-0.00618	0.093234	-0.06625	0.947218
MRPL42.Q9Y6G3	-0.180765	0.170951	-1.05741	0.291029	0.183864	0.467031	0.393688	0.6942	-0.12105	0.134201	-0.90201	0.368058

ATG13.O75143.5	-0.21004	0.198822	-1.05643	0.29128	-0.61745	0.502024	-1.22993	0.219657	0.149151	0.149467	0.997887	0.319113
TUSC3.D6RIY7	-0.177411	0.167958	-1.05629	0.291359	-0.09534	0.444437	-0.21451	0.830295	-0.08692	0.132842	-0.6543	0.513418
CAPN5.O15484	0.1890727	0.179074	1.055833	0.29155	0.05993	0.494285	0.121246	0.903575	-0.04312	0.147024	-0.29327	0.769514
FOSB.P53539	-0.067946	0.064343	-1.056	0.291576	0.041081	0.175525	0.234048	0.815137	0.009706	0.052222	0.185861	0.852703
DOCK2.Q92608	0.1447529	0.137199	1.05506	0.292132	0.136708	0.372757	0.366748	0.714166	0.296024	0.106968	2.767405	0.006141
SLC24A4.H0YCX3	-0.160993	0.152658	-1.0546	0.292144	-0.29171	0.399381	-0.73041	0.465724	0.082281	0.118567	0.693958	0.48826
GLS.O94925	-0.19741	0.187446	-1.05315	0.292776	0.449908	0.517242	0.869822	0.385071	0.103006	0.153947	0.669101	0.503929
SLC39A7.Q92504	0.1725591	0.163859	1.053094	0.292819	0.63118	0.423722	1.489609	0.137374	0.180147	0.125553	1.434822	0.152376
ANK2.Q01484.5	-0.258527	0.24552	-1.05298	0.292856	-0.28927	0.598117	-0.48363	0.628992	0.062075	0.177962	0.348809	0.727469
TMEM132A.Q24JP5	0.1896122	0.180088	1.052885	0.292898	-0.17335	0.45959	-0.37719	0.706291	0.245396	0.136039	1.80386	0.072224
NDUFC1.O43677	-0.117192	0.111305	-1.05289	0.292898	0.065321	0.275293	0.237277	0.812599	-0.12362	0.081601	-1.51497	0.1308
MADD.Q8WXG6.4	-0.143552	0.136353	-1.05279	0.292956	-0.3273	0.345396	-0.9476	0.344103	-0.0735	0.100592	-0.73064	0.465578
GRM5.P41594	-0.20974	0.19925	-1.05265	0.293008	0.189061	0.474444	0.39849	0.690543	-0.14167	0.140945	-1.00512	0.315624
TMTC4.Q5T4D3	0.1393726	0.132418	1.052519	0.293277	-0.18354	0.333848	-0.54978	0.583046	0.078685	0.098999	0.794811	0.427608
AZGP1.P25311	0.0766883	0.072898	1.051999	0.293304	0.185986	0.186355	0.99802	0.319048	0.112854	0.055155	2.046124	0.041588
VPS45.Q9NRW7	-0.282297	0.26842	-1.0517	0.293443	0.400431	0.69139	0.579168	0.562896	0.078294	0.205739	0.380547	0.7038
PRR36.Q9H6K5	-0.186725	0.177553	-1.05166	0.293462	-0.16718	0.454652	-0.3677	0.713345	-0.5616	0.131466	-4.27181	2.58E-05
PLS3.P13797	-0.046595	0.044257	-1.05281	0.293503	0.028823	0.127023	0.226913	0.820825	-0.01855	0.038629	-0.48031	0.631764
CALML5.Q9NZT1	0.0633228	0.060203	1.051818	0.293806	-0.16334	0.153876	-1.06149	0.289888	0.063738	0.045819	1.391079	0.165919
TUBB3.Q13509	-0.251508	0.239326	-1.0509	0.293808	0.647284	0.617265	1.048632	0.295164	0.248403	0.183409	1.354367	0.176606
CRYM.Q14894	-0.143699	0.136892	-1.04973	0.294346	-0.01157	0.362389	-0.03194	0.97454	-0.04302	0.107777	-0.39917	0.690042
TMEM35.Q53FP2	-0.131311	0.125099	-1.04965	0.294382	0.475756	0.321314	1.480659	0.139713	0.120789	0.095677	1.262469	0.207729
UBXN7.O94888	0.201707	0.192168	1.049638	0.294388	-0.12635	0.45876	-0.27541	0.783183	-0.21469	0.135944	-1.57926	0.115296
B3GALTL.Q6Y288	0.1242032	0.118482	1.048289	0.295008	-0.36207	0.293719	-1.23271	0.218618	0.187227	0.086942	2.153465	0.032053
PGBD5.Q8N414	-0.18077	0.172515	-1.04785	0.295211	0.150584	0.420895	0.357771	0.720758	0.049109	0.125204	0.392236	0.695153
CYP20A1.Q6UW02	0.1649907	0.157314	1.048796	0.295242	-0.36284	0.423445	-0.85687	0.3928	-0.1345	0.128046	-1.05038	0.295126
ERCC6L.B5MDQ0	0.0599559	0.057234	1.047551	0.295513	0.107936	0.142078	0.759697	0.448204	0.052285	0.040655	1.286055	0.1997
GPR125.Q8IWK6	-0.1454	0.13887	-1.04702	0.295784	0.077137	0.369064	0.209008	0.834638	0.089265	0.106035	0.84185	0.400799
CHM.P24386	0.2797619	0.267565	1.045586	0.296253	0.526197	0.626382	0.840057	0.401524	0.433167	0.18492	2.342454	0.01979
KIAA1109.Q2LD37	-0.341472	0.326607	-1.04551	0.296287	-0.61681	0.818148	-0.75391	0.451476	0.70498	0.240294	2.933817	0.003598
MBLAC2.Q68D91	0.2463326	0.235755	1.044868	0.296585	-0.3762	0.60946	-0.61727	0.537507	0.044614	0.181397	0.245948	0.805885
CD99L2.Q8TCZ2	-0.160326	0.153442	-1.04487	0.296586	0.146192	0.356075	0.410565	0.681675	-0.22834	0.105158	-2.17138	0.03066
SMG6.Q86US8	0.2352041	0.225115	1.044818	0.296624	0.528915	0.581545	0.909499	0.363812	-0.16121	0.173295	-0.93028	0.35297
PURB.Q96QR8	0.2245408	0.214926	1.044733	0.296647	-0.4321	0.523662	-0.82514	0.409925	-0.11676	0.15581	-0.74936	0.454212

ACADVL.P49748	-0.144675	0.1385	-1.04459	0.296714	0.519524	0.365664	1.420769	0.156389	-0.19928	0.108544	-1.8359	0.06733
UBE4A.Q14139	0.3856996	0.369379	1.044183	0.296902	0.539896	0.970293	0.556426	0.578321	0.007943	0.288789	0.027504	0.978075
C2CD2.Q9Y426	-0.22202	0.212756	-1.04354	0.297198	0.181012	0.545361	0.331912	0.74018	-0.08649	0.16219	-0.53328	0.594222
GFPT1.Q06210	-0.199902	0.191569	-1.0435	0.297218	-0.18785	0.500387	-0.3754	0.707617	-0.1125	0.148753	-0.75632	0.450032
RTN4IP1.Q8WWV3	-0.178278	0.170888	-1.04324	0.297337	0.250909	0.44924	0.55852	0.576893	-0.10146	0.133584	-0.75953	0.44811
STK38L.Q9Y2H1	-0.307873	0.295179	-1.04301	0.297446	1.3487	0.719756	1.87383	0.061894	0.272743	0.214766	1.269955	0.205053
EGFR.P00533	0.1490861	0.143003	1.042536	0.297663	-0.12121	0.351463	-0.34488	0.730419	0.172526	0.104114	1.657089	0.098513
GJB6.O95452	-0.069219	0.066397	-1.0425	0.297681	0.180135	0.171141	1.052553	0.293365	0.009576	0.050999	0.187757	0.85119
PDK1.Q15118	-0.218822	0.210126	-1.04139	0.298196	0.872552	0.563185	1.549316	0.122326	0.058894	0.168152	0.35024	0.726396
HPR.P00739	0.0630662	0.06051	1.042237	0.298364	-0.01752	0.160984	-0.10883	0.913487	0.095178	0.042926	2.217256	0.028141
PI16.Q6UXB8	0.0534169	0.05132	1.040855	0.298442	0.003096	0.132297	0.023401	0.981345	-0.00289	0.039356	-0.07347	0.941482
IFT43.Q96FT9	0.1388383	0.13337	1.041004	0.29855	-0.07793	0.324948	-0.23982	0.810676	-0.16941	0.095715	-1.76999	0.078026
TRABD.J3KPT4	0.1827267	0.175438	1.041547	0.298624	0.408991	0.479905	0.852233	0.395391	0.072743	0.145138	0.501203	0.616935
FAM20B.O75063	-0.183673	0.176486	-1.04073	0.298627	0.339974	0.442	0.769171	0.442539	-0.17134	0.128058	-1.338	0.182149
SNX11.Q9Y5W9	0.1978289	0.19012	1.040545	0.298629	0.009855	0.469402	0.020995	0.983264	0.01836	0.139552	0.131561	0.895424
TTC39A.Q5SRH9	0.1656792	0.159346	1.039745	0.299236	-0.24977	0.428852	-0.58241	0.560917	-0.21799	0.129403	-1.68458	0.093563
GRIPAP1.Q4V328	-0.318445	0.306453	-1.03913	0.299241	1.35296	0.754211	1.793874	0.073808	-0.415	0.224291	-1.8503	0.065222
ARSB.P15848	-0.105751	0.101818	-1.03863	0.299473	-0.34385	0.257645	-1.33459	0.182991	0.018243	0.076858	0.237365	0.812531
ROCK2.O75116	-0.349031	0.336229	-1.03808	0.299732	0.780966	0.870139	0.897519	0.370139	0.383304	0.258271	1.484115	0.138794
DGKA.P23743	-0.246343	0.237356	-1.03786	0.299831	-0.4165	0.579182	-0.71912	0.472609	0.520582	0.169886	3.064292	0.002374
MGMT.P16455	0.074541	0.071878	1.037044	0.300212	-0.21147	0.178313	-1.18594	0.236553	-0.03834	0.053121	-0.7217	0.471025
DEPDC5.O75140.1	0.2663143	0.256906	1.036623	0.300409	-0.58245	0.658787	-0.88413	0.377312	0.013632	0.196223	0.069473	0.944658
RANBP6.O60518	0.2685566	0.259136	1.036354	0.300534	-0.29225	0.625039	-0.46757	0.640422	0.239772	0.185505	1.29254	0.197133
PARG.Q86W56	0.159214	0.153604	1.036523	0.300535	0.302179	0.439285	0.687889	0.492124	-0.18689	0.126266	-1.48014	0.140023
STAM2.O75886	0.2431799	0.234714	1.036067	0.300668	0.134738	0.636567	0.211663	0.832509	-0.09603	0.189303	-0.5073	0.612307
LPCAT1.Q8NF37	-0.24985	0.241167	-1.036	0.300697	0.052563	0.622834	0.084394	0.932798	-0.17444	0.185019	-0.94283	0.346502
RBM4B.Q9BQ04	-0.155047	0.149621	-1.03626	0.300837	0.105472	0.458988	0.229793	0.818484	0.115051	0.136726	0.841468	0.401076
CREBBP.Q92793	0.1715778	0.165665	1.035689	0.300852	0.448536	0.39204	1.14411	0.253475	-0.06011	0.117088	-0.51337	0.608061
RALGAPB.Q86X10.3	0.300927	0.290571	1.035641	0.300866	-1.11821	0.851286	-1.31355	0.189968	0.500228	0.252352	1.982263	0.048333
ALDH3A2.P51648	0.2196243	0.212076	1.035593	0.300889	0.320243	0.549477	0.582814	0.560442	0.145301	0.163341	0.889558	0.374393
SYNCRIP.O60506.3	0.0802478	0.077461	1.035983	0.300921	-0.07991	0.215279	-0.37121	0.710828	-0.14547	0.066878	-2.17516	0.030655
DNLZ.Q5SXM8	0.1577705	0.15236	1.035511	0.30097	-0.10083	0.379316	-0.26581	0.790578	-0.01861	0.112236	-0.16585	0.86839
ZC3H12B.Q5HYM0	0.1607256	0.155121	1.036129	0.301049	0.999572	0.397928	2.511941	0.012907	0.024575	0.122573	0.200493	0.841327
NAMPT.P43490	0.1282905	0.123937	1.035125	0.301107	-0.2772	0.319093	-0.8687	0.385685	0.083872	0.094921	0.883597	0.377599

TBCK.Q8TEA7	-0.330859	0.319656	-1.03505	0.301143	-0.31687	0.79396	-0.39911	0.69009	0.06878	0.236217	0.291171	0.771115
NDRG4.H3BVF3	-0.142334	0.137497	-1.03518	0.30117	-0.69835	0.357246	-1.95481	0.051668	-0.11525	0.105072	-1.09686	0.273709
IER3IP1.Q9Y5U9	0.0950051	0.091785	1.035078	0.301181	0.021815	0.225346	0.096806	0.92295	0.021497	0.065375	0.328822	0.742536
COQ3.Q9NZJ6	-0.132504	0.12804	-1.03487	0.301228	0.09088	0.348829	0.260528	0.79463	-0.04161	0.103755	-0.401	0.688693
SF3B4.Q15427	0.1215984	0.117585	1.034133	0.30157	0.138005	0.298145	0.462879	0.643776	-0.04083	0.088693	-0.46035	0.645591
GMEB2.Q5JTV1	0.1286703	0.124349	1.03475	0.301778	0.101635	0.349713	0.290625	0.771724	-0.01334	0.109721	-0.12161	0.903362
LRCH3.Q96I18	0.1446585	0.140035	1.033018	0.302285	-0.16185	0.374875	-0.43173	0.666347	-0.0451	0.11529	-0.39119	0.696022
IGHV3.74.A0A0B4J1X5	-0.063152	0.061151	-1.03272	0.302421	0.05348	0.171241	0.312308	0.755102	0.017473	0.046705	0.374119	0.708676
AKR1C2.P52895	0.0727478	0.070448	1.032638	0.302474	-0.03754	0.210922	-0.17796	0.858928	-0.03226	0.060231	-0.53563	0.592784
RORB.Q92753	-0.141214	0.136731	-1.03279	0.302606	-0.04096	0.334749	-0.12237	0.902759	-0.02506	0.09726	-0.25768	0.796989
SH3BP5.O60239	-0.193631	0.187546	-1.03245	0.302745	-0.56975	0.445932	-1.27766	0.203023	0.17302	0.146492	1.181084	0.239136
BCAP31.P51572	-0.21268	0.206162	-1.03162	0.302745	0.071894	0.535034	0.134373	0.893195	0.156614	0.158919	0.985492	0.325151
HCFC2.Q9Y5Z7	0.1882845	0.182381	1.032369	0.302756	-0.32451	0.468511	-0.69265	0.48944	0.04554	0.145875	0.312184	0.755268
EML3.Q32P44	0.1924089	0.186583	1.031222	0.302931	-0.8561	0.482833	-1.77308	0.077198	-0.06455	0.144314	-0.44731	0.654966
RAE1.P78406	0.3204011	0.310739	1.031094	0.302991	1.432013	0.808533	1.771125	0.077522	0.033791	0.241731	0.139789	0.888918
STARD13.Q9Y3M8	0.1754503	0.170112	1.031379	0.303007	-0.06019	0.445621	-0.13506	0.892676	0.181002	0.132001	1.371213	0.171606
ATP11A.H0Y547	0.2278846	0.221075	1.030802	0.303128	-1.2486	0.595945	-2.09516	0.036968	0.15186	0.178325	0.851588	0.3951
SLC9A6.Q92581.2	-0.219281	0.212845	-1.03024	0.303393	0.4223	0.549639	0.768322	0.442881	0.297179	0.162791	1.825527	0.068884
CUL9.Q8IWT3	0.1952612	0.189594	1.029893	0.303554	1.250609	0.475124	2.632174	0.008909	-0.0002	0.142912	-0.00137	0.99891
ZRSR1.Q15695	0.1138536	0.110508	1.030279	0.303805	0.289564	0.286057	1.01226	0.312932	-0.16487	0.090902	-1.81367	0.071591
ATG2A.Q2TAZ0.3	-0.165387	0.160554	-1.0301	0.304012	0.696166	0.440109	1.581802	0.115904	-0.16521	0.132403	-1.24779	0.214147
USP10.Q14694	-0.315074	0.306239	-1.02885	0.304044	-0.99806	0.75442	-1.32295	0.186827	-0.4404	0.223665	-1.969	0.049844
EBAG9.E9PN10	-0.12359	0.120127	-1.02883	0.304069	0.026104	0.33073	0.078927	0.937143	-0.33903	0.095701	-3.54256	0.000459
UBL4A.P11441	0.3338061	0.324493	1.028702	0.304113	0.863292	0.86113	1.002511	0.316879	-0.55618	0.254634	-2.18424	0.029693
HPS6.Q86YV9	-0.127308	0.12372	-1.029	0.304163	0.523437	0.301663	1.735172	0.084098	-0.04197	0.087036	-0.48227	0.630092
TNKS.O95271	0.1746016	0.169754	1.028557	0.304251	0.065185	0.455549	0.143092	0.886324	0.329244	0.129494	2.542544	0.011564
EML6.Q6ZMW3	-0.207611	0.201942	-1.02807	0.304411	-0.07271	0.493676	-0.14728	0.883004	-0.11991	0.146707	-0.81737	0.414346
ISYNA1.Q9NPH2	0.1756033	0.170884	1.027618	0.304622	-0.60778	0.424816	-1.43068	0.153528	0.463518	0.124029	3.737187	0.000222
GPR180.Q86V85	0.1800327	0.175236	1.027374	0.304799	-0.51594	0.406159	-1.27028	0.205055	0.215286	0.119892	1.79567	0.073641
ZBTB7A.O95365	-0.148669	0.144687	-1.02752	0.304891	0.08501	0.406061	0.209353	0.834371	0.041573	0.120186	0.345908	0.72975
DISP2.A7MBM2	0.1459857	0.14216	1.026914	0.304985	0.048368	0.37264	0.129799	0.896815	-0.05055	0.111642	-0.45275	0.651066
NDUFS7.O75251	-0.150858	0.146985	-1.02635	0.305217	0.325361	0.379006	0.858458	0.391303	0.036313	0.112863	0.321748	0.74786
CLEC16A.Q2KHT3	0.2692172	0.262306	1.026346	0.305221	-0.39948	0.659348	-0.60587	0.545042	-0.20849	0.195903	-1.06425	0.288042
SLC7A6.Q92536	0.1861631	0.181319	1.026713	0.305454	0.458418	0.433395	1.057737	0.291676	0.257899	0.124814	2.066264	0.04032

UBR5.O95071	0.1703433	0.166071	1.025726	0.305554	0.055019	0.424195	0.129701	0.896893	-0.03281	0.128268	-0.25578	0.798302
MAGED2.Q9UNF1	0.2225358	0.217013	1.025447	0.305644	-0.5233	0.535716	-0.97681	0.329423	-0.15929	0.159355	-0.99957	0.318299
SYBU.A0A0C4DG86	0.1866636	0.18208	1.025176	0.30578	-0.37344	0.456631	-0.81781	0.4141	-0.13512	0.136505	-0.98988	0.323016
RPLP0.P05388	-0.241656	0.235736	-1.02511	0.305802	-0.48583	0.671543	-0.72345	0.469947	0.172092	0.199702	0.861748	0.389493
MIEN1.Q9BRT3	0.2375168	0.232188	1.022951	0.306822	-0.05004	0.595076	-0.08409	0.933038	0.120912	0.176893	0.68353	0.494782
RASGRF1.Q13972	-0.158076	0.154543	-1.02286	0.306865	0.143963	0.398916	0.360886	0.71843	-0.14755	0.118399	-1.24619	0.213636
SMEK1.Q6IN85	0.2455964	0.240181	1.022548	0.307026	0.3136	0.603031	0.520038	0.60342	0.180136	0.177882	1.012669	0.312034
SARAF.Q96BY9	-0.181	0.177062	-1.02224	0.307156	-0.41128	0.491684	-0.83647	0.403534	-0.11618	0.146284	-0.79419	0.427689
DPY30.Q9C005	-0.07069	0.069156	-1.02217	0.307229	-0.1784	0.153835	-1.1597	0.247136	-0.00305	0.046827	-0.06521	0.948051
NIPSNAP3B.Q9BS92	-0.075269	0.073675	-1.02164	0.307441	-0.32605	0.188659	-1.72828	0.084934	0.044987	0.056335	0.798573	0.425149
GGA1.Q9UJY5	-0.363476	0.355928	-1.0212	0.307648	1.27798	0.908154	1.407228	0.160362	-0.21556	0.270745	-0.79616	0.426546
THEM4.Q5T1C6	-0.125232	0.122649	-1.02106	0.307714	0.453622	0.321636	1.410358	0.159437	0.094073	0.095839	0.98158	0.327072
MINK1.I3L2I2	-0.120177	0.117689	-1.02115	0.307753	0.214917	0.322521	0.666365	0.505762	0.063295	0.095148	0.665227	0.506488
MCFD2.Q8NI22	-0.136901	0.134209	-1.02005	0.308192	0.140277	0.333522	0.420592	0.674345	-0.17855	0.098726	-1.8085	0.071497
SCFD1.Q8WVM8	-0.239843	0.235143	-1.01999	0.308222	0.924112	0.598201	1.544817	0.123411	-0.26801	0.177988	-1.50576	0.133146
MORC2.Q9Y6X9	0.1627745	0.159524	1.020374	0.30831	0.08339	0.375214	0.222246	0.824344	0.093642	0.109005	0.859059	0.391311
NFKBIB.G5E9C2	0.1614512	0.158422	1.01912	0.308724	-0.21025	0.426562	-0.4929	0.622498	-0.0328	0.125003	-0.26241	0.793216
LONP2.Q86WA8	-0.152819	0.149976	-1.01895	0.308792	0.199084	0.376076	0.529372	0.596978	-0.06245	0.111718	-0.55896	0.576646
POLR1D.Q9Y2S0	-0.188417	0.184995	-1.0185	0.309028	0.266157	0.473047	0.562645	0.574171	-0.01573	0.134756	-0.1167	0.907193
FOLR2.P14207	-0.08311	0.081611	-1.01837	0.309031	0.00278	0.203023	0.013691	0.989086	-0.01359	0.061237	-0.22187	0.824574
GRIA3.P42263.2	-0.174402	0.171281	-1.01822	0.309064	-0.16536	0.42921	-0.38527	0.700304	-0.25001	0.126921	-1.96984	0.049746
PPFIA2.O75334	-0.316242	0.310634	-1.01805	0.30914	0.229202	0.798596	0.287006	0.774299	-0.30425	0.23697	-1.28391	0.200134
SLC44A1.Q8WWI5	-0.08315	0.081601	-1.01898	0.309191	-0.34639	0.213433	-1.62295	0.106787	-0.21657	0.061444	-3.52468	0.000569
BZRAP1.O95153	-0.164819	0.161796	-1.01868	0.30928	0.293801	0.422029	0.696164	0.487277	0.090688	0.110543	0.820389	0.413143
AMACR.Q9UHK6	-0.069085	0.067903	-1.01741	0.30948	0.119883	0.190909	0.627959	0.530525	-0.00099	0.056474	-0.01756	0.986006
BTBD9.Q96Q07	0.1494106	0.146851	1.017429	0.309549	-0.1963	0.353883	-0.55469	0.579601	0.028787	0.101056	0.284858	0.775987
MFSD6.H7COX2	-0.154652	0.152057	-1.01707	0.309608	0.046176	0.40338	0.114473	0.908937	-0.20654	0.119426	-1.7294	0.084733
LOC400499.M0QZD8	-0.16479	0.16202	-1.0171	0.309684	-0.18437	0.442962	-0.41621	0.677595	0.295778	0.126651	2.335383	0.020279
RNF169.Q8NCN4	0.037606	0.03697	1.017216	0.3097	-0.1405	0.103348	-1.35948	0.17527	0.051333	0.031852	1.611621	0.108359
NAPA.P54920	-0.206802	0.203461	-1.01642	0.309918	0.380022	0.548754	0.692518	0.489131	0.129287	0.163206	0.792173	0.428866
PLEK.P08567	0.1077672	0.105994	1.016733	0.309957	0.223756	0.299276	0.747658	0.455458	0.127579	0.086588	1.473405	0.142058
MRPL19.P49406	-0.127931	0.125953	-1.0157	0.310261	0.248941	0.325254	0.765375	0.444631	-0.07268	0.096761	-0.75113	0.453147
NQO1.B4DLR8	0.0364777	0.035918	1.01558	0.310317	0.01126	0.0963	0.116931	0.906991	0.009784	0.028643	0.341602	0.732882
ARHGAP4.E7EQN5	-0.106865	0.105197	-1.01586	0.310406	0.07942	0.284845	0.27882	0.780652	0.137152	0.084526	1.622614	0.106144

GPN1.Q9HCN4	0.1354651	0.133402	1.015463	0.310415	0.218642	0.35204	0.621073	0.535048	-0.1922	0.103259	-1.86137	0.063721
NLK.HOYD75	-0.185576	0.182847	-1.01493	0.31078	0.613805	0.478715	1.282194	0.201017	-0.10662	0.13848	-0.76991	0.442114
CTNNB1.P35222	-0.287625	0.283522	-1.01447	0.310845	-0.70905	0.70833	-1.00102	0.317598	0.020569	0.211053	0.097458	0.922426
CFAP74.Q9C0B2.2	0.140445	0.138349	1.015148	0.310899	-0.11128	0.323968	-0.34349	0.731627	0.130702	0.104194	1.254403	0.211313
PRKCZ.Q05513	0.160076	0.157786	1.014513	0.310906	0.029441	0.388651	0.075752	0.939673	0.052593	0.115092	0.456965	0.648065
ARMCX3.Q9UH62	-0.317468	0.313052	-1.0141	0.31102	-0.81133	0.73286	-1.10708	0.269119	0.147867	0.218282	0.677414	0.498649
ANKRD13A.Q8IZ07	0.122617	0.120924	1.014003	0.311135	-0.45093	0.334793	-1.3469	0.179151	0.145112	0.098765	1.469265	0.142934
FMNL2.Q96PY5.3	0.1220386	0.120408	1.013539	0.311289	-0.30085	0.328061	-0.91705	0.359832	-0.17772	0.097202	-1.82841	0.068449
HMHA1.Q92619	0.1279494	0.126187	1.013971	0.31134	0.033943	0.333854	0.101671	0.919113	0.063043	0.106192	0.593669	0.553355
UMAD1.C9J7I0	-0.128126	0.12642	-1.0135	0.311445	-0.21903	0.321218	-0.68187	0.495963	-0.07617	0.094154	-0.80904	0.41928
ARFGEF2.Q9Y6D5	-0.323065	0.318903	-1.01305	0.311522	0.821164	0.817226	1.004819	0.315768	-0.12606	0.243401	-0.51793	0.60488
APBB1.J3KPL8	-0.249133	0.245956	-1.01292	0.311585	0.663941	0.612398	1.084166	0.279134	0.035379	0.182512	0.193843	0.846426
IGKC.A0A087WTX5	-0.102473	0.101103	-1.01355	0.311615	0.161356	0.275962	0.584702	0.559445	0.048804	0.081509	0.598754	0.550054
CLPP.Q16740	-0.165326	0.163294	-1.01245	0.311809	0.206953	0.408563	0.50654	0.612837	-0.03786	0.121571	-0.3114	0.755703
RABGGTA.Q92696	-0.307829	0.304078	-1.01234	0.311863	-0.55487	0.794948	-0.698	0.485702	0.82933	0.231934	3.575717	0.000405
TTC5.Q8N0Z6	-0.260579	0.257603	-1.01155	0.312237	0.130156	0.62362	0.208711	0.834811	-0.30139	0.184738	-1.63143	0.103816
STK25.O00506	-0.23702	0.234336	-1.01145	0.312286	0.121243	0.607541	0.199563	0.841953	0.082551	0.180684	0.456883	0.648075
GDPD1.Q8N9F7	-0.282609	0.279446	-1.01132	0.312348	0.974718	0.745737	1.307053	0.192164	0.048385	0.222437	0.21752	0.827946
CSDC2.Q9Y534	0.0945682	0.093513	1.011286	0.312405	-0.30178	0.232618	-1.29731	0.195573	-0.08602	0.067794	-1.26883	0.205536
PSMF1.Q5QPM7	-0.169047	0.167184	-1.01114	0.312433	0.90771	0.437353	2.075463	0.038768	-0.14598	0.130743	-1.11654	0.265057
GPKOW.Q92917	0.1637549	0.161925	1.011303	0.312468	-0.12948	0.401352	-0.3226	0.747266	-0.20852	0.113696	-1.83404	0.067831
S100P.P25815	-0.046597	0.046065	-1.01154	0.312534	-0.00711	0.115507	-0.06156	0.950976	-0.00719	0.031372	-0.22917	0.818983
FAM184A.Q8NB25	0.1531566	0.151508	1.010878	0.3126	0.180651	0.419418	0.430718	0.666994	0.129854	0.125702	1.033028	0.302454
ASPHD2.Q6ICH7	0.1738497	0.172041	1.010511	0.312735	0.179775	0.465616	0.386102	0.699686	0.3325	0.137253	2.422541	0.015985
NOC3L.Q8WTT2	0.1317434	0.130291	1.011144	0.312888	0.184022	0.326356	0.563868	0.573596	-0.20932	0.101963	-2.05289	0.041634
SPHKAP.Q2M3C7	0.1181883	0.117003	1.010127	0.31295	-0.12509	0.283796	-0.44078	0.659698	-0.07178	0.083884	-0.85568	0.392875
NMT1.P30419	-0.222454	0.220319	-1.00969	0.313127	-0.23366	0.602406	-0.38787	0.698377	-0.84152	0.172759	-4.87104	1.77E-06
SLC1A3.P43003	-0.102667	0.101685	-1.00966	0.313142	0.23326	0.2723	0.856626	0.392313	-0.1681	0.080536	-2.08721	0.037686
APP.A0A0A0MRG2	0.1029811	0.102022	1.009399	0.313429	-0.38876	0.261018	-1.4894	0.137712	0.059304	0.072171	0.821708	0.412069
ARMC1.Q9NVT9	0.2276957	0.225738	1.008671	0.313616	0.257036	0.603209	0.426115	0.67032	-0.21622	0.179076	-1.20744	0.228183
VPS51.Q9UID3	-0.292871	0.290385	-1.00856	0.313668	-0.16932	0.755998	-0.22397	0.822927	0.370885	0.223926	1.656283	0.098676
PRR18.Q8N4B5	0.0801492	0.079462	1.008652	0.313736	-0.16495	0.215739	-0.76458	0.445228	-0.09321	0.063563	-1.46646	0.143754
GRM1.Q13255	0.1581043	0.156811	1.008245	0.313821	-0.2645	0.369753	-0.71535	0.474934	0.052817	0.110045	0.479961	0.631593
NAPEPLD.Q6IQ20	0.157869	0.15661	1.008038	0.31392	0.174125	0.372603	0.46732	0.640599	0.158048	0.110518	1.43007	0.153704

PLEKHF1.Q96S99	0.1258489	0.124824	1.008213	0.314	-0.48398	0.337534	-1.43386	0.152897	0.126273	0.103707	1.217599	0.224558
FAM151B.Q6UXP7	0.1447424	0.143575	1.008129	0.314079	-0.63356	0.361749	-1.75138	0.081281	0.238896	0.109457	2.182564	0.030131
COX20.Q5RI15	-0.15948	0.158386	-1.00691	0.314463	-0.02684	0.405491	-0.06619	0.947272	-0.14738	0.120337	-1.22471	0.221613
UNC5D.Q6UXZ4	-0.180136	0.178937	-1.0067	0.314569	0.050148	0.446452	0.112327	0.910638	-0.10815	0.13297	-0.81337	0.416639
TUBA1A.Q71U36	-0.182563	0.181601	-1.0053	0.315234	-0.10586	0.488238	-0.21682	0.82849	0.03226	0.145242	0.222116	0.82437
SAR1A.Q9NR31	-0.233302	0.232182	-1.00482	0.315464	0.164439	0.640814	0.256609	0.797651	0.207449	0.190287	1.09019	0.276476
TANC2.Q9HCD6.2	-0.1942	0.193347	-1.00441	0.315661	-0.22644	0.446478	-0.50717	0.612399	-0.13156	0.132664	-0.9917	0.322118
SERF2.P84101	0.0973137	0.09692	1.004063	0.315897	-0.13068	0.241964	-0.54006	0.589589	-0.04751	0.072119	-0.65875	0.510606
ANXA7.P20073	0.2630868	0.262136	1.003626	0.31604	0.291067	0.645042	0.451237	0.652134	-0.19391	0.191636	-1.01186	0.312394
TRAP1.Q12931	-0.14998	0.149448	-1.00356	0.316074	-0.18442	0.364171	-0.5064	0.612933	0.068271	0.10831	0.630327	0.528945
MPO.P05164	-0.056749	0.056552	-1.00348	0.316298	-0.07114	0.144471	-0.49242	0.622905	0.028901	0.042086	0.6867	0.492985
ZNF148.Q9UQR1	0.1452298	0.144745	1.003349	0.31631	0.557808	0.336728	1.656552	0.098911	0.301195	0.099964	3.013043	0.002862
MXRA7.Q6ZR64	-0.13127	0.130832	-1.00335	0.316358	-0.07299	0.382819	-0.19067	0.848954	-0.69071	0.098783	-6.99219	3.11E-11
SLK.Q9H2G2.2	-0.347204	0.346259	-1.00273	0.316472	0.143754	0.870521	0.165136	0.868944	-0.65197	0.256315	-2.54362	0.011456
SNX3.O60493	0.1676681	0.167314	1.002118	0.316767	0.19106	0.384289	0.497179	0.619415	0.222378	0.113665	1.956425	0.051313
PAQR9.Q6ZVX9	-0.117588	0.117243	-1.00294	0.31677	0.084596	0.266651	0.317254	0.751438	-0.02259	0.082954	-0.27234	0.785688
RFXAP.O00287	0.1305267	0.130191	1.002581	0.316778	0.239981	0.345788	0.694011	0.488428	-0.15307	0.100635	-1.52105	0.129724
SPAST.Q9UBP0	0.2991257	0.298642	1.001618	0.317009	0.013732	0.782478	0.017549	0.98601	0.571422	0.2305	2.479056	0.013705
PMS2.P54278	-0.154272	0.154022	-1.00162	0.317076	0.331445	0.412098	0.804287	0.421931	-0.05434	0.123964	-0.43832	0.661501
NDUFA4.Q9P032	-0.103188	0.103075	-1.0011	0.31726	-0.05235	0.257317	-0.20344	0.838928	0.078005	0.076424	1.020682	0.308201
ADAM11.O75078	-0.249639	0.249411	-1.00091	0.317349	-0.53557	0.664359	-0.80615	0.420777	-0.22458	0.19743	-1.13753	0.256195
PPOX.P50336	-0.189636	0.189484	-1.0008	0.317403	-0.6751	0.535885	-1.25978	0.208696	0.039101	0.159809	0.244676	0.806869
COIL.P38432	0.1633488	0.163182	1.00102	0.317456	-0.21077	0.421449	-0.50011	0.61747	-0.24295	0.12329	-1.97055	0.04996
RBCK1.Q9BYM8	-0.14481	0.144701	-1.00075	0.317485	0.881644	0.408404	2.158756	0.031737	-0.04174	0.120229	-0.34719	0.728712
EEF2K.O00418	0.019035	0.019031	1.000234	0.31773	-0.04569	0.046384	-0.98504	0.325448	0.001164	0.013552	0.085903	0.931605
DTX3.Q8N9I9	-0.17273	0.172716	-1.00008	0.317751	0.532864	0.441854	1.205973	0.228747	-0.11867	0.131579	-0.90187	0.367824
HIVEP2.P31629	-0.176653	0.176607	-1.00026	0.317916	-0.04942	0.461387	-0.10711	0.914808	0.127388	0.142644	0.893049	0.372858
ALDH4A1.P30038	-0.115188	0.115229	-0.99965	0.317961	0.32004	0.28612	1.118552	0.264197	0.030603	0.085269	0.358901	0.719913
TMEM132B.Q14DG7	-0.245707	0.245839	-0.99946	0.31805	-0.49696	0.606763	-0.81903	0.413399	-0.11029	0.180588	-0.61071	0.541838
NISCH.Q9Y211	0.2842735	0.284752	0.998321	0.318603	0.111796	0.752059	0.148653	0.881924	0.470064	0.222134	2.116133	0.03513
EHHADH.Q08426	0.1610925	0.161459	0.997729	0.318911	-0.65159	0.419151	-1.55456	0.12112	0.095164	0.124859	0.762169	0.446566
CCDC23.Q8N300	-0.100831	0.101047	-0.99786	0.318936	-0.03382	0.262054	-0.12904	0.897429	-0.17865	0.079754	-2.23999	0.025974
SPRED1.Q7Z699	-0.237029	0.237604	-0.99758	0.318962	0.543278	0.608228	0.893215	0.372435	0.100079	0.181081	0.552674	0.580885
MRPL50.Q8N5N7	-0.157625	0.158023	-0.99748	0.31901	0.428427	0.394355	1.086398	0.278147	-0.06754	0.117474	-0.5749	0.565777

HINT2.Q9BX68	-0.229933	0.230693	-0.99671	0.319385	-0.07863	0.603314	-0.13034	0.896385	0.03134	0.179471	0.174622	0.861491
NIF3L1.Q9GZT8	0.2605554	0.261488	0.996432	0.319518	0.061084	0.671744	0.090933	0.927604	0.367207	0.198743	1.847644	0.065606
EPB41L3.Q9Y2J2.2	-0.086562	0.086872	-0.99643	0.319542	0.039478	0.221701	0.178067	0.858792	-0.07442	0.066087	-1.12602	0.261064
SLC25A33.Q9BSK2	-0.128716	0.129241	-0.99593	0.319868	0.019105	0.337926	0.056537	0.954958	0.049202	0.099027	0.496856	0.619721
CHD1L.Q86WJ1	0.1261608	0.126625	0.996334	0.319936	0.29306	0.311721	0.940136	0.348451	0.025551	0.091346	0.279712	0.780031
ANK3.H0Y9E9	0.161009	0.161735	0.995512	0.319965	0.128035	0.445054	0.287684	0.773781	-0.01577	0.13241	-0.11909	0.905283
DPF2.J3KMZ8	-0.168628	0.169328	-0.99587	0.319967	-0.51362	0.463277	-1.10867	0.268733	0.063466	0.134505	0.471847	0.637483
APPBP2.Q92624	0.1532601	0.153917	0.99573	0.31998	0.835747	0.389207	2.14731	0.032754	0.094828	0.115894	0.818225	0.414027
EIF4G1.E7EX73	0.1717639	0.172518	0.995627	0.320139	-0.1319	0.429991	-0.30676	0.759327	-0.28064	0.125537	-2.23554	0.026425
IFT81.Q8WYA0	-0.188763	0.189647	-0.99534	0.32028	-0.03768	0.486855	-0.07739	0.938389	0.066138	0.144666	0.457179	0.648012
CDK11B.B7ZVY7	0.2568093	0.258174	0.994715	0.320352	-0.86373	0.65934	-1.30999	0.191168	0.271048	0.196081	1.382327	0.167866
XRN1.Q8IZH2	0.1831352	0.184177	0.994342	0.320541	0.351477	0.461546	0.761521	0.446935	-0.00592	0.138656	-0.04273	0.965946
RNMTL1.Q9HC36	-0.099612	0.10027	-0.99344	0.320974	-0.21654	0.258582	-0.83742	0.402999	-0.0257	0.076997	-0.33373	0.738812
NAP1L4.Q99733.2	0.2602415	0.261984	0.993349	0.321017	0.734978	0.671458	1.094599	0.274542	-0.26402	0.19957	-1.32293	0.186833
AIFM2.Q9BRQ8	0.1716416	0.172782	0.993399	0.321177	-0.14628	0.462621	-0.3162	0.752146	-0.065	0.135127	-0.48105	0.630949
PRPF40B.F8VU11	-0.142621	0.143571	-0.99339	0.321213	0.531144	0.382734	1.387761	0.16666	-0.25791	0.10972	-2.35063	0.019655
PPIL1.Q9Y3C6	-0.115183	0.116005	-0.99291	0.321231	-0.21704	0.296439	-0.73217	0.46462	-0.03964	0.088233	-0.44921	0.653592
POR.P16435	-0.270925	0.272931	-0.99265	0.321358	-0.37946	0.694505	-0.54637	0.585202	-0.14636	0.206535	-0.70865	0.479077
KCNN2.Q9H2S1	-0.12141	0.122289	-0.99281	0.321434	0.12212	0.310003	0.39393	0.693996	-0.03976	0.096279	-0.413	0.679989
NECAB2.Q7Z6G3	-0.093357	0.094072	-0.9924	0.32148	-0.12188	0.231674	-0.52607	0.599215	-0.04473	0.068903	-0.64919	0.516694
TMEM130.Q8N3G9.2	-0.140534	0.141593	-0.99252	0.321538	0.756779	0.373356	2.026963	0.043754	0.045718	0.109138	0.418903	0.675655
USP46.P62068	0.2647534	0.266863	0.992093	0.321628	-0.10243	0.677886	-0.1511	0.879991	-0.15912	0.201464	-0.78982	0.430239
MRE11A.P49959	0.1838513	0.185367	0.991822	0.32176	0.867327	0.474738	1.82696	0.068667	0.161256	0.141689	1.1381	0.255958
HEPACAM.Q14CZ8	-0.108084	0.109012	-0.99148	0.321926	-0.08533	0.284498	-0.29992	0.764438	-0.23687	0.08357	-2.83437	0.004893
AQR.O60306	0.1401583	0.14138	0.991358	0.322037	0.006533	0.394969	0.01654	0.986815	0.27399	0.117637	2.329111	0.020562
TMEM19.F8VRE8	0.1981289	0.199879	0.991245	0.322099	-0.62729	0.54265	-1.15598	0.24869	0.218054	0.154048	1.41549	0.158052
PGK2.P07205	0.0342921	0.034602	0.991044	0.32214	-0.08107	0.088656	-0.91443	0.361202	-0.00653	0.026407	-0.24728	0.804856
EDC4.Q6P2E9	0.3117424	0.314607	0.990894	0.322213	-0.45956	0.763651	-0.60179	0.547753	-0.10425	0.227228	-0.45877	0.64672
PCOLCE.Q15113	0.0756624	0.076338	0.991152	0.322232	-0.13789	0.190259	-0.72475	0.469321	0.045661	0.057087	0.799838	0.424606
DDHD1.Q8NEL9.2	-0.268834	0.271348	-0.99074	0.322289	0.131936	0.665908	0.19813	0.843073	0.077307	0.19806	0.390323	0.696566
RPL3.P39023	-0.242091	0.244449	-0.99035	0.322477	-0.06784	0.625197	-0.1085	0.913666	0.239819	0.185489	1.2929	0.197008
MVD.P53602	0.1442583	0.145676	0.990268	0.322518	-0.1798	0.379666	-0.47356	0.636144	0.121772	0.112773	1.079796	0.281072
EIF2A.Q9BY44	0.259139	0.261727	0.990111	0.322595	0.387734	0.69841	0.555167	0.579181	0.176292	0.207626	0.849082	0.396491
RSBN1.Q5VWQ0	-0.161165	0.162772	-0.99013	0.322909	-0.30115	0.47951	-0.62805	0.530719	-0.25654	0.138099	-1.85766	0.064749

RICTOR.Q6R327.3	0.2103867	0.212635	0.989427	0.322942	-0.00303	0.525872	-0.00576	0.995409	0.436002	0.153263	2.844792	0.00475
HSPBP1.Q9NZL4	-0.198637	0.200915	-0.98866	0.323302	-0.12764	0.500972	-0.25479	0.799053	0.234404	0.14845	1.579008	0.115354
VPS36.Q86VN1	-0.286966	0.290306	-0.98849	0.323385	1.244952	0.696684	1.786968	0.07492	-0.07603	0.208271	-0.36507	0.715306
HSPG2.P98160	0.0968914	0.098029	0.988391	0.323435	-0.04759	0.24198	-0.19665	0.84423	-0.03903	0.071955	-0.54241	0.587923
ACAA2.P42765	-0.149108	0.150864	-0.98836	0.32345	0.358487	0.382436	0.93738	0.349293	0.000739	0.113929	0.006488	0.994828
XPO5.Q9HAV4	-0.163733	0.165797	-0.98755	0.323931	-0.40758	0.443391	-0.91923	0.358818	0.085546	0.129688	0.659625	0.510074
ACTN3.Q08043	0.0356659	0.036117	0.987517	0.324047	-0.0041	0.089747	-0.04565	0.963627	-0.00287	0.026161	-0.10982	0.912648
PRPF19.F5H2I0	-0.06296	0.063717	-0.98811	0.324077	-0.1205	0.177275	-0.67975	0.497763	-0.01536	0.047053	-0.32635	0.744636
HSP90B1.P14625	-0.207835	0.210612	-0.98682	0.324206	-0.63889	0.538828	-1.18571	0.236647	0.089361	0.160575	0.556508	0.578265
SARM1.Q6SZW1	0.2121834	0.2151	0.986441	0.32439	0.054942	0.595269	0.092297	0.926521	0.425301	0.175429	2.424346	0.015908
MRPL17.Q9NRX2	-0.112211	0.113774	-0.98626	0.324491	-0.1918	0.290061	-0.66124	0.508963	-0.14884	0.0853	-1.7449	0.082027
LDHD.Q86WU2	-0.133507	0.1354	-0.98602	0.324597	0.586275	0.344748	1.700589	0.090023	-0.12269	0.102798	-1.19347	0.233598
ARFIP1.P53367	0.2430007	0.246484	0.98587	0.32467	0.169288	0.610444	0.27732	0.78172	0.034049	0.181608	0.187488	0.851401
EIF2S3.P41091	0.337388	0.342297	0.98566	0.324773	-1.25093	0.844328	-1.48156	0.139472	0.891957	0.246917	3.612376	0.000354
CSNK2A1.E7EU96	0.2860131	0.290219	0.985506	0.324848	-0.45391	0.760913	-0.59653	0.551253	0.082715	0.226439	0.365284	0.715148
NLGN1.Q8N2Q7	0.1226438	0.12448	0.985252	0.325005	-0.1164	0.337477	-0.3449	0.730423	0.073487	0.098737	0.744275	0.457321
BRK1.Q8WUW1	-0.255813	0.259686	-0.98509	0.325054	-0.83891	0.643628	-1.30341	0.1934	0.240555	0.191505	1.256127	0.210016
IVNS1ABP.Q9Y6Y0	0.1288715	0.130785	0.985368	0.325059	-0.44074	0.334039	-1.31943	0.188299	0.139875	0.092631	1.510034	0.132367
MPG.P29372	0.1852957	0.187997	0.985629	0.325231	0.076173	0.474807	0.160429	0.872741	-0.08532	0.149753	-0.56974	0.569634
BSDC1.Q9NW68	-0.236369	0.240083	-0.98453	0.325327	0.095133	0.61167	0.155529	0.876505	-0.31662	0.181077	-1.74853	0.081363
FCGBP.Q9Y6R7	-0.040969	0.041613	-0.98453	0.32533	0.214928	0.104848	2.049912	0.041214	0.013421	0.031392	0.427541	0.669282
FAM91A1.Q658Y4	0.2155356	0.219019	0.984096	0.32554	-0.14893	0.592952	-0.25117	0.801847	0.197844	0.176052	1.123777	0.261977
WDR45.Q9Y484	-0.320101	0.325313	-0.98398	0.325613	-0.39722	0.841357	-0.47212	0.637186	0.896056	0.243145	3.685278	0.000271
YJEFN3.A6XGL0.2	-0.091352	0.092867	-0.98369	0.32574	0.01656	0.241181	0.06866	0.945304	-0.0298	0.071728	-0.4155	0.678061
SYNGR2.O43760	0.1227863	0.124818	0.983721	0.325821	-0.22966	0.33803	-0.6794	0.497496	0.303474	0.096705	3.138126	0.001899
USP33.Q8TEY7	-0.197648	0.200972	-0.98346	0.325883	0.308275	0.553653	0.556802	0.578089	0.212396	0.163414	1.299743	0.194714
CHCHD5.Q9BSY4	-0.142099	0.144456	-0.98368	0.325955	-0.15075	0.376372	-0.40053	0.689159	-0.24315	0.111411	-2.18243	0.030146
CC2D1A.Q6P1N0.2	0.2856274	0.290666	0.982665	0.326244	0.259821	0.761033	0.341406	0.733029	0.335613	0.225633	1.487432	0.137917
SCCPDH.Q8NBX0	-0.265767	0.270745	-0.98161	0.326761	-0.54362	0.746393	-0.72833	0.466958	0.106555	0.222146	0.47966	0.631807
PPP2CB.P62714	-0.227174	0.231445	-0.98155	0.326794	0.885928	0.618252	1.432958	0.152878	0.27883	0.183846	1.516649	0.130374
FAM49A.Q9H0Q0	-0.176369	0.17972	-0.98136	0.326886	0.585229	0.452182	1.294232	0.196549	0.01899	0.134875	0.1408	0.88812
NUP153.P49790	0.1339202	0.13648	0.981246	0.326964	-0.26731	0.373965	-0.71481	0.475294	-0.3891	0.10922	-3.56253	0.000428
MRPS25.P82663	-0.133562	0.136147	-0.98102	0.327056	0.787234	0.350828	2.243934	0.025542	-0.14779	0.104874	-1.40918	0.159784
FN1.P02751	0.071559	0.072974	0.980606	0.327258	-0.33385	0.178082	-1.87469	0.061775	0.080477	0.053079	1.516177	0.130494

PLEKHD1.A6NEE1	0.1400431	0.142723	0.98122	0.327299	0.292405	0.387064	0.755443	0.450993	0.105207	0.117699	0.893866	0.372614
HEBP2.Q9Y5Z4	0.1335742	0.136285	0.980112	0.327501	-0.612	0.349959	-1.74878	0.081319	0.046709	0.104585	0.446608	0.65547
ELAVL3.Q14576	0.1877887	0.191624	0.979985	0.327564	-0.02621	0.435867	-0.06013	0.952089	-0.02921	0.129653	-0.22532	0.821881
DNAJA1.P31689	0.1552534	0.158429	0.979953	0.327579	-0.25808	0.390276	-0.66127	0.508931	0.40015	0.113937	3.512015	0.000511
OSBPL10.Q9BXB5	-0.187196	0.19103	-0.97993	0.32759	0.027965	0.459634	0.060843	0.951523	-0.21498	0.136187	-1.57854	0.115461
NUMB.P49757	-0.248253	0.253443	-0.97952	0.327793	0.714282	0.636433	1.122321	0.262595	-0.57697	0.18686	-3.08772	0.002199
KRT14.P02533	0.0360118	0.036777	0.979195	0.327953	-0.00207	0.094074	-0.02202	0.982448	0.028787	0.027937	1.030413	0.303619
IL16.Q14005	0.1139979	0.116399	0.979373	0.327983	-0.32312	0.298426	-1.08273	0.279969	-0.02233	0.089336	-0.2499	0.802869
RIMS1.Q86UR5	-0.257892	0.263442	-0.97893	0.328083	0.264222	0.658747	0.401099	0.688624	-0.23603	0.195557	-1.20696	0.228368
MPP2.B4DZ84	0.2121504	0.216852	0.978321	0.328385	0.63112	0.541072	1.166426	0.244339	0.27403	0.16056	1.706718	0.088876
MTM1.Q13496	0.1979654	0.202387	0.978155	0.328467	-0.29038	0.535423	-0.54234	0.587975	-0.14761	0.159134	-0.92761	0.354332
CLEC14A.Q86T13	-0.120442	0.123167	-0.97787	0.328746	-0.04562	0.333199	-0.13692	0.891212	-0.00539	0.094687	-0.05692	0.954655
CTTN.Q14247	-0.174399	0.178403	-0.97756	0.328762	0.111658	0.495391	0.225393	0.821822	-0.96479	0.136817	-7.05165	1.16E-11
DISC1.Q9NRI5	-0.079803	0.081611	-0.97785	0.328828	0.334661	0.223206	1.499336	0.135267	-0.06619	0.064835	-1.02085	0.308482
PTPN9.A0A0A0MR09	-0.211457	0.216358	-0.97735	0.328867	-0.21302	0.532623	-0.39994	0.689474	-0.24444	0.157878	-1.5483	0.122571
FAM129B.Q96TA1	0.1660278	0.169889	0.977273	0.328903	-0.37816	0.435773	-0.86778	0.386185	0.190355	0.129341	1.471733	0.142107
RNF220.D3DPZ1	-0.160059	0.163771	-0.97733	0.328905	0.036385	0.432223	0.084181	0.932971	0.115553	0.126237	0.915361	0.360765
NDUFA5.Q16718	-0.124019	0.12691	-0.97722	0.328929	0.226309	0.378843	0.597369	0.550697	0.046538	0.112733	0.412817	0.680026
PFKP.Q01813	-0.198114	0.202779	-0.97699	0.32904	-0.24881	0.481972	-0.51623	0.606063	0.297879	0.142439	2.091277	0.037317
NPTXR.O95502	-0.111262	0.113938	-0.97652	0.329276	-0.13677	0.283271	-0.48281	0.62957	-0.09864	0.084114	-1.17267	0.241827
TBCD.J3KR97	0.1795349	0.184014	0.975659	0.329702	0.392172	0.464963	0.843448	0.399628	0.033194	0.138464	0.239728	0.8107
ARRB2.P32121	-0.173224	0.177545	-0.97567	0.329728	0.219892	0.446963	0.491969	0.623112	-0.1044	0.131297	-0.79514	0.427182
ZHX1.Q9UKY1	0.1363928	0.139688	0.976409	0.329746	0.368368	0.347635	1.059638	0.290906	0.020171	0.094706	0.212988	0.831607
FBXO2.Q9UK22	0.1638006	0.167918	0.975478	0.329791	-0.26407	0.428353	-0.61648	0.538033	0.254405	0.126684	2.008181	0.045491
TMEM59L.Q9UK28	-0.144021	0.147688	-0.97517	0.329982	-0.38361	0.402478	-0.95313	0.341329	-0.28284	0.120372	-2.34975	0.019463
C4A.P0C0L4	0.050287	0.051581	0.974917	0.330069	0.163609	0.13358	1.224804	0.221579	0.078008	0.039586	1.970584	0.049661
COL6A6.A6NMZ7	-0.040899	0.041949	-0.97497	0.330126	-0.05919	0.105857	-0.55911	0.576564	-0.03001	0.030532	-0.98306	0.326487
GANAB.Q14697	0.1542512	0.158258	0.974679	0.330195	-0.5078	0.393782	-1.28955	0.19818	-0.03862	0.118455	-0.32601	0.744637
SOX2.P48431	0.1353161	0.138828	0.974703	0.330453	-0.21211	0.406739	-0.5215	0.602607	-0.38375	0.122526	-3.13195	0.002001
TNKS1BP1.Q9C0C2	-0.219452	0.225332	-0.9739	0.330572	0.67202	0.590124	1.138777	0.255675	-0.90451	0.16825	-5.37596	1.50E-07
MYH7B.A0A087X0T3	-0.081784	0.083966	-0.97401	0.330576	-0.34625	0.201813	-1.71571	0.087328	0.018319	0.061816	0.296353	0.767182
RBBP4.Q09028	0.1391777	0.142929	0.973752	0.330654	-0.14617	0.328285	-0.44525	0.656455	-0.07161	0.097992	-0.73083	0.465441
CNKS2R.Q8WXI2.4	-0.170274	0.174871	-0.97371	0.330682	-0.23313	0.447806	-0.52061	0.603021	-0.26416	0.132813	-1.98897	0.04761
PPEF1.O14829	-0.087574	0.089962	-0.97346	0.330792	0.169792	0.225223	0.753885	0.451491	-0.12328	0.066695	-1.84837	0.065501

VIPAS39.G3V4K3	0.2649537	0.272256	0.973179	0.330931	-0.59139	0.675697	-0.87524	0.382123	0.000637	0.201256	0.003164	0.997478
NUFIP2.Q7Z417	-0.175413	0.180287	-0.97297	0.331035	-0.12102	0.474978	-0.2548	0.799048	-0.77451	0.134291	-5.76742	1.95E-08
EHD2.Q9NZN4	-0.105932	0.108887	-0.97287	0.331086	-0.17265	0.280922	-0.61459	0.539277	-0.08354	0.083485	-1.00069	0.317757
EEA1.Q15075	-0.352474	0.362449	-0.97248	0.331279	-0.32575	0.967551	-0.33667	0.736592	-0.53593	0.286268	-1.87213	0.06213
EPS15.P42566	0.1968956	0.202531	0.972175	0.33143	-0.06076	0.539143	-0.1127	0.910338	-0.20508	0.159965	-1.282	0.2008
LAMA4.A0A0A0MTC7	0.115758	0.11911	0.971858	0.331587	-0.26853	0.305027	-0.88035	0.379352	0.148784	0.09046	1.644751	0.101035
PLCB4.Q15147.4	0.1493742	0.153708	0.971806	0.331613	0.083413	0.350072	0.238275	0.811825	0.01813	0.104145	0.174088	0.86191
NT5DC3.Q86UY8	-0.130649	0.134518	-0.97124	0.331895	0.015116	0.329129	0.045929	0.963397	-0.16754	0.097447	-1.71928	0.086562
PTPRA.P18433	-0.3457	0.356175	-0.97059	0.332218	-1.01291	0.91453	-1.10757	0.268905	-0.27792	0.272137	-1.02126	0.307926
ACBD7.Q8N6N7	-0.073961	0.076203	-0.97058	0.332221	0.176952	0.199337	0.887704	0.375388	-0.25976	0.057512	-4.51651	8.95E-06
UBL3.O95164	0.1264516	0.13034	0.97017	0.332427	0.195005	0.34308	0.568395	0.570178	0.077439	0.102019	0.759071	0.448387
AP2A2.O94973.2	-0.15568	0.160476	-0.97011	0.332455	-0.10695	0.417323	-0.25629	0.7979	-0.11946	0.123974	-0.96358	0.33601
MAPK9.P45984.3	-0.190063	0.195929	-0.97006	0.332482	-0.03242	0.526697	-0.06155	0.95096	0.020872	0.15668	0.133212	0.894112
IGHV3.72.A0A087WW89	0.0435318	0.044909	0.96934	0.33284	0.086284	0.116915	0.738008	0.461068	0.036256	0.03475	1.043339	0.297604
PCBD2.Q9H0N5	0.1218236	0.12568	0.969316	0.332853	-0.40582	0.336474	-1.20611	0.228696	0.069765	0.100251	0.695899	0.487013
SSTR2.P30874	0.1111346	0.114686	0.969033	0.332994	-0.36132	0.330135	-1.09446	0.274604	-0.24375	0.09742	-2.50208	0.012861
SKP1.P63208	-0.198782	0.205174	-0.96885	0.333086	-0.60219	0.554855	-1.08531	0.278628	-0.27971	0.164608	-1.69924	0.090277
CAMK2B.Q13554.3	0.1409601	0.145453	0.969113	0.333164	-0.14854	0.373248	-0.39796	0.691058	0.186622	0.11039	1.690565	0.09239
CTBP2.Q5SQP8	0.1847944	0.190813	0.968458	0.33328	-0.08048	0.458986	-0.17534	0.860925	-0.07098	0.136487	-0.52003	0.603411
ANGEL1.Q9UNK9	-0.113666	0.117398	-0.96821	0.33346	0.274474	0.301025	0.911801	0.362669	-0.03889	0.085604	-0.45431	0.649965
TXNDC9.O14530	-0.238838	0.246834	-0.96761	0.333705	-1.00727	0.654593	-1.53877	0.12488	-0.06004	0.195442	-0.30723	0.758878
SMYD3.Q9H7B4	-0.218337	0.225723	-0.96728	0.333896	0.123491	0.60416	0.204401	0.838185	-0.05383	0.174423	-0.30864	0.757817
DAAM2.Q86T65	0.1053849	0.108957	0.967218	0.333899	-0.15767	0.283107	-0.55692	0.577981	0.064859	0.084181	0.770475	0.441605
RAPH1.C9K0J5	-0.184345	0.190619	-0.96708	0.333966	0.485309	0.461637	1.051279	0.293949	-0.22316	0.136988	-1.62905	0.104318
GLRX3.O76003	0.1972635	0.203984	0.967054	0.333981	0.376722	0.510299	0.738239	0.460928	0.000427	0.151938	0.002813	0.997758
ERCC1.P07992	0.0997308	0.103101	0.967316	0.33415	0.13252	0.355808	0.372448	0.709948	0.011605	0.109167	0.106304	0.915446
EMC9.Q9Y3B6	-0.122602	0.126856	-0.96647	0.334359	0.492402	0.339494	1.450403	0.148151	0.130267	0.097406	1.337354	0.182276
PCYOX1.Q9UHG3	-0.229383	0.237421	-0.96614	0.334437	-0.76224	0.665375	-1.14558	0.252854	0.102329	0.198271	0.516106	0.606149
KCNQ2.O43526.4	-0.157838	0.163314	-0.96647	0.334551	-0.08809	0.391356	-0.22509	0.822148	-0.16992	0.113177	-1.50135	0.134884
POLR2G.P62487	0.1667297	0.172582	0.96609	0.334558	0.22964	0.42321	0.542615	0.587871	0.291189	0.119736	2.431926	0.015711
MAGED4B.Q96JG8	-0.144657	0.149946	-0.96473	0.33515	-0.46029	0.357362	-1.28804	0.19871	0.015228	0.107543	0.141598	0.887491
GNA12.Q03113	0.1758011	0.182238	0.964677	0.335169	-0.14319	0.477478	-0.29989	0.764463	0.017889	0.142058	0.125929	0.899869
PLS1.Q14651	0.1395883	0.144713	0.964591	0.335235	0.362977	0.355584	1.020793	0.308181	0.33868	0.105668	3.205125	0.001497
TMEM120A.Q9BXJ8	0.1235373	0.128103	0.96436	0.335328	-0.37163	0.322542	-1.1522	0.250125	0.23238	0.095246	2.439794	0.015256

PNN.Q9H307	0.1872654	0.194235	0.964117	0.33545	-0.04728	0.44157	-0.10707	0.9148	-0.37112	0.12966	-2.86224	0.004493
OTULIN.Q96BN8	0.1135967	0.11785	0.963907	0.335594	0.217719	0.308937	0.704736	0.481552	0.184714	0.090218	2.04743	0.041536
GAK.O14976	-0.285191	0.296094	-0.96318	0.335921	-0.5556	0.753755	-0.73711	0.461615	0.143312	0.224278	0.638995	0.523298
SACS.Q9NZJ4	0.1802491	0.187176	0.96299	0.336014	0.311178	0.465959	0.667822	0.504744	0.122231	0.13854	0.882275	0.378312
ASCC3.Q8N3C0	-0.183397	0.190467	-0.96288	0.336146	-0.36001	0.514123	-0.70023	0.48439	0.014023	0.153395	0.091416	0.92723
SPCS2.A0A087WUC6	0.1930969	0.200592	0.962636	0.336192	-0.99222	0.499616	-1.98597	0.047917	0.084537	0.149492	0.565492	0.572148
B3GALNT1.O75752	0.1756277	0.182354	0.963114	0.336414	-0.36607	0.474181	-0.772	0.441281	0.021163	0.145121	0.145833	0.884242
DIP2A.Q14689	0.2791023	0.290101	0.962087	0.336467	-0.19849	0.734898	-0.27009	0.787273	0.363047	0.21767	1.667876	0.09635
UHRF1BP1L.A0JNW5	-0.335623	0.34898	-0.96173	0.336648	0.169719	0.816872	0.207766	0.835548	0.19107	0.24278	0.787009	0.431878
TMEM67.Q5HYA8	0.1790277	0.186025	0.962387	0.336749	-0.25366	0.448688	-0.56535	0.572578	0.078301	0.135392	0.578328	0.563803
TRMT11.Q7Z4G4	0.1260258	0.131057	0.961614	0.336768	0.350399	0.325142	1.077682	0.28212	-0.06573	0.096293	-0.68261	0.495425
VAMP7.P51809	-0.213681	0.222286	-0.96129	0.336867	0.4715	0.586878	0.803404	0.422357	0.059716	0.174735	0.341754	0.732767
AASDHPT.Q9NRN7	0.2278435	0.237077	0.961051	0.336987	1.059229	0.59353	1.784627	0.0753	0.199131	0.177109	1.124344	0.261737
MCOLN1.Q9GZU1	0.126531	0.131624	0.961309	0.337011	0.032809	0.332374	0.098712	0.921452	0.138239	0.096974	1.425536	0.155341
MPP3.D3DX46	0.1284658	0.133695	0.960889	0.337069	-0.03055	0.29786	-0.10257	0.918374	-0.01123	0.088607	-0.12678	0.899199
GUCY1B3.Q02153	0.2802576	0.291734	0.96066	0.337184	-0.37076	0.774328	-0.47881	0.632409	0.27268	0.229913	1.186013	0.236525
TMEM63A.O94886	0.1261672	0.131269	0.961135	0.337184	-0.18391	0.34089	-0.53949	0.590151	0.126131	0.102388	1.231891	0.219436
UQCRFS1.P47985	-0.216295	0.225256	-0.96022	0.337406	0.70212	0.61502	1.141622	0.254492	-0.06436	0.183305	-0.3511	0.725751
USP30.Q70CQ3	0.230826	0.240411	0.960129	0.337451	0.102369	0.603223	0.169703	0.865355	0.329307	0.178479	1.845071	0.065981
DERA.Q9Y315	0.1076994	0.112179	0.96007	0.33748	-0.0698	0.26622	-0.26218	0.793357	0.180205	0.07854	2.294422	0.022434
SCG5.P05408	-0.114368	0.119197	-0.95948	0.337799	0.142533	0.317053	0.449556	0.653366	0.144985	0.092669	1.564547	0.118776
DNAJC11.Q9NVH1	-0.282096	0.294027	-0.95942	0.337807	0.573737	0.74344	0.771732	0.440861	0.068071	0.221339	0.30754	0.758639
WASF3.Q9UPY6	-0.101504	0.105741	-0.95993	0.337812	0.179833	0.248429	0.723881	0.469964	-0.18371	0.075815	-2.42307	0.016259
SLC9A7.A0A087WXD1	-0.192722	0.200975	-0.95894	0.338051	-0.0411	0.535159	-0.0768	0.938834	-0.17105	0.158905	-1.07645	0.282563
HLA.DRB1.Q5Y7A7	0.0423622	0.044157	0.959362	0.338131	-0.12116	0.097646	-1.24084	0.216165	0.031391	0.03093	1.014934	0.311402
SMTN.A0A087WVP4	-0.073353	0.076477	-0.95915	0.338165	0.062563	0.204154	0.30645	0.759556	-0.06258	0.061902	-1.01091	0.313187
KIAA0415.A4D1Z4	-0.163458	0.170626	-0.95799	0.338529	0.097635	0.473932	0.206011	0.836918	-0.20226	0.140527	-1.4393	0.151074
HADH.Q16836	-0.169926	0.177404	-0.95785	0.338599	-0.55068	0.444481	-1.23892	0.216311	0.034955	0.132537	0.263735	0.792159
LAMB2.P55268	0.1134646	0.118491	0.95758	0.338734	-0.20164	0.292035	-0.69047	0.490418	0.190587	0.086266	2.209308	0.027884
PCNA.P12004	-0.135169	0.141163	-0.95753	0.338757	0.24644	0.366323	0.672739	0.501615	0.186611	0.108538	1.719315	0.086555
ASNA1.A0A087WXS7	0.3071639	0.320798	0.9575	0.338774	0.363028	0.822662	0.441285	0.659315	0.507965	0.243098	2.089543	0.037474
SERINC3.Q13530	0.1226426	0.128091	0.957467	0.33879	-0.10026	0.327665	-0.30599	0.759819	0.059643	0.09743	0.612161	0.54088
TAF10.Q12962	-0.150079	0.156842	-0.95688	0.339129	-0.19927	0.442303	-0.45054	0.652663	-0.04201	0.132047	-0.31816	0.750597
ANGEL2.Q5VTE6	0.2038962	0.213105	0.956789	0.339132	0.030716	0.564164	0.054446	0.956615	0.15695	0.167593	0.936495	0.349748

F8A3.P23610	-0.277421	0.28997	-0.95673	0.339165	0.694246	0.723277	0.959861	0.337873	0.009004	0.215481	0.041786	0.966696
CRLF1.O75462	0.1157535	0.120923	0.95725	0.339217	-0.09168	0.31141	-0.29442	0.76877	0.043173	0.085648	0.504078	0.614806
MAP4.P27816.5	-0.085515	0.089412	-0.95641	0.339325	-0.42395	0.243316	-1.74238	0.082433	-0.11071	0.072464	-1.52775	0.127595
COL26A1.Q96A83	0.1076213	0.112463	0.95695	0.339341	-0.0004	0.321217	-0.00125	0.999007	-0.1703	0.092684	-1.83745	0.067658
RIMS2.F8W6W8	0.0737879	0.077171	0.956167	0.339612	-0.16416	0.1858	-0.88354	0.377871	0.025094	0.054101	0.463836	0.643206
AMOT.Q4VCS5	-0.174478	0.182557	-0.95575	0.339658	-0.55173	0.494975	-1.11467	0.265856	-0.33916	0.146278	-2.31857	0.021068
DNAJB12.J3KPS0	-0.230115	0.240774	-0.95573	0.339667	-1.03767	0.615208	-1.68669	0.092668	0.431958	0.182207	2.370698	0.018366
TBR1.Q16650	-0.190743	0.19961	-0.95558	0.339744	0.192333	0.489372	0.393019	0.694575	-0.01039	0.145615	-0.07134	0.943173
CETN2.P41208	-0.174069	0.182193	-0.95541	0.339828	-0.1889	0.454182	-0.4159	0.677768	-0.07013	0.13509	-0.51914	0.604036
RPL10A.P62906	-0.202258	0.211717	-0.95532	0.339875	0.19937	0.566018	0.352232	0.724904	0.112477	0.168293	0.668344	0.504411
GIMAP7.Q8NHV1	-0.131141	0.137193	-0.95589	0.339942	0.342685	0.346664	0.988522	0.324216	0.051732	0.101984	0.507253	0.612595
ALDH5A1.P51649	-0.155056	0.162375	-0.95493	0.340073	0.132861	0.426693	0.311373	0.755726	-0.1053	0.126812	-0.83033	0.406991
CACYBP.Q9HB71	-0.14007	0.146698	-0.95482	0.340127	-0.74353	0.36545	-2.03456	0.042746	0.220846	0.108717	2.031381	0.043069
RNF213.A0A0A0MTR7	0.1753814	0.183681	0.954814	0.340157	-0.14796	0.472735	-0.31299	0.754515	0.222495	0.13975	1.592093	0.112446
ASRGL1.Q7L266	0.1250512	0.131031	0.954362	0.340358	-0.03348	0.328664	-0.10185	0.91894	0.092714	0.097632	0.949633	0.343038
ADNP.Q9H2P0	0.1759417	0.184381	0.954228	0.340441	0.274284	0.454787	0.603103	0.546894	-0.2478	0.134045	-1.84865	0.065489
XRCC4.Q13426	-0.099622	0.104444	-0.95384	0.34069	0.150917	0.256751	0.587795	0.557152	0.026091	0.077504	0.336642	0.736644
KLK6.Q92876	0.0680672	0.071373	0.953677	0.340704	-0.00196	0.189392	-0.01035	0.991747	0.061668	0.056232	1.096669	0.273637
CPSF6.Q16630	0.1490716	0.156326	0.953595	0.340746	0.464418	0.372832	1.245652	0.213833	-0.04723	0.111156	-0.42491	0.671196
RAB27A.P51159	0.1254195	0.131512	0.95367	0.340756	-0.15639	0.327565	-0.47742	0.633431	0.153722	0.098544	1.559941	0.119895
CRH.P06850	-0.092653	0.097137	-0.95384	0.340844	-0.23685	0.264575	-0.8952	0.371702	0.071404	0.078663	0.907723	0.36506
AHCYL1.O43865	-0.166755	0.174965	-0.95307	0.34101	-0.55072	0.443117	-1.24284	0.214866	-0.3239	0.130861	-2.47517	0.013851
KCNK10.P57789	0.203676	0.213578	0.953639	0.34121	-0.2085	0.53747	-0.38794	0.69862	0.209378	0.166165	1.260059	0.209631
IFNGR1.P15260	0.1472934	0.154604	0.952711	0.341241	0.376426	0.369549	1.01861	0.309252	-0.06096	0.112213	-0.54323	0.587398
TMEM184B.Q9Y519	-0.092988	0.097607	-0.95268	0.341349	0.210596	0.252304	0.83469	0.404722	-0.07694	0.075274	-1.02216	0.307733
CCDC88A.Q3V6T2	0.2970595	0.311911	0.952385	0.341359	-0.77002	0.852138	-0.90363	0.366893	-0.10456	0.25376	-0.41204	0.680592
RHBDL3.A4FU16	0.1447747	0.152048	0.952166	0.341584	-0.65994	0.386514	-1.70742	0.089011	0.06746	0.117308	0.575071	0.565771
PHC2.A0A0A0MSI2	0.1554723	0.163363	0.951697	0.341755	0.10741	0.40509	0.265152	0.791089	-0.09366	0.119031	-0.78682	0.432059
TIMMDC1.Q9NPL8	0.1657477	0.174191	0.951529	0.341792	-0.19978	0.452927	-0.44108	0.659461	-0.20657	0.134268	-1.5385	0.124946
FKBP5.Q13451	0.0866796	0.091102	0.951454	0.34183	0.211372	0.247745	0.853183	0.394217	0.032932	0.073763	0.446454	0.655581
USP20.Q9Y2K6	0.1739979	0.182886	0.951403	0.341871	-0.00632	0.439356	-0.01438	0.988537	0.236024	0.130226	1.812424	0.070914
NDUFS6.O75380	-0.14982	0.157552	-0.95093	0.342097	-0.11927	0.407803	-0.29248	0.770117	-0.07656	0.121253	-0.63145	0.528214
PENK.P01210	0.0897967	0.094424	0.950995	0.342118	0.253652	0.229796	1.103811	0.27063	0.052641	0.069431	0.758188	0.448981
SPTY2D1.Q68D10	0.0849646	0.089355	0.950869	0.342209	-0.03955	0.231274	-0.17102	0.864341	-0.02827	0.066769	-0.42338	0.672364

TRPM2.O94759	0.1369622	0.144032	0.950914	0.342269	0.266601	0.388815	0.685677	0.493602	0.009934	0.11739	0.084622	0.932635
UBA1.P22314	0.2754312	0.289839	0.950292	0.342419	-0.33844	0.755244	-0.44812	0.654381	0.510788	0.222864	2.291922	0.02258
GGT5.P36269	-0.091014	0.095785	-0.95018	0.342474	0.085045	0.244655	0.347613	0.728367	-0.04935	0.072741	-0.67845	0.497994
SOWAHA.Q2M3V2	-0.12528	0.131813	-0.95044	0.342484	-0.22415	0.383191	-0.58495	0.559138	0.243313	0.112333	2.165992	0.031309
ALKBH4.Q9NXW9	0.131886	0.138825	0.950019	0.342558	0.109712	0.334435	0.328051	0.743095	-0.06387	0.09944	-0.64234	0.52113
SLC4A3.P48751	0.1488131	0.156675	0.94982	0.342659	-0.12503	0.445896	-0.28041	0.77935	0.349513	0.13117	2.664588	0.008112
AGO3.Q9H9G7	0.1579489	0.166304	0.949758	0.342713	-0.14161	0.45133	-0.31377	0.753919	-0.01159	0.132561	-0.08744	0.930385
CHKA.P35790	0.1152607	0.12142	0.949271	0.343021	0.249625	0.31896	0.78262	0.434549	-0.04591	0.097264	-0.47203	0.637292
MRPL40.Q9NQ50	-0.122242	0.128839	-0.94879	0.34318	0.338734	0.32835	1.031624	0.303052	-0.06192	0.097783	-0.63327	0.527023
HID1.Q8IV36	-0.224295	0.236425	-0.94869	0.343232	-0.40346	0.608487	-0.66305	0.50779	-0.05231	0.181118	-0.28881	0.772918
DDX6.P26196	0.2553067	0.269114	0.948693	0.343232	0.374257	0.657539	0.569178	0.569648	-0.19194	0.195405	-0.98227	0.326734
SIPA1.Q96FS4	0.129465	0.136461	0.948733	0.343389	0.433153	0.369336	1.172791	0.242131	0.246121	0.109485	2.247988	0.025555
COPG2.Q9UBF2	0.2263368	0.23867	0.948324	0.343419	-0.38881	0.609338	-0.63808	0.52389	0.124663	0.181248	0.687804	0.49209
P4HTM.Q9NXG6	-0.124935	0.131708	-0.94858	0.343466	0.538999	0.351185	1.534801	0.126283	-0.13019	0.108921	-1.19527	0.233278
MKL2.Q9ULH7	-0.1703	0.179602	-0.94821	0.343477	0.179562	0.440549	0.407586	0.683859	-0.18732	0.130658	-1.43364	0.152682
IGFBP7.Q16270	-0.088426	0.093256	-0.9482	0.343495	-0.21455	0.234208	-0.91608	0.360356	-0.03729	0.069444	-0.53701	0.591654
PUF60.Q9UHX1.2	0.2525117	0.266315	0.948171	0.343497	0.092511	0.625058	0.148004	0.882436	-0.16173	0.185723	-0.87083	0.384521
PEX3.P56589	-0.180198	0.190054	-0.94814	0.343528	-0.58041	0.459744	-1.26246	0.207757	-0.1017	0.137244	-0.74103	0.459253
PTPN18.Q99952	-0.062737	0.06615	-0.9484	0.343562	0.058198	0.156637	0.371548	0.710576	-0.04138	0.05123	-0.80773	0.42009
SNTA1.Q13424	0.1739352	0.183505	0.947849	0.34366	-0.99295	0.493046	-2.01391	0.044883	-0.39695	0.145897	-2.72075	0.006881
KCNJ3.P48549	-0.127205	0.134256	-0.94748	0.343849	0.499093	0.381397	1.308593	0.191642	-0.48826	0.11034	-4.42503	1.34E-05
HN1.Q9UK76	-0.15964	0.16849	-0.94748	0.343851	-0.45479	0.460796	-0.98697	0.324427	-0.47837	0.134579	-3.55458	0.000438
NUP62.P37198	0.238378	0.251603	0.947438	0.34387	0.40261	0.618282	0.651175	0.515416	0.178721	0.183774	0.972504	0.331558
CHMP4A.Q9BY43	0.102525	0.108219	0.947384	0.34392	-0.0339	0.278631	-0.12168	0.903236	-0.21563	0.077782	-2.77228	0.005922
MATR3.A8MXP9	0.1997004	0.210815	0.947276	0.343952	0.247426	0.518948	0.476783	0.633853	-0.25003	0.15378	-1.62587	0.104993
RNF20.Q5VTR2	0.2109606	0.222812	0.94681	0.344189	0.143445	0.530998	0.270143	0.78723	0.180319	0.157649	1.143799	0.253589
OSBP2.Q969R2	0.2577278	0.272281	0.946551	0.344321	-0.06578	0.681153	-0.09657	0.923129	0.502297	0.200616	2.503775	0.012801
MRPL49.Q13405	-0.135954	0.143658	-0.94637	0.344413	0.340347	0.352216	0.966301	0.334647	-0.02296	0.104928	-0.21882	0.826938
HLCS.P50747	0.2251663	0.238128	0.945568	0.344837	0.321124	0.610666	0.525859	0.599372	-0.13047	0.181913	-0.71722	0.473794
PSMD4.P55036	-0.289015	0.305762	-0.94523	0.344996	0.77065	0.739814	1.041681	0.298372	-0.13461	0.220334	-0.61092	0.541698
WBP2.Q969T9	-0.142665	0.150946	-0.94514	0.34504	0.273	0.382531	0.713667	0.47597	-0.35543	0.112086	-3.17105	0.001671
PRTFDC1.Q9NRG1	0.1098458	0.116271	0.944736	0.345247	-0.12566	0.316172	-0.39744	0.691315	0.002931	0.09408	0.03115	0.97517
GOLGA2.A0A0C4DGS5	-0.19842	0.210042	-0.94467	0.345281	0.113914	0.554885	0.205293	0.837478	0.031874	0.16507	0.193096	0.84701
DAZAP1.Q96EP5	0.1946383	0.206116	0.944315	0.345461	-0.29908	0.524382	-0.57034	0.568858	0.040454	0.156059	0.259224	0.795634

TMEM178A.Q8NBL3	-0.146264	0.154901	-0.94424	0.345539	-0.31619	0.42033	-0.75224	0.452525	-0.05545	0.129714	-0.42745	0.669374
KCNIP1.Q9NZI2	-0.110724	0.117242	-0.9444	0.345593	0.024709	0.315548	0.078304	0.937657	0.072252	0.094382	0.765525	0.444776
RAB1A.P62820	-0.221097	0.234261	-0.94381	0.345721	-0.36793	0.625789	-0.58794	0.557	0.21856	0.185851	1.175997	0.240498
LYST.Q99698	0.2324431	0.24633	0.943625	0.345813	0.470713	0.62073	0.758321	0.448835	0.274246	0.18417	1.489095	0.137479
SLC35F3.Q8IY50	0.1286043	0.136196	0.944257	0.345847	-0.41253	0.328423	-1.2561	0.210854	0.296579	0.098999	2.995777	0.00316
CUL5.Q93034	0.3243069	0.343719	0.943522	0.345866	0.489989	0.874705	0.560176	0.575764	0.168416	0.260165	0.647341	0.51789
GRAMD1B.E7EPH8	-0.197247	0.209065	-0.94347	0.345893	0.538007	0.499102	1.07795	0.281894	0.055218	0.148719	0.371294	0.710672
MAOA.P21397	-0.19836	0.210298	-0.94324	0.346012	-0.16731	0.532465	-0.31421	0.753569	0.112947	0.158294	0.713529	0.476056
NME2P1.O60361	-0.173228	0.183548	-0.94378	0.346065	0.591815	0.487089	1.215005	0.225947	0.153559	0.146974	1.044803	0.297507
KLHDC3.Q9BQ90	0.162861	0.172673	0.943174	0.346196	-0.33493	0.447561	-0.74835	0.455011	0.020653	0.129105	0.159971	0.873044
CCDC86.Q9H6F5	0.0710656	0.075352	0.943118	0.346197	-0.09478	0.221751	-0.42741	0.669452	0.039363	0.068597	0.573832	0.566601
ZNF207.X6R4W8	0.1833125	0.194427	0.942836	0.346216	0.347772	0.48041	0.723906	0.46967	0.211805	0.142528	1.486066	0.138278
COQ10B.B8ZZV9	-0.132576	0.140745	-0.94196	0.346663	-0.32271	0.348886	-0.92497	0.355699	-0.13035	0.103667	-1.25741	0.209552
GPR162.Q16538	-0.164495	0.17462	-0.94202	0.346715	0.33908	0.435537	0.778534	0.436949	-0.05643	0.129711	-0.43505	0.663882
IRS2.Q9Y4H2	0.2151189	0.228491	0.941479	0.346911	0.412613	0.573665	0.719258	0.472524	-0.43757	0.16898	-2.58949	0.010065
ZAK.Q9NYL2.2	0.1217866	0.129356	0.94148	0.34694	0.047034	0.346582	0.135709	0.892146	0.003808	0.105722	0.036016	0.971295
DDX41.J3KNN5	0.0877819	0.093283	0.941026	0.34728	-0.03026	0.213252	-0.14192	0.887263	-0.04442	0.064142	-0.69255	0.48925
SGCB.Q16585	0.1451671	0.154277	0.94095	0.347307	-0.2214	0.387111	-0.57193	0.567885	-0.0805	0.118317	-0.68035	0.496917
MRGPRF.Q96AM1	0.0708233	0.075236	0.941349	0.347428	0.044185	0.188745	0.234098	0.815226	0.049409	0.052795	0.935863	0.350838
PPP1R3E.Q9H7J1	0.1686779	0.179509	0.939663	0.347855	-0.17523	0.449498	-0.38983	0.696934	0.242477	0.13326	1.819577	0.069813
BAG3.Q95817	0.0847124	0.090204	0.939118	0.34812	-0.1239	0.233997	-0.5295	0.596837	-0.17789	0.068905	-2.58165	0.010292
TUBGCP4.Q9UGJ1	0.1902825	0.202621	0.939106	0.348126	0.115766	0.545667	0.212154	0.832126	0.261174	0.161659	1.615588	0.107201
PMM1.Q92871	-0.125878	0.134072	-0.93888	0.348241	0.262228	0.3394	0.772622	0.440335	-0.12591	0.100809	-1.24897	0.212618
CLIC5.Q9NZA1	-0.112226	0.119516	-0.939	0.348305	0.147224	0.305585	0.481778	0.630396	0.084027	0.09145	0.918837	0.359088
DUSP26.Q9BV47	0.1184395	0.126118	0.939116	0.348325	0.061153	0.346776	0.176347	0.860185	0.053751	0.09894	0.543271	0.587496
TMX4.Q9H1E5	-0.141671	0.150947	-0.93855	0.348411	0.059075	0.393883	0.14998	0.880878	-0.23362	0.116424	-2.00662	0.045658
ZMYND11.Q15326	0.1461949	0.155827	0.938185	0.348691	-0.24253	0.406829	-0.59616	0.551598	0.224643	0.117034	1.91947	0.056036
CTDP1.Q9Y5B0	0.1676595	0.178739	0.938012	0.348724	-0.35316	0.436789	-0.80854	0.419451	0.098399	0.130438	0.754372	0.451244
RPS6KA4.O75676	0.1161669	0.123867	0.937833	0.348792	-0.54092	0.307736	-1.75775	0.07981	0.035443	0.091334	0.388059	0.698248
PNMAL2.Q9ULN7.5	-0.127978	0.136475	-0.93774	0.348827	-0.05252	0.345746	-0.15189	0.879373	-0.04937	0.102819	-0.48012	0.631478
CHUK.O15111	0.174561	0.186177	0.937608	0.348895	0.411182	0.472401	0.870409	0.38475	0.13192	0.140503	0.938915	0.348505
COLGALT1.Q8NBJ5	-0.143304	0.152849	-0.93755	0.348944	-0.31768	0.402065	-0.79013	0.430081	0.03304	0.12065	0.273852	0.784389
DICER1.Q9UPY3	-0.093378	0.099616	-0.93738	0.349095	-0.33786	0.271662	-1.24368	0.214733	0.024222	0.081039	0.298891	0.765261
SMURF2.Q9HAU4	0.148573	0.158423	0.937823	0.349113	0.108562	0.444238	0.244379	0.80721	0.205085	0.142383	1.440374	0.151461

ATP13A2.Q9NQ11	0.1676195	0.178862	0.937142	0.349149	-0.51264	0.482547	-1.06237	0.288915	0.222941	0.1435	1.553598	0.121328
PLGRKT.Q9HBL7	-0.092116	0.098315	-0.93696	0.34923	-0.06101	0.245225	-0.2488	0.803682	-0.06442	0.072866	-0.88405	0.377356
MTHFD1.F5H2F4	0.1975339	0.210828	0.936943	0.349236	-0.405	0.5216	-0.77645	0.438074	-0.03503	0.155305	-0.22554	0.821707
CNOT2.F8VV52	-0.14727	0.157186	-0.93691	0.349251	0.474861	0.420904	1.128192	0.260111	-0.14432	0.1252	-1.15269	0.249926
PDE1B.Q01064	-0.190355	0.203256	-0.93653	0.349451	0.477574	0.49184	0.970994	0.332308	0.101186	0.146423	0.69105	0.490051
CCDC90B.Q9GZT6	-0.156768	0.167406	-0.93645	0.349488	-0.20584	0.417602	-0.4929	0.622433	-0.25047	0.123461	-2.02873	0.043341
ADPRHL2.Q9NX46	0.1907023	0.203666	0.936347	0.349543	0.901901	0.502152	1.796072	0.073457	0.163468	0.149869	1.09074	0.276234
AKAP1.Q92667	-0.237872	0.25407	-0.93625	0.349595	0.759576	0.652021	1.164956	0.244932	-1.26417	0.180643	-6.99819	1.61E-11
WVOX.Q9NZC7	0.1188403	0.126966	0.936	0.349721	0.125	0.322255	0.387891	0.698363	-0.10571	0.0957	-1.1046	0.270188
TBC1D14.Q9P2M4	0.1803098	0.192514	0.936605	0.349733	-0.22207	0.513624	-0.43237	0.665983	-0.25736	0.156149	-1.64818	0.101031
FKBP3.Q00688	0.1712105	0.182989	0.93563	0.349912	0.900304	0.516489	1.743122	0.082304	-0.07019	0.154346	-0.45473	0.649618
LRFN4.Q6PJG9	-0.169338	0.181038	-0.93537	0.350157	0.113204	0.498881	0.226916	0.820676	-0.07707	0.147941	-0.52097	0.602851
FBXO42.Q6P3S6	0.1640277	0.1755	0.934633	0.350463	0.295663	0.416463	0.709938	0.478315	0.103107	0.124623	0.827353	0.40872
TCEA2.Q15560	-0.115411	0.123485	-0.93462	0.350497	-0.2922	0.33017	-0.88499	0.37695	-0.16173	0.094594	-1.70976	0.088459
NTRK2.Q16620.2	-0.035855	0.03836	-0.9347	0.350624	-0.08083	0.108359	-0.74599	0.456547	-0.2321	0.026916	-8.62316	1.95E-15
TUBB4B.P68371	-0.152991	0.163788	-0.93407	0.350713	0.610012	0.430331	1.417543	0.157329	0.092163	0.128323	0.718207	0.473171
IRGQ.Q8WZA9	-0.185355	0.198568	-0.93346	0.351029	-0.1078	0.526454	-0.20477	0.837884	-0.11398	0.156487	-0.72835	0.466951
ELP3.Q9H9T3	0.1907821	0.20439	0.933422	0.351049	-0.29176	0.545933	-0.53443	0.593428	0.172294	0.162185	1.062328	0.288914
ADCYAP1R1.P41586.4	-0.101783	0.109062	-0.93326	0.351134	-0.26118	0.286309	-0.91224	0.362353	-0.09282	0.085123	-1.09046	0.276357
HLA.A.P13746	0.0566057	0.060664	0.933107	0.351211	-0.21037	0.164496	-1.27889	0.201892	0.053801	0.048968	1.098691	0.272755
POLR3E.A0A0C4DH01	0.1240455	0.13291	0.933308	0.35127	-0.13686	0.312948	-0.43733	0.662284	0.039478	0.094876	0.416103	0.677724
NETO1.Q8TDF5	-0.159353	0.170808	-0.93294	0.3513	0.064007	0.409005	0.156495	0.875744	-0.01915	0.121672	-0.15737	0.875059
SNRPF.P62306	-0.124999	0.134044	-0.93252	0.351558	0.165445	0.336026	0.492357	0.622849	-0.03059	0.099285	-0.30805	0.758267
GSTM2.P28161	0.0682373	0.07319	0.932326	0.351614	-0.35376	0.181819	-1.94566	0.052599	-0.0103	0.054414	-0.18936	0.849931
POTEJ.P0CG39	-0.082642	0.08861	-0.93265	0.35162	0.061771	0.246527	0.250567	0.802381	-0.00254	0.073445	-0.03454	0.972475
RFC3.P40938	0.1631295	0.174957	0.932399	0.351724	0.444693	0.491209	0.905304	0.366244	0.243689	0.144034	1.691893	0.092009
TRAPPC1.Q9Y5R8	-0.169368	0.181709	-0.93208	0.351753	-0.79197	0.470929	-1.68173	0.093662	-0.09141	0.139644	-0.65458	0.513239
IGHV3.30.A0A0B4J2B7	-0.031733	0.034056	-0.93179	0.351893	0.071466	0.087232	0.819266	0.413264	0.031712	0.025916	1.22367	0.222006
YPEL4.Q96NS1	0.1318624	0.141526	0.93172	0.352296	-0.18736	0.397491	-0.47135	0.637982	-0.04419	0.108203	-0.40842	0.683473
SOWAHB.A6NEL2	-0.147588	0.158614	-0.93048	0.35258	0.311636	0.429842	0.725002	0.469021	0.135501	0.124972	1.084243	0.279137
IGF2R.P11717	0.3218475	0.345927	0.93039	0.352614	-0.99255	0.872689	-1.13734	0.256273	0.558587	0.258209	2.163315	0.031281
GPATCH1.Q9BRR8	-0.105381	0.1132	-0.93093	0.352666	0.136824	0.295503	0.463019	0.643862	-0.08472	0.094492	-0.8966	0.371027
MRPL33.O75394	-0.119253	0.128176	-0.93039	0.352789	0.043273	0.347275	0.124608	0.900948	-0.09199	0.100362	-0.9166	0.360356
MTPAP.Q9NVV4	0.1687806	0.181475	0.930046	0.352792	0.649799	0.456517	1.423382	0.155631	-0.09406	0.136144	-0.69089	0.490153

CLU.P10909	0.0911702	0.098055	0.929791	0.352925	-0.07066	0.252066	-0.28034	0.779407	0.037506	0.074964	0.500314	0.617209
AIFM3.Q96NN9	-0.167303	0.17997	-0.92962	0.353013	-0.37339	0.440171	-0.84827	0.39694	0.183567	0.13068	1.40471	0.161109
CTDSPL2.Q05D32	0.12036	0.129407	0.930087	0.353116	-0.26217	0.319873	-0.81962	0.413481	-0.02875	0.09769	-0.29429	0.768867
PEX7.O00628	-0.148873	0.160148	-0.9296	0.353208	-0.18243	0.450937	-0.40456	0.686196	-0.08374	0.130629	-0.64106	0.522151
TRAPPC5.Q8IURO	0.1837698	0.197793	0.929103	0.35328	-0.36368	0.510847	-0.71191	0.477056	0.039084	0.152076	0.257003	0.797347
PVR.P15151	-0.149445	0.160892	-0.92886	0.353409	0.314679	0.421328	0.746875	0.455705	-0.14047	0.125196	-1.12203	0.26272
FYN.P06241	0.319693	0.344414	0.928222	0.353737	-1.04664	0.884316	-1.18356	0.237494	0.414082	0.262611	1.576788	0.115864
PGM2L1.Q6PCE3	-0.134614	0.145169	-0.92729	0.354221	0.125968	0.374288	0.336555	0.73668	-0.03838	0.111343	-0.34468	0.730568
SPTBN1.Q01082	-0.349168	0.376715	-0.92688	0.354435	0.666351	0.994557	0.669998	0.503358	-0.38925	0.295251	-1.31837	0.188352
TAF4.O00268	0.1195707	0.128957	0.927215	0.354461	-0.1756	0.332289	-0.52847	0.597722	-0.06125	0.097422	-0.62875	0.530184
EEF1A2.Q05639	0.2362176	0.254902	0.9267	0.354526	-0.04011	0.652933	-0.06144	0.951051	0.479697	0.192317	2.494305	0.013141
PHLPP2.Q6ZVD8	-0.137405	0.148264	-0.92676	0.354527	-0.04386	0.395039	-0.11103	0.911674	0.028578	0.114398	0.249814	0.802909
NADK.O95544	-0.121951	0.13169	-0.92605	0.354908	-0.03849	0.322324	-0.11941	0.905038	-0.1454	0.096479	-1.50711	0.132898
SNAPIN.O95295	-0.209935	0.226735	-0.92591	0.354938	-0.27247	0.586467	-0.46459	0.64255	-0.01667	0.174522	-0.09552	0.92396
CDC42EP1.Q00587	0.0646919	0.069919	0.925241	0.355283	0.041431	0.187876	0.22052	0.825611	-0.07707	0.055723	-1.38302	0.167655
PRKCB.P05771	-0.188378	0.203621	-0.92514	0.355336	0.066383	0.482057	0.137708	0.89056	0.220163	0.142862	1.541094	0.124314
MAPK8IP1.E9PBB9	-0.192686	0.208298	-0.92505	0.355396	-0.48908	0.521406	-0.93801	0.348991	-0.05529	0.155578	-0.35536	0.722568
PGAM1.P18669	0.1776621	0.192142	0.924638	0.355597	0.524601	0.494408	1.061068	0.289485	0.108459	0.147216	0.736734	0.461841
NDUFA8.P51970	-0.136105	0.147239	-0.92438	0.35573	0.462274	0.383596	1.205104	0.229082	-0.00466	0.11438	-0.04073	0.967537
FOXRED2.Q8IWF2	-0.152338	0.164859	-0.92405	0.356149	0.286769	0.439606	0.652331	0.514926	-0.03582	0.127021	-0.28199	0.778235
GTPBP1.O00178	0.2589326	0.280379	0.923511	0.356183	0.838244	0.679987	1.232735	0.218609	-0.28641	0.202126	-1.41697	0.157495
PNPLA6.Q8IY17	0.2259051	0.244648	0.923389	0.356246	0.819213	0.635062	1.289972	0.198022	0.328819	0.188503	1.744366	0.082086
MPV17.B5MCF8	0.0992727	0.10757	0.922865	0.356563	-0.63581	0.305369	-2.0821	0.038245	-0.04125	0.088988	-0.46356	0.643325
ENC1.O14682	-0.098242	0.106472	-0.9227	0.356639	0.1273	0.295798	0.430361	0.667256	-0.06763	0.088259	-0.76632	0.444117
PLCL1.Q15111	0.1657277	0.179712	0.922183	0.356875	0.416142	0.470366	0.884721	0.376993	0.142895	0.139867	1.021647	0.307745
MLST8.Q9BVC4	0.2084279	0.226051	0.92204	0.356949	-0.31672	0.599991	-0.52787	0.597968	0.06846	0.178525	0.383479	0.701628
COA1.Q9GZY4	-0.166006	0.180085	-0.92182	0.357065	0.24939	0.471177	0.529292	0.596982	-0.11949	0.140066	-0.85312	0.394252
GNL3.Q9BVP2	0.1347048	0.146106	0.921967	0.357077	0.284238	0.389298	0.73013	0.465965	0.032336	0.116822	0.276802	0.782151
MAP3K7.O43318.2	0.2914218	0.316219	0.921581	0.357188	0.438545	0.812873	0.5395	0.589929	0.193326	0.24168	0.799925	0.424367
PSMG4.Q5J54	-0.102593	0.111314	-0.92166	0.357325	-0.01935	0.298108	-0.06491	0.948305	0.041686	0.087462	0.47662	0.634106
RRM2B.Q7LG56	0.1615819	0.175444	0.920987	0.357498	0.340599	0.443525	0.767935	0.44311	0.247821	0.131314	1.887239	0.060062
VWC2L.B2RUY7	-0.14377	0.156164	-0.92063	0.357689	0.970966	0.423396	2.293279	0.022512	-0.0084	0.128164	-0.06557	0.947766
CBWD2.Q8IUF1	-0.129794	0.141064	-0.9201	0.357989	0.374783	0.332113	1.128481	0.26004	0.02923	0.097524	0.299718	0.764605
CSNK1G3.Q9Y6M4.2	-0.301571	0.327966	-0.91952	0.358264	0.644418	0.853928	0.754651	0.451031	0.044318	0.254249	0.174311	0.861735

CDIP1.Q9H305	0.1054047	0.114675	0.919163	0.35845	-0.14151	0.299641	-0.47227	0.63707	-0.09977	0.08899	-1.12114	0.263094
TAF9.Q9Y3D8	-0.148688	0.16173	-0.91936	0.358711	0.182372	0.464706	0.392445	0.695221	-0.0213	0.143737	-0.14818	0.882374
GTF3C4.Q9UKN8	0.1415391	0.154078	0.918619	0.358734	-0.06528	0.348277	-0.18744	0.851437	0.093785	0.103475	0.906351	0.365454
SNX7.Q9UNH6	0.1686291	0.183617	0.918375	0.358862	0.085322	0.467242	0.182607	0.855226	-0.23401	0.138367	-1.69122	0.091799
RSU1.Q15404	-0.186477	0.203146	-0.91794	0.359087	0.049928	0.531542	0.09393	0.925225	0.060203	0.15809	0.380819	0.703598
NDUFAF5.Q5TEU4	-0.172055	0.187552	-0.91737	0.359386	-0.0615	0.459689	-0.13378	0.89366	0.036137	0.136738	0.264282	0.791739
TANGO2.Q6ICL3	0.158185	0.172557	0.91671	0.359733	-0.66191	0.426263	-1.55283	0.121484	0.189729	0.126841	1.495801	0.135723
CWC15.Q9P013	0.1050382	0.11468	0.915927	0.360143	-0.02728	0.293046	-0.09309	0.92589	-0.35818	0.08477	-4.22525	3.14E-05
METAP2.P50579	0.2399119	0.261941	0.915901	0.360157	-0.26177	0.708266	-0.36959	0.711943	0.417799	0.209403	1.99519	0.046897
PAPSS1.O43252	0.1355083	0.147949	0.915913	0.360158	-0.44607	0.41834	-1.06629	0.287136	0.007195	0.12579	0.0572	0.954423
AMN1.Q8IY45	-0.182059	0.198815	-0.91572	0.360251	0.223468	0.553204	0.403953	0.686526	0.006247	0.164611	0.037952	0.96975
RPS13.P62277	0.172113	0.187964	0.915672	0.360277	-1.17262	0.496715	-2.36076	0.018856	-0.2259	0.148533	-1.52088	0.129308
NEK9.Q8TD19	0.2108496	0.230382	0.915218	0.360515	-0.50142	0.576062	-0.87042	0.384742	-0.22858	0.171086	-1.33604	0.182515
ITIH1.P19827	0.0541013	0.059144	0.914736	0.360768	-0.19456	0.138187	-1.40797	0.160143	0.114709	0.040722	2.816919	0.00516
PIEZO1.Q92508	-0.119603	0.130808	-0.91434	0.360976	0.027304	0.336656	0.081102	0.935413	-0.05098	0.100108	-0.50927	0.610922
PNPLA8.Q9NP80	-0.245316	0.268361	-0.91413	0.361087	-0.86503	0.703889	-1.22893	0.220032	-0.09636	0.209833	-0.45923	0.646394
KDM5C.P41229	-0.082403	0.090125	-0.91432	0.361089	-0.27409	0.216419	-1.2665	0.206482	0.028598	0.064373	0.444252	0.657234
ADAM22.Q9P0K1	0.204866	0.224377	0.913044	0.361656	0.184296	0.560242	0.328957	0.74241	0.218377	0.166229	1.313707	0.189916
ACADS.P16219	-0.077991	0.085433	-0.91288	0.36174	0.1805	0.225053	0.80203	0.42315	0.014159	0.067014	0.21128	0.832808
UBBP4.J3QRK5	0.0365241	0.039985	0.913444	0.361911	-0.0601	0.113752	-0.52838	0.598042	-0.00638	0.0337	-0.18919	0.850209
DTNA.Q9Y4J8.11	-0.074524	0.081666	-0.91255	0.361916	0.101748	0.217164	0.468531	0.639734	-0.22699	0.063326	-3.58452	0.000392
CDIPT.O14735	-0.121389	0.133028	-0.91251	0.361938	0.251986	0.356586	0.706661	0.480308	-0.04886	0.106127	-0.46035	0.645589
LGMN.Q99538	-0.087467	0.095853	-0.91251	0.362015	0.374157	0.228477	1.637609	0.102704	-0.04877	0.066249	-0.73622	0.462255
CCBL1.Q16773	-0.146998	0.161136	-0.91226	0.362069	0.471439	0.418405	1.126752	0.260719	0.217416	0.12411	1.751804	0.080796
ALKBH7.Q9BT30	-0.09181	0.100609	-0.91254	0.36208	0.099841	0.239942	0.416107	0.67772	-0.07136	0.077174	-0.92464	0.356121
FMN2.Q9NZ56	-0.237643	0.260555	-0.91206	0.362171	0.511411	0.673817	0.758977	0.448443	-0.59431	0.197775	-3.00497	0.002873
CCRN4L.Q9UK39	-0.129988	0.14255	-0.91188	0.362269	0.120415	0.343284	0.350773	0.725997	0.026892	0.10213	0.263312	0.792485
HOPX.Q9BPY8.3	-0.099437	0.109125	-0.91122	0.362616	-0.50135	0.289535	-1.73158	0.084343	-0.45368	0.082622	-5.49098	8.33E-08
FLNB.O75369.8	0.1552231	0.170373	0.911081	0.362688	-0.59826	0.415341	-1.44041	0.150762	0.333707	0.122512	2.723875	0.006818
ANKRD17.O75179	0.2054043	0.225595	0.910501	0.362994	-0.57785	0.563208	-1.02599	0.305694	0.129661	0.167667	0.773324	0.43992
CNNM3.Q8NE01	0.1780896	0.1956	0.91048	0.363005	0.499523	0.454906	1.09808	0.273022	-0.00602	0.135589	-0.0444	0.964613
X0.G3V599	0.2477921	0.27222	0.910264	0.363119	-0.7895	0.639113	-1.23531	0.21765	-0.16716	0.190356	-0.87815	0.380542
TUFM.P49411	-0.201534	0.221507	-0.90983	0.363345	0.993269	0.557865	1.780484	0.075976	0.001953	0.166801	0.011708	0.990666
SPAG9.O60271	-0.141424	0.155401	-0.91005	0.363424	0.0897	0.417264	0.214972	0.829992	-0.08511	0.120864	-0.70415	0.4821

SLC25A12.O75746	-0.197016	0.216645	-0.90939	0.363577	0.572027	0.575391	0.994153	0.320924	0.212086	0.171018	1.24014	0.215862
CHDH.Q8NE62	0.0843614	0.092783	0.909234	0.363661	0.247319	0.233274	1.060206	0.289876	0.001124	0.069521	0.016161	0.987116
NIPAL3.Q6P499	-0.133391	0.146775	-0.90882	0.36391	0.188606	0.373064	0.505558	0.613547	-0.19962	0.11053	-1.80605	0.071936
AKT2.P31751	0.1596461	0.175695	0.908656	0.364046	-0.40613	0.476702	-0.85195	0.395028	0.157656	0.1399	1.126917	0.260821
MYO1E.Q12965	0.0886143	0.097573	0.908186	0.364214	0.011272	0.254106	0.04436	0.964646	0.08572	0.075435	1.136341	0.256691
COL18A1.P39060	0.0685216	0.07545	0.908171	0.364222	-0.05241	0.187372	-0.2797	0.779892	-0.0557	0.055657	-1.00082	0.317696
UBE2B.P63146	0.1659928	0.182748	0.908316	0.364341	-0.24963	0.471817	-0.52908	0.597321	0.148675	0.133158	1.116537	0.265493
EIF2S1.P05198	0.2887834	0.318153	0.907688	0.364477	-0.38164	0.84791	-0.4501	0.652956	0.74289	0.248768	2.986277	0.003049
NEMF.O60524	-0.238925	0.263236	-0.90765	0.364498	-0.51496	0.642267	-0.80179	0.423287	-0.58502	0.188353	-3.10599	0.002072
VPS53.Q5VIR6.4	-0.258812	0.285215	-0.90743	0.364614	-0.52351	0.754337	-0.694	0.4882	0.349029	0.2237	1.560255	0.11972
PRKAR1A.K7EPR5	0.1482952	0.163494	0.907039	0.364865	0.405025	0.451321	0.897422	0.370251	0.348199	0.133787	2.602641	0.009735
ANKRD28.O15084	0.2763316	0.304713	0.90686	0.364914	0.124229	0.765014	0.162388	0.871106	0.031431	0.227581	0.138108	0.890245
PRKG2.Q13237	-0.155478	0.171467	-0.90675	0.364972	0.573976	0.432447	1.327274	0.185395	-0.12083	0.128828	-0.93791	0.349021
SLC6A13.Q9NSD5	-0.069107	0.076268	-0.90611	0.365496	-0.15092	0.190399	-0.79266	0.428833	-0.03464	0.060608	-0.57146	0.568272
CALD1.Q05682.4	0.1193993	0.131863	0.905483	0.365684	-0.14672	0.349313	-0.42001	0.674795	0.109046	0.103678	1.051775	0.293797
UBR1.Q8IWW7	0.309116	0.341468	0.905256	0.365762	-0.97438	0.844216	-1.15419	0.249312	0.562744	0.249641	2.254219	0.02488
HNRNPU.Q00839.2	0.0477597	0.052766	0.905126	0.365853	0.015724	0.160964	0.097688	0.922246	0.038238	0.048047	0.795847	0.426757
PLSCR4.Q9NRQ2	0.1009797	0.111573	0.905055	0.365869	-0.00162	0.276741	-0.00586	0.995329	0.100129	0.082129	1.219165	0.223708
HSCB.Q8IWL3	-0.171149	0.189114	-0.90501	0.365895	0.098814	0.500282	0.197516	0.843553	0.087973	0.148751	0.59141	0.554677
RASA2.A0A0A0MSJ9	-0.187036	0.206779	-0.90452	0.366153	0.099634	0.550645	0.18094	0.856533	-0.10747	0.163702	-0.6565	0.511989
RPL14.P50914	-0.083565	0.092453	-0.90386	0.366503	0.094381	0.234835	0.401905	0.688031	-0.03187	0.069854	-0.45623	0.648543
ABCC5.O15440	0.1114281	0.123311	0.903638	0.366626	-0.01856	0.336318	-0.05519	0.956023	0.376147	0.097955	3.839992	0.000149
CALD1.E7EX44	0.1487507	0.164578	0.903831	0.366873	0.33876	0.454136	0.745943	0.45672	-0.35928	0.131336	-2.73558	0.00688
PGAP1.Q75T13	0.1353037	0.149883	0.902726	0.367102	-0.68546	0.389115	-1.76159	0.079124	-0.15619	0.115994	-1.34653	0.179117
USP13.Q92995	0.1435299	0.159076	0.902273	0.367404	-0.08364	0.406395	-0.20582	0.837089	-0.05135	0.120068	-0.42766	0.669239
MANF.P55145	-0.143443	0.159005	-0.90213	0.36742	0.026137	0.42165	0.061987	0.950613	0.121482	0.125244	0.969964	0.332821
FAM124A.Q86V42	0.1210755	0.134221	0.902061	0.367564	-0.30445	0.375345	-0.81111	0.41807	0.055913	0.107961	0.517897	0.604984
SIRPB1.O00241	0.0244854	0.027142	0.902117	0.367759	0.080613	0.073574	1.095675	0.274762	-0.02503	0.021363	-1.17147	0.243039
CAMK1.Q14012	-0.148313	0.164529	-0.90144	0.367785	0.416719	0.413825	1.006994	0.314723	0.097433	0.123182	0.790961	0.429571
MAP1B.P46821	-0.178821	0.198429	-0.90118	0.367922	-0.0754	0.534209	-0.14115	0.887845	-0.23971	0.158339	-1.51393	0.131062
EIF5A.P63241	-0.226084	0.250902	-0.90109	0.367972	-0.17579	0.622266	-0.2825	0.777746	0.01055	0.185136	0.056983	0.954595
TMA16.H0Y9X1	0.1024169	0.113593	0.901614	0.368026	-0.3756	0.290821	-1.29152	0.198188	0.014974	0.092446	0.161975	0.871508
NUDT3.O95989	0.2260594	0.250936	0.900864	0.368091	-0.40728	0.598451	-0.68056	0.496657	0.240697	0.177636	1.355	0.176404
FSD1.Q9BTV5	-0.197725	0.219486	-0.90086	0.368096	-0.14064	0.536382	-0.2622	0.793339	0.162778	0.159314	1.021746	0.307698

LYRM9.D6RFL2	0.0840519	0.093315	0.900737	0.368159	0.214247	0.252461	0.848635	0.396739	-0.10802	0.074939	-1.44143	0.150472
CYP2J2.P51589	0.0827233	0.091825	0.900884	0.368398	0.417806	0.259861	1.607803	0.109661	0.06515	0.08101	0.804223	0.422347
MGARP.Q8TDB4	0.071099	0.078975	0.900272	0.368467	-0.0753	0.226141	-0.33296	0.739418	0.05756	0.06901	0.834086	0.404949
C5orf22.Q49AR2	-0.142649	0.158665	-0.89905	0.369067	-0.39969	0.392354	-1.01869	0.309163	0.25261	0.11622	2.173541	0.030516
PATL1.Q86TB9	0.1651445	0.183695	0.899014	0.369096	-0.27617	0.464858	-0.59409	0.552905	0.116253	0.139662	0.832388	0.405857
LGALSL.Q3ZCW2	-0.242748	0.270055	-0.89889	0.369142	0.548524	0.666451	0.823053	0.411111	0.104278	0.198386	0.525634	0.599519
COPRS.Q9NQ92	0.1063824	0.118347	0.898906	0.369153	-0.11074	0.299343	-0.36993	0.711702	-0.03691	0.090108	-0.40957	0.682423
TST.Q16762	0.1110416	0.123543	0.898811	0.369183	0.297178	0.308453	0.963447	0.336074	-0.1015	0.091716	-1.10666	0.269297
SF3A1.Q15459	0.1860758	0.207054	0.898681	0.369252	-0.05951	0.485345	-0.12262	0.902485	-0.24141	0.143733	-1.67957	0.094049
FAM217B.Q9NTX9	-0.075494	0.084016	-0.89857	0.369355	0.148283	0.218764	0.677822	0.498452	-0.0034	0.064318	-0.05285	0.957893
ANXA1.P04083	0.0726415	0.080851	0.898457	0.369371	-0.20904	0.207265	-1.00856	0.313973	0.042014	0.061713	0.680792	0.496511
HSP90AA4P.Q58FG1	-0.046243	0.051485	-0.89819	0.36962	-0.08625	0.148769	-0.57978	0.562586	0.036218	0.04256	0.850987	0.395591
KIF3C.O14782	-0.151375	0.168578	-0.89796	0.369638	-0.40962	0.420722	-0.9736	0.331014	0.211218	0.124773	1.692817	0.091495
PTPRG.P23470	-0.177484	0.19769	-0.89779	0.369727	0.462388	0.495277	0.933595	0.351239	-0.14841	0.147302	-1.00754	0.314461
RTN4RL1.Q86UN2	-0.122196	0.136119	-0.89772	0.369809	-0.07358	0.429207	-0.17142	0.864012	-0.0593	0.12796	-0.46344	0.643405
MYDGF.Q969H8	-0.212425	0.236685	-0.8975	0.369881	0.063948	0.562287	0.113729	0.909526	0.038351	0.16726	0.229293	0.818792
ERC2.H7C4G9	-0.12275	0.136723	-0.8978	0.369889	0.290411	0.337128	0.861426	0.389937	0.018691	0.097667	0.191374	0.848409
TMEM179B.Q7Z7N9	0.1175881	0.130957	0.897914	0.369994	-0.75684	0.326359	-2.31905	0.021479	-0.14685	0.099567	-1.47486	0.141941
TP53RK.Q96S44	-0.206637	0.23033	-0.89713	0.370075	0.248183	0.610869	0.406279	0.684818	0.104669	0.181674	0.576139	0.56494
COA4.Q9NYJ1	-0.097795	0.109011	-0.89711	0.370128	0.016985	0.270889	0.0627	0.950049	-0.11132	0.080262	-1.38694	0.166546
TRIO.O75962	-0.299598	0.33403	-0.89692	0.370191	0.754417	0.906007	0.832683	0.405665	0.207806	0.269564	0.770896	0.441355
UBFD1.O14562	-0.168299	0.187717	-0.89656	0.370382	-0.1923	0.487866	-0.39416	0.693736	0.19378	0.14475	1.338719	0.181643
KCNT1.C9JYL2	-0.128093	0.142862	-0.89662	0.370562	-0.30148	0.380145	-0.79308	0.428633	0.203792	0.110978	1.836329	0.067729
NDUFB9.Q9Y6M9	-0.135043	0.150697	-0.89612	0.370616	0.395256	0.382497	1.033356	0.302243	-0.03284	0.113967	-0.28812	0.773444
CAMKK2.Q96RR4	-0.134997	0.150666	-0.896	0.37068	-0.13467	0.380538	-0.35389	0.723664	-0.07734	0.113141	-0.68357	0.49476
DDX56.Q9NY93	0.1284698	0.143316	0.896407	0.370735	0.158394	0.382634	0.413958	0.679357	0.063233	0.113216	0.558519	0.577128
TIAM2.E9PKT1	-0.122024	0.136222	-0.89577	0.370803	0.274057	0.323762	0.846479	0.397939	0.115015	0.096203	1.195542	0.232789
COG3.Q96JB2	0.2511178	0.2804	0.895571	0.370909	0.461447	0.752258	0.613417	0.540051	0.201413	0.223627	0.900664	0.368466
UBL7.Q96S82	0.1678288	0.187558	0.894808	0.371317	0.995305	0.513202	1.9394	0.05336	-0.17203	0.153281	-1.12234	0.262588
SH3GLB2.Q9NR46.2	-0.160533	0.179422	-0.89472	0.371363	-0.0636	0.467995	-0.13589	0.891997	0.092668	0.139125	0.66608	0.505855
SYT13.Q7L8C5	-0.159315	0.178064	-0.89471	0.37137	-0.5978	0.449827	-1.32896	0.184839	0.112975	0.134043	0.842831	0.399973
RPL23.P62829	-0.265379	0.296666	-0.89454	0.37146	-1.17897	0.765602	-1.53992	0.1246	-0.03571	0.228614	-0.15622	0.875959
ZC3H7B.Q9UGR2	-0.223011	0.249307	-0.89452	0.371469	-0.15646	0.674999	-0.23179	0.81685	-0.19581	0.20051	-0.97655	0.329552
CLIP4.Q8N3C7	-0.117598	0.131473	-0.89446	0.371541	0.09582	0.328774	0.291447	0.77092	-0.08783	0.099726	-0.88076	0.379186

FAM19A2.Q8N3H0	-0.117777	0.131744	-0.89399	0.37177	-0.23576	0.367144	-0.64214	0.52127	0.098433	0.11047	0.891037	0.373619
KIAA1549L.HOYDE5	-0.106283	0.118884	-0.89401	0.371884	0.293378	0.319983	0.916856	0.360196	-0.00268	0.091665	-0.02927	0.976677
OXCT1.P55809.2	-0.052662	0.058876	-0.89445	0.371992	-0.12826	0.145443	-0.88188	0.379302	-0.02668	0.045002	-0.59288	0.554186
HSPB8.Q9UJY1	0.0926196	0.10367	0.893412	0.372063	-0.04698	0.258489	-0.18174	0.855907	0.016794	0.076894	0.218397	0.827263
FAM73A.Q8NAN2	-0.142837	0.15992	-0.89318	0.372189	-0.18416	0.395266	-0.46591	0.641607	-0.20885	0.117026	-1.78465	0.075297
NDUFS5.O43920	-0.101365	0.113543	-0.89274	0.37242	0.156283	0.302368	0.516862	0.605621	0.066275	0.089909	0.737137	0.461597
EML4.Q9HC35	0.2547552	0.285439	0.892504	0.372549	-1.02589	0.726456	-1.41218	0.158899	0.131666	0.216673	0.607671	0.543851
GBA2.Q9HCG7	-0.191733	0.21486	-0.89237	0.372623	0.34741	0.552921	0.628317	0.530259	0.205387	0.164175	1.251023	0.211869
GUK1.B1ANH0	0.2331725	0.261319	0.892289	0.372664	0.358829	0.644172	0.557039	0.577903	-0.17186	0.191477	-0.89757	0.370113
ARHGDIB.P52566	-0.101624	0.113893	-0.89228	0.37267	-0.23267	0.283068	-0.82196	0.411729	0.015152	0.084295	0.179751	0.857465
EPHA6.Q9UF33	0.1290174	0.144495	0.892885	0.372675	0.032739	0.34207	0.095709	0.923861	-0.06525	0.116636	-0.5594	0.576605
PRKCQ.Q04759	-0.12256	0.137368	-0.89221	0.372737	-0.13684	0.352412	-0.3883	0.698075	-0.15054	0.105274	-1.43	0.15379
CA11.O75493	-0.136738	0.153274	-0.89212	0.372824	-0.04131	0.426558	-0.09684	0.922925	-0.00834	0.127761	-0.06526	0.948015
RPL21.P46778	-0.245363	0.275205	-0.89156	0.373053	0.313956	0.682363	0.460102	0.645766	0.168493	0.202835	0.830694	0.406786
ACTR3.P61158	0.3348876	0.375636	0.891522	0.373075	-0.87888	0.946393	-0.92866	0.353789	0.923508	0.277004	3.33391	0.00096
ALDH7A1.P49419.2	-0.041191	0.046185	-0.89187	0.373081	0.032163	0.132289	0.243124	0.808144	-0.00626	0.038428	-0.16279	0.870838
SNRPD1.P62314	0.1594161	0.178873	0.891223	0.373235	-0.07978	0.454352	-0.17559	0.860729	0.022472	0.135162	0.166256	0.868064
TMEM41A.Q96HV5	0.1119987	0.125647	0.891379	0.373269	0.282676	0.307882	0.918132	0.359456	0.104728	0.092742	1.129238	0.259906
WDR1.O75083	0.2542964	0.285363	0.891133	0.373283	-0.60503	0.735335	-0.8228	0.411254	0.558496	0.216678	2.577537	0.010412
HN1L.Q9H910	0.0915455	0.10274	0.891039	0.373333	-0.11834	0.272289	-0.43461	0.664151	-0.0277	0.08101	-0.34191	0.732647
ITGB1.P05556	0.1430613	0.160569	0.890964	0.373374	-0.38179	0.412195	-0.92623	0.35505	0.15567	0.122472	1.271072	0.204656
SLC6A9.P48067.2	0.1250765	0.140447	0.890559	0.373603	-0.42536	0.366105	-1.16184	0.246222	0.257881	0.107345	2.40237	0.016897
TXN.P10599	-0.17407	0.195502	-0.89037	0.37369	-0.16225	0.503807	-0.32204	0.747637	-0.21932	0.14938	-1.46822	0.14306
ARHGEF6.Q15052	0.2432521	0.273238	0.890257	0.373752	0.291896	0.802599	0.363689	0.716338	-0.12049	0.238712	-0.50475	0.614094
ITGA5.P08648	0.0841182	0.094477	0.890353	0.373893	-0.00248	0.234999	-0.01054	0.991602	0.043666	0.068949	0.633304	0.527187
BCL10.O95999	0.1678852	0.188637	0.88999	0.374036	0.028678	0.528035	0.05431	0.956735	0.015968	0.150316	0.106228	0.915493
RABGEF1.Q9UJ41	-0.343828	0.386572	-0.88943	0.374197	-0.82813	0.95059	-0.87118	0.384333	0.671258	0.280551	2.392643	0.017323
ADHFE1.Q8IWW8	-0.069958	0.078657	-0.8894	0.374211	0.136408	0.197878	0.689355	0.491115	-0.05622	0.058824	-0.95574	0.339949
C2orf76.Q3KRA6	0.1064139	0.119673	0.889207	0.374494	0.429497	0.302586	1.419424	0.157153	0.116131	0.091393	1.270682	0.205148
HTR1B.P28222	-0.108829	0.122422	-0.88897	0.374575	-0.00288	0.322315	-0.00892	0.992889	0.197444	0.096786	2.040011	0.042449
FAT3.Q8TDW7	0.1591261	0.179228	0.887843	0.375049	-0.5629	0.483196	-1.16496	0.244932	-0.07368	0.143996	-0.51168	0.609239
JAG2.Q9Y219	0.1197957	0.134907	0.887987	0.375262	-0.47054	0.361877	-1.30027	0.195042	0.25581	0.110851	2.30769	0.022066
SLC35G2.Q8TBE7	-0.10918	0.12301	-0.88757	0.37562	-0.37549	0.323104	-1.16212	0.246972	-0.06935	0.098227	-0.70606	0.48121
MRPL38.Q96DV4	-0.106948	0.120642	-0.88649	0.37579	0.085368	0.297486	0.286965	0.774336	-0.05121	0.088617	-0.57784	0.563804

HADHB.P55084	-0.159014	0.179381	-0.88646	0.375791	-0.09403	0.474845	-0.19803	0.843149	-0.0985	0.141156	-0.69781	0.485821
BRAT1.Q6PJG6	0.1345095	0.151663	0.886898	0.375953	0.354155	0.386129	0.917193	0.360495	-0.17137	0.102821	-1.66671	0.097632
ANXA11.P50995	0.1511224	0.170541	0.886135	0.375967	0.618291	0.430897	1.434891	0.152326	-0.11938	0.12843	-0.92953	0.35334
MYH11.P35749	-0.036791	0.041518	-0.88613	0.375972	0.049418	0.104441	0.47317	0.636425	-0.06627	0.030852	-2.14807	0.032483
IFI30.P13284	0.0838972	0.094608	0.886789	0.376019	0.063675	0.236536	0.269198	0.788116	0.009563	0.063144	0.151447	0.879809
NUDT8.Q8WV74	-0.172637	0.194766	-0.88638	0.37604	-0.22925	0.463921	-0.49417	0.621706	0.080237	0.138731	0.578363	0.563641
CASK.O14936.4	0.1379411	0.155771	0.88554	0.376288	-0.10977	0.413974	-0.26516	0.791063	-0.09579	0.123044	-0.77849	0.436875
PBRM1.Q86U86	0.1546908	0.174693	0.885501	0.376386	-0.02216	0.420342	-0.05273	0.957987	0.111815	0.122231	0.914788	0.361144
ART3.Q13508	0.0969883	0.109561	0.885246	0.37646	0.242914	0.275202	0.882678	0.378112	0.107467	0.081885	1.312409	0.190379
DPYSL3.Q14195.2	0.1249179	0.141129	0.88513	0.376508	0.018935	0.399436	0.047405	0.962221	0.073209	0.118753	0.616479	0.538031
NDUFV1.G3V015	-0.151223	0.17088	-0.88497	0.376597	0.123964	0.456099	0.271791	0.785963	-0.03869	0.13568	-0.28518	0.775694
MCEE.Q96PE7	-0.095372	0.107788	-0.88481	0.376679	0.402568	0.275566	1.460876	0.145062	-0.04781	0.082213	-0.5816	0.561261
FOXJ3.C9JVP0	0.108877	0.123049	0.88483	0.376836	-0.0429	0.361647	-0.11863	0.905678	-0.25574	0.101973	-2.50796	0.012858
FAM19A5.B1B1J6	-0.113525	0.128358	-0.88444	0.376932	-0.29704	0.337848	-0.87922	0.38006	-0.15194	0.097742	-1.55447	0.121236
FBXL20.Q96IG2	0.1672031	0.189151	0.883966	0.377136	-0.51229	0.494832	-1.03528	0.301346	0.046228	0.147435	0.313552	0.754072
SNX18.Q96RF0.2	0.1499513	0.169768	0.88327	0.377511	-0.05222	0.434102	-0.1203	0.904322	-0.01447	0.129138	-0.11204	0.910864
PCIF1.Q9H4Z3	0.0655899	0.074247	0.883407	0.377515	0.02938	0.17246	0.17036	0.864858	-0.00689	0.049714	-0.13855	0.88991
C2orf47.Q8WWC4	0.2438613	0.276134	0.883128	0.377588	-0.04893	0.733736	-0.06669	0.946875	0.239555	0.217851	1.099628	0.272347
TMPPE.Q6ZT21	-0.147578	0.167127	-0.88303	0.377649	0.06723	0.414524	0.162186	0.871266	0.133077	0.123138	1.080722	0.280669
SYT6.Q5T7P8	0.1163589	0.131795	0.882881	0.377849	0.231743	0.331293	0.699512	0.484924	0.02844	0.097154	0.292734	0.769984
VWA1.Q6PCB0	0.0912233	0.103395	0.882278	0.378047	-0.25109	0.249644	-1.00579	0.315301	0.014579	0.074381	0.195999	0.84474
SPTBN2.O15020	-0.280777	0.318303	-0.88211	0.37814	0.48108	0.749517	0.641854	0.521443	-0.32841	0.222335	-1.47709	0.140668
TTN.Q8WZ42	0.0506979	0.05747	0.882165	0.378271	-0.05499	0.147475	-0.37287	0.709591	-0.00099	0.04363	-0.0226	0.981989
RQCD1.Q92600	0.222754	0.252638	0.88171	0.378354	-1.32802	0.641517	-2.07013	0.039268	0.169321	0.191914	0.882277	0.378311
C17orf80.Q9BSJ5	-0.150885	0.171093	-0.88189	0.37841	-0.72495	0.417962	-1.73448	0.084179	0.18358	0.121873	1.506323	0.133362
SAMD14.Q8IZD0	-0.141462	0.160488	-0.88145	0.378497	0.269756	0.430548	0.626541	0.531421	-0.35945	0.126525	-2.84094	0.004796
TMEM169.Q96HH4	-0.142899	0.162127	-0.8814	0.37879	0.309105	0.422054	0.732382	0.464793	0.233141	0.123644	1.885576	0.060802
AK4.P27144	-0.18483	0.209868	-0.88069	0.378903	-0.08583	0.54609	-0.15717	0.875217	0.087918	0.162382	0.54143	0.5886
COMMD3.BMI1.R4GMX3	0.2061243	0.234071	0.880606	0.378951	0.111304	0.599813	0.185565	0.852907	0.197343	0.178091	1.108101	0.268677
VAMP2.F8WCA0	-0.145181	0.164867	-0.8806	0.378957	0.124415	0.426197	0.291919	0.770544	-0.21872	0.126193	-1.7332	0.084055
PFKFB2.O60825	-0.16591	0.188437	-0.88045	0.379033	0.102782	0.470293	0.21855	0.827145	0.00806	0.139914	0.057609	0.954097
ELANE.P08246	-0.051257	0.058212	-0.88053	0.379203	-0.13489	0.13298	-1.01436	0.311536	0.025241	0.041454	0.608889	0.543232
PCBD1.P61457	0.057558	0.065404	0.880039	0.379257	-0.15724	0.175673	-0.89506	0.371451	0.019271	0.052316	0.368364	0.712853
RAB13.P51153	0.1447943	0.164703	0.879125	0.379766	-0.9562	0.473978	-2.0174	0.044541	0.306874	0.140243	2.18816	0.029426

LRCH1.Q9Y2L9	-0.143972	0.163801	-0.87895	0.379863	0.172795	0.402213	0.42961	0.667787	0.056229	0.120571	0.466354	0.6413
MORF4L1.HOYMJ0	0.1135344	0.129177	0.878908	0.379903	0.177525	0.317227	0.559614	0.576179	-0.04283	0.095074	-0.45045	0.652728
CHCHD2.Q9Y6H1	-0.05909	0.067254	-0.87861	0.380031	-0.12462	0.172787	-0.72126	0.471294	-0.28706	0.048792	-5.88333	1.04E-08
SLIRP.Q9GZT3	-0.137002	0.15595	-0.8785	0.38009	0.472352	0.418698	1.128146	0.260131	-0.20301	0.124277	-1.63356	0.103367
EIF4H.Q15056.2	0.098403	0.111997	0.878618	0.380096	-0.39801	0.300304	-1.32534	0.186195	-0.03985	0.0905	-0.44038	0.660017
WDR41.Q9HAD4	0.2019644	0.229912	0.878441	0.380123	-0.58518	0.565024	-1.03567	0.301164	0.485943	0.166098	2.925646	0.003691
STRN3.HOYJT2	-0.128635	0.146315	-0.87917	0.380148	-0.20475	0.379461	-0.53957	0.59026	-0.00825	0.114344	-0.07212	0.942597
MICALL2.Q8IY33	0.0991349	0.112864	0.878356	0.380227	-0.40659	0.290329	-1.40046	0.162503	-0.02413	0.087123	-0.27695	0.782027
LRFN1.Q9P244	0.1671823	0.190365	0.87822	0.380243	0.131901	0.476722	0.276683	0.782208	0.031252	0.141823	0.220362	0.825734
CKB.P12277	-0.218674	0.249023	-0.87813	0.380292	0.764471	0.620182	1.232656	0.218638	0.416646	0.183425	2.271483	0.023803
EIF2S2.P20042	0.2290001	0.260799	0.878073	0.380323	-0.93294	0.7131	-1.30829	0.191743	-0.04366	0.212705	-0.20525	0.837515
KRT86.O43790	0.0264823	0.030165	0.877919	0.380406	0.085008	0.082029	1.036309	0.300866	-0.02817	0.024392	-1.15485	0.249042
MON1A.Q86VX9	-0.142304	0.162195	-0.87736	0.38072	-0.30166	0.390265	-0.77297	0.440145	0.176181	0.116398	1.5136	0.131173
L1CAM.P32004	-0.148609	0.169422	-0.87715	0.380822	0.351315	0.428054	0.820725	0.412434	0.091755	0.12737	0.72038	0.471834
DLG1.Q12959.4	0.2887581	0.329345	0.876764	0.381032	0.080346	0.829188	0.096897	0.922871	0.057681	0.246651	0.233858	0.815249
DCUN1D3.Q8IWE4	-0.204319	0.233052	-0.87671	0.381062	0.235824	0.577824	0.408125	0.683464	0.096896	0.17185	0.563836	0.573273
SAMD8.A0A0A0MRR2	0.1827729	0.208414	0.87697	0.381188	-0.17553	0.493715	-0.35554	0.722589	0.217771	0.151725	1.435306	0.152879
PLEKHA1.Q5RGS4	-0.139285	0.159001	-0.876	0.381505	-0.34485	0.44719	-0.77115	0.44129	0.102953	0.133991	0.768358	0.442943
ROBO1.Q9Y6N7	-0.231904	0.264882	-0.8755	0.381718	-0.24413	0.653096	-0.37381	0.708804	-0.08387	0.19427	-0.43171	0.66625
PDZD4.Q76G19	-0.188008	0.214804	-0.87525	0.381911	-0.60371	0.587181	-1.02815	0.304801	0.234023	0.17153	1.364328	0.1736
TMEM248.Q9NWD8	0.1416983	0.161884	0.875308	0.382114	-0.72039	0.423797	-1.69984	0.090788	0.076623	0.12096	0.633459	0.527192
GOLGA4.Q13439.5	0.3220209	0.368154	0.874691	0.382159	1.231387	0.941321	1.308148	0.191792	0.081635	0.28076	0.290766	0.771425
NID2.Q14112	0.1310696	0.149897	0.8744	0.382317	-0.32159	0.370511	-0.86796	0.386086	0.104977	0.110193	0.952666	0.341502
PHLDA1.Q8WV24	-0.147681	0.168887	-0.87444	0.38238	-0.32054	0.463852	-0.69104	0.49016	-0.1265	0.133707	-0.94609	0.344986
BACL2.J3KQ12	-0.169786	0.194297	-0.87385	0.382616	-0.64238	0.515809	-1.24539	0.213928	-0.44317	0.151754	-2.9203	0.003753
HMCN1.Q96RW7	0.0334068	0.038206	0.874397	0.382765	-0.10963	0.10371	-1.0571	0.292141	-0.01258	0.03061	-0.41105	0.681617
CAP1.Q01518	-0.016381	0.018734	-0.87442	0.382832	0.082155	0.055419	1.482442	0.140503	0.010377	0.017056	0.60844	0.543896
NAV1.Q8NEY1	-0.179611	0.205634	-0.87345	0.382833	-0.33951	0.492184	-0.68979	0.49084	-0.25674	0.145801	-1.76091	0.079239
PLA2G4C.Q9UP65	0.1204956	0.137943	0.873515	0.383079	0.257194	0.347875	0.739329	0.460634	0.182393	0.101911	1.789735	0.075115
IRF2BPL.Q9H1B7	0.1629689	0.186838	0.872248	0.383488	-0.61226	0.442791	-1.38273	0.167742	-0.08806	0.132034	-0.66692	0.505317
ADCK1.Q86TW2	-0.117369	0.134607	-0.87194	0.383685	-0.18275	0.358691	-0.5095	0.61079	-0.09122	0.103472	-0.88155	0.37876
LMO4.P61968	-0.187146	0.214514	-0.87242	0.383698	-0.629	0.558862	-1.12551	0.261849	0.248748	0.185668	1.339743	0.18199
TTR.P02766	0.0502843	0.057694	0.871572	0.383857	-0.33353	0.138676	-2.40507	0.016755	0.083596	0.041365	2.020922	0.044147
EGFL7.Q9UHF1	0.0690485	0.079199	0.871839	0.383865	-0.20818	0.182947	-1.1379	0.256325	-0.09037	0.052301	-1.72794	0.085319

LRPPRC.P42704	-0.12841	0.147388	-0.87124	0.384037	0.639419	0.390201	1.63869	0.102292	-0.11265	0.116404	-0.96776	0.333919
KCND1.Q9NSA2	0.1251673	0.143793	0.87047	0.384661	-0.06553	0.384323	-0.17051	0.864769	-0.16503	0.111249	-1.48347	0.139428
CALY.Q9NYX4	0.0969313	0.111397	0.870139	0.384697	-0.20647	0.295387	-0.699	0.485155	0.130084	0.090503	1.437346	0.151778
RPL32.D3YTB1	0.1551316	0.17835	0.869816	0.384815	-0.01891	0.456037	-0.04146	0.966954	0.028968	0.135653	0.213544	0.831043
CES1.P23141	0.0471596	0.054218	0.869807	0.384848	0.050623	0.132299	0.382644	0.702261	0.011364	0.039261	0.289445	0.772445
MPZ.P25189	0.0323883	0.037226	0.870041	0.384856	-0.13862	0.094668	-1.46425	0.144521	0.003378	0.027477	0.122945	0.90226
PTPRN2.Q92932	-0.147755	0.169912	-0.8696	0.384934	-0.06626	0.435927	-0.15201	0.879281	0.022553	0.129679	0.173918	0.862044
PCF11.O94913	0.0935381	0.107528	0.869895	0.384947	-0.25966	0.257667	-1.00774	0.314667	0.043729	0.07929	0.551505	0.581838
C8A.P07357	0.0734581	0.084463	0.869704	0.385048	-0.01269	0.224812	-0.05643	0.955055	0.081946	0.068211	1.201363	0.230932
RAB3IL1.Q8TBN0	0.0991883	0.114082	0.869445	0.385165	0.335188	0.268132	1.250087	0.212511	0.007277	0.080509	0.090385	0.928058
HRNR.Q86YZ3	0.032736	0.037662	0.869216	0.385221	-0.15372	0.102252	-1.50331	0.13394	0.074216	0.029924	2.480148	0.01375
GSPT1.P15170.3	0.2130579	0.245301	0.868558	0.385503	0.112753	0.635867	0.177321	0.859372	0.385585	0.187897	2.05211	0.040999
TPM2.P07951	-0.034455	0.039681	-0.86831	0.385635	0.039349	0.098474	0.399589	0.689734	-0.04974	0.029165	-1.70531	0.089139
CSNK1E.P49674	0.2171073	0.250054	0.868243	0.385675	0.171052	0.639603	0.267435	0.789312	0.369571	0.189131	1.954046	0.051595
DDT.J3KQ18	0.0851083	0.098031	0.868174	0.385712	0.33309	0.25291	1.317026	0.188802	0.061856	0.075365	0.820754	0.412417
FHL5.Q5TD97	-0.076627	0.088208	-0.8687	0.385745	0.006681	0.231343	0.028879	0.976994	-0.00973	0.07065	-0.13776	0.890589
DYNLT3.A6NGJ0	0.1463084	0.168598	0.867794	0.38592	-0.52312	0.430739	-1.21447	0.225492	0.118844	0.128264	0.926558	0.354877
GOLPH3.Q9H4A6	0.2083722	0.240153	0.867664	0.385991	0.229247	0.656083	0.349418	0.727013	-0.06717	0.195174	-0.34417	0.73095
ANKRD20A3.Q5VUR7	-0.026336	0.030366	-0.86726	0.386231	-0.01222	0.080743	-0.15131	0.879836	0.013723	0.024256	0.565769	0.571983
PI4K2A.Q9BTU6	-0.244166	0.281682	-0.86682	0.386455	0.693696	0.73412	0.944936	0.345427	0.737766	0.21465	3.437059	0.000668
TSC22D4.Q9Y3Q8	-0.131609	0.151836	-0.86679	0.386471	-0.04732	0.385946	-0.1226	0.902507	-0.38964	0.112662	-3.45849	0.000619
SLITRK2.Q9H156	0.1768209	0.204005	0.866747	0.386529	-0.78745	0.54362	-1.44852	0.148551	-0.11367	0.164723	-0.69005	0.490715
ABHD12.Q8N2K0	-0.196337	0.2267	-0.86606	0.386868	0.415358	0.572439	0.725593	0.468635	-0.10987	0.170321	-0.64506	0.519366
GABRG2.P18507	-0.181732	0.209965	-0.86553	0.387157	-0.02554	0.55004	-0.04643	0.963001	-0.22596	0.163124	-1.38522	0.16698
ARGLU1.Q9NWB6	0.154935	0.17901	0.865512	0.387169	-0.49149	0.406428	-1.2093	0.227469	0.197399	0.12067	1.635849	0.102886
NBN.O60934	0.1031828	0.119243	0.865314	0.387336	0.003338	0.316086	0.01056	0.991582	-0.05697	0.092757	-0.61417	0.539619
SCLY.Q96I15	0.1134895	0.131204	0.864983	0.38746	-0.28605	0.328735	-0.87014	0.384897	-0.05198	0.097868	-0.5311	0.59573
DDN.O94850	-0.040516	0.046841	-0.86497	0.387487	-0.11619	0.115584	-1.0052	0.315631	-0.00992	0.033997	-0.29181	0.770641
INF2.Q27J81	0.1138689	0.131681	0.864732	0.387597	0.080587	0.345291	0.233388	0.815614	-0.05254	0.102684	-0.51171	0.609215
SF3B2.Q13435	0.1921816	0.222357	0.864292	0.387839	-0.41913	0.547956	-0.76489	0.444916	-0.54564	0.160191	-3.40619	0.000746
GALNS.P34059	0.1233932	0.142782	0.864206	0.387914	-0.18538	0.363088	-0.51057	0.610043	0.06302	0.105137	0.599406	0.549373
AHNAK2.Q8IVF2	0.1137518	0.131688	0.8638	0.388109	0.193683	0.352243	0.549855	0.582815	-0.04804	0.104802	-0.45835	0.647019
VSTM2L.Q96N03	-0.14001	0.162082	-0.86383	0.388113	-0.59413	0.385332	-1.54185	0.124178	-0.09594	0.114755	-0.83607	0.40379
PTP4A1.Q93096	0.1810271	0.209664	0.863416	0.388319	-0.47246	0.552421	-0.85525	0.393071	0.492884	0.16213	3.040049	0.002567

SCAI.Q8N9R8	-0.160471	0.185987	-0.86281	0.388654	-0.34221	0.472655	-0.72401	0.469604	-0.12654	0.140542	-0.9004	0.368606
DNAJB14.Q8TBM8	-0.219013	0.253965	-0.86237	0.388891	-0.27813	0.65397	-0.4253	0.670912	0.118029	0.194486	0.606877	0.544377
HIST2H2BC.Q6DN03	-0.079173	0.09179	-0.86255	0.38898	0.018911	0.298392	0.063375	0.949527	0.009974	0.086669	0.115081	0.90849
MPP6.Q9NZW5	-0.198426	0.230245	-0.86181	0.389205	-0.38337	0.552131	-0.69435	0.487982	-0.06165	0.16434	-0.37515	0.707806
TXNL4B.Q9NX01	0.0834639	0.09685	0.861788	0.389339	0.086275	0.243445	0.354393	0.723352	-0.03458	0.071534	-0.48334	0.629293
MYO9A.B2RTY4	0.2344094	0.272106	0.861462	0.389393	-0.01721	0.678385	-0.02537	0.979773	-0.10157	0.201725	-0.50351	0.614962
SPHK2.Q9NRA0	0.1166958	0.135494	0.861259	0.389533	-0.42584	0.324425	-1.3126	0.190351	0.152238	0.092999	1.63699	0.102714
S100A8.P05109	-0.035278	0.04097	-0.86106	0.389638	-0.06717	0.105115	-0.63903	0.523309	0.011108	0.031203	0.355993	0.722104
TUBB8.Q3ZCM7	-0.075964	0.088265	-0.86063	0.389923	0.220795	0.216009	1.022153	0.307651	-0.00453	0.062504	-0.0724	0.942342
KIAA1147.A4D1U4	0.1319537	0.153341	0.860526	0.389936	-0.83625	0.422772	-1.97801	0.048877	0.058625	0.12408	0.472475	0.636944
EIF3F.O00303	-0.204976	0.23829	-0.86019	0.390091	-0.90862	0.631999	-1.4377	0.151529	0.022053	0.18863	0.116913	0.907005
SYT11.Q9BT88	0.1823616	0.212279	0.859064	0.390714	-0.60707	0.533801	-1.13727	0.256305	0.203462	0.158707	1.281995	0.200802
ADCK4.Q96D53	-0.087279	0.101594	-0.85909	0.390927	-0.11253	0.228397	-0.4927	0.622767	-0.01636	0.071561	-0.22866	0.819369
MICAL3.J3KRP8	0.059437	0.069167	0.859324	0.390953	-0.06572	0.2207	-0.29779	0.766234	0.09601	0.064898	1.479406	0.140904
OPA3.Q9H6K4	0.1555921	0.181248	0.858451	0.391052	-0.3023	0.504264	-0.59949	0.549287	-0.06677	0.150049	-0.44501	0.656624
SPAG1.Q07617	-0.131932	0.153684	-0.85846	0.39106	-0.01981	0.394361	-0.05024	0.959962	0.248286	0.115943	2.141442	0.033041
KRT10.P13645	0.0297019	0.034602	0.858384	0.391088	-0.20989	0.090439	-2.32085	0.020944	0.047111	0.027004	1.74457	0.082051
ADIRF.Q15847	0.0547393	0.063778	0.85828	0.391146	-0.26255	0.163005	-1.61068	0.108267	-0.08888	0.048431	-1.83512	0.067445
EPST11.Q96J88	0.0372615	0.043432	0.85792	0.391543	0.160199	0.105261	1.521926	0.129539	-0.0075	0.029694	-0.25251	0.800895
AIMP2.Q13155	0.2235453	0.260726	0.857395	0.391634	-0.7247	0.66841	-1.08422	0.279111	0.251248	0.198705	1.264426	0.207027
COL5A2.P05997	0.0322073	0.037558	0.857538	0.391678	-0.02497	0.100973	-0.24731	0.80488	-0.01639	0.029232	-0.56085	0.575431
AP4S1.Q9Y587	0.1439163	0.167876	0.857279	0.391749	-0.19262	0.422787	-0.45559	0.649049	-0.01136	0.126673	-0.08971	0.928587
SORBS3.O60504	0.1375115	0.160451	0.857033	0.391834	0.146883	0.41523	0.353738	0.723775	-0.32668	0.122147	-2.67444	0.007882
SLC35B2.Q8TB61	-0.12869	0.150121	-0.85725	0.391962	-0.05552	0.383219	-0.14489	0.884949	-0.10024	0.107039	-0.93645	0.350189
RIMKLA.Q8IXN7	0.1072506	0.125132	0.8571	0.391995	0.224227	0.298619	0.750881	0.453553	-0.05667	0.088748	-0.6385	0.523835
PSMD6.Q15008	0.3783942	0.44167	0.856736	0.391998	-0.66634	1.091185	-0.61066	0.541873	0.734656	0.322112	2.280747	0.023242
USP12.O75317	0.1374006	0.160401	0.85661	0.392093	0.216009	0.462071	0.46748	0.640511	-0.10113	0.133331	-0.75846	0.448801
WIZ.B9EGQ5	0.1182656	0.137975	0.857151	0.392182	-0.45618	0.363549	-1.25479	0.211409	0.034642	0.110935	0.312272	0.755246
SOGA3.E9PJP2	-0.251201	0.293338	-0.85636	0.392208	0.800002	0.71428	1.120012	0.263576	0.512274	0.210918	2.428787	0.015718
HEXB.P07686	0.1408854	0.164539	0.856245	0.392269	0.084525	0.405317	0.20854	0.834944	0.127824	0.120364	1.061971	0.289076
THOC1.Q96FV9	0.1459396	0.170592	0.855492	0.392712	0.102875	0.416703	0.246878	0.805177	0.147633	0.125242	1.178782	0.239448
TNIK.Q9UKE5.3	-0.135807	0.158882	-0.85477	0.393085	-0.3503	0.428063	-0.81834	0.413793	-0.48271	0.124495	-3.87735	0.000129
LMAN1.P49257	0.2074173	0.242704	0.854609	0.393174	-0.01861	0.583929	-0.03188	0.974591	0.274163	0.17301	1.584671	0.114061
GPAA1.O43292	0.1750334	0.204847	0.854458	0.393257	0.187696	0.519799	0.361093	0.718276	0.064368	0.15462	0.416297	0.677481

RFC5.P40937	-0.141838	0.166012	-0.85438	0.393494	0.269403	0.477071	0.564702	0.572906	0.276071	0.137409	2.009123	0.045862
DXO.O77932	0.1018302	0.119307	0.853514	0.394163	0.274445	0.330515	0.830355	0.407632	0.07231	0.099459	0.727036	0.468315
STAU2.Q9NUL3	-0.20645	0.242085	-0.8528	0.394176	-0.89352	0.653654	-1.36695	0.17263	-0.12767	0.194901	-0.65504	0.512926
LAMTOR2.Q9Y2Q5	-0.215562	0.252893	-0.85239	0.394405	-0.74867	0.632475	-1.18371	0.237435	0.083054	0.188516	0.440567	0.659833
MRPL2.Q5T653	-0.117332	0.137692	-0.85213	0.394545	0.257476	0.351087	0.733369	0.463887	-0.03107	0.104518	-0.29724	0.766479
GRM8.O00222.2	-0.121066	0.142102	-0.85197	0.394758	0.100813	0.385204	0.261714	0.793774	-0.11878	0.110764	-1.07233	0.284685
WBSCR17.Q6IS24	-0.151127	0.177496	-0.85144	0.394987	-0.17378	0.490623	-0.35421	0.723459	-0.15241	0.142174	-1.07199	0.284684
SMNDC1.O75940	0.1459245	0.171404	0.851349	0.394992	-0.08985	0.411071	-0.21857	0.827132	-0.20648	0.120833	-1.70881	0.088521
PPP1R16A.Q96I34	-0.157002	0.184464	-0.85113	0.395103	0.0711	0.499139	0.142444	0.886821	-0.06563	0.148443	-0.4421	0.658722
SSH2.Q76I76	-0.205625	0.241621	-0.85102	0.395202	-0.02676	0.622151	-0.04301	0.965724	-0.04678	0.184884	-0.253	0.800451
URI1.O94763	0.1767516	0.207742	0.850824	0.395271	0.143698	0.557399	0.257801	0.796731	0.039922	0.165819	0.24076	0.8099
CORT.O00230	-0.079989	0.093934	-0.85154	0.395283	-0.10647	0.24138	-0.44108	0.659777	-0.06243	0.069044	-0.90421	0.367306
IRF2BP1.Q8IU81	0.1156505	0.135966	0.850581	0.395412	-0.21103	0.373771	-0.56459	0.57277	-0.04531	0.112209	-0.40382	0.686631
EIF4G1.Q04637	0.2878891	0.338542	0.85038	0.395518	0.19172	0.917749	0.208903	0.834661	-0.99661	0.267101	-3.73122	0.000227
MCMBP.Q9BTE3	0.15607	0.183496	0.850536	0.395522	-0.12617	0.49806	-0.25332	0.800227	-0.0935	0.145599	-0.64215	0.521357
AP3B1.O00203	0.2180789	0.256522	0.850137	0.395653	-0.49792	0.64485	-0.77215	0.440616	0.25508	0.191468	1.332232	0.183762
HSPA6.P17066	-0.05103	0.060009	-0.85037	0.395901	0.175206	0.14788	1.184788	0.237881	-0.01211	0.049067	-0.24685	0.805341
CELF2.E9PC62	-0.179059	0.21085	-0.84922	0.396161	-0.65216	0.571038	-1.14207	0.254306	0.162432	0.16998	0.955591	0.340023
CCDC12.Q8WUD4	0.1006995	0.118583	0.84919	0.396226	-0.19539	0.289519	-0.67487	0.500313	-0.16647	0.085159	-1.95487	0.05159
TTC9.Q92623	0.1686265	0.198596	0.849092	0.396233	0.105239	0.483546	0.21764	0.827853	-0.1649	0.143552	-1.14874	0.251548
PPP2R5B.Q15173	-0.188514	0.222026	-0.84906	0.39625	0.428488	0.55581	0.770925	0.441339	-0.1015	0.165402	-0.61368	0.539875
CCND3.P30281	-0.078373	0.092361	-0.84854	0.396943	-0.12532	0.210429	-0.59556	0.552284	0.000553	0.05975	0.009248	0.992633
TMEM9B.Q9NQ34	0.1866125	0.22019	0.847505	0.397116	-1.19875	0.578732	-2.07134	0.039154	0.204151	0.172962	1.180326	0.238775
PROSC.O94903	-0.244843	0.288913	-0.84746	0.397139	-0.92355	0.770632	-1.19843	0.231665	-0.32756	0.229025	-1.43023	0.153657
CD163.Q86VB7	0.0436487	0.051509	0.847398	0.397176	0.011203	0.134799	0.083109	0.933819	0.03668	0.040047	0.915929	0.360416
FERMT2.Q96AC1	0.169191	0.199694	0.847249	0.397258	-0.58648	0.515695	-1.13726	0.256308	-0.2052	0.153287	-1.33865	0.181666
EPN3.Q9H201	0.0690695	0.081502	0.847463	0.397276	-0.22457	0.223098	-1.00658	0.315212	-0.06978	0.068452	-1.0194	0.309103
CLGN.O14967	-0.099087	0.116954	-0.84723	0.397281	0.251423	0.300749	0.835987	0.403828	0.084919	0.088795	0.956355	0.339663
RPL26L1.Q9UNX3	-0.077591	0.091581	-0.84723	0.397334	-0.3891	0.278499	-1.39714	0.163526	-0.43872	0.077814	-5.63806	4.36E-08
CLPX.O76031	-0.153414	0.181108	-0.84709	0.397348	-0.03204	0.434941	-0.07366	0.941331	0.204453	0.128866	1.58655	0.113634
PRKCDBP.Q969G5	-0.064956	0.076684	-0.84706	0.397364	0.032842	0.19161	0.171402	0.86402	-0.0892	0.056778	-1.57108	0.117183
LRRK2.Q5S007	-0.086575	0.102168	-0.84738	0.397393	-0.07162	0.28202	-0.25397	0.799766	-0.01595	0.081468	-0.19581	0.844941
STT3B.Q8TCJ2	0.1693712	0.200001	0.84685	0.397481	-0.80182	0.605034	-1.32525	0.186064	0.283039	0.179779	1.574376	0.116421
TMEM135.Q86UB9	-0.128234	0.151516	-0.84634	0.397772	-0.35827	0.396443	-0.9037	0.366868	-0.24644	0.117515	-2.09711	0.036807

SRR.Q9GZT4	-0.091893	0.108584	-0.84629	0.397793	-0.10121	0.27007	-0.37477	0.708089	-0.00643	0.080358	-0.07997	0.936314
PSEN1.P49768	0.1671662	0.19755	0.846199	0.397843	0.920963	0.610072	1.509598	0.132165	-0.46005	0.180268	-2.55203	0.011189
HSPB6.O14558	0.0769014	0.090897	0.846027	0.397953	0.160366	0.23231	0.69031	0.49053	-0.16102	0.068663	-2.34507	0.019671
MRPS22.P82650	-0.09279	0.109688	-0.84594	0.397989	0.736363	0.279308	2.636388	0.008801	-0.15747	0.083538	-1.88504	0.060359
SNRPD3.P62318	0.193738	0.229065	0.845778	0.398078	-0.1783	0.565243	-0.31544	0.752643	0.391219	0.166703	2.346807	0.019564
NEURL1.O76050	-0.143216	0.169313	-0.84587	0.398138	0.026574	0.431205	0.061628	0.950909	0.028727	0.130201	0.220637	0.825556
C11orf31.Q8IZQ5	0.1337316	0.158169	0.845501	0.398232	-0.28423	0.385231	-0.73781	0.461191	-0.10387	0.114548	-0.90681	0.365214
GABARAPL2.P60520	-0.224494	0.265563	-0.84535	0.398317	0.159081	0.665686	0.238973	0.811285	0.242466	0.197569	1.227249	0.22066
MAST1.Q9Y2H9	-0.206252	0.243984	-0.84535	0.398318	-0.23369	0.624561	-0.37417	0.708532	0.410512	0.184369	2.226572	0.026694
NDUFAF6.Q330K2	0.1623477	0.192208	0.844645	0.39871	0.224446	0.535265	0.419317	0.675275	-0.01059	0.159276	-0.0665	0.94702
PLCL2.Q9UPRO	-0.211103	0.249999	-0.84442	0.398838	0.673814	0.643718	1.046753	0.296029	-0.17468	0.191576	-0.9118	0.362584
PAM.P19021	-0.129161	0.15303	-0.84402	0.399058	0.400897	0.396615	1.010797	0.312902	0.035502	0.118163	0.300446	0.764038
TF.P02787	0.0519699	0.061588	0.843838	0.39916	-0.27136	0.15385	-1.76377	0.078756	0.087211	0.045729	1.907115	0.05743
SRPRB.Q9Y5M8	-0.173241	0.20531	-0.8438	0.399181	-0.41064	0.527766	-0.77807	0.437122	-0.04733	0.157131	-0.30119	0.763474
PPM1G.O15355	0.1068862	0.126672	0.843801	0.399181	-0.00062	0.281905	-0.0022	0.998247	-0.03744	0.083835	-0.44659	0.655485
TUBB6.Q9BUF5	-0.064252	0.076152	-0.84373	0.399278	0.219768	0.2395	0.917612	0.359638	-0.0108	0.069685	-0.15496	0.876968
NDNL2.Q96MG7	0.1152976	0.136634	0.843844	0.399343	0.14783	0.344205	0.429482	0.667998	-0.05432	0.107493	-0.50538	0.613805
NADSYN1.Q6IA69	0.1130345	0.134176	0.842437	0.400076	-0.15137	0.346987	-0.43624	0.663069	0.032011	0.10013	0.319694	0.749488
MRPL41.Q8IXM3	-0.098557	0.117033	-0.84213	0.400117	0.153094	0.296898	0.515644	0.606471	-0.09922	0.08818	-1.1252	0.261376
ITPKA.P23677	-0.162316	0.19292	-0.84136	0.400543	-0.28978	0.483876	-0.59886	0.549701	0.024306	0.144021	0.168768	0.866089
LENG1.Q96BZ8	0.1350518	0.160372	0.842116	0.400548	-0.2905	0.427538	-0.67947	0.497883	0.128083	0.121407	1.054992	0.293114
EXOSC2.Q13868	0.171709	0.20424	0.840724	0.401003	0.082843	0.525754	0.15757	0.874924	0.026964	0.156508	0.172282	0.863356
CD151.P48509	0.0841258	0.100091	0.840494	0.401043	-0.60591	0.262819	-2.30542	0.021821	0.130412	0.078652	1.658092	0.098337
GMPS.P49915	0.276633	0.329325	0.839999	0.401307	-0.03318	0.867812	-0.03824	0.969523	-0.04336	0.258148	-0.16798	0.866711
RAB2B.Q8WUD1	-0.248222	0.295536	-0.8399	0.401361	-0.14271	0.744895	-0.19158	0.848198	-0.03659	0.221597	-0.1651	0.868974
ADCY8.P40145	0.130903	0.155904	0.839638	0.401522	-0.41467	0.405649	-1.02225	0.307482	0.113672	0.120919	0.940064	0.347936
SREK1.Q8WXA9.2	0.1451566	0.173007	0.839024	0.401854	0.066829	0.422975	0.157997	0.874562	0.131327	0.125612	1.045498	0.296608
KIF2A.D6R9M0	0.095883	0.114316	0.838752	0.402013	0.06541	0.296081	0.220918	0.825303	-0.05772	0.088785	-0.65007	0.516136
CDYL2.Q8N8U2	0.0922101	0.109907	0.838981	0.402059	-0.34814	0.261035	-1.33368	0.183676	0.130653	0.079644	1.640457	0.102326
AFAP1.Q8N556.2	-0.120342	0.143512	-0.83855	0.402161	-0.01084	0.380419	-0.02849	0.977295	-0.35565	0.109428	-3.25005	0.001294
TBRG4.Q969Z0	-0.115085	0.137277	-0.83834	0.402236	1.032406	0.345007	2.992416	0.00299	0.028981	0.104092	0.278413	0.780881
MRPS35.P82673	-0.094444	0.112677	-0.83819	0.402324	0.593528	0.287508	2.064384	0.039813	-0.13441	0.085776	-1.56702	0.11813
APOD.C9JF17	0.0772197	0.092164	0.837848	0.402513	0.304201	0.243399	1.249805	0.212314	0.111198	0.072314	1.537717	0.125138
CRLF3.Q8IU18	0.1081512	0.129083	0.83784	0.402531	0.668529	0.334643	1.99774	0.046645	0.135034	0.099483	1.357353	0.175686

C16orf13.Q96S19	0.1697997	0.202706	0.837665	0.402616	0.330154	0.504088	0.654952	0.512984	0.233075	0.149476	1.559277	0.119951
MSRB3.Q8IXL7.2	0.0974551	0.116324	0.837792	0.402699	0.013575	0.367765	0.036913	0.970587	-0.05587	0.10929	-0.51123	0.609692
NME2.Q32Q12	-0.218751	0.261191	-0.83751	0.402702	-0.59712	0.680225	-0.87783	0.380716	0.160863	0.2024	0.794776	0.427352
SEMA6D.Q8NFY4	0.1605292	0.191649	0.837622	0.402761	0.459652	0.513536	0.895073	0.371649	-0.08505	0.154276	-0.55127	0.581967
TCEAL6.Q6IPX3	0.1096439	0.131092	0.836391	0.403331	0.213678	0.326157	0.655138	0.512865	0.131833	0.096804	1.36186	0.174231
LAMC1.P11047	0.0902984	0.108	0.836095	0.403498	-0.13694	0.261662	-0.52335	0.601104	0.132676	0.077509	1.711746	0.087944
KHSRP.Q92945	0.1539175	0.184116	0.835981	0.403562	-0.13281	0.466853	-0.28447	0.77624	-0.56978	0.135076	-4.21819	3.24E-05
CSNK1G1.U3KQB3	-0.147524	0.176603	-0.83535	0.40393	-0.6489	0.485373	-1.33692	0.182262	-0.15764	0.143493	-1.09858	0.272833
MLC1.Q15049	-0.092311	0.110525	-0.83521	0.403998	-0.19935	0.290942	-0.68517	0.493747	-0.10514	0.086409	-1.21677	0.224617
PFN2.P35080	-0.116391	0.139406	-0.83491	0.404167	0.221718	0.338062	0.65585	0.512407	0.102363	0.100469	1.018845	0.309071
NBL1.E5RFZ1	-0.11168	0.133848	-0.83438	0.40458	0.485745	0.365387	1.329397	0.184979	-0.01508	0.107971	-0.13964	0.889063
CIZ1.F5H2X7	-0.11667	0.139802	-0.83454	0.404661	0.275288	0.369086	0.745864	0.456696	-0.1672	0.112247	-1.48954	0.138047
CPT1C.Q8TCG5	0.1526934	0.183152	0.833697	0.404847	-0.63486	0.464594	-1.36648	0.17278	-0.00529	0.138624	-0.03819	0.969557
RNF157.Q96PX1	0.1267367	0.15206	0.833464	0.405025	-0.02328	0.396886	-0.05865	0.953273	-0.0561	0.114177	-0.49131	0.6236
DCHS1.Q96JQ0	-0.082121	0.098534	-0.83343	0.40508	-0.24794	0.23746	-1.04412	0.297405	0.037143	0.071197	0.52169	0.602334
DPM1.H0Y368	-0.167861	0.20157	-0.83277	0.405369	0.252983	0.504958	0.500998	0.616728	-0.33354	0.149078	-2.23738	0.025972
NYAP2.Q9P242	-0.164254	0.197291	-0.83254	0.405503	0.155513	0.502488	0.309486	0.757164	-0.03615	0.149828	-0.2413	0.809486
PTPRM.P28827	-0.135506	0.162763	-0.83254	0.405506	-0.2706	0.410523	-0.65917	0.510284	0.041959	0.123275	0.340373	0.73381
CHORDC1.Q9UHD1	0.0959709	0.115296	0.832391	0.405583	-0.22859	0.291465	-0.78427	0.433481	0.157614	0.086329	1.825746	0.06885
ATRNL1.Q5VV63	-0.131561	0.15807	-0.8323	0.405636	-0.13779	0.398443	-0.34582	0.729715	0.319483	0.117156	2.726991	0.006755
DACT3.Q96B18	-0.099973	0.12013	-0.83221	0.405686	-0.1891	0.332052	-0.56948	0.569441	-0.30115	0.09734	-3.09377	0.002156
RPL39.P62891	-0.11031	0.132525	-0.83237	0.405772	-0.15204	0.344116	-0.44184	0.659046	-0.13188	0.101222	-1.30284	0.194012
GRWD1.Q9BQ67	0.1433186	0.172248	0.83205	0.405775	-0.07737	0.45096	-0.17156	0.863892	0.10161	0.134035	0.758085	0.448976
LARP4.Q71RC2	0.1494454	0.179545	0.832355	0.405853	-0.20902	0.462007	-0.45241	0.651483	-0.11492	0.135989	-0.84505	0.399138
ARHGAP25.P42331.4	-0.098782	0.118754	-0.83182	0.405938	0.064329	0.294456	0.218468	0.827219	-0.03601	0.08837	-0.40752	0.68393
CAMK2G.Q13555	-0.077147	0.092748	-0.83178	0.405944	0.556891	0.238181	2.338101	0.020048	-0.10661	0.07022	-1.51822	0.130026
SEPP1.P49908	0.0949816	0.114176	0.831891	0.405983	-0.43143	0.291091	-1.4821	0.139603	0.088491	0.086898	1.018334	0.309528
CDC73.Q6P1J9	0.1345081	0.161836	0.831141	0.406288	-0.31163	0.371844	-0.83806	0.40264	0.155461	0.11039	1.408288	0.160048
RIN2.Q8WYP3	0.0950637	0.11438	0.831123	0.406451	-0.17674	0.269841	-0.65499	0.513161	0.096434	0.077936	1.237357	0.217273
CCDC120.Q96HB5.4	0.1182995	0.14239	0.830815	0.40649	-0.01317	0.374946	-0.03514	0.971994	0.030174	0.113115	0.266758	0.78984
PEX10.O60683	0.1253445	0.150873	0.830794	0.406616	-0.41325	0.368995	-1.11994	0.263857	0.062605	0.116324	0.538196	0.590941
ACP2.P11117	-0.141351	0.170263	-0.83019	0.406835	0.574396	0.429428	1.337582	0.182046	-0.00177	0.127209	-0.01389	0.988927
SLAIN1.A0A0A0MSS3	0.0980312	0.118074	0.830255	0.406886	-0.44422	0.335201	-1.32523	0.186301	-0.20864	0.098296	-2.12254	0.034771
PHKG2.J3KNN3	0.1421582	0.171316	0.829803	0.407043	0.580515	0.456191	1.272525	0.20414	0.268038	0.135208	1.982408	0.048316

ABCA2.A0A087WXK5	0.1407674	0.16983	0.828875	0.407568	-0.46244	0.433164	-1.06757	0.286543	0.194079	0.128624	1.508886	0.132346
EPHB2.P29323.3	0.2151365	0.259724	0.828326	0.407878	-0.29358	0.66482	-0.44159	0.659091	0.355049	0.196804	1.804073	0.07219
PPP3R1.D3YTA9	-0.013143	0.015867	-0.82833	0.40804	0.00061	0.039224	0.015562	0.987598	0.005021	0.011347	0.442471	0.658593
FUNDC1.Q8IVP5	-0.075974	0.091748	-0.82807	0.408087	0.295042	0.197118	1.496777	0.135606	-0.10785	0.055218	-1.95314	0.051825
X0.P01613	-0.047902	0.057848	-0.82807	0.408167	0.177087	0.148845	1.189746	0.235417	0.009732	0.043715	0.222615	0.82404
LRCH2.Q5VUJ6	-0.148105	0.17888	-0.82796	0.408216	-0.07577	0.477502	-0.15868	0.874056	-0.10263	0.140711	-0.72937	0.466495
SURF1.Q15526	-0.082222	0.099344	-0.82765	0.408258	-0.20494	0.250997	-0.81651	0.414834	-0.06751	0.074649	-0.90435	0.366514
TCF4.H3BTP3	0.0850842	0.102824	0.827476	0.408378	-0.08354	0.259588	-0.32184	0.747809	-0.10673	0.075341	-1.41658	0.15768
IGSF21.Q96ID5	0.1852356	0.22391	0.827277	0.408472	-0.38781	0.567344	-0.68355	0.494773	-0.17874	0.168597	-1.06015	0.289904
KLC1.Q07866.7	-0.219411	0.265237	-0.82723	0.408499	-0.49297	0.692866	-0.71149	0.477317	-0.08575	0.206226	-0.4158	0.677845
NFKBIE.O00221	0.1097923	0.132686	0.827459	0.408838	0.232362	0.392704	0.591699	0.555096	-0.02602	0.101706	-0.25585	0.798475
RPS3A.P61247	-0.259148	0.313558	-0.82647	0.408926	-1.78458	0.824542	-2.16433	0.031202	0.073565	0.247098	0.297716	0.766119
CD47.Q08722.4	0.0721955	0.087314	0.826853	0.408961	0.211882	0.252329	0.839705	0.402123	0.48083	0.069306	6.937759	6.01E-11
SH3PXD2A.Q5TCZ1	-0.283486	0.343246	-0.8259	0.409253	-1.33481	0.889407	-1.50079	0.134427	0.259361	0.265133	0.978229	0.328724
FGFR1OP.O95684	0.1274167	0.154254	0.826021	0.409417	-0.6632	0.391818	-1.69261	0.092094	0.032621	0.119472	0.273046	0.785101
ZFYVE21.Q9BQ24.2	-0.153002	0.185375	-0.82536	0.409556	-1.1803	0.454123	-2.59908	0.009794	-0.08775	0.136467	-0.64301	0.52069
SFXN1.Q9H9B4	-0.229597	0.278219	-0.82524	0.409626	0.891779	0.726312	1.227818	0.220447	0.085415	0.216535	0.394463	0.693511
SLC2A5.P22732	-0.069023	0.083646	-0.82519	0.409656	-0.15959	0.226438	-0.70481	0.48146	0.019092	0.067406	0.283244	0.777179
NUP35.Q8NFH5	0.1489633	0.18055	0.825053	0.409756	-0.47536	0.451538	-1.05276	0.29332	-0.5943	0.129244	-4.59829	6.35E-06
HYI.Q5T013	0.1060059	0.128543	0.824675	0.409946	-0.47393	0.324533	-1.46035	0.145206	0.158332	0.096456	1.641499	0.101708
PPIE.Q9UNP9	0.1305811	0.158397	0.824389	0.410115	0.125619	0.459441	0.273417	0.784718	0.277458	0.136853	2.027412	0.043492
RABL6.Q3YEC7	-0.24715	0.299812	-0.82435	0.410131	0.418472	0.778888	0.537268	0.591468	-0.28768	0.231237	-1.24411	0.214398
RBM10.A0A0A0MR66	0.1734957	0.210472	0.824318	0.410149	-0.37449	0.500308	-0.74853	0.45471	-0.24641	0.148308	-1.66146	0.097631
PSAT1.Q9Y617	0.1138233	0.138094	0.824243	0.410191	-0.41198	0.362463	-1.13662	0.256575	0.222101	0.107312	2.069679	0.039311
TRAK2.O60296	-0.107753	0.130655	-0.82471	0.410229	0.215325	0.345935	0.622445	0.534437	0.072774	0.106373	0.68414	0.494767
LDHA.P00338.3	-0.179373	0.217701	-0.82394	0.410364	-0.39437	0.595833	-0.66188	0.508541	0.214793	0.176955	1.213832	0.225736
ARMC10.Q8N2F6.2	-0.096994	0.117761	-0.82365	0.410585	0.009718	0.303673	0.032	0.974496	0.04125	0.089175	0.462573	0.644049
TAGLN3.A0A087WWB6	0.044045	0.053502	0.823249	0.410826	-0.28593	0.141084	-2.02665	0.043711	-0.01161	0.041054	-0.28269	0.777634
CDK17.Q00537	-0.214912	0.261141	-0.82298	0.410911	0.315718	0.629954	0.501176	0.616603	-0.17172	0.187222	-0.91718	0.35976
NAA10.P41227	-0.181313	0.220326	-0.82293	0.410935	-0.21656	0.563424	-0.38436	0.700975	-0.22258	0.167171	-1.33146	0.184015
CERS1.P27544.2	0.150697	0.183143	0.822837	0.41099	-1.21137	0.444077	-2.72783	0.006739	0.041906	0.13366	0.313528	0.75409
EXOSC1.Q9Y3B2	0.0950319	0.11551	0.822718	0.411099	-0.20478	0.278337	-0.73573	0.462512	-0.05239	0.080476	-0.65095	0.515615
DLG1.Q12959.9	-0.112463	0.136725	-0.82255	0.411153	0.071919	0.34177	0.210431	0.83347	-0.16336	0.101253	-1.61336	0.107685
MAN1A2.O60476	0.1358846	0.1652	0.822547	0.411372	-0.21693	0.462769	-0.46877	0.639772	-0.17467	0.134121	-1.30231	0.194387

XK.P51811	0.1379808	0.167821	0.82219	0.411397	-0.32461	0.424773	-0.7642	0.44539	-0.07305	0.128349	-0.56918	0.569689
VSNL1.P62760	-0.164569	0.200215	-0.82196	0.411489	-0.13614	0.514168	-0.26478	0.791357	0.064691	0.152929	0.423011	0.672581
YBX1.P67809	0.0983801	0.119722	0.821735	0.411617	-0.36433	0.312912	-1.16432	0.245191	-0.12885	0.093002	-1.38543	0.166917
ARG2.P78540	-0.078228	0.09528	-0.82103	0.412017	0.174149	0.239084	0.728403	0.466917	0.24849	0.069771	3.561514	0.000427
PSMA2.P25787	-0.259101	0.315705	-0.82071	0.4122	-0.71516	0.780885	-0.91583	0.360467	0.488539	0.230953	2.115319	0.0352
CDC23.Q9UJX2	0.2004511	0.244255	0.820665	0.412225	-0.60392	0.61822	-0.97686	0.329399	-0.02435	0.184187	-0.13223	0.894891
TSTD1.Q8NFU3.4	-0.11959	0.14573	-0.82063	0.412246	-0.66211	0.372987	-1.77516	0.076853	-0.19756	0.110954	-1.78056	0.075963
MRPS15.P82914	0.1099097	0.133947	0.820545	0.412293	0.755004	0.34382	2.195929	0.028838	0.024499	0.103063	0.237705	0.812267
HECW2.Q9P2P5	-0.234322	0.285613	-0.82042	0.412365	-0.0402	0.72582	-0.05538	0.955871	-0.08195	0.21587	-0.37962	0.70449
SYNM.A0A075B7B1	-0.019278	0.02349	-0.82068	0.412422	0.006817	0.060502	0.112673	0.910399	-0.02815	0.017943	-1.56881	0.118213
CLN5.O75503	0.0870284	0.106158	0.819799	0.412825	-0.26769	0.26331	-1.01664	0.31041	-0.01287	0.073645	-0.17473	0.861451
LSM14B.Q5TBP9	-0.084888	0.103598	-0.8194	0.412944	0.0133	0.269786	0.049298	0.960713	-0.30155	0.078408	-3.84589	0.000146
PALLD.Q8WX93	0.1050399	0.128251	0.819016	0.413164	-0.21648	0.337307	-0.64178	0.521492	-0.15703	0.100013	-1.57012	0.117406
ERI3.O43414	-0.122099	0.149115	-0.81882	0.413275	0.240943	0.39212	0.614463	0.53936	-0.12089	0.116518	-1.03755	0.300289
SBF1.O95248.4	-0.321875	0.393204	-0.8186	0.413404	-0.3916	0.954598	-0.41022	0.681924	0.379287	0.283235	1.339123	0.181512
TM9SF3.Q9HD45	0.1717034	0.209815	0.818357	0.413565	-1.01963	0.568596	-1.79324	0.073987	-0.04843	0.165063	-0.29342	0.769413
AAK1.A0A096LP25	-0.131052	0.160171	-0.8182	0.413703	-0.13155	0.410401	-0.32054	0.74882	-0.06566	0.122214	-0.53723	0.591568
KIF3B.O15066	-0.251432	0.307562	-0.8175	0.414029	-0.35941	0.789924	-0.45499	0.649436	0.402809	0.233951	1.721768	0.086109
DKAKD.Q8WVC6	-0.149082	0.182449	-0.81712	0.414249	0.462569	0.433882	1.066118	0.2872	-0.02502	0.129301	-0.19354	0.846664
ERCC2.A8MX75	0.1607955	0.196759	0.817219	0.414307	0.939395	0.559141	1.680069	0.094273	0.063271	0.168757	0.374922	0.708057
NPC2.G3V3E8	0.0996537	0.121976	0.816992	0.414319	-0.19433	0.337943	-0.57503	0.565688	0.156325	0.100193	1.560233	0.119725
HSPA8.E9PN89	-0.056312	0.068921	-0.81704	0.414379	-0.26458	0.176256	-1.5011	0.134596	0.121303	0.051689	2.346795	0.01972
C1orf35.Q9BU76	0.087053	0.10658	0.816788	0.414639	-0.57891	0.277326	-2.08748	0.038086	-0.09365	0.084122	-1.11327	0.266903
CORO1A.P31146	-0.120166	0.147193	-0.81638	0.414666	-0.4202	0.381294	-1.10205	0.271297	-0.08181	0.113555	-0.72044	0.471795
ARL2.P36404	0.1040005	0.127408	0.816278	0.414727	0.038226	0.32203	0.118703	0.905587	-0.1444	0.095449	-1.51282	0.131343
LIME1.A0A087WZP9	-0.090334	0.110663	-0.8163	0.414963	0.49942	0.28876	1.729534	0.085338	-0.10485	0.091912	-1.14081	0.255385
ANAPC1.Q9H1A4	-0.154211	0.189059	-0.81568	0.415097	0.127278	0.521349	0.244132	0.807299	0.065849	0.156145	0.421721	0.673537
DIAPH2.A6NML8	-0.155897	0.191169	-0.81549	0.415176	0.11015	0.504585	0.218298	0.827341	0.108501	0.14999	0.723385	0.469989
SCAP.Q12770	0.1188977	0.145816	0.815396	0.415257	0.178066	0.416055	0.427986	0.668976	0.26185	0.122542	2.136818	0.033441
RABGAP1L.Q5R372.8	-0.248102	0.30448	-0.81484	0.415548	-0.09033	0.761689	-0.11859	0.905676	-0.26847	0.226081	-1.18748	0.235946
TSPAN5.P62079	0.1362369	0.167177	0.814928	0.415577	-0.09956	0.472963	-0.2105	0.833443	0.30424	0.136424	2.230113	0.026607
STAMPB.O95630	0.2327455	0.285659	0.814768	0.41559	0.499036	0.768619	0.649264	0.516649	0.076704	0.228765	0.335297	0.737628
HSPA9.P38646	-0.186147	0.228514	-0.8146	0.415689	-0.64276	0.602884	-1.06614	0.287191	0.10156	0.179583	0.565534	0.57212
COG7.P83436	0.197776	0.242792	0.814591	0.415691	0.049231	0.605914	0.081251	0.935294	-0.19894	0.179896	-1.10589	0.269633

IQGAP2.Q13576	0.0795873	0.097675	0.814816	0.415712	0.059541	0.274261	0.217096	0.828329	0.020159	0.081856	0.24627	0.805697
AIFM3.Q96NN9.2	-0.115438	0.1417	-0.81466	0.415897	-0.17684	0.383389	-0.46125	0.645154	0.086399	0.111507	0.774829	0.43942
RDH11.Q8TC12	0.1682746	0.206682	0.81417	0.415932	-1.05463	0.527611	-1.99888	0.046494	0.432712	0.15604	2.773092	0.005889
CCDC91.Q7Z6B0	0.2046215	0.251351	0.814088	0.415979	0.486791	0.67782	0.718172	0.473192	0.003064	0.201807	0.015182	0.987897
TMED2.Q15363	-0.123606	0.15194	-0.81352	0.416305	0.448302	0.38566	1.162428	0.245956	0.015837	0.114973	0.137747	0.89053
KIAA1468.Q9P260.2	-0.262348	0.322704	-0.81297	0.416621	1.032533	0.860239	1.200287	0.230944	-0.30496	0.255914	-1.19164	0.234313
URB2.Q14146	-0.181013	0.222839	-0.8123	0.417129	-0.47261	0.578757	-0.81659	0.414977	0.2514	0.173712	1.447226	0.14915
SRSF7.Q16629	0.1759637	0.216774	0.811739	0.417324	-0.51967	0.497743	-1.04405	0.297276	0.031625	0.148319	0.21322	0.831296
KBTBD3.Q8NAB2	-0.109439	0.135048	-0.81037	0.418108	0.502322	0.333532	1.506071	0.133067	-0.06865	0.099506	-0.68989	0.490782
POLR2C.P19387	0.1274395	0.157261	0.810369	0.418111	0.826652	0.381283	2.168082	0.030913	-0.10115	0.114137	-0.88619	0.376201
RPS4X.P62701	0.2467461	0.304486	0.810369	0.418111	-1.543	0.802706	-1.92225	0.055491	-0.36316	0.239323	-1.51745	0.130172
BLOC1S5.TXNDC5.Q86UY0	0.2018585	0.249156	0.810169	0.418225	0.141045	0.63071	0.223628	0.823194	0.126593	0.187502	0.675155	0.500081
LPCAT3.Q6P1A2	0.1005663	0.124264	0.809297	0.418758	-0.37708	0.314414	-1.1993	0.231395	0.089724	0.096002	0.934601	0.350774
HIST2H2AC.Q16777	0.0198343	0.024512	0.809157	0.418877	-0.096	0.063301	-1.51655	0.130596	-0.00791	0.017938	-0.44104	0.659548
STK24.Q9Y6E0	-0.283597	0.350579	-0.80894	0.418932	-0.71812	0.90078	-0.79722	0.425932	-0.32659	0.267599	-1.22045	0.223223
ATPAF1.I3L448	-0.198312	0.245324	-0.80837	0.419259	0.974124	0.688448	1.414955	0.158085	-0.15956	0.205262	-0.77733	0.437554
HPS4.Q9NQG7	-0.121447	0.150196	-0.80859	0.419284	0.494864	0.349843	1.414532	0.158594	0.077477	0.10249	0.755945	0.450476
HIBADH.P31937	-0.162485	0.201054	-0.80816	0.419377	-0.05708	0.535993	-0.1065	0.915256	0.052961	0.159423	0.332202	0.739961
RAB3GAP2.Q9H2M9	-0.244267	0.302493	-0.80751	0.419751	-1.2811	0.780909	-1.64053	0.10191	0.386276	0.232279	1.662983	0.097327
SRPK2.P78362	0.2059321	0.255097	0.807271	0.419891	-0.58457	0.670766	-0.8715	0.384155	-0.23251	0.199348	-1.16634	0.244374
FBXW11.Q9UKB1	0.1183945	0.14667	0.807216	0.419935	-1.06389	0.542403	-1.96145	0.050743	0.19869	0.1638	1.213007	0.226072
DTNBP1.Q96EV8	-0.10452	0.12954	-0.80685	0.420133	0.260847	0.345119	0.755819	0.450332	-0.21436	0.102038	-2.1008	0.036466
GTF2F1.P35269	-0.107513	0.133268	-0.80674	0.420203	-0.11265	0.367228	-0.30676	0.759233	-0.28695	0.108267	-2.65035	0.00846
CDK4.P11802	-0.127063	0.157532	-0.80659	0.42033	0.11543	0.400424	0.288269	0.773356	-0.01885	0.119439	-0.15786	0.874681
DDX58.O95786	0.07467	0.092592	0.806442	0.420368	-0.42225	0.245259	-1.72163	0.086133	0.137591	0.07289	1.887646	0.060007
PAWR.Q96I20	0.0954041	0.11829	0.80653	0.420396	0.485531	0.305006	1.591873	0.112647	-0.125	0.090678	-1.37848	0.16926
ORC4.O43929	0.12553	0.155764	0.805897	0.420738	-0.46599	0.391286	-1.19093	0.234733	-0.03217	0.113741	-0.28281	0.777542
GLOD4.Q9HC38.2	0.1896444	0.235426	0.805539	0.420889	0.132267	0.605239	0.218536	0.827155	0.148606	0.179864	0.826212	0.409319
MAP2K3.P46734	-0.119175	0.147967	-0.80542	0.421027	0.260288	0.412318	0.631279	0.528408	0.321024	0.121207	2.648553	0.008574
CLNS1A.P54105	-0.179554	0.223061	-0.80496	0.421238	-0.56553	0.59612	-0.94869	0.343551	0.242457	0.173198	1.399887	0.162591
NEU3.Q9UQ49	-0.143627	0.178511	-0.80458	0.421441	0.375573	0.463906	0.809589	0.418797	-0.01995	0.138145	-0.1444	0.885279
CCZ1.P86790	0.2369418	0.294647	0.804154	0.421687	0.422158	0.718496	0.587557	0.557257	0.278844	0.213272	1.307458	0.192026
HMGCLL1.Q8TB92	-0.096601	0.120317	-0.80288	0.422431	0.629137	0.343981	1.828987	0.068394	-0.23011	0.101292	-2.27178	0.023807
COG1.Q8WTW3	0.1541606	0.192039	0.802757	0.422493	-0.32449	0.475282	-0.68273	0.495288	0.245531	0.140805	1.743763	0.082192

DPP6.P42658.2	0.0606309	0.075564	0.802381	0.422711	0.147231	0.190008	0.77487	0.439007	-0.0077	0.056577	-0.13612	0.891817
CNOT10.Q9H9A5	0.2412208	0.300709	0.802174	0.42283	0.072377	0.714	0.101368	0.919324	0.296918	0.211735	1.402307	0.161824
SCN4B.Q8IWT1	0.0498931	0.062202	0.802119	0.422862	0.187724	0.16564	1.133326	0.257953	0.029061	0.049349	0.588885	0.556367
GBA.P04062	-0.141546	0.176479	-0.80206	0.422899	0.185234	0.464037	0.39918	0.690036	-0.01376	0.138076	-0.09967	0.920671
ATN1.P54259	-0.134897	0.168327	-0.8014	0.423365	0.648063	0.467602	1.385929	0.166984	0.119587	0.141348	0.846046	0.398323
PKP4.Q99569	-0.305947	0.381861	-0.8012	0.423395	-0.04897	1.026922	-0.04769	0.961998	-0.96694	0.300515	-3.21762	0.001429
EIF4G3.A0A0A0MSA7	-0.218635	0.273092	-0.80059	0.423746	0.565459	0.722831	0.782285	0.434644	-0.31984	0.214474	-1.4913	0.136899
DENND5B.G3V1S3	0.0910755	0.1138	0.800312	0.42392	-0.12684	0.28869	-0.43936	0.660713	-0.0354	0.085523	-0.41393	0.679224
RNF123.Q5XPI4	0.240541	0.300641	0.800093	0.424034	2.271562	0.859792	2.64199	0.00866	0.799661	0.254617	3.140637	0.001848
IL1RAPL1.Q9NZN1	-0.166482	0.208148	-0.79982	0.42419	0.607059	0.51232	1.18492	0.236957	-0.01701	0.152748	-0.11136	0.9114
LRRFIP1.Q32MZ4.3	-0.139516	0.174483	-0.7996	0.42432	0.112062	0.437117	0.256365	0.797839	0.023393	0.130042	0.179888	0.857358
SLC12A9.Q9BXP2	0.1577186	0.197277	0.799476	0.424403	-0.42761	0.527099	-0.81125	0.417858	-0.33425	0.157538	-2.1217	0.034672
LIN7B.Q9HAP6	-0.179157	0.22417	-0.7992	0.42455	-0.61064	0.570586	-1.07019	0.285364	-0.13883	0.16987	-0.81726	0.41441
ABCC1.I3L4X2	-0.149944	0.187666	-0.79899	0.424715	0.077503	0.515197	0.150434	0.880532	0.20255	0.155047	1.30638	0.192511
STK33.Q9BYT3	-0.130096	0.162814	-0.79904	0.424825	-0.45583	0.414418	-1.09993	0.272611	-0.06226	0.131105	-0.47486	0.635373
MAP2K7.O14733	0.1876972	0.235059	0.798511	0.42495	0.023029	0.573903	0.040128	0.968017	0.273895	0.170016	1.610993	0.108199
FAM122A.Q96E09	-0.081343	0.101808	-0.79898	0.425034	0.12729	0.315153	0.403898	0.686814	0.018729	0.090256	0.207509	0.83587
CLTB.P09497	-0.014181	0.017763	-0.79839	0.425266	-0.02989	0.044637	-0.66954	0.503997	-0.00269	0.013092	-0.20573	0.83723
PAFAH1B1.P43034	0.255997	0.320873	0.797814	0.425354	-0.28083	0.806008	-0.34843	0.727757	0.245798	0.239413	1.026669	0.305377
DNM3.Q9UQ16.3	-0.240601	0.301726	-0.79742	0.425585	0.727577	0.77121	0.943422	0.3462	-0.14819	0.229596	-0.64545	0.519115
IFT122.Q9HBG6	0.1358273	0.170457	0.79684	0.425938	0.323578	0.442046	0.732	0.464748	0.006374	0.132266	0.048192	0.961596
SOS1.Q07889	0.2782372	0.349275	0.796614	0.42605	-1.32514	0.860484	-1.54	0.124582	0.476497	0.255527	1.864763	0.063159
NDUFA9.Q16795	-0.140058	0.175833	-0.79654	0.426093	0.460109	0.468811	0.981437	0.327143	-0.10691	0.139547	-0.76611	0.444191
MVB12B.Q9H7P6	0.1060878	0.133195	0.796487	0.426124	0.072755	0.329261	0.220964	0.825266	0.075998	0.097862	0.776583	0.437997
TUBG2.Q9NRH3	-0.136392	0.171343	-0.79602	0.426396	0.992359	0.446721	2.221429	0.027044	-0.04197	0.133924	-0.31338	0.754206
R3HCC1.Q9Y3T6	0.0739994	0.092961	0.796025	0.426647	0.178679	0.219193	0.815168	0.415991	0.006151	0.062229	0.098849	0.921361
PTPRK.E9PGC5	-0.096597	0.121429	-0.7955	0.426791	-0.16305	0.371315	-0.43911	0.660975	0.054111	0.108233	0.499952	0.617561
CRK.P46108.2	0.1248391	0.156927	0.795522	0.426907	-0.89517	0.420268	-2.13001	0.034431	-0.1394	0.120002	-1.16161	0.246821
DNAJC13.O75165	-0.209695	0.263781	-0.79496	0.427011	0.118173	0.69392	0.170298	0.864887	0.098944	0.206362	0.479467	0.631944
GSDMD.P57764	0.0984965	0.123883	0.795079	0.427166	-0.4081	0.345727	-1.1804	0.239286	0.086111	0.10195	0.844641	0.399352
MRPL23.Q16540	-0.101689	0.127946	-0.79478	0.427259	0.495308	0.430882	1.149522	0.251572	-0.03091	0.129971	-0.23779	0.812259
ANXA4.P09525	0.1068356	0.134481	0.794432	0.427318	-0.28671	0.345746	-0.82926	0.407594	0.228765	0.102144	2.239624	0.025824
PHYHIPL.Q96FC7	-0.180155	0.226882	-0.79405	0.427541	0.257603	0.585038	0.440318	0.660013	-0.01793	0.17409	-0.10299	0.918034
HPRT1.P00492	-0.168912	0.212729	-0.79403	0.427553	0.183154	0.547426	0.334573	0.738174	0.137676	0.162691	0.846239	0.398072

MTG1.Q9BT17	0.0770216	0.096996	0.794068	0.427635	0.299896	0.249561	1.201694	0.230601	0.004129	0.076198	0.054184	0.956831
CP.P00450	0.047548	0.059952	0.793104	0.428091	0.07335	0.145657	0.503582	0.614913	0.043619	0.043277	1.007899	0.314289
VPS35.Q96QK1	-0.145101	0.18301	-0.79286	0.428233	-0.33113	0.47067	-0.70353	0.482252	0.206239	0.139637	1.476963	0.140701
YBX3.P16989	0.0783286	0.098778	0.79298	0.428471	0.335274	0.26768	1.25252	0.212132	0.104923	0.081091	1.293891	0.19749
PPFIBP1.Q86W92	0.1621272	0.204598	0.792419	0.428489	-0.41149	0.494455	-0.83221	0.405929	0.047752	0.147231	0.324336	0.745903
DNAJC2.Q99543	0.1697589	0.214226	0.792431	0.4285	-0.43277	0.582662	-0.74274	0.458227	-0.13395	0.174671	-0.76687	0.443767
HSP90AB3P.Q58FF7	0.1589588	0.200479	0.792895	0.428503	-0.65736	0.499891	-1.315	0.190174	0.140073	0.157998	0.886547	0.376499
CCNY.Q8ND76	-0.129378	0.163309	-0.79223	0.428601	0.262031	0.457104	0.573242	0.566896	-0.41446	0.134	-3.09299	0.002162
TSPAN6.O43657	0.0783532	0.098904	0.792218	0.428692	-0.1953	0.273586	-0.71386	0.47598	0.170949	0.078479	2.178282	0.030324
PNPLA6.M0R2H4	0.1568509	0.197979	0.792262	0.428808	-0.0785	0.527063	-0.14893	0.881773	0.111217	0.158563	0.701405	0.483951
ETHE1.O95571	-0.133716	0.168939	-0.79151	0.42902	-0.05758	0.436236	-0.13198	0.895083	0.193	0.129312	1.492508	0.136583
PTMS.P20962	0.0927682	0.117211	0.791466	0.429044	-0.09938	0.277913	-0.35761	0.720879	-0.00223	0.082691	-0.02697	0.978501
STUB1.Q9UNE7	-0.231331	0.292419	-0.7911	0.42926	0.274105	0.736647	0.372098	0.710074	-0.08666	0.219133	-0.39546	0.692778
RNF34.Q969K3	0.146778	0.185541	0.79108	0.42927	0.542211	0.446197	1.215185	0.22522	0.20355	0.132548	1.53567	0.125639
ARF3.P61204	-0.089902	0.113662	-0.79096	0.429338	0.297718	0.289478	1.028468	0.304532	-0.06874	0.086173	-0.79772	0.425642
STAMBPL1.Q96FJ0	-0.161283	0.20403	-0.79049	0.429615	0.180453	0.473468	0.381131	0.703367	0.216393	0.140344	1.541877	0.124124
TAB2.Q9NYJ8	-0.058592	0.074105	-0.79066	0.429694	-0.01354	0.224012	-0.06043	0.95187	-0.00896	0.065204	-0.13748	0.890779
UNC13C.Q8NB66	0.1333973	0.168807	0.790238	0.429761	0.234139	0.391072	0.598711	0.549803	-0.05089	0.116368	-0.43731	0.662191
TMEM143.Q96AN5	-0.155941	0.19752	-0.7895	0.430194	0.869849	0.495072	1.757015	0.079902	-0.19927	0.147573	-1.35034	0.177891
IFT140.Q96RY7	-0.12227	0.155005	-0.78881	0.43061	-0.01564	0.357967	-0.0437	0.965176	0.126644	0.106676	1.187188	0.236102
GRK4.P32298	0.0416041	0.05273	0.789007	0.430621	-0.07948	0.147712	-0.5381	0.59104	-0.03276	0.041818	-0.78336	0.43424
SPG11.Q96JI7	-0.088901	0.112712	-0.78874	0.430639	0.51208	0.296307	1.728209	0.084963	-0.05249	0.089315	-0.58773	0.557149
U2SURP.O15042	0.1859443	0.235855	0.788384	0.430843	-0.46089	0.558259	-0.82558	0.409675	-0.15559	0.16602	-0.93717	0.349402
NRXN1.E7ERL8	0.1813736	0.230272	0.787649	0.431272	-0.02055	0.580847	-0.03538	0.971802	0.042157	0.172776	0.243999	0.807393
YIPF4.Q9BSR8	-0.172069	0.21845	-0.78768	0.431407	-0.27106	0.608337	-0.44557	0.656357	-0.67592	0.17029	-3.96922	9.83E-05
PPP1R14B.Q96C90	-0.092749	0.117874	-0.78684	0.431822	-0.58107	0.284942	-2.03926	0.042416	-0.249	0.088002	-2.82944	0.00502
TAF6.P49848.3	0.1359179	0.17272	0.786928	0.431861	0.02625	0.464672	0.056491	0.955002	-0.06599	0.138198	-0.47747	0.633502
HEBP1.Q9NRV9	0.0776493	0.098729	0.786489	0.431951	-0.06364	0.252458	-0.2521	0.801134	0.043808	0.075068	0.583572	0.559933
FAXC.Q5TGI0	0.07639	0.097134	0.786436	0.432075	-0.14419	0.235128	-0.61323	0.540274	0.003726	0.072041	0.051724	0.95879
CDH5.P33151	0.1069158	0.135994	0.786183	0.432141	-0.20438	0.347926	-0.58742	0.557362	0.008853	0.102818	0.086106	0.93144
ICT1.Q14197	-0.118049	0.150175	-0.78608	0.432192	0.38122	0.367994	1.035943	0.301036	-0.02799	0.109649	-0.25531	0.798657
FCHSD2.O94868	0.1322867	0.168284	0.786093	0.432214	-0.98467	0.436919	-2.25367	0.024966	0.000804	0.13449	0.00598	0.995233
BBS7.Q8IWZ6	0.1759728	0.223899	0.785947	0.432268	0.609478	0.612458	0.995133	0.320448	-0.11285	0.182374	-0.61881	0.536495
POLR2I.P36954	0.0810676	0.103317	0.784653	0.433038	0.310025	0.272023	1.139702	0.255314	0.067362	0.081147	0.830127	0.407123

TTBK2.Q8IWY7	-0.160018	0.203955	-0.78457	0.433156	0.58832	0.573817	1.025275	0.306221	0.054627	0.168397	0.324395	0.74591
CYB5R1.Q9UHQ9	-0.115565	0.147349	-0.78429	0.433236	0.201409	0.395523	0.509223	0.610958	-0.18293	0.117251	-1.56013	0.119749
MRPL18.Q9H0U6	0.0894123	0.114029	0.78412	0.43335	0.002234	0.340134	0.006568	0.994764	-0.10921	0.098796	-1.10538	0.269888
TARS.P26639	0.2071254	0.264199	0.783976	0.433423	0.439763	0.673028	0.65341	0.513976	0.60095	0.197423	3.043971	0.002535
LZTFL1.Q9NQ48	-0.175522	0.223961	-0.78372	0.433575	0.181911	0.566716	0.320991	0.748433	-0.33941	0.167511	-2.0262	0.043601
LRRC58.Q96CX6	0.1042738	0.133016	0.783922	0.433632	0.230211	0.339593	0.677902	0.498556	-0.18876	0.102363	-1.84398	0.066549
ARHGEF7.Q14155.3	-0.167846	0.21425	-0.78341	0.433754	0.639384	0.522879	1.222813	0.222329	-0.04342	0.155903	-0.27848	0.78083
LRRC41.Q15345	0.0699062	0.089217	0.783549	0.433765	0.293593	0.24055	1.22051	0.223408	-0.01036	0.073215	-0.14152	0.887575
ADAR.P55265	0.1824766	0.232959	0.783299	0.433819	0.075233	0.590656	0.127373	0.898728	-0.40441	0.174207	-2.32146	0.02091
TMEM192.Q8IY95	0.1527422	0.195163	0.782641	0.434206	0.269103	0.483899	0.556114	0.578534	-0.4617	0.141616	-3.26023	0.001237
CDK5.Q00535	-0.178117	0.227661	-0.78238	0.434359	0.230823	0.556794	0.414558	0.678753	0.305166	0.164773	1.852036	0.064971
QTRTD1.Q9H974	0.1532943	0.195871	0.782629	0.434417	-0.02983	0.494629	-0.06031	0.951967	0.043209	0.152002	0.284268	0.776489
WDR6.A0A087X295	0.1135155	0.145106	0.782294	0.434464	0.438957	0.379459	1.156798	0.248381	0.15282	0.109338	1.397677	0.163362
RRAGC.Q9HB90	-0.180096	0.230286	-0.78206	0.434548	-0.32504	0.595341	-0.54597	0.585476	-0.0401	0.177174	-0.22634	0.821087
PSMC5.P62195	-0.243534	0.311681	-0.78136	0.434959	0.678111	0.787993	0.860555	0.390148	-0.10092	0.234624	-0.43014	0.667389
TSPYL5.Q86VY4	0.0978346	0.125265	0.781023	0.435167	-0.17277	0.318205	-0.54294	0.587568	-0.2848	0.093797	-3.03634	0.002603
GATB.O75879	-0.123384	0.157994	-0.78094	0.435204	0.097067	0.390749	0.248412	0.80398	0.084279	0.116154	0.725578	0.468645
ABCC8.Q09428	-0.154215	0.197521	-0.78075	0.435365	0.576681	0.502932	1.146638	0.252528	0.259599	0.148291	1.750607	0.081129
TSC1.Q92574	-0.261238	0.335046	-0.77971	0.435928	1.348913	0.819913	1.64519	0.100944	-0.18969	0.244735	-0.77509	0.438877
TBC1D24.Q9ULP9	-0.136174	0.174701	-0.77947	0.436069	0.343912	0.460645	0.746588	0.455878	-0.17722	0.136787	-1.29561	0.196075
SLC44A2.Q8IWA5.3	0.1196502	0.153615	0.778899	0.436405	-0.86851	0.403808	-2.15079	0.032265	-0.39885	0.11888	-3.35504	0.000892
FKBP8.Q14318	-0.174814	0.224461	-0.77882	0.436454	-0.36565	0.592904	-0.6167	0.537882	0.080126	0.176428	0.45416	0.650032
GDAP1.Q8TB36	-0.161106	0.207008	-0.77826	0.436781	-0.60961	0.538814	-1.1314	0.258762	-0.17486	0.160311	-1.09074	0.276236
MLF1.P58340	-0.095177	0.122285	-0.77831	0.436831	-0.47681	0.332087	-1.43579	0.152289	-0.28041	0.096711	-2.89948	0.004064
RNASEH2A.O75792	0.1103242	0.1417	0.778573	0.436851	-0.12376	0.373732	-0.33116	0.740895	0.034521	0.112134	0.307858	0.758533
MARCH5.Q9NX47	0.118602	0.152414	0.778159	0.436853	-0.32523	0.412015	-0.78936	0.430522	-0.0384	0.120681	-0.31815	0.750589
AGAP3.H7C4U6	-0.089989	0.115692	-0.77783	0.437085	-0.19558	0.324088	-0.60349	0.546687	-0.37976	0.090372	-4.20215	3.60E-05
PARVA.J3KNQ4	0.16325	0.210186	0.776693	0.437704	-0.13113	0.560462	-0.23396	0.815169	-0.09455	0.166656	-0.56736	0.570881
G3BP1.Q13283	0.1373153	0.176809	0.776631	0.437741	0.058253	0.478349	0.121779	0.903153	-0.4821	0.139645	-3.45232	0.000633
DCAF10.Q5QP82	0.0989515	0.127331	0.777117	0.437748	0.303996	0.348791	0.871573	0.384642	0.144946	0.096591	1.500618	0.135267
MYO1C.O00159	-0.131911	0.169882	-0.77648	0.437827	-0.18614	0.437343	-0.42561	0.670688	-0.01229	0.130138	-0.09443	0.924829
KPNA2.P52292	-0.09303	0.119808	-0.77649	0.437847	0.00974	0.321406	0.030305	0.975845	0.129079	0.094315	1.368597	0.172196
SARS2.M0QWZ7	0.1634704	0.210545	0.776415	0.437868	0.47806	0.517499	0.923789	0.356314	0.168657	0.153861	1.09617	0.273855
PLAA.Q9Y263	-0.282973	0.364643	-0.77603	0.438097	0.411697	0.987148	0.417057	0.676926	-0.09065	0.293696	-0.30864	0.757805

LYRM1.O43325	-0.122114	0.157471	-0.77547	0.438427	0.260918	0.406299	0.642181	0.52123	-0.11574	0.120768	-0.95834	0.338639
STXBP6.Q8NFX7	-0.104582	0.13487	-0.77543	0.438452	-0.16122	0.328956	-0.49009	0.624417	-0.09567	0.097746	-0.97875	0.328465
UHRF2.Q96PU4	0.092404	0.119143	0.775569	0.438557	0.280666	0.292154	0.960679	0.337818	0.061913	0.085317	0.72568	0.468843
TIMP2.P16035	0.1111664	0.143401	0.775212	0.43859	-0.34352	0.369304	-0.93019	0.353017	0.15484	0.109853	1.409517	0.159711
LPA.A0A087WWY0	0.0264548	0.034119	0.77536	0.438593	-0.00865	0.094353	-0.0917	0.927014	-0.02843	0.02696	-1.05446	0.29272
RABGAP1.Q9Y3P9	0.1315118	0.169708	0.774931	0.438744	-0.13046	0.420439	-0.31029	0.756546	-0.07705	0.125016	-0.61633	0.538128
FEM1A.Q9BSK4	-0.133504	0.172259	-0.77502	0.438881	-0.20927	0.452877	-0.46209	0.644479	-0.21905	0.144585	-1.515	0.131226
ASF1A.Q9Y294	0.1038324	0.134034	0.77467	0.438965	-0.71574	0.368673	-1.9414	0.053282	-0.12011	0.109126	-1.10063	0.272067
PTP4A3.O75365	-0.135049	0.174338	-0.77464	0.439017	0.161205	0.472505	0.34117	0.733269	0.006877	0.135693	0.050677	0.959624
BCKDK.O14874	-0.134772	0.174051	-0.77433	0.439101	-0.68751	0.451968	-1.52114	0.129244	0.088837	0.134859	0.658738	0.510553
IFIT3.O14879	0.045035	0.058168	0.774227	0.43916	-0.09256	0.148817	-0.62194	0.534439	0.028123	0.044269	0.635273	0.525719
FMR1.Q06787.8	0.1592434	0.205892	0.773431	0.43963	-0.71228	0.504966	-1.41055	0.159379	-0.30005	0.149733	-2.00392	0.045949
MOCS2.O96033	0.1370159	0.177157	0.773414	0.43964	0.53879	0.439315	1.226433	0.220966	0.082804	0.130921	0.632472	0.527545
WASF2.Q9Y6W5	0.1012964	0.130981	0.773366	0.439669	0.144489	0.327926	0.440614	0.659799	-0.00662	0.097582	-0.06785	0.945949
GSN.P06396.3	-0.040325	0.052135	-0.77349	0.439759	0.007059	0.14442	0.048877	0.961063	0.003484	0.041948	0.08305	0.93389
NTMT1.Q9BV86	0.1119068	0.144763	0.773035	0.439864	0.23538	0.360553	0.65283	0.51435	0.039989	0.107308	0.372653	0.709661
TAPBP.A2AB90	-0.071512	0.092514	-0.77299	0.439902	0.24217	0.264875	0.914277	0.361301	-0.033	0.079022	-0.41767	0.676487
EPDR1.Q9UM22	-0.089293	0.115543	-0.77282	0.439993	0.715207	0.297031	2.407852	0.01663	-0.02655	0.089171	-0.29778	0.766069
VPS8.Q8N3P4	-0.255237	0.330362	-0.7726	0.440122	0.586859	0.849812	0.690575	0.490349	-0.07025	0.252967	-0.27769	0.781433
SYNM.O15061	0.0802297	0.103858	0.772497	0.440182	-0.11718	0.267291	-0.43841	0.661395	-0.07542	0.079424	-0.94962	0.343047
TDRKH.F6TB26	0.1620476	0.21	0.771657	0.440679	1.094824	0.526968	2.077593	0.03857	-0.00497	0.157851	-0.03149	0.974895
ALDH1A3.P47895	0.0699014	0.09062	0.771366	0.440851	0.125583	0.229121	0.548107	0.584013	0.144661	0.067696	2.13692	0.033387
TAX1BP1.Q86VP1	-0.19653	0.254822	-0.77125	0.440922	0.056979	0.654693	0.087032	0.930703	0.397165	0.193451	2.05305	0.040907
TFCP2.Q12800	-0.189843	0.246487	-0.77019	0.441558	-0.2332	0.612835	-0.38052	0.703825	-0.18344	0.182369	-1.00584	0.315296
NUDCD1.Q96RS6	0.1762455	0.228864	0.770088	0.441609	0.332935	0.580592	0.57344	0.566763	0.205803	0.172412	1.193672	0.233519
RUSC1.Q9BVN2	-0.099807	0.129625	-0.76997	0.441706	0.408521	0.348584	1.171945	0.242191	0.193018	0.102991	1.874127	0.061929
HCN3.Q9P1Z3	-0.114421	0.14861	-0.76994	0.44196	-0.26703	0.452905	-0.58959	0.556188	0.031751	0.129342	0.245482	0.806357
THNSL2.Q86YJ6	0.06161	0.080077	0.769382	0.442146	-0.29888	0.224879	-1.32906	0.185101	0.017742	0.067693	0.262093	0.793476
MAN2C1.Q9NTJ4	-0.131668	0.171299	-0.76865	0.442464	-0.34675	0.47564	-0.72902	0.466539	0.146251	0.141372	1.034515	0.301702
PLXNC1.O60486	-0.116358	0.151452	-0.76828	0.44268	-0.26842	0.397141	-0.67589	0.499615	-0.22217	0.117554	-1.88993	0.059701
FAM172A.Q8WUF8	-0.175179	0.22802	-0.76826	0.442696	1.345614	0.565096	2.381211	0.017867	-0.05308	0.170636	-0.31105	0.755976
HS6ST3.Q8IZP7	0.0957928	0.124793	0.767615	0.443098	-0.09436	0.310617	-0.30378	0.761511	-0.13107	0.092378	-1.41881	0.157036
ATP2B4.P23634.2	-0.157231	0.204962	-0.76712	0.443368	-0.20627	0.51678	-0.39915	0.690057	0.124687	0.153609	0.811717	0.417577
WDR91.A4D1P6	0.2161297	0.281881	0.766742	0.443594	1.200826	0.757886	1.584441	0.114113	-0.14548	0.226218	-0.64308	0.52065

MED22.E7EN96	0.1057646	0.137897	0.766984	0.4436	-0.28459	0.387376	-0.73466	0.463328	0.250494	0.117437	2.133008	0.034032
TXNDC17.Q9BRA2	0.1340978	0.174919	0.766627	0.443662	0.331339	0.460185	0.720012	0.47206	0.133164	0.136802	0.973408	0.33111
SH3RF3.Q8TEJ3	0.0963955	0.12569	0.766929	0.443684	0.082489	0.324887	0.253899	0.799829	-0.11439	0.101408	-1.12804	0.260629
DMWD.Q09019	-0.169005	0.220477	-0.76654	0.443713	-0.26987	0.550318	-0.49039	0.624202	-0.35854	0.162502	-2.20634	0.028093
TRIM32.Q13049	-0.180466	0.235481	-0.76637	0.443815	0.267087	0.581885	0.459003	0.646554	-0.05844	0.173127	-0.33758	0.735907
TUB.E9PQR4	0.202732	0.264552	0.766322	0.443844	-0.95955	0.664361	-1.44432	0.149659	-0.2309	0.197865	-1.16693	0.244135
C16orf62.E7EWW0	0.2502318	0.326662	0.766026	0.444019	0.279714	0.81127	0.344786	0.730489	0.387636	0.240379	1.612604	0.107848
PIGT.Q969N2	0.1968774	0.257031	0.765966	0.444055	-0.98078	0.647529	-1.51465	0.13088	0.297876	0.192598	1.546618	0.122976
PIK3CA.P42336	0.2429505	0.317213	0.76589	0.4441	0.623282	0.832845	0.748377	0.4548	0.7523	0.244272	3.079769	0.002257
AGPAT9.Q53EU6	0.0813612	0.106218	0.765986	0.444146	-0.23947	0.290594	-0.82406	0.410732	0.185449	0.089323	2.076164	0.038957
GLS2.Q9UI32	-0.100369	0.131063	-0.76581	0.444151	0.341383	0.313675	1.088335	0.277293	-0.01377	0.093487	-0.14733	0.882963
AP1S1.P61966	-0.165967	0.216798	-0.76554	0.444311	-0.34023	0.531054	-0.64066	0.522214	0.009603	0.158083	0.060748	0.951599
AEBP1.Q8IUX7	-0.066771	0.087245	-0.76533	0.444488	0.169653	0.224188	0.756747	0.449874	-0.00194	0.06256	-0.03104	0.975263
NWD2.Q9ULI1	-0.146602	0.191607	-0.76512	0.444561	-0.23768	0.492279	-0.48282	0.629565	0.129333	0.146315	0.883932	0.377418
CUEDC1.Q9NWM3	-0.099011	0.129373	-0.76532	0.444592	-0.03244	0.352084	-0.09214	0.926666	-0.28482	0.100267	-2.84066	0.004923
PLCG1.P19174.2	0.2922022	0.38195	0.765027	0.444613	1.100027	0.991784	1.10914	0.26823	0.448694	0.294523	1.523464	0.128662
YTHDF2.Q9Y5A9	-0.164436	0.215014	-0.76477	0.444779	-0.31965	0.56442	-0.56634	0.571584	-0.42756	0.165463	-2.58404	0.010236
SIN3B.O75182	0.1357011	0.177414	0.764883	0.444839	0.582052	0.453923	1.28227	0.201073	0.011945	0.136692	0.08739	0.93044
ACLY.P53396.2	-0.072349	0.094571	-0.76502	0.444909	-0.01628	0.251775	-0.06468	0.948505	0.105913	0.073515	1.440702	0.151519
TMEM68.Q96MH6	-0.155449	0.203362	-0.7644	0.445054	0.376546	0.52357	0.719189	0.472661	0.028306	0.154281	0.183471	0.854569
UVRAG.Q9P2Y5	0.2782502	0.36428	0.763836	0.445323	-0.6314	0.960797	-0.65717	0.511562	0.87199	0.281699	3.095471	0.002144
ARL6IP5.O75915	-0.125725	0.164626	-0.7637	0.445404	-0.26127	0.414483	-0.63035	0.528931	0.087048	0.123281	0.706092	0.480661
ASAP2.O43150	-0.20131	0.263608	-0.76367	0.44542	0.039224	0.665316	0.058956	0.953025	-0.14742	0.197744	-0.74549	0.456541
GBP1.P32455	0.0594285	0.077825	0.763614	0.445455	-0.27609	0.205345	-1.34451	0.179766	0.065249	0.061152	1.066995	0.286804
CDC5L.Q99459	0.1482302	0.194171	0.763402	0.445581	0.453758	0.477169	0.950939	0.342376	-0.4304	0.140039	-3.07341	0.002304
UBE2E3.R4GND1	0.1032503	0.135263	0.763332	0.445623	-0.45735	0.319076	-1.43334	0.152768	-0.03703	0.09521	-0.38891	0.697609
UCK1.Q9HA47	-0.101541	0.133099	-0.76289	0.44589	0.040037	0.33661	0.118941	0.9054	-0.047	0.100326	-0.46846	0.639785
UNC13A.F8W059	-0.205152	0.268942	-0.76281	0.445933	0.08198	0.691466	0.118559	0.905701	-0.11923	0.205592	-0.57991	0.562395
LRRC16A.Q5VZK9	0.2013585	0.263975	0.762795	0.445943	-1.07332	0.686572	-1.5633	0.119002	-0.14509	0.204881	-0.70817	0.479375
TBC1D8.O95759	0.1041357	0.136488	0.762966	0.446002	0.490794	0.380384	1.290257	0.19838	0.052078	0.106507	0.488966	0.625376
MAPRE1.Q15691	0.1895721	0.248592	0.762582	0.446069	0.467291	0.64966	0.719286	0.472506	-0.32814	0.192524	-1.70439	0.089309
ERAP2.Q6P179	-0.043491	0.057075	-0.76199	0.446654	0.087998	0.141015	0.624029	0.533365	0.0928	0.044168	2.101063	0.036968
CCK.P06307	-0.078308	0.102831	-0.76152	0.446701	-0.11533	0.256019	-0.45049	0.652674	0.188565	0.07543	2.49988	0.01294
CACNA1I.Q9P0X4	0.0789959	0.103723	0.761601	0.446738	-0.16575	0.261399	-0.63409	0.526589	0.038353	0.081412	0.471093	0.637977

ELP2.Q6IA86	0.163948	0.215315	0.761435	0.446754	-0.12382	0.554587	-0.22326	0.823478	0.221473	0.164513	1.346233	0.179211
ACAT2.Q9BWD1	0.1207773	0.15869	0.761092	0.446958	-0.77395	0.417349	-1.85443	0.064627	0.300952	0.123665	2.433605	0.015514
SPTAN1.Q13813.2	-0.327027	0.429726	-0.76101	0.447005	0.430635	1.094669	0.393393	0.6943	-0.04881	0.325714	-0.14987	0.880967
TTC33.Q6PID6	0.1291953	0.169874	0.760535	0.44729	0.080531	0.414509	0.194281	0.846083	-0.04297	0.123292	-0.34853	0.727677
TMEM230.Q96A57	-0.117976	0.155125	-0.76052	0.447298	-1.33251	0.408928	-3.25855	0.001244	-0.42619	0.121323	-3.51288	0.000509
NFASC.X6RKN2	0.1755508	0.230883	0.760345	0.447404	-0.58783	0.58443	-1.00582	0.315287	0.212605	0.173722	1.223823	0.221948
TBL3.Q12788	0.1194974	0.157136	0.760472	0.447437	-0.28778	0.402481	-0.71503	0.475285	-0.01502	0.119804	-0.12536	0.900339
ARPIN.Q7Z6K5	0.1646902	0.216748	0.759823	0.447715	-0.85833	0.579585	-1.48095	0.139636	-0.30314	0.172166	-1.76072	0.079272
PRR12.Q9ULL5.3	-0.133339	0.175425	-0.76009	0.447774	0.393148	0.441931	0.889615	0.374763	-0.13062	0.136801	-0.95481	0.340851
CPS1.P31327	0.1206304	0.158891	0.759201	0.448099	0.024071	0.42977	0.056009	0.955371	0.372044	0.125494	2.964643	0.003273
ATE1.O95260	0.1477932	0.194776	0.758785	0.448671	-0.35521	0.474249	-0.74899	0.454956	0.14278	0.142015	1.005384	0.316221
RNF141.E9PLX2	0.1284259	0.16949	0.757721	0.448972	0.2511	0.432166	0.581028	0.561644	0.167086	0.128281	1.302496	0.193714
TRAF7.Q6Q0C0	-0.140513	0.185432	-0.75776	0.449006	-0.2315	0.467603	-0.49508	0.620947	0.303307	0.140595	2.15732	0.031863
ASNS.P08243	-0.068061	0.089854	-0.75746	0.449126	-0.15027	0.220754	-0.68073	0.496554	-0.05262	0.065652	-0.8015	0.423456
MTX1.A0A0A0MRK6	0.1872917	0.247297	0.757355	0.449191	0.256883	0.634272	0.405004	0.685754	0.128435	0.188594	0.681014	0.496371
MFAP3L.O75121	0.1440862	0.190114	0.757894	0.449222	0.773104	0.462089	1.673064	0.096319	-0.16843	0.138018	-1.22033	0.224183
FDX1.P10109	-0.162896	0.215262	-0.75673	0.449564	-0.06852	0.560696	-0.12221	0.90281	0.182374	0.166479	1.095477	0.274158
PIP4K2C.Q8TBX8	-0.164178	0.217072	-0.75633	0.449806	0.61474	0.505638	1.21577	0.224997	0.039243	0.15076	0.260303	0.794803
SYT16.Q17RD7	0.1649444	0.218008	0.756598	0.449856	0.584117	0.549266	1.063451	0.288879	-0.10466	0.169391	-0.61786	0.537384
X0.P80748	-0.023658	0.031284	-0.75626	0.449858	0.123371	0.07699	1.602437	0.110108	0.008446	0.022899	0.368834	0.712511
RPL5.P46777	-0.205328	0.271565	-0.75609	0.449947	-0.6218	0.707218	-0.87922	0.379964	-0.06968	0.21061	-0.33085	0.740978
IDH3B.O43837	-0.117656	0.155624	-0.75603	0.449984	0.262733	0.413238	0.635791	0.525382	-0.03988	0.12299	-0.32427	0.745954
PARP10.E9PK67	-0.131273	0.173621	-0.75609	0.450097	-0.20183	0.463668	-0.43528	0.663775	0.088413	0.136344	0.648455	0.517355
C1orf216.Q8TAB5	-0.086371	0.11426	-0.75592	0.450282	-0.4631	0.291699	-1.5876	0.114093	0.061175	0.088194	0.693643	0.488781
TXLNG.Q9NUQ3	-0.135558	0.179425	-0.75551	0.450344	0.095186	0.466023	0.204251	0.838313	0.049847	0.135624	0.367538	0.713508
UQCR11.O14957	-0.025858	0.034221	-0.75562	0.450427	-0.04061	0.091073	-0.44588	0.656177	-0.01612	0.026639	-0.60524	0.545717
MTMR2.Q13614	0.2098193	0.277822	0.75523	0.450464	-0.18157	0.716057	-0.25357	0.799996	0.20849	0.212707	0.980173	0.327765
FNTB.P49356	0.1024245	0.135635	0.755147	0.450536	0.49953	0.340174	1.468452	0.143062	0.201554	0.099666	2.022294	0.044061
SLCO2A1.E7EU40	-0.068375	0.090536	-0.75522	0.450665	-0.40729	0.25563	-1.59327	0.112655	-0.04184	0.079488	-0.52633	0.599231
TXNL4A.P83876	-0.101156	0.134008	-0.75485	0.450709	-0.15064	0.337223	-0.44672	0.655412	0.040489	0.098949	0.409193	0.682699
ATP5E.P56381	-0.126612	0.16782	-0.75446	0.450928	0.182591	0.420837	0.433875	0.664681	0.048166	0.1252	0.384712	0.700714
MYL12B.O14950	-0.151788	0.201205	-0.75439	0.450965	0.075426	0.550766	0.136948	0.891161	0.23926	0.163284	1.465304	0.143851
PIK3R4.Q99570	0.3690259	0.48952	0.753853	0.45129	0.638796	1.291929	0.494452	0.621337	-0.04621	0.384469	-0.1202	0.904402
SLC25A29.Q8N8R3	0.1309717	0.173838	0.753414	0.451582	0.564419	0.452437	1.247508	0.213232	0.202696	0.134676	1.505065	0.133411

DAP.P51397	0.065939	0.087555	0.753115	0.451732	-0.08508	0.24719	-0.34417	0.730949	-0.06716	0.07345	-0.91441	0.36121
SLC41A3.Q96GZ6.9	0.1519315	0.201795	0.7529	0.451861	-0.16112	0.520972	-0.30926	0.757332	0.447666	0.152904	2.927751	0.003667
ACAD11.Q709F0	-0.115011	0.152875	-0.75232	0.452235	-0.07988	0.390385	-0.20461	0.838018	-0.03734	0.116241	-0.32125	0.748248
MBD3.O95983	0.1337423	0.177759	0.752382	0.452237	-0.39935	0.442437	-0.90262	0.367575	0.040346	0.133548	0.302108	0.762814
KIF21A.Q7Z4S6.4	0.109763	0.145867	0.75249	0.452333	-0.27425	0.398225	-0.68869	0.49184	-0.02462	0.116473	-0.21139	0.832807
TRAPPC2.P0DI82	0.0977193	0.129942	0.752023	0.452525	0.407645	0.318679	1.279173	0.202184	0.171554	0.091888	1.866991	0.063233
STON2.HOYJ05	-0.084178	0.1119	-0.75226	0.452668	0.820039	0.316345	2.592226	0.010681	-0.15409	0.092673	-1.66273	0.098893
PLOD1.Q02809	0.1195863	0.159059	0.751837	0.452811	-0.25292	0.379801	-0.66592	0.506368	0.264867	0.119686	2.213013	0.028228
CAST.P20810.6	-0.128756	0.171387	-0.75126	0.452847	-0.03959	0.471168	-0.08401	0.933099	-0.08584	0.140081	-0.61275	0.540488
CLINT1.Q14677.3	-0.084713	0.112716	-0.75157	0.452937	0.206683	0.317603	0.650759	0.516147	-0.23426	0.083542	-2.80408	0.005679
SORCS2.Q96PQ0	-0.156253	0.208084	-0.75091	0.453054	-0.73546	0.51662	-1.4236	0.155567	-0.00764	0.154186	-0.04957	0.960499
MDC1.Q14676	0.127355	0.169639	0.750743	0.453193	0.196336	0.451381	0.434968	0.663922	-0.27933	0.129547	-2.1562	0.031923
EML1.F8W717	-0.179657	0.239348	-0.75061	0.453238	-0.3115	0.603883	-0.51583	0.606337	-0.12655	0.179578	-0.70471	0.481522
SEC61B.P60468	0.132237	0.17619	0.750535	0.453283	-0.22043	0.469591	-0.4694	0.639114	-0.00017	0.139745	-0.00121	0.999033
ICAM2.P13598	0.0718268	0.095685	0.750659	0.453344	0.242719	0.260145	0.933015	0.351835	0.025455	0.076215	0.333989	0.738706
CA4.P22748	-0.063468	0.084627	-0.74998	0.453619	-0.28161	0.219107	-1.28525	0.199663	0.032886	0.065327	0.503401	0.61504
GABRA5.P31644	-0.094132	0.125531	-0.74987	0.453682	-0.24296	0.300834	-0.80761	0.419936	-0.01611	0.089582	-0.17988	0.857361
VPS13A.Q96RL7	-0.199837	0.266531	-0.74977	0.453743	-0.59085	0.63677	-0.92788	0.354189	-0.27577	0.189043	-1.45878	0.145637
TDRD7.Q8NHU6	0.1227759	0.163775	0.749664	0.453813	-0.28846	0.453005	-0.63677	0.524755	0.084594	0.135965	0.622178	0.53429
STRN3.Q13033.2	-0.330181	0.440738	-0.74915	0.454114	-0.83825	1.156421	-0.72486	0.469082	0.524221	0.343017	1.528268	0.127466
ACTL6B.O94805	-0.114261	0.152677	-0.74839	0.454577	0.551199	0.382516	1.440982	0.150599	0.017735	0.114168	0.155342	0.876653
TMPO.P42167.2	0.04622	0.061771	0.748246	0.454667	0.119435	0.15394	0.775854	0.438431	0.017477	0.045931	0.38051	0.703829
TRAM1.Q15629	0.1050448	0.140404	0.748161	0.454818	-0.12868	0.397707	-0.32355	0.74656	-0.22775	0.114209	-1.99416	0.047281
RPL7L1.Q6DKI1	0.0998046	0.133428	0.748006	0.454888	-0.39481	0.317491	-1.24355	0.214822	-0.01428	0.090101	-0.15845	0.874227
S100A13.Q99584	0.0583074	0.077977	0.747753	0.454958	-0.14403	0.204035	-0.70593	0.480763	-0.08115	0.06057	-1.33976	0.181305
MCCC1.Q96RQ3	0.135981	0.181875	0.747661	0.455013	0.612511	0.504081	1.215104	0.225251	-0.1075	0.150188	-0.71578	0.474665
C14orf142.Q9BXV9	-0.130867	0.175069	-0.74752	0.455137	-0.43085	0.455442	-0.94601	0.344946	-0.31358	0.135055	-2.3219	0.020945
KCNA4.P22459	0.1334001	0.178541	0.747168	0.455311	-0.26526	0.457432	-0.5799	0.562407	0.332921	0.134832	2.469143	0.014082
BNIP3.B4DHJ7	-0.101599	0.136002	-0.74704	0.455386	0.134998	0.361703	0.373227	0.709234	-0.31752	0.106103	-2.99253	0.002989
CEP290.J3KNF5	0.0527618	0.07066	0.746703	0.455634	0.17058	0.167265	1.019821	0.308713	0.002426	0.048508	0.050002	0.960157
MYO1B.E9PDF6	-0.13144	0.176046	-0.74662	0.455638	-0.17453	0.449636	-0.38816	0.698162	-0.33411	0.132439	-2.52276	0.012144
UBE2F.Q969M7	0.2143039	0.287117	0.7464	0.455774	-0.34927	0.772591	-0.45207	0.651533	0.432166	0.228594	1.890542	0.059618
RPL7A.Q5T8U3	0.0744567	0.099764	0.746328	0.455936	-0.32385	0.240838	-1.34468	0.18003	-0.00167	0.072976	-0.02288	0.981762
ORAI2.Q96SN7	0.1340726	0.17973	0.745966	0.456307	-0.02245	0.419284	-0.05355	0.957353	0.224819	0.120995	1.858081	0.064773

APLP1.P51693.2	-0.131029	0.175631	-0.74605	0.456336	0.056752	0.48374	0.117319	0.906768	0.168396	0.134941	1.247929	0.214041
DUS2.Q9NX74	-0.105701	0.141795	-0.74545	0.456426	0.645705	0.41417	1.559035	0.120248	-0.16017	0.121238	-1.32114	0.187659
COQ5.Q5HYK3	-0.128472	0.172458	-0.74495	0.45665	0.3655	0.474601	0.770122	0.441814	0.044605	0.141298	0.315678	0.752459
CCBL2.Q6YP21	-0.052036	0.069881	-0.74463	0.456843	-0.02654	0.185206	-0.14329	0.886153	-0.04908	0.055027	-0.89185	0.373164
EML5.Q05BV3.5	-0.091326	0.122646	-0.74462	0.457026	0.439101	0.33994	1.291701	0.197881	-0.08486	0.102512	-0.82784	0.408703
SLC24A2.Q9UI40	-0.105185	0.141321	-0.7443	0.457045	-0.01363	0.344358	-0.03958	0.968451	0.164609	0.102013	1.613605	0.107631
CHMP7.Q8WUX9	-0.197484	0.26548	-0.74388	0.457297	0.962604	0.655319	1.46891	0.142871	0.096542	0.195546	0.493706	0.621863
PRRC2A.P48634	0.1524694	0.205026	0.743659	0.457429	0.339502	0.51208	0.662986	0.507832	-0.29036	0.151548	-1.91595	0.056291
TTL.Q8NG68	-0.114299	0.153711	-0.7436	0.457478	-0.25938	0.418508	-0.61978	0.535879	0.009183	0.121888	0.075343	0.939992
NXN.Q6DKJ4	-0.117612	0.158216	-0.74337	0.457624	-0.10116	0.43243	-0.23393	0.815202	0.09143	0.129897	0.703862	0.482068
PLEKHA4.Q9H4M7	0.0685754	0.092232	0.743511	0.457805	-0.05724	0.24117	-0.23736	0.812659	0.038587	0.066105	0.583722	0.560172
PSIP1.O75475	0.0920858	0.123983	0.742728	0.457992	-0.09693	0.325615	-0.29767	0.766154	-0.45688	0.093339	-4.89489	1.58E-06
CDC42.P60953	0.1708378	0.230179	0.742194	0.458315	0.613236	0.592918	1.034269	0.301816	-0.10961	0.176577	-0.62074	0.535227
RPS25.P62851	-0.153895	0.207393	-0.74205	0.458405	-0.73531	0.623235	-1.17983	0.238973	-0.40184	0.18441	-2.17907	0.030079
EPHB1.P54762	-0.122366	0.164999	-0.74162	0.458665	-0.38224	0.422506	-0.9047	0.366328	0.138162	0.125609	1.099941	0.272211
OXA1L.S4R3Q9	-0.13762	0.185609	-0.74145	0.458766	-0.31218	0.484496	-0.64433	0.519837	-0.06172	0.144183	-0.4281	0.668876
COX41.P13073	-0.123002	0.165917	-0.74135	0.458828	0.744643	0.433243	1.718763	0.086656	0.016211	0.129492	0.125193	0.900452
STAU1.O95793	-0.237492	0.320371	-0.7413	0.458855	-1.20666	0.813137	-1.48395	0.138837	-0.10471	0.242679	-0.4315	0.666408
UBE2A.P49459	0.1444274	0.194775	0.741509	0.458876	-0.78607	0.531124	-1.48001	0.140329	0.302621	0.158257	1.912213	0.057172
F11R.Q9Y624	0.1388952	0.187463	0.74092	0.459149	-0.46681	0.517648	-0.90179	0.367999	0.234692	0.151626	1.547835	0.122874
MANEAL.Q5VSG8	0.1005799	0.135773	0.740796	0.459307	-0.15369	0.348562	-0.44092	0.659692	-0.25278	0.10928	-2.31317	0.021612
SCO2.O43819	0.1040274	0.1405	0.740409	0.459397	0.251988	0.354638	0.710551	0.477897	-0.06213	0.105525	-0.58872	0.556477
CD59.E9PR17	0.0948105	0.128093	0.740166	0.459544	-0.10594	0.322353	-0.32864	0.742647	0.076684	0.095812	0.800359	0.424116
APBB2.Q92870	0.0969211	0.130896	0.740441	0.459625	-0.08161	0.350576	-0.23278	0.816198	-0.16712	0.097961	-1.70598	0.089757
AIFM1.O95831	-0.199367	0.269509	-0.73974	0.4598	0.878819	0.746926	1.176582	0.240265	0.00725	0.222693	0.032556	0.974049
TRIM47.Q96LD4	-0.079926	0.108066	-0.7396	0.459884	0.058027	0.293359	0.197803	0.843329	-0.07586	0.087168	-0.87028	0.38482
SRGAP3.O43295	0.1290223	0.174371	0.73993	0.46001	0.285682	0.510603	0.559499	0.576584	0.15911	0.150347	1.058286	0.291481
PYGL.P06737	0.0853489	0.115439	0.73934	0.460045	-0.30157	0.303461	-0.99377	0.321108	0.114707	0.090183	1.271936	0.204349
CISD3.POC7P0	0.0570636	0.077193	0.739235	0.460108	-0.45489	0.200754	-2.26588	0.024148	-0.06007	0.060117	-0.99926	0.318448
PMM2.O15305	0.1057041	0.142991	0.739236	0.460119	-0.1887	0.369341	-0.51091	0.609786	0.170077	0.110123	1.544424	0.123536
AGPS.O00116	0.2236888	0.30312	0.737955	0.460885	-1.36493	0.816459	-1.67177	0.095578	0.47392	0.242485	1.95443	0.051549
RUNDC1.Q96C34	-0.113296	0.153532	-0.73793	0.461134	1.10679	0.433978	2.550335	0.011568	0.141876	0.133969	1.059021	0.290963
WDR48.Q8TAF3	0.2925338	0.39674	0.737344	0.461256	1.976438	1.035391	1.908881	0.057201	0.536109	0.308316	1.738832	0.083057
TEX264.Q9Y6I9	-0.122167	0.165699	-0.73729	0.461292	-0.25321	0.43054	-0.58811	0.556885	-0.09935	0.128025	-0.77601	0.438334

FUCA1.P04066	-0.096746	0.131248	-0.73712	0.46139	-0.12185	0.324387	-0.37564	0.70744	-0.11167	0.096313	-1.15943	0.247174
RYR2.Q92736.2	-0.204777	0.277829	-0.73706	0.461429	0.593648	0.675911	0.878293	0.380465	0.001041	0.201322	0.005169	0.995879
IGFBP4.P22692	-0.101076	0.137116	-0.73716	0.461548	0.389454	0.355622	1.095135	0.274749	0.038763	0.101782	0.380842	0.703717
AHSG.C9JV77	0.0403059	0.054731	0.736433	0.46181	-0.13452	0.133466	-1.00786	0.314308	0.0671	0.039586	1.695061	0.091068
LSM14A.Q8ND56	-0.100486	0.136471	-0.73632	0.46188	-0.4014	0.36978	-1.08551	0.278537	-0.70736	0.102629	-6.89238	3.08E-11
SORL1.Q92673	-0.157995	0.214689	-0.73593	0.462117	-0.20049	0.552207	-0.36306	0.716806	0.106228	0.164196	0.646959	0.518137
ZMIZ1.Q9ULJ6	0.163045	0.221546	0.735941	0.46212	-0.869	0.609199	-1.42647	0.15477	-0.04659	0.182375	-0.25547	0.798536
LRRTM3.Q86VH5	-0.118351	0.160879	-0.73565	0.462284	-0.21616	0.383234	-0.56404	0.573134	0.054085	0.114022	0.474335	0.635595
RUVBL2.Q9Y230	0.2118555	0.288184	0.735141	0.462596	0.021815	0.751512	0.029028	0.976861	0.321222	0.222816	1.441644	0.150412
NIPSNAP3A.Q9UFN0	0.056264	0.076565	0.734853	0.462771	0.039059	0.193215	0.202155	0.839928	0.04265	0.057431	0.742631	0.458267
SCYL2.Q6P3W7	0.1953806	0.26594	0.734681	0.462876	-0.07906	0.68565	-0.11531	0.908272	0.303196	0.203245	1.491778	0.136774
SEPT2.C9IY94	0.0408917	0.055646	0.734858	0.462945	0.033488	0.180871	0.185148	0.853296	-0.02111	0.052284	-0.40375	0.686816
NCK2.O43639	-0.242123	0.329872	-0.73399	0.463294	-0.20344	0.82642	-0.24618	0.805709	0.247484	0.245467	1.008217	0.314136
GNB2L1.P63244	-0.227454	0.309948	-0.73385	0.463383	-0.98562	0.807296	-1.22089	0.223057	-0.17769	0.240521	-0.73879	0.460595
GDE1.Q9NZC3	0.1122478	0.153028	0.733512	0.463587	0.341259	0.405815	0.840922	0.40104	0.165532	0.120494	1.373774	0.170505
IGHG1.A0A087WYC5	-0.026785	0.036531	-0.73321	0.46377	0.04607	0.094138	0.48939	0.624911	0.036931	0.027936	1.321952	0.187159
PPP6R2.O75170.5	0.2642288	0.360416	0.733122	0.463825	0.524332	0.937428	0.559331	0.57634	-0.70402	0.276129	-2.54961	0.011265
PSMD2.Q13200	0.2758285	0.376304	0.732994	0.463903	-1.07927	0.978001	-1.10355	0.270645	0.271477	0.291101	0.932588	0.351758
PITPNA.Q00169	-0.178407	0.243632	-0.73228	0.464339	-0.04399	0.61938	-0.07102	0.943424	0.122955	0.184124	0.667784	0.504768
RALGAPA2.Q2PPJ7	-0.100879	0.137704	-0.73258	0.464418	0.636077	0.370906	1.714927	0.088119	0.267559	0.113414	2.359131	0.019414
MPP7.Q5T2T1	0.2034453	0.277936	0.731987	0.464517	0.053256	0.697031	0.076404	0.939147	0.512878	0.2053	2.498186	0.013001
MAPKAPK2.P49137	0.1465366	0.200212	0.731909	0.464607	-1.06055	0.519891	-2.03995	0.042311	-0.09719	0.153316	-0.63393	0.526657
ASAH1.Q13510	-0.08447	0.115652	-0.73038	0.465498	0.107003	0.3025	0.353728	0.723783	0.057838	0.089947	0.643024	0.520684
FAM219A.A0A0A0MRW3	0.0664217	0.090916	0.730585	0.465588	-0.21025	0.210283	-0.99986	0.318685	-0.02346	0.065431	-0.35861	0.720295
CS.H0YIC4	0.0772252	0.105747	0.730285	0.46559	0.024146	0.267003	0.090432	0.928008	0.019059	0.078148	0.243878	0.807503
TUBB4A.M0QYM7	0.0716248	0.098139	0.729829	0.465845	0.586563	0.270039	2.172143	0.030636	0.360054	0.076414	4.711874	3.78E-06
TNIP1.Q15025	-0.081026	0.111001	-0.72996	0.465859	0.390035	0.387116	1.00754	0.314721	0.083817	0.111606	0.751003	0.453408
PCDH7.O60245	-0.175427	0.240542	-0.7293	0.466157	0.534908	0.578119	0.925257	0.355552	-0.04859	0.172195	-0.28217	0.778004
PYROXD1.Q8WU10	-0.115257	0.158043	-0.72928	0.466256	0.053067	0.394911	0.134376	0.893216	0.174476	0.114401	1.525123	0.128529
TBCE.Q15813	0.1689678	0.231755	0.729079	0.466292	0.990574	0.592111	1.672953	0.095345	-0.1088	0.176828	-0.6153	0.538809
PPP2R5C.Q13362.4	-0.175987	0.241431	-0.72893	0.466383	0.242988	0.577718	0.420599	0.674339	-0.20729	0.171506	-1.20866	0.227713
NKAIN3.Q8N8D7	0.0269339	0.036952	0.728884	0.466427	-0.0921	0.096037	-0.95898	0.338352	0.002612	0.028177	0.092689	0.926214
CCNT2.O60583.2	-0.052678	0.072296	-0.72864	0.46669	0.112256	0.234166	0.479384	0.632129	-0.27637	0.065817	-4.19902	3.86E-05
TTPAL.Q9BTX7	-0.153775	0.211122	-0.72837	0.466724	-0.66335	0.555695	-1.19373	0.233496	0.011781	0.165688	0.071102	0.943362

SEMA6A.Q9H2E6	-0.107093	0.147041	-0.72832	0.466867	0.270383	0.370162	0.730447	0.465845	-0.04523	0.112785	-0.40099	0.688792
DECR1.Q16698	-0.114303	0.156988	-0.7281	0.466891	-0.1975	0.395839	-0.49895	0.618167	-0.07052	0.117734	-0.59894	0.549649
MCAT.Q8IVS2	-0.139977	0.192297	-0.72792	0.466998	-0.23024	0.46924	-0.49066	0.624016	0.138954	0.139422	0.996644	0.319715
ARL10.Q8N8L6	0.1239657	0.170328	0.727806	0.46707	0.309514	0.429617	0.720442	0.471795	0.248136	0.127132	1.951806	0.051861
LIG4.A0A0C4DGV9	-0.117576	0.161584	-0.72765	0.467252	0.167188	0.438429	0.381334	0.703281	0.092557	0.130585	0.708788	0.479119
ISPD.A4D126	0.1718124	0.236308	0.72707	0.467521	-0.37012	0.564276	-0.65591	0.512366	0.476799	0.165781	2.87607	0.004306
ASPHD1.Q5U4P2	-0.04219	0.058036	-0.72697	0.467584	-0.10598	0.156338	-0.67789	0.498345	0.023186	0.046524	0.498363	0.618582
MAGEE1.Q9HCI5	-0.085787	0.118102	-0.72638	0.467953	-0.23207	0.301328	-0.77015	0.441814	-0.27641	0.089294	-3.09548	0.00215
CNDP1.Q96KN2	0.0498804	0.068679	0.726286	0.468	-0.02474	0.183172	-0.13509	0.892629	0.047519	0.054425	0.873102	0.383283
CHRM1.P11229	-0.108572	0.149507	-0.7262	0.468055	-0.01582	0.370914	-0.04265	0.966006	-0.10896	0.110167	-0.98904	0.323417
NDUFS2.O75306	-0.123542	0.170146	-0.7261	0.468116	0.239849	0.454368	0.527874	0.597964	0.103017	0.1351	0.762523	0.446328
TMEM127.O75204	-0.110516	0.152246	-0.7259	0.468437	-0.01364	0.406382	-0.03357	0.973253	0.190267	0.130649	1.45632	0.146865
GBP4.Q96PP9	0.0824628	0.113605	0.725874	0.468571	0.008966	0.308858	0.029031	0.976874	-0.05794	0.08406	-0.68932	0.491579
PTGR1.Q14914	0.0543658	0.074966	0.725202	0.468664	0.047422	0.192515	0.24633	0.80559	0.038233	0.057234	0.668003	0.504629
ME1.P48163	-0.099414	0.137086	-0.72519	0.468672	-0.19825	0.336093	-0.58987	0.55571	0.019783	0.100032	0.197763	0.84336
KLHL3.Q9UH77	-0.104311	0.143864	-0.72507	0.468763	-0.18504	0.378763	-0.48854	0.625527	0.005381	0.114233	0.047105	0.962461
IGKV2D.24.A0A075B6R9	-0.031055	0.042819	-0.72526	0.468806	0.042405	0.10415	0.40715	0.684316	0.024259	0.032522	0.745912	0.456563
C12orf29.Q8N999	-0.104737	0.1445	-0.72482	0.468942	0.296285	0.356394	0.831341	0.406516	-0.28177	0.103761	-2.71553	0.007044
NRSN1.Q8IZ57	-0.081577	0.112631	-0.72429	0.469225	-0.02624	0.281436	-0.09323	0.925782	0.144937	0.083318	1.739569	0.082927
DENND6B.Q8NEG7	-0.111006	0.153441	-0.72345	0.469756	0.418252	0.43487	0.961785	0.336945	-0.2619	0.128904	-2.03174	0.043076
FAM98C.Q17RN3	0.0960493	0.132769	0.723432	0.469821	-0.26126	0.353825	-0.73839	0.460949	-0.07153	0.106203	-0.67351	0.501226
PNMA3.Q9UL41	0.1075042	0.148601	0.72344	0.470007	-0.4265	0.392728	-1.08599	0.27888	-0.01591	0.12439	-0.1279	0.898363
ANK3.A0A087WVC2	0.1038761	0.143644	0.723152	0.470306	0.186983	0.411729	0.454141	0.650436	0.006007	0.120531	0.049835	0.960326
LYSMD2.Q8IV50	0.1228129	0.169988	0.72248	0.470335	-0.13558	0.469387	-0.28885	0.772889	0.104461	0.139527	0.748677	0.45462
PIP4K2B.P78356	-0.19293	0.267042	-0.72247	0.470341	0.13716	0.649235	0.211264	0.83282	0.369013	0.192009	1.921847	0.055542
CSMD1.E5RIG2	-0.176928	0.244962	-0.72227	0.470464	0.060511	0.625033	0.096812	0.922938	-0.10697	0.18584	-0.57561	0.565296
FBXO22.Q8NEZ5	0.1355646	0.187739	0.72209	0.470574	0.162334	0.513334	0.316234	0.752037	0.279762	0.151904	1.841706	0.066473
SMAP2.Q8WU79	-0.165305	0.228938	-0.72205	0.470599	0.296482	0.578654	0.512366	0.60876	-0.52031	0.169658	-3.06683	0.002354
GCHFR.P30047	-0.083051	0.115002	-0.72217	0.470666	-0.31312	0.297788	-1.05148	0.294203	0.089876	0.088437	1.016274	0.310625
PTPN5.P54829	-0.130467	0.180934	-0.72107	0.471199	-0.21471	0.423357	-0.50716	0.612404	0.041985	0.125971	0.333291	0.73914
SYK.P43405	0.0900941	0.125	0.720753	0.471458	0.200908	0.319027	0.629753	0.529401	0.149011	0.087816	1.69686	0.090902
MRPL57.Q9BQC6	-0.103454	0.143556	-0.72065	0.471479	0.160669	0.385067	0.417249	0.676806	-0.11413	0.11246	-1.01489	0.311006
BTF3.P20290	-0.143324	0.198906	-0.72056	0.471512	-0.43513	0.54002	-0.80577	0.420993	-0.83527	0.153658	-5.4359	1.11E-07
ITIH4.Q14624.2	0.0363017	0.050374	0.720643	0.471617	-0.00618	0.129281	-0.04782	0.9619	0.052698	0.036533	1.44249	0.150619

KRT2.P35908	0.0254298	0.035305	0.720291	0.47168	-0.23409	0.092424	-2.53276	0.01181	0.04694	0.027649	1.697706	0.090567
SLC25A4.P12235	-0.091245	0.12668	-0.72028	0.47169	-0.05155	0.331993	-0.15526	0.876715	0.088535	0.098638	0.897576	0.370108
RBFOX3.J3QRF4	0.1404548	0.195018	0.720214	0.471767	-0.04589	0.492557	-0.09316	0.92584	0.242867	0.142687	1.702094	0.089864
TNIK.Q9UKE5.4	-0.143161	0.198808	-0.7201	0.471799	-0.00149	0.499858	-0.00298	0.997625	-0.8776	0.140096	-6.26429	1.25E-09
ACP1.P24666.2	-0.031276	0.043438	-0.72001	0.471866	0.151442	0.112594	1.345028	0.179625	-0.01314	0.033768	-0.38907	0.697501
DOPEY2.Q9Y3R5	0.1353085	0.187955	0.719898	0.471961	0.156103	0.48787	0.319969	0.749232	0.25646	0.14421	1.778377	0.076435
UBE2K.P61086	0.1727909	0.2401	0.719663	0.472066	0.385703	0.595686	0.647494	0.517791	0.224066	0.176869	1.266852	0.206159
KCTD1.Q719H9	0.1325156	0.184153	0.719593	0.472164	0.434654	0.486435	0.89355	0.372374	0.112691	0.148027	0.761286	0.447163
ENTHD2.Q96N21.2	0.0874556	0.121576	0.719347	0.47239	0.026816	0.314133	0.085366	0.932044	0.061033	0.094105	0.648567	0.517254
HERC2.O95714	0.1799681	0.250298	0.719014	0.472465	-0.16998	0.649114	-0.26186	0.793602	0.481788	0.191173	2.520172	0.012232
MRPL13.Q9BYD1	-0.110837	0.154169	-0.71894	0.472524	0.384437	0.386585	0.994443	0.320803	-0.02497	0.115386	-0.2164	0.828824
SIKE1.Q9BRV8	-0.112685	0.15667	-0.71925	0.472531	-0.94232	0.437762	-2.15258	0.03264	0.070384	0.123986	0.567675	0.57094
CAMKV.Q8NCB2.3	0.0961614	0.133765	0.718884	0.472556	-0.33164	0.356843	-0.92937	0.353445	-0.04728	0.108083	-0.43747	0.662085
AGK.Q53H12	-0.155735	0.216671	-0.71876	0.472619	0.27407	0.557017	0.492032	0.623045	0.045996	0.165747	0.277505	0.781578
KCNIP4.Q6PIL6	-0.147315	0.204983	-0.71867	0.472679	0.423785	0.505191	0.838861	0.402194	0.067617	0.150407	0.449557	0.653344
ATXN7L3B.Q96GX2	-0.120516	0.167704	-0.71862	0.472728	0.485865	0.415552	1.169206	0.243271	-0.01213	0.124716	-0.09725	0.922597
SGSM2.O43147.2	0.0944164	0.131412	0.718474	0.472798	0.065411	0.336144	0.194592	0.84584	-0.04149	0.099975	-0.41501	0.67842
SNPH.O15079.2	-0.19907	0.277077	-0.71846	0.472805	1.083723	0.680138	1.593386	0.112093	-0.27765	0.202543	-1.3708	0.171428
UROD.P06132	-0.163457	0.227521	-0.71843	0.472827	0.078712	0.579781	0.135761	0.892098	0.263401	0.17183	1.532919	0.126316
ARIH1.Q9Y4X5	0.2162749	0.301072	0.71835	0.472874	0.446466	0.7429	0.600977	0.548294	0.916294	0.214917	4.263475	2.67E-05
ZC2HC1A.H0YAP0	-0.091019	0.126701	-0.71838	0.47291	0.278207	0.299598	0.928599	0.353935	-0.30117	0.086038	-3.50049	0.000544
JTB.O76095	0.096067	0.133708	0.718486	0.47293	-0.08253	0.370997	-0.22244	0.824178	0.060645	0.113394	0.534822	0.593315
UQCRC2.P22695	-0.176775	0.246157	-0.71814	0.473005	-0.15067	0.664417	-0.22676	0.820757	-0.20754	0.197317	-1.05179	0.293714
CACNG7.P62955	-0.138472	0.192791	-0.71825	0.473098	0.519655	0.535952	0.969593	0.333386	0.255881	0.15063	1.698741	0.090878
ALPL.P05186	-0.056811	0.079165	-0.71764	0.473314	0.02967	0.202568	0.146468	0.883647	-0.0948	0.060021	-1.57949	0.115244
SLC14A1.Q13336.2	-0.03774	0.052592	-0.7176	0.473337	0.115607	0.136459	0.847189	0.397543	-0.05692	0.040512	-1.40506	0.161004
TOMM40L.Q969M1	-0.109213	0.152244	-0.71735	0.473487	-0.0836	0.40667	-0.20558	0.837257	0.087131	0.120884	0.720784	0.471586
HNRNPK.P61978.3	0.1838942	0.256416	0.717171	0.473601	-0.06717	0.580193	-0.11578	0.907904	-0.01296	0.172599	-0.07506	0.940213
CIRH1A.Q969X6	0.136132	0.189804	0.717223	0.47367	0.09509	0.53052	0.179239	0.857902	0.218163	0.153443	1.421788	0.156397
HNRNPD.LO14979	-0.10721	0.149542	-0.71693	0.473752	-0.0328	0.395892	-0.08284	0.93403	-0.37291	0.115852	-3.21884	0.001423
WASF3.Q9UPY6.2	-0.1482	0.206765	-0.71675	0.473858	-0.54063	0.528924	-1.02213	0.307514	-0.56768	0.154277	-3.67958	0.000275
MFSD4.Q8N468	0.1224017	0.170774	0.716745	0.473864	0.139221	0.447006	0.311451	0.755667	-0.01863	0.132993	-0.14006	0.8887
ANAPC4.Q9UJX5	0.1080301	0.150749	0.716623	0.473961	0.01811	0.421832	0.042931	0.965786	0.084362	0.125072	0.674506	0.500522
TPM2.P07951.3	-0.027372	0.038198	-0.71658	0.473965	0.052478	0.093922	0.558746	0.576738	-0.05065	0.027806	-1.82152	0.069491

NUDT4.Q9NZJ9.2	0.1001546	0.139957	0.715612	0.474662	-0.1198	0.366602	-0.32679	0.744106	-0.11436	0.109544	-1.04397	0.29753
UBE2H.P62256	-0.148242	0.207219	-0.71539	0.474713	-0.22688	0.521395	-0.43513	0.663778	0.095126	0.154405	0.616081	0.538307
PHACTR2.J3KP75	0.1189342	0.166291	0.715219	0.474805	-0.1472	0.433118	-0.33986	0.73419	-0.01445	0.128866	-0.11214	0.910781
CHCHD7.Q9BUK0	-0.098828	0.13819	-0.71516	0.474841	0.514713	0.362227	1.42097	0.15633	0.062838	0.108047	0.58158	0.561272
DBNDD1.Q9H9R9	0.0430091	0.060146	0.715072	0.474906	-0.03455	0.160934	-0.2147	0.830149	0.043599	0.047611	0.91573	0.360542
OGFRL1.Q5TC84	0.1481805	0.207293	0.714836	0.475041	0.057373	0.521461	0.110023	0.912462	-0.24993	0.154478	-1.6179	0.106701
MAGI3.Q5TCQ9.3	-0.205665	0.287802	-0.71461	0.475184	0.176689	0.705221	0.250544	0.802332	-0.01682	0.20981	-0.08017	0.936153
PCYT2.Q99447	-0.18957	0.265346	-0.71443	0.475293	-0.243	0.718354	-0.33827	0.73539	0.099818	0.213662	0.467177	0.640702
SDCCAG8.Q86SQ7	0.0824274	0.115338	0.714658	0.475378	0.498386	0.350713	1.421063	0.156921	0.10996	0.110951	0.991064	0.322902
GAPDH.P04406	0.1300805	0.182152	0.714131	0.475477	0.317618	0.465586	0.682189	0.495629	0.117318	0.138447	0.847384	0.397435
TMEM168.H7C268	0.1325312	0.185552	0.714255	0.475627	0.378789	0.505505	0.749328	0.454553	0.110586	0.149168	0.741349	0.459365
UBXN6.Q9BZV1	-0.170842	0.239496	-0.71334	0.475965	-0.25508	0.672524	-0.37929	0.704736	0.014429	0.200109	0.072104	0.942566
MACF1.E9PLY5	-0.082935	0.11643	-0.71231	0.476602	-0.17259	0.303047	-0.56953	0.569407	0.153152	0.089778	1.705896	0.089029
DKC1.O60832	0.1519267	0.213405	0.711917	0.476856	0.159775	0.521743	0.306234	0.759638	-0.03225	0.155497	-0.20741	0.835829
CARHSP1.Q9Y2V2	0.0884007	0.12419	0.711817	0.476908	-0.33804	0.326288	-1.03602	0.301001	-0.18094	0.096688	-1.87138	0.062235
ACAP2.Q15057	-0.231845	0.325766	-0.71169	0.476985	-0.30672	0.809399	-0.37894	0.704989	0.166717	0.240652	0.692776	0.488969
CEP97.Q8IW35	-0.154982	0.217787	-0.71162	0.47704	0.222479	0.532391	0.417887	0.676327	-0.11152	0.158574	-0.70328	0.482425
DPY19L3.K7ELH8	0.089492	0.125734	0.711755	0.477045	0.311161	0.30301	1.026898	0.305507	-0.02925	0.092824	-0.31516	0.752913
NBEA.Q5T321	-0.275543	0.387589	-0.71092	0.477465	-0.08164	1.029748	-0.07928	0.936857	0.539401	0.304799	1.769693	0.077761
C11orf96.Q7Z7L8	-0.063416	0.089202	-0.71093	0.477548	0.403435	0.222511	1.813106	0.071044	-0.1251	0.066686	-1.87589	0.061864
CORO1B.Q9BR76	0.155989	0.219466	0.710767	0.477557	-0.79157	0.57047	-1.38757	0.166264	0.227795	0.169739	1.342034	0.180567
SEL1L.Q9UBV2	0.1389347	0.195584	0.710357	0.477811	-0.00716	0.50698	-0.01413	0.988738	-0.06901	0.150767	-0.45773	0.64747
WDR17.Q8IZU2	0.144588	0.203557	0.710308	0.477841	0.605743	0.510184	1.187304	0.236017	-0.18428	0.151755	-1.21436	0.225535
TIAM1.Q13009	0.1389152	0.195602	0.710194	0.477912	0.300587	0.432532	0.694948	0.487609	0.259633	0.127924	2.029589	0.043252
SERPINF2.P08697	0.0395052	0.055635	0.710083	0.478034	-0.02084	0.145135	-0.14358	0.885938	0.058891	0.04286	1.374038	0.170587
MCF2L2.Q86YR7	0.1356827	0.19115	0.709822	0.478143	-0.42316	0.498667	-0.84858	0.396772	0.29064	0.147596	1.969151	0.049826
VPS72.Q15906	0.105993	0.14928	0.710026	0.478227	0.238174	0.35617	0.668708	0.504489	0.037593	0.098977	0.379811	0.704508
PRKCI.P41743	0.1495039	0.210741	0.70942	0.478392	0.69965	0.521406	1.341851	0.180626	0.24308	0.154945	1.568812	0.117712
NUDT15.Q9NV35	0.1016851	0.143413	0.709036	0.478697	0.434622	0.359234	1.209858	0.227445	0.034421	0.110138	0.312526	0.754895
LRFN2.Q9ULH4	-0.13378	0.188878	-0.70829	0.47914	-0.48403	0.469247	-1.0315	0.303231	-0.1339	0.13499	-0.99196	0.322106
ZFYVE19.H3BRF9	0.1513877	0.213798	0.708086	0.47923	0.210419	0.57144	0.368226	0.712967	0.284024	0.165542	1.715726	0.087255
TENM1.Q9UKZ4	-0.105967	0.149834	-0.70723	0.479833	-0.29529	0.401218	-0.73598	0.462424	0.090097	0.119473	0.754122	0.45148
SLC22A18.Q96B11	-0.091069	0.128711	-0.70755	0.479864	-0.00583	0.355304	-0.0164	0.986938	-0.18051	0.097767	-1.84628	0.066676
CSDE1.O75534	-0.248888	0.352198	-0.70667	0.480097	-0.6022	0.887863	-0.67826	0.498113	-0.09351	0.264266	-0.35384	0.723702

DCC.P43146	-0.136623	0.193507	-0.70604	0.480491	0.595964	0.503507	1.183627	0.237468	-0.30409	0.149126	-2.03918	0.04228
SAMHD1.Q9Y3Z3	0.0999301	0.141607	0.705685	0.48071	0.237353	0.366477	0.647662	0.517683	0.221017	0.108369	2.039472	0.042251
EXOSC4.Q9NPD3	0.1374469	0.194732	0.705827	0.480712	-0.07113	0.489812	-0.14523	0.884649	-0.02588	0.145951	-0.17734	0.859388
ZC3HC1.Q86WB0	0.0931315	0.131991	0.705592	0.480773	-0.7246	0.346733	-2.08978	0.037466	-0.1905	0.104239	-1.82757	0.068591
RAPGEF4.Q8WZA2.5	-0.113529	0.160848	-0.70582	0.480797	0.020656	0.407003	0.050751	0.959572	0.141165	0.123524	1.142814	0.254423
IMPDH1.C9J381	-0.116879	0.165677	-0.70546	0.480878	-0.16966	0.455493	-0.37247	0.709819	0.031283	0.134832	0.232013	0.816694
CAMK2D.Q13557.6	-0.12037	0.170658	-0.70533	0.480931	-0.32743	0.41934	-0.78083	0.435501	0.028708	0.124858	0.229926	0.818301
OPRD1.D2CGC9	0.0891125	0.126313	0.705492	0.481055	0.027498	0.306364	0.089756	0.928577	-0.01004	0.093207	-0.10771	0.914338
NPDC1.Q5SPY9	-0.082503	0.11705	-0.70485	0.481228	-0.01146	0.304525	-0.03762	0.970013	-0.08355	0.090467	-0.9236	0.356412
CCT6A.P40227	0.2338566	0.331798	0.704816	0.48125	-0.97413	0.829513	-1.17434	0.241161	0.694273	0.24415	2.843634	0.004757
ABC7.O75027	0.1781381	0.252746	0.704812	0.481253	0.043538	0.651779	0.066798	0.946785	0.234597	0.193436	1.212788	0.226134
LRP8.Q14114	0.090073	0.127767	0.704978	0.481287	-0.26177	0.340174	-0.76951	0.442411	0.069484	0.097425	0.713198	0.476472
MED28.Q9H204	0.1301921	0.184785	0.704561	0.48151	0.02744	0.482318	0.056893	0.954677	0.333186	0.144287	2.30918	0.02177
X0.P01625	0.0470136	0.066747	0.704353	0.481572	0.081167	0.158673	0.511537	0.609375	0.052033	0.04729	1.100295	0.272142
HS6ST1.O60243	-0.124545	0.176854	-0.70422	0.4818	0.320345	0.480112	0.66723	0.505375	-0.13207	0.148432	-0.88978	0.37463
C19orf12.K7EPS8	-0.096331	0.136888	-0.70372	0.481933	0.061659	0.351189	0.175572	0.860745	-0.06026	0.104422	-0.57711	0.564281
TMTC3.Q6ZXV5	0.1167183	0.166024	0.70302	0.482368	-0.80877	0.423229	-1.91095	0.056934	-0.0161	0.126639	-0.12713	0.898924
MOB2.A0A087WVS8	0.2027894	0.288706	0.702408	0.482749	0.224257	0.747477	0.300018	0.764364	0.565256	0.220064	2.568595	0.010679
SSBP3.Q9BWW4	0.1156387	0.164634	0.702399	0.48276	-0.07758	0.421715	-0.18397	0.854158	0.294932	0.125317	2.353479	0.019235
FUNDC2.Q9BWH2	-0.146837	0.209062	-0.70236	0.482779	-0.39081	0.50778	-0.76964	0.442101	-0.24538	0.150556	-1.6298	0.104159
EPPK1.A0A087X1U6	-0.034977	0.049788	-0.70253	0.48281	0.026079	0.119311	0.218576	0.827188	0.018251	0.034912	0.522772	0.601673
EPB41L5.Q9HCM4	0.1226093	0.1747	0.70183	0.483109	-0.91198	0.442774	-2.0597	0.040262	-0.13558	0.132392	-1.02405	0.306609
UBE3C.Q15386	0.1938318	0.276181	0.701829	0.48311	-0.4487	0.738281	-0.60776	0.543789	0.252549	0.219288	1.151679	0.25034
MRPS23.Q9Y3D9	-0.084111	0.119848	-0.70182	0.483117	0.712233	0.295313	2.411795	0.016455	-0.1334	0.088346	-1.50995	0.132076
RCCD1.A6NED2	-0.064617	0.092084	-0.70172	0.483235	-0.15119	0.262595	-0.57576	0.565261	0.069472	0.078861	0.880937	0.379147
RCL1.Q9Y2P8	0.1095591	0.156135	0.701695	0.483401	-0.3862	0.392265	-0.98454	0.326097	0.046883	0.112954	0.415066	0.678559
FHIT.P49789	-0.15328	0.218555	-0.70133	0.483419	0.60267	0.520689	1.157447	0.247981	-0.13374	0.155044	-0.86261	0.389018
TAB3.Q8N5C8	0.1336582	0.190617	0.701186	0.48351	-0.34158	0.566427	-0.60304	0.546926	0.05228	0.168575	0.310132	0.756669
SNAP29.O95721	-0.132922	0.189577	-0.70115	0.483533	-0.14458	0.461566	-0.31325	0.754303	-0.12973	0.137132	-0.94602	0.344873
DDX3X.O00571	0.2170004	0.309609	0.700885	0.483698	0.928827	0.786842	1.180448	0.238727	0.316361	0.233908	1.352499	0.177201
YARS.P54577	0.166462	0.237602	0.700592	0.483881	-0.01736	0.646687	-0.02684	0.978606	-0.18984	0.192076	-0.98837	0.32374
CNTNAP2.Q9UHC6	-0.185497	0.264839	-0.70042	0.48399	-0.47477	0.645755	-0.73522	0.462764	-0.15741	0.19206	-0.8196	0.413073
ZBTB40.F8WAI8	0.0298508	0.04262	0.700387	0.484247	0.123932	0.132438	0.935773	0.350651	0.021095	0.040995	0.514583	0.607479
SEC63.Q9UGP8	0.2065206	0.295047	0.699959	0.484276	1.152857	0.781197	1.475757	0.141024	0.085923	0.233156	0.36852	0.712737

RPL27.P61353	0.1412162	0.201756	0.699937	0.48429	0.141207	0.517352	0.272942	0.78508	-0.03433	0.153909	-0.22305	0.823647
TRIP6.Q15654	0.0913857	0.130576	0.699868	0.484361	-0.4967	0.330019	-1.50505	0.133418	0.025392	0.096169	0.264036	0.791943
DPYSL4.O14531	-0.119159	0.170311	-0.69965	0.484468	-0.03008	0.421393	-0.07138	0.943141	-0.0218	0.125352	-0.17388	0.862073
NOL6.Q9H6R4	0.0949761	0.135798	0.699394	0.484744	0.473369	0.344571	1.373791	0.17085	-0.11555	0.110924	-1.04167	0.298662
SCN1B.Q07699	0.1011133	0.144704	0.69876	0.485024	0.403102	0.373694	1.078694	0.281563	0.139139	0.111095	1.25243	0.211357
UBQLN2.Q9UHD9	-0.11038	0.158041	-0.69842	0.485234	0.504773	0.438105	1.152173	0.250138	-0.35445	0.129047	-2.74665	0.006373
ALOX5AP.A0A087WW23	0.0598169	0.085661	0.6983	0.485461	-0.22157	0.215495	-1.02819	0.305009	0.087737	0.064616	1.357811	0.17594
CCDC97.Q96F63	-0.119612	0.171379	-0.69794	0.485743	0.369001	0.472841	0.780392	0.436168	-0.0357	0.134505	-0.26538	0.791013
BOP1.Q14137	-0.128985	0.184865	-0.69773	0.485745	0.04977	0.485079	0.102601	0.918361	0.144367	0.148955	0.9692	0.333367
ARPC5.O15511	0.1652787	0.236952	0.697519	0.4858	-1.01897	0.613541	-1.6608	0.097764	0.141533	0.183151	0.772765	0.44025
LRR4.Q9HBW1	0.0953772	0.136807	0.697168	0.48603	-0.498	0.370756	-1.34319	0.180219	0.075265	0.11161	0.674356	0.500601
TMEM246.Q9BRR3	0.0869868	0.124811	0.696947	0.486184	-0.05358	0.301212	-0.17788	0.858945	0.054233	0.089382	0.606755	0.544503
TRIM56.Q9BRZ2	0.0735647	0.105586	0.696727	0.486322	-0.03425	0.258995	-0.13223	0.894893	0.035552	0.077868	0.456569	0.648328
KLHL5.Q96PQ7	0.1280786	0.183841	0.69668	0.486507	-0.55866	0.4627	-1.20739	0.228685	0.299111	0.148206	2.018212	0.044885
CYBB.P04839	-0.069509	0.099823	-0.69632	0.486548	-0.00326	0.251583	-0.01296	0.989664	0.199244	0.073981	2.693178	0.007463
BRINP3.Q76B58	-0.138143	0.198528	-0.69584	0.48702	0.412818	0.521983	0.790864	0.429933	-0.10854	0.152595	-0.71131	0.477697
PIN1.Q13526	-0.138837	0.199686	-0.69527	0.487205	0.698797	0.512259	1.364147	0.173511	0.050005	0.152818	0.327218	0.743724
PKN2.Q16513	-0.136151	0.19583	-0.69525	0.487224	0.347446	0.500134	0.694706	0.487767	0.071161	0.149648	0.475519	0.634756
SLC8A2.Q9UPR5	-0.136157	0.195844	-0.69523	0.487229	0.366216	0.480101	0.762791	0.446168	0.001878	0.142955	0.013134	0.98953
RHOT2.Q8IXI1	-0.072228	0.103894	-0.69521	0.487241	0.257742	0.269054	0.957956	0.338831	-0.11326	0.079899	-1.41757	0.157321
RPL34.P49207	-0.101106	0.145512	-0.69483	0.487484	-0.13123	0.370089	-0.3546	0.723132	0.04329	0.11009	0.393221	0.694427
HPCAL4.Q9UM19	-0.076769	0.11052	-0.69462	0.487615	-0.04099	0.27736	-0.14779	0.882603	-0.15105	0.082065	-1.84063	0.066632
VASP.P50552	0.1256343	0.180883	0.694562	0.48765	0.196151	0.469439	0.417842	0.676352	0.448089	0.137351	3.262365	0.001228
SGPL1.O95470	0.1482145	0.213568	0.693992	0.488018	-0.73108	0.554291	-1.31894	0.188192	0.023574	0.162676	0.144912	0.884877
IFFO2.Q5TF58	0.0378412	0.054483	0.694545	0.488023	0.157344	0.127535	1.233726	0.219287	0.008972	0.03927	0.228472	0.819599
NDUFB4.O95168	0.1338376	0.193004	0.693446	0.488349	0.02407	0.498545	0.048281	0.961523	0.096509	0.148208	0.651172	0.515418
NPTX1.Q15818	-0.102419	0.147748	-0.6932	0.488502	-0.03122	0.3719	-0.08394	0.933158	0.026025	0.110625	0.235253	0.814168
FBXO44.Q9H4M3	-0.087476	0.126192	-0.6932	0.488503	0.28938	0.314573	0.919914	0.358333	0.037348	0.093683	0.398663	0.690416
AMZ2.Q86W34	0.0552208	0.079687	0.692975	0.488655	-0.44992	0.205835	-2.18584	0.029598	0.1176	0.061082	1.925287	0.055135
PABPC4.Q13310.3	-0.16264	0.234709	-0.69295	0.488663	-0.0589	0.631179	-0.09332	0.92571	-0.43411	0.186141	-2.33213	0.020334
FAM171B.Q6P995	-0.150582	0.217344	-0.69283	0.488737	-0.14502	0.558511	-0.25966	0.7953	0.073645	0.166113	0.443347	0.657824
TDP2.O95551	0.0965552	0.139354	0.692874	0.488747	-0.30941	0.358986	-0.86189	0.389502	0.093846	0.10783	0.870315	0.38489
KCNAB2.Q13303	0.1333319	0.192585	0.692328	0.48905	0.27198	0.475411	0.572094	0.567673	0.290349	0.140537	2.065995	0.039659
NMRAL1.Q9HBL8	-0.042717	0.061714	-0.69218	0.489141	0.197658	0.1544	1.280169	0.201443	-0.0627	0.045915	-1.36558	0.17306

ATPAF2.Q8N5M1	0.1330353	0.192236	0.692041	0.48923	0.36798	0.521217	0.706003	0.480716	-0.0021	0.155177	-0.01352	0.989221
SLC32A1.Q9H598	0.1242117	0.179521	0.691906	0.489315	-0.34402	0.475014	-0.72424	0.469463	-0.23248	0.14081	-1.65103	0.099746
SLC5A3.P53794	0.0485989	0.070249	0.691812	0.489384	0.060925	0.193086	0.315531	0.752578	0.177777	0.057187	3.108694	0.002059
TMEM151B.Q8IW70	0.0925644	0.133805	0.691785	0.489423	-0.83277	0.37635	-2.21274	0.027728	0.096987	0.110679	0.876288	0.38163
COPS3.Q9UNS2	-0.144521	0.208999	-0.69149	0.489574	0.113912	0.542674	0.209909	0.833876	0.228091	0.160927	1.417361	0.157382
UMPS.P11172	0.1447658	0.209399	0.691341	0.48967	-0.44588	0.53986	-0.82592	0.409486	0.059515	0.16074	0.370253	0.711447
NDUFB10.O96000	-0.128387	0.185748	-0.69119	0.489766	0.555722	0.488534	1.13753	0.256195	-0.02131	0.145628	-0.14635	0.883739
FAM134B.Q9H6L5	0.1117038	0.161642	0.691058	0.489847	-0.07768	0.380064	-0.20437	0.838195	0.231927	0.1123	2.065247	0.039731
TJP1.G3V1L9	0.150612	0.218249	0.690093	0.490454	-0.71349	0.567013	-1.25834	0.209217	-0.40904	0.167503	-2.44201	0.015165
EIF1.P41567	0.1102537	0.159863	0.689678	0.490714	0.060954	0.417353	0.146048	0.883978	-0.33489	0.122694	-2.72945	0.006706
GPR37L1.O60883	0.1049474	0.152178	0.689636	0.49074	-0.17366	0.372161	-0.46662	0.641103	-0.28194	0.109586	-2.57277	0.010554
EIF3B.P55884	0.2761741	0.400482	0.689604	0.49076	0.596633	0.998189	0.597716	0.550466	0.341765	0.29648	1.152743	0.249904
GFRA1.P56159.2	0.0777541	0.11275	0.689612	0.490776	-0.46477	0.288576	-1.61056	0.10836	0.071435	0.0859	0.831603	0.406315
OS9.Q13438	0.0667171	0.09687	0.688726	0.491313	0.095679	0.243289	0.393272	0.694389	0.04735	0.072342	0.654529	0.513256
FAM114A1.Q8IWE2	0.0914059	0.132851	0.688033	0.491781	0.299935	0.339183	0.884287	0.377295	-0.02488	0.100408	-0.2478	0.804471
CRMP1.Q14194.2	0.1472197	0.213995	0.687958	0.491796	0.21657	0.572104	0.37855	0.705281	-0.19083	0.169885	-1.1233	0.262178
DNAJC17.Q9NVM6	0.0880662	0.128032	0.687846	0.491912	-0.38163	0.324602	-1.17569	0.240756	-0.06386	0.094307	-0.67714	0.498897
ATG7.O95352	0.1931281	0.281196	0.68681	0.492518	0.208826	0.784429	0.266214	0.790251	0.31558	0.232691	1.356217	0.176017
EIF3C.Q99613	0.3244896	0.472661	0.686517	0.492703	-1.2173	1.263545	-0.9634	0.336096	0.055928	0.376431	0.148574	0.881986
SELT.A0A087WTN3	-0.110238	0.16065	-0.6862	0.492943	-0.19285	0.430735	-0.44773	0.654707	-0.00163	0.126405	-0.01293	0.989692
ENAH.Q8N8S7	-0.182214	0.265678	-0.68584	0.493127	0.325196	0.687496	0.473015	0.636535	-0.25896	0.204062	-1.26904	0.205379
MZT2A.Q6P582	-0.09139	0.133268	-0.68576	0.493202	-0.27974	0.341584	-0.81896	0.413472	-0.02199	0.102434	-0.21463	0.830202
PKIB.Q9C010	0.0639679	0.093241	0.686053	0.49321	-0.11391	0.219423	-0.51912	0.604274	-0.01747	0.066595	-0.26235	0.793334
BCL9L.Q86UU0	0.111496	0.162492	0.686162	0.49326	-0.08371	0.407321	-0.20551	0.837444	-0.08773	0.114069	-0.76913	0.442994
GFAP.K7EPI4	0.0166869	0.024337	0.685672	0.493275	-0.09313	0.057834	-1.61022	0.108509	-0.00395	0.017831	-0.22162	0.824775
SPRYD3.F8VWW7	0.0583978	0.085183	0.685559	0.49338	-0.13574	0.214714	-0.6322	0.527832	0.02225	0.065122	0.34166	0.732892
N4BP2L1.Q5TBK1	0.0947819	0.13825	0.685583	0.493538	-0.17333	0.37849	-0.45795	0.647537	-0.0188	0.118123	-0.15916	0.87372
OSGEPL1.Q9H4B0	0.0784662	0.114511	0.685231	0.493573	0.613859	0.28796	2.131754	0.033972	-0.07398	0.083154	-0.88967	0.374469
SNRPC.P09234	-0.043627	0.063689	-0.685	0.49366	-0.04413	0.183315	-0.24071	0.809941	-0.37104	0.050302	-7.37618	1.50E-12
CXADR.P78310	-0.114701	0.16748	-0.68486	0.493747	-0.33238	0.419736	-0.79188	0.429035	0.05175	0.124956	0.414146	0.679054
RECK.O95980	0.0932378	0.136089	0.685122	0.493812	-0.14231	0.343796	-0.41393	0.679415	0.198128	0.105881	1.871223	0.062928
POLR2E.P19388	-0.142503	0.208124	-0.6847	0.493866	0.156478	0.502806	0.311209	0.755864	-0.03143	0.148769	-0.21128	0.832813
PCDH17.O14917	0.1238719	0.180933	0.68463	0.493892	-0.52744	0.469317	-1.12385	0.261946	0.02975	0.139888	0.212673	0.831722
TRAPPC13.A5PLN9	0.2163276	0.316083	0.684402	0.494036	-0.82922	0.813619	-1.01917	0.308917	0.827653	0.237842	3.479849	0.000574

BBS9.Q3SYG4	0.1120692	0.163878	0.683859	0.4944	0.054652	0.418321	0.130647	0.896146	0.016037	0.121151	0.132372	0.894782
EEF1G.P26641	-0.173303	0.253589	-0.6834	0.494666	-0.02246	0.664493	-0.03379	0.973064	-0.27911	0.197039	-1.41653	0.157624
SUSD2.Q9UGT4	0.0640428	0.093728	0.68328	0.494908	-0.2231	0.226421	-0.98533	0.325648	-0.00847	0.067962	-0.12469	0.900893
CLVS2.Q5SYC1	-0.1734	0.254009	-0.68265	0.49514	0.443206	0.636026	0.696836	0.486427	0.154504	0.189151	0.816825	0.414656
TRIM3.O75382	0.2410434	0.3531	0.682649	0.495142	0.110116	0.851173	0.12937	0.897149	0.740787	0.249696	2.966756	0.003244
ABC2.Q9UNQ0	-0.085096	0.124659	-0.68262	0.495197	0.367142	0.32877	1.116714	0.265084	0.018916	0.097	0.195007	0.84553
PHF2.O75151	0.0927888	0.136062	0.681962	0.495626	-0.20703	0.323985	-0.63902	0.523352	-0.21229	0.09692	-2.19039	0.029351
SLC17A5.Q9NRA2	0.0604441	0.08862	0.682059	0.49564	-0.14462	0.21055	-0.68689	0.492848	0.020759	0.062952	0.329759	0.741884
ACVR1B.P36896	-0.084569	0.124049	-0.68174	0.495748	0.669827	0.329356	2.033745	0.042913	0.251376	0.101407	2.478893	0.013764
CAV2.E9PCT3	0.0743147	0.108991	0.681839	0.495829	-0.71182	0.280001	-2.5422	0.011747	-0.02447	0.088556	-0.27627	0.782617
SHC3.Q92529	-0.153231	0.224869	-0.68143	0.495916	0.17391	0.533588	0.325925	0.744701	0.293039	0.157885	1.856023	0.064399
CLIP1.F5H0N7	-0.128459	0.188498	-0.68148	0.495917	0.272775	0.462589	0.589669	0.555888	0.068614	0.136721	0.501852	0.616166
PHC3.Q8NDX5	0.0850635	0.124961	0.680718	0.496408	0.070492	0.306134	0.230267	0.818056	-0.01448	0.093268	-0.15529	0.876706
ATP2B4.P23634	-0.055387	0.081392	-0.6805	0.4965	-0.00375	0.221449	-0.01692	0.986509	-0.40754	0.061677	-6.60764	1.70E-10
DECR2.Q9NUI1	-0.090421	0.132878	-0.68048	0.496511	-0.63525	0.337364	-1.883	0.060637	-0.03143	0.100916	-0.31147	0.75565
STT3A.P46977	0.1332397	0.19587	0.680247	0.49666	0.292019	0.529408	0.551595	0.581624	0.300296	0.156641	1.917096	0.056145
XPA.P23025	0.0986458	0.14495	0.680549	0.496671	0.607877	0.372116	1.633569	0.103955	0.150018	0.111408	1.34656	0.179677
PIK3C2B.F5GWN5	0.106015	0.155848	0.680246	0.496718	0.638551	0.406262	1.571769	0.117197	-0.09374	0.123053	-0.7618	0.446859
GGPS1.O95749	0.1378164	0.202733	0.679793	0.496948	0.131804	0.485419	0.271527	0.786167	0.536042	0.141175	3.796995	0.000176
POLDIP3.Q9BY77	0.1003983	0.147734	0.679589	0.497086	-0.15848	0.373405	-0.42442	0.671561	-0.28285	0.109103	-2.59252	0.009994
NT5C.Q8TCD5	0.0712935	0.104922	0.679489	0.49714	-0.04365	0.241747	-0.18055	0.856836	-0.05128	0.07186	-0.71361	0.476003
HTR1A.P08908	-0.065221	0.096066	-0.67892	0.497499	0.231089	0.242777	0.951855	0.341912	-0.02634	0.072312	-0.36425	0.715922
THAP4.Q8WY91	-0.074581	0.109901	-0.67862	0.497718	-0.06699	0.259354	-0.25831	0.796348	0.050653	0.079351	0.638345	0.523754
ATG4D.Q86TL0	0.1120433	0.165163	0.67838	0.498089	-0.07909	0.421909	-0.18746	0.851511	0.114022	0.114687	0.994202	0.321474
DDX27.Q96GQ7	0.1049392	0.154778	0.677999	0.498104	0.136419	0.384742	0.354572	0.723166	-0.18575	0.113671	-1.63407	0.103318
AIDA.Q96BJ3	0.1819669	0.268436	0.677879	0.49816	-0.20713	0.653756	-0.31684	0.751581	0.208979	0.19415	1.076379	0.282595
KCNMA1.Q5SVJ7	-0.114646	0.169236	-0.67743	0.498475	0.079914	0.423869	0.188535	0.850594	0.031173	0.118862	0.262265	0.793311
MAP6.Q96JE9	-0.173184	0.255782	-0.67708	0.498669	0.34868	0.64568	0.54002	0.589571	-0.3114	0.191353	-1.62735	0.104678
APOC3.P02656	0.0280222	0.041391	0.677016	0.498707	0.267052	0.104549	2.554325	0.011117	-0.01283	0.031419	-0.40825	0.683371
GPN2.Q9H9Y4	-0.103517	0.152806	-0.67744	0.498733	0.084108	0.385247	0.218321	0.827452	0.009246	0.10901	0.084815	0.932513
AP3S1.Q92572	-0.149161	0.220392	-0.6768	0.498846	0.067797	0.541974	0.125092	0.900532	-0.53124	0.158383	-3.35417	0.000895
H6PD.O95479	-0.089537	0.132285	-0.67685	0.498876	-0.22195	0.352101	-0.63037	0.529009	0.001946	0.104967	0.018539	0.985223
ENO1.P06733.2	0.0543656	0.080328	0.676794	0.498959	0.10713	0.196151	0.546161	0.585469	-0.00152	0.059258	-0.0257	0.97952
KDM5A.P29375	-0.108424	0.160377	-0.67606	0.499509	0.251761	0.424191	0.593509	0.553539	-0.01984	0.128766	-0.15407	0.877713

VPS13C.Q709C8.2	-0.071001	0.105025	-0.67604	0.499526	0.25603	0.26055	0.982652	0.327028	-0.01831	0.075683	-0.24196	0.809069
TSPAN13.O95857	-0.091859	0.135988	-0.67549	0.499715	-0.56308	0.339322	-1.65943	0.098168	0.066892	0.100787	0.663698	0.50744
PRKAG1.P54619	0.1943027	0.287723	0.675312	0.499788	0.823476	0.801406	1.02754	0.304967	0.358077	0.237942	1.50489	0.13337
DHPS.P49366	0.0634513	0.09395	0.67537	0.499844	-0.29023	0.249728	-1.16219	0.246318	-0.00718	0.075325	-0.0953	0.924155
HLTF.Q14527	-0.037267	0.05519	-0.67525	0.499967	-0.14126	0.156055	-0.90518	0.366425	0.077613	0.044822	1.731602	0.084841
RPF2.Q5VXN0	0.0847933	0.125599	0.675113	0.500017	0.029648	0.316132	0.093784	0.925361	0.028855	0.091857	0.314124	0.753708
RASA1.P20936	-0.153757	0.227844	-0.67483	0.500092	0.043827	0.570654	0.076801	0.938831	0.290036	0.16896	1.716593	0.087052
RPL17.J3KRX5	-0.207451	0.307486	-0.67467	0.500196	-0.38432	0.796823	-0.48232	0.629919	0.355317	0.23627	1.503862	0.133635
RPL36.Q9Y3U8	-0.095648	0.141914	-0.67398	0.50063	-0.293	0.358363	-0.81762	0.414205	-0.00275	0.106721	-0.02581	0.979424
YARS2.Q9Y2Z4	0.1378569	0.204562	0.673912	0.500676	-0.23727	0.509599	-0.4656	0.641832	0.052875	0.15162	0.348737	0.727524
RGL1.Q9NZL6	0.0483082	0.071667	0.674063	0.50069	-0.17252	0.199348	-0.8654	0.38775	0.027376	0.056614	0.483552	0.629178
X0.P01598	-0.036916	0.054789	-0.67379	0.500754	0.260346	0.15164	1.71687	0.087002	0.001548	0.045324	0.034149	0.97278
PTDSS1.P48651	-0.085281	0.126566	-0.67381	0.500754	0.321358	0.360888	0.890464	0.373945	0.04697	0.10755	0.43673	0.662628
SCG5.P05408.2	-0.093333	0.138533	-0.67373	0.500795	0.067565	0.371998	0.181627	0.855994	0.082473	0.11057	0.745888	0.4563
PGPEP1.Q9NXJ5	0.1035305	0.153654	0.673791	0.500883	0.305005	0.376947	0.809145	0.419322	-0.0212	0.110079	-0.19256	0.847483
NPY.P01303	0.0580415	0.086189	0.673423	0.501008	-0.17473	0.21256	-0.82204	0.411736	0.029984	0.062884	0.47682	0.633854
DDX60.Q8IY21	-0.035711	0.053069	-0.67292	0.501448	0.056309	0.137805	0.408613	0.683219	0.054088	0.041108	1.315751	0.189621
IK.Q13123	0.1176021	0.175044	0.671843	0.501992	-0.22003	0.427804	-0.51433	0.607385	-0.40218	0.125253	-3.21094	0.001462
TBC1D23.Q9NUY8	0.222317	0.330981	0.67169	0.502089	-0.88057	0.812491	-1.08379	0.279302	0.635148	0.239457	2.652449	0.008402
POFUT2.Q9Y2G5	0.1214668	0.180852	0.671636	0.502149	-1.2957	0.472523	-2.74208	0.00649	0.211223	0.143012	1.476963	0.140786
TBC1D2B.Q9UPU7	-0.066584	0.09927	-0.67073	0.502742	0.248756	0.243701	1.020744	0.308273	0.028166	0.074699	0.37706	0.70642
ESYT1.Q9BSJ8	-0.160239	0.238985	-0.6705	0.502845	0.307683	0.667349	0.461053	0.645084	-0.10463	0.198504	-0.52709	0.598506
C14orf1.Q9UKR5	0.1351147	0.201498	0.670552	0.50287	-0.71597	0.515508	-1.38887	0.166061	0.125622	0.150687	0.833661	0.405237
QTRT1.Q9BXR0	0.1656619	0.247143	0.670308	0.502968	-0.782	0.641537	-1.21895	0.223789	-0.1167	0.191188	-0.61037	0.542065
KIAA0513.O60268	-0.132669	0.197952	-0.67021	0.503033	-0.11968	0.507689	-0.23573	0.813802	0.238369	0.150434	1.584544	0.114089
RTCA.O00442	0.0992931	0.14816	0.670176	0.503053	0.105008	0.41618	0.252314	0.800966	0.228052	0.12314	1.851982	0.064979
DTNB.O60941	0.1266568	0.188978	0.670222	0.503062	-0.93284	0.560348	-1.66475	0.097101	-0.14613	0.163587	-0.89327	0.372494
RPTOR.Q8N122	0.3001386	0.447933	0.670052	0.503132	-0.34475	1.083088	-0.31831	0.750466	-0.45751	0.321203	-1.42436	0.155349
CD14.P08571	-0.038395	0.05732	-0.66983	0.503275	0.106513	0.15357	0.693576	0.488468	0.091379	0.045424	2.011665	0.04512
AUP1.Q9Y679	0.1559607	0.232861	0.669759	0.503318	-0.80693	0.553623	-1.45754	0.145979	-0.26226	0.164584	-1.59349	0.11207
ATP5SL.Q9NW81	0.0510678	0.07628	0.669479	0.503517	0.147455	0.182806	0.806619	0.420547	-0.02913	0.054033	-0.5391	0.59023
AGRN.O00468.6	0.1132979	0.169187	0.669663	0.503709	0.325085	0.380519	0.85432	0.394281	0.20567	0.107349	1.915895	0.057268
C4orf27.Q9NWWY4	0.0818863	0.122374	0.669146	0.50372	0.367644	0.3256	1.129129	0.259749	0.009389	0.098579	0.095245	0.924184
DSCAML1.Q8TD84	-0.031689	0.047383	-0.66878	0.50395	-0.01794	0.118271	-0.15169	0.879533	0.006481	0.035417	0.18299	0.85493

TPM3.J3KN67	-0.099899	0.149417	-0.66859	0.504064	0.094372	0.361903	0.260766	0.794446	0.088101	0.107555	0.819126	0.413344
ACSF2.Q96CM8	0.1099504	0.164472	0.668505	0.504117	0.019326	0.412584	0.046841	0.96267	0.073179	0.122667	0.596569	0.55123
APOA2.V9GYM3	0.0241155	0.036077	0.668438	0.50416	0.030191	0.088082	0.342757	0.732013	0.035255	0.026131	1.349152	0.178273
DNASE1L1.P49184	-0.082962	0.124286	-0.66751	0.504775	0.074913	0.318578	0.23515	0.81426	0.095681	0.092101	1.038872	0.299736
SMUG1.Q53HV7	-0.111778	0.167444	-0.66755	0.504905	-0.39633	0.443114	-0.89441	0.372184	0.237267	0.126628	1.873733	0.062433
GNAS.P63092.3	0.0831017	0.124484	0.66757	0.504954	0.387635	0.32962	1.176006	0.241128	0.022684	0.109482	0.207193	0.836091
TREX1.Q9NSU2	0.0777261	0.116531	0.666997	0.505115	-0.38873	0.314961	-1.23422	0.218159	-0.20669	0.09332	-2.21482	0.02758
RASGEF1A.Q8N9B8	0.0916915	0.137556	0.666573	0.50536	0.023631	0.37962	0.062248	0.950406	-0.02874	0.113119	-0.25403	0.799644
NDUFB2.H7C5B8	0.0657359	0.098618	0.666569	0.505384	-0.25216	0.22529	-1.11927	0.26399	-0.00864	0.066924	-0.12914	0.897338
CCDC85A.Q96PX6	-0.117115	0.175784	-0.66625	0.505559	0.211889	0.445727	0.475379	0.634852	-0.32325	0.131367	-2.46066	0.014413
OGFR.Q9NZT2	0.1780702	0.267339	0.666083	0.505663	0.80511	0.681024	1.182206	0.23803	-0.29114	0.202374	-1.43863	0.151263
DCAF7.P61962	0.2448373	0.367676	0.665905	0.505776	-0.15492	0.894912	-0.17311	0.86268	0.499014	0.26472	1.88506	0.060357
SNW1.Q13573	0.09971	0.149769	0.665757	0.505871	0.157932	0.40447	0.390467	0.69646	-0.55994	0.116074	-4.82395	2.21E-06
CCDC47.Q96A33	0.1846784	0.277419	0.665703	0.505906	0.070649	0.718648	0.098308	0.921751	0.367673	0.212766	1.728063	0.084973
LCLAT1.Q6UWP7	-0.155798	0.234049	-0.66566	0.505932	0.560211	0.583412	0.960233	0.337687	-0.23002	0.173321	-1.32714	0.18544
SLC17A6.Q9P2U8	-0.063957	0.096083	-0.66565	0.505941	0.041658	0.270542	0.153978	0.877727	-0.19399	0.079727	-2.43324	0.015529
CCT5.P48643	-0.144782	0.217876	-0.66452	0.506664	0.277424	0.544356	0.509637	0.610668	0.282507	0.161208	1.752443	0.080686
FAM210A.Q96ND0	-0.120348	0.181137	-0.6644	0.506736	-0.18951	0.470693	-0.40262	0.687508	0.017397	0.140056	0.124216	0.901224
UGDH.O60701	0.0832948	0.125375	0.664365	0.506803	-0.54899	0.322731	-1.70107	0.090077	0.178989	0.094444	1.895185	0.059132
DDX47.Q9H0S4	0.0921463	0.138721	0.664256	0.50704	-0.30774	0.34744	-0.88574	0.376878	-0.0659	0.107715	-0.61181	0.541395
HELZ.P42694	0.0626629	0.094363	0.66406	0.507046	0.489496	0.230887	2.120069	0.035031	0.019247	0.067494	0.285174	0.775757
KHDRBS3.O75525	-0.127999	0.192842	-0.66375	0.507155	0.128474	0.500198	0.256847	0.797467	-0.07236	0.148759	-0.48641	0.627018
BID.P55957	-0.128053	0.192925	-0.66375	0.507166	0.481861	0.475529	1.013315	0.311721	0.187313	0.142058	1.31856	0.188315
FBLL1.R4GMW7	0.138347	0.208561	0.663341	0.507415	-0.07022	0.498916	-0.14074	0.888169	0.006608	0.148423	0.044521	0.964518
QKI.Q96PU8	0.0931845	0.140486	0.6633	0.507709	-0.12505	0.356139	-0.35112	0.725943	-0.21223	0.099483	-2.13338	0.034371
FOXG1.P55316	0.0855079	0.128921	0.663257	0.50772	-0.51048	0.326649	-1.56277	0.119966	0.041006	0.104586	0.392077	0.695492
OSBPL7.Q9BZF2	0.077544	0.117003	0.662752	0.507797	-0.29869	0.270675	-1.10351	0.270676	0.082768	0.081262	1.018528	0.309234
C15orf61.A6NNL5	0.1001266	0.150993	0.663122	0.507842	0.876714	0.440016	1.992459	0.04797	0.072498	0.133598	0.54266	0.588096
RPS26.P62854	-0.112739	0.170203	-0.66238	0.508032	-0.11324	0.435949	-0.25975	0.79523	0.001631	0.129701	0.012574	0.989975
ERC1.X6RLX0	0.1501678	0.22673	0.662321	0.508068	0.104014	0.514148	0.202304	0.839812	0.068547	0.15291	0.448284	0.654261
TFB2M.Q9H5Q4	-0.11905	0.179851	-0.66194	0.508474	0.449416	0.475203	0.945735	0.345425	0.074203	0.143546	0.516931	0.605776
FBXO40.Q9UH90	0.0973426	0.147106	0.661718	0.508692	0.142632	0.419016	0.340398	0.733943	0.040945	0.126831	0.322834	0.747186
TNFAIP2.Q03169	-0.063251	0.095624	-0.66145	0.508697	-0.05442	0.227435	-0.23929	0.811072	0.055643	0.067808	0.820601	0.412649
STK11IP.Q8N1F8	0.1419376	0.214615	0.66136	0.508709	-0.41174	0.511459	-0.80503	0.421467	0.0729	0.153639	0.47449	0.63551

TRMT10C.Q7L0Y3	-0.107079	0.161919	-0.66131	0.508717	0.601248	0.421186	1.427513	0.154439	-0.12319	0.125512	-0.98154	0.327092
LAMA5.O15230	0.0656218	0.099236	0.661272	0.50874	-0.08977	0.248183	-0.36169	0.717829	0.0408	0.073809	0.552774	0.580816
ZFAND5.O76080	0.0637816	0.096471	0.661148	0.50882	-0.19456	0.241548	-0.80547	0.421164	-0.30748	0.069779	-4.4064	1.45E-05
RAB5B.P61020	0.1399829	0.211815	0.660872	0.508996	-0.07497	0.556955	-0.1346	0.893015	-0.18115	0.165369	-1.09543	0.27418
GLRA3.O75311	-0.094089	0.142412	-0.66068	0.509173	-0.00125	0.383801	-0.00326	0.997401	0.04572	0.117513	0.389061	0.69754
AMD1.P17707	0.0503516	0.076247	0.660375	0.509351	0.197734	0.199907	0.989132	0.323471	0.196344	0.057257	3.429151	0.000699
PLEKHA6.Q9Y2H5	0.0458293	0.069426	0.660114	0.509714	-0.14707	0.202588	-0.72594	0.468877	-0.07552	0.057305	-1.31794	0.189307
VARS2.Q5ST30	0.0797948	0.121091	0.658968	0.510227	-0.13534	0.310887	-0.43534	0.663624	-0.12524	0.092732	-1.35053	0.177858
LIMA1.Q9UHB6	0.0865152	0.131322	0.658802	0.510324	0.143523	0.329801	0.435179	0.663736	-0.16072	0.097715	-1.64479	0.101028
RLBP1.P12271	-0.048109	0.073037	-0.6587	0.51039	0.045166	0.186617	0.242026	0.80892	-0.05656	0.055427	-1.0205	0.308287
CCDC177.Q9NQR7	-0.147144	0.223443	-0.65853	0.510497	0.653292	0.572663	1.140796	0.254835	-0.42964	0.168961	-2.54286	0.011481
LGI4.Q8N135	0.098128	0.149083	0.658209	0.510713	-0.47315	0.39963	-1.18398	0.23736	0.209938	0.117684	1.78391	0.075449
LRP1B.Q9NZR2	-0.162939	0.24758	-0.65813	0.510757	-0.859	0.622705	-1.37946	0.168746	-0.25669	0.185239	-1.38572	0.16683
NF1.P21359.6	-0.186965	0.284132	-0.65802	0.510825	0.8235	0.727739	1.131587	0.258683	-0.30404	0.216248	-1.40596	0.160738
MESDC2.Q14696	0.1862412	0.283275	0.657457	0.511187	-1.3837	0.739382	-1.87143	0.062227	0.381855	0.220126	1.734709	0.083786
HEXIM2.Q96MH2	-0.10785	0.164002	-0.65761	0.511279	0.26351	0.438272	0.601246	0.548382	-0.15723	0.122265	-1.28596	0.199999
GOLGA1.Q92805	-0.094813	0.14424	-0.65733	0.51131	-0.33681	0.426058	-0.79054	0.429911	-0.09109	0.124752	-0.73013	0.465945
PNPLA6.M0R2C2	0.0456255	0.069411	0.657324	0.511381	-0.25327	0.180785	-1.40093	0.162607	0.001264	0.05437	0.023242	0.981478
SPIRE1.Q08AE8.2	0.2096925	0.319222	0.656886	0.511554	0.372912	0.816143	0.456921	0.648048	0.471463	0.241389	1.953123	0.051704
NUDT16L1.Q9BRJ7	0.1314041	0.200094	0.656712	0.511708	-0.00339	0.482642	-0.00702	0.994408	-0.01564	0.135708	-0.11523	0.908349
STX8.Q9UNK0	0.1323318	0.201569	0.656508	0.511797	-0.65849	0.49888	-1.31993	0.187832	0.026444	0.148817	0.177693	0.85908
MTCL1.Q9Y4B5	-0.20125	0.306565	-0.65647	0.511824	1.858832	0.796613	2.333418	0.020265	-0.14146	0.238915	-0.59209	0.554223
PLCD4.Q9BRC7	-0.081887	0.124681	-0.65677	0.511927	0.440654	0.386582	1.139873	0.256098	-0.03975	0.112775	-0.35243	0.724993
DST.E9PEB9	0.1489934	0.227046	0.656224	0.511988	-0.11934	0.617008	-0.19342	0.846762	-0.33313	0.181227	-1.83818	0.067024
CEPT1.Q9Y6K0	0.0528178	0.080497	0.656149	0.512038	0.035933	0.189826	0.189297	0.849988	0.045391	0.056513	0.803195	0.422494
AP4E1.Q9UPM8	-0.133809	0.203976	-0.656	0.512198	0.358729	0.537591	0.667291	0.505207	0.190653	0.158868	1.200077	0.231254
MYOM2.P54296	-0.038673	0.058988	-0.65561	0.512553	0.082606	0.176707	0.467474	0.640672	-0.03719	0.05364	-0.69337	0.488884
USP35.Q9P2H5	0.0988033	0.150765	0.655346	0.512563	-0.16071	0.436058	-0.36854	0.712735	-0.04551	0.129011	-0.35274	0.724541
CACNG3.O60359	-0.096666	0.147559	-0.6551	0.512702	0.018393	0.389355	0.047241	0.962352	-0.41345	0.113421	-3.64522	0.000313
GLUL.P15104	0.0592246	0.090425	0.654958	0.512794	-0.07984	0.231494	-0.34488	0.730419	0.14161	0.068407	2.070092	0.039272
DCXR.Q7Z4W1	0.1373737	0.209754	0.654928	0.512813	-0.22	0.528206	-0.4165	0.677331	0.050588	0.15715	0.321909	0.747738
EIF3G.O75821	-0.194194	0.296622	-0.65469	0.512969	-0.05828	0.780279	-0.07469	0.940508	-0.79585	0.227678	-3.49553	0.000542
SERPINA3.P01011	0.0261471	0.039963	0.654278	0.513231	0.047185	0.103012	0.458051	0.647236	0.028194	0.030613	0.920974	0.35778
CCDC28A.Q8IWP9	0.1250574	0.191174	0.654156	0.51331	0.229726	0.49176	0.46715	0.640721	0.232009	0.145747	1.591861	0.112435

PAIP1.Q9H074	0.1249394	0.190993	0.654155	0.51331	-0.25253	0.498304	-0.50677	0.612674	0.206508	0.147834	1.396897	0.163444
DSTYK.Q6XUX3	0.0954745	0.145955	0.654137	0.513327	0.324985	0.381387	0.852113	0.39482	-0.06611	0.113784	-0.58103	0.561651
NQO2.P16083	0.0373647	0.05714	0.653912	0.513467	0.082526	0.145301	0.567963	0.570471	0.002857	0.043247	0.066068	0.947366
RPL13A.P40429	-0.136303	0.208605	-0.6534	0.513796	-0.1461	0.534382	-0.2734	0.784729	0.109227	0.158867	0.687537	0.492259
SYN1.P17600.2	0.0683242	0.104569	0.653389	0.513833	-0.00635	0.241964	-0.02625	0.979078	-0.1479	0.071396	-2.07161	0.039205
ENGASE.Q8NFI3	0.085096	0.130259	0.653282	0.513934	-0.47804	0.34704	-1.37748	0.169572	0.038818	0.103409	0.375382	0.707688
TMEM87A.Q8NBN3	0.1123064	0.172152	0.652367	0.514462	0.576217	0.449011	1.283303	0.200345	-0.1999	0.133445	-1.49802	0.135147
NAA20.P61599	0.1049836	0.161073	0.651776	0.514941	0.096095	0.404888	0.237337	0.812596	0.122523	0.123697	0.990506	0.322916
SIRT5.Q9NXA8	0.1180483	0.181182	0.651544	0.514992	-0.32145	0.49284	-0.65224	0.514731	0.405045	0.144897	2.7954	0.005507
HTATIP2.Q9BUP3.3	0.065256	0.100162	0.651506	0.515017	0.182419	0.259592	0.702714	0.482761	0.081955	0.077145	1.062346	0.288906
SCARB2.Q14108	-0.126834	0.194728	-0.65134	0.515124	-0.38377	0.496751	-0.77257	0.440368	0.065421	0.14787	0.442421	0.658493
PDE12.Q6L8Q7	0.2353592	0.361389	0.651262	0.515174	-0.96705	0.936694	-1.03241	0.302686	-0.36478	0.278359	-1.31048	0.191002
DPYSL2.Q16555.2	0.1581938	0.243187	0.650503	0.515664	0.607123	0.61686	0.984216	0.325777	0.02881	0.183784	0.156761	0.875535
POM121.Q96HA1	-0.062517	0.096111	-0.65047	0.515741	-0.2191	0.304602	-0.71931	0.472586	-0.37534	0.086272	-4.35061	1.94E-05
NACAD.O15069	0.1387956	0.213504	0.650084	0.515934	-0.89958	0.581339	-1.54742	0.122781	-0.48732	0.171384	-2.84342	0.00476
P4HB.P07237	-0.175669	0.270504	-0.64941	0.516367	-0.64558	0.690367	-0.93512	0.350453	0.094463	0.205591	0.459472	0.646217
TRRAP.F22ZU4	0.1095504	0.168823	0.648908	0.516707	0.16857	0.428398	0.39349	0.694241	0.211231	0.127068	1.66234	0.097503
RPE.Q96AT9	0.0927085	0.142928	0.648637	0.516869	-0.03399	0.358236	-0.09489	0.924462	0.304572	0.105157	2.896348	0.004044
TPP2.P29144	0.1370298	0.211269	0.648604	0.516889	0.13773	0.546206	0.252158	0.801086	0.073345	0.16245	0.45149	0.651952
IGHG1.A0A087WV47	0.0261668	0.040347	0.648552	0.516942	0.081831	0.108728	0.752626	0.452283	0.035022	0.031529	1.110779	0.267581
APLP2.Q06481	0.1424816	0.219735	0.648423	0.517007	0.241785	0.583002	0.414723	0.678631	0.296138	0.172664	1.715112	0.087324
DYNC111.O14576.2	0.1778562	0.274443	0.648061	0.51724	0.28471	0.696956	0.408506	0.683185	0.431025	0.205938	2.092986	0.037163
SH3BP4.Q9P0V3	0.0812756	0.125404	0.648111	0.517269	-0.03417	0.340519	-0.10036	0.920139	0.140215	0.099521	1.4089	0.160064
PLA2G15.Q8NCC3	0.098897	0.152685	0.647721	0.517515	0.344965	0.504629	0.683601	0.494838	0.023908	0.150024	0.159363	0.873507
GDPD5.Q8WTR4	-0.097229	0.150161	-0.6475	0.517629	-0.69633	0.403134	-1.7273	0.085189	-0.06704	0.12093	-0.55439	0.579743
KIF13A.H0Y307	-0.0692	0.106931	-0.64714	0.518035	0.461502	0.282994	1.630781	0.104695	0.100108	0.081517	1.228066	0.221035
RRBP1.A0A087WV2	0.0474516	0.073331	0.647086	0.518116	0.036963	0.253713	0.145689	0.884335	0.116052	0.08001	1.450462	0.14873
COLGALT2.Q8IYK4	0.0954112	0.147521	0.646765	0.518145	-0.09133	0.395039	-0.2312	0.817345	-0.12314	0.112879	-1.09093	0.276336
TSHZ3.Q63HK5	-0.017749	0.027481	-0.64586	0.518673	-0.01198	0.068319	-0.17542	0.860865	-0.00074	0.020361	-0.03611	0.971221
PBX1.P40424	-0.087449	0.13541	-0.64581	0.518763	0.030623	0.434581	0.070465	0.94388	-0.11619	0.127812	-0.90908	0.364193
RPS12.P25398	-0.1947	0.301824	-0.64508	0.51917	-1.37585	0.818728	-1.68047	0.093873	0.125158	0.244561	0.511765	0.60918
METTL7B.Q6UX53	0.0642659	0.099643	0.644962	0.519299	0.102359	0.267318	0.382911	0.702096	0.040079	0.079865	0.501832	0.616207
POLG2.Q9UHN1	-0.109783	0.170214	-0.64497	0.519313	0.064153	0.491109	0.130629	0.896176	0.185613	0.14046	1.321467	0.187573
PPP3CC.P48454	-0.151023	0.234202	-0.64484	0.519323	0.599966	0.590623	1.015819	0.310508	-0.21166	0.175581	-1.20548	0.228937

SYT17.Q9BSW7	-0.082233	0.127554	-0.64469	0.519423	-0.47564	0.32247	-1.475	0.141228	-0.02432	0.096255	-0.25262	0.800733
WDR54.Q9H977	-0.126031	0.195533	-0.64455	0.519513	0.260459	0.475355	0.547926	0.584137	0.188719	0.141072	1.337751	0.181958
ST7.C9JU30	0.1367701	0.212188	0.64457	0.519559	-0.73299	0.564116	-1.29936	0.194975	0.181212	0.173057	1.047121	0.29602
FGGY.F2Z2V1	0.0774264	0.120156	0.644381	0.519664	0.656811	0.294436	2.230745	0.026514	-0.11118	0.094116	-1.18127	0.238529
PRCP.P42785	0.0703339	0.109217	0.643985	0.519878	0.342482	0.279322	1.226119	0.221085	0.154074	0.082834	1.860044	0.063826
NCSTN.Q92542	0.1092693	0.169679	0.643976	0.519904	-0.56433	0.431152	-1.30889	0.191598	0.256951	0.127427	2.016458	0.044664
WDR20.A0A088AWN2	0.1544477	0.239873	0.643873	0.51995	-0.664	0.60192	-1.10313	0.270826	-0.04084	0.179397	-0.22767	0.820051
COG8.Q96MW5	0.126855	0.197031	0.643831	0.519996	-0.1042	0.478958	-0.21755	0.827931	-0.17305	0.141349	-1.22425	0.221846
CSTF2.E7EWR4	-0.108202	0.168095	-0.64369	0.520071	-0.33293	0.461847	-0.72088	0.471536	-0.53394	0.135295	-3.94647	9.84E-05
RIN1.Q13671	-0.115018	0.178703	-0.64363	0.52011	0.462496	0.444295	1.040967	0.298702	-0.00682	0.1324	-0.05153	0.95894
UQCRQ.O14949	0.1177593	0.182962	0.643626	0.520111	-0.19746	0.459016	-0.43017	0.66737	-0.1252	0.136405	-0.91784	0.359417
PSMD12.O00232	0.1687563	0.262219	0.64357	0.520147	-0.55815	0.686198	-0.81339	0.416619	0.003988	0.204349	0.019515	0.984442
DNMT1.P26358	0.08589	0.133451	0.643606	0.520178	0.43177	0.352568	1.224642	0.221798	0.251496	0.103462	2.430798	0.015729
EMC1.Q8N766	0.2490104	0.38695	0.643521	0.520179	-0.95878	1.00123	-0.9576	0.339012	0.726742	0.295419	2.460041	0.014438
GPATCH11.Q8N954	-0.089783	0.139506	-0.64358	0.520195	0.236628	0.35213	0.67199	0.502175	0.170605	0.104095	1.638936	0.102413
QKI.Q96PU8.3	0.0961482	0.149494	0.643156	0.520416	-0.73056	0.403412	-1.81095	0.071116	-0.09885	0.12051	-0.8203	0.412678
CNTFR.P26992	0.1004597	0.156255	0.642921	0.520568	-0.37432	0.384295	-0.97403	0.330799	0.067785	0.114431	0.592369	0.554035
SKIV2L.Q15477	-0.152924	0.237894	-0.64282	0.520632	0.101829	0.58826	0.173103	0.862684	-0.14886	0.174801	-0.85159	0.395097
CADPS2.Q86UW7	0.1755219	0.273117	0.642662	0.520735	1.108833	0.646447	1.715273	0.087294	-0.04042	0.193203	-0.20919	0.834436
CPQ.Q9Y646	0.0666306	0.103702	0.642522	0.520836	0.466091	0.280473	1.661806	0.097607	0.057573	0.081944	0.70259	0.482862
HP.P00738	-0.019241	0.029947	-0.64249	0.520844	0.011594	0.076626	0.151311	0.879829	0.047356	0.022636	2.092003	0.037252
RRAS2.P62070	-0.138042	0.215025	-0.64198	0.521176	0.790981	0.573565	1.379062	0.16887	-0.20005	0.17077	-1.17146	0.242312
RNF112.Q9ULX5	0.0746459	0.116301	0.641831	0.5213	-0.14717	0.328598	-0.44786	0.654587	0.090121	0.099673	0.904169	0.366656
NME3.Q13232	0.1698942	0.264745	0.641727	0.521342	-0.73267	0.706366	-1.03724	0.300431	-0.00678	0.210496	-0.0322	0.974331
CACNG2.Q9Y698	0.091013	0.141911	0.641338	0.521594	-0.02935	0.410064	-0.07158	0.942986	-0.31291	0.120686	-2.59272	0.009973
KPNA5.O15131	0.0973308	0.151771	0.641301	0.521638	0.272604	0.401758	0.678527	0.497983	0.301221	0.115086	2.617346	0.00933
CDK14.O94921	-0.144963	0.226117	-0.6411	0.521752	-0.40294	0.578247	-0.69684	0.486426	0.073002	0.172103	0.424178	0.67173
PDCD6.O75340	-0.103587	0.161706	-0.64059	0.522082	0.545852	0.418479	1.30437	0.193075	0.022543	0.124825	0.180598	0.856801
HINT3.Q9NQE9	-0.116067	0.18124	-0.64041	0.522199	0.467181	0.475446	0.982617	0.326562	0.188353	0.141252	1.333451	0.183363
GPRASP1.Q5JY77	-0.101927	0.159342	-0.63967	0.522701	-0.35077	0.427968	-0.81961	0.413127	-0.00731	0.126106	-0.05795	0.953829
PPP1R12A.O14974.4	-0.049631	0.077642	-0.63923	0.523019	-0.14104	0.192973	-0.73085	0.465524	-0.16066	0.056587	-2.83919	0.004879
SIRT3.E9PN58	0.1002836	0.156803	0.639553	0.523044	-0.15143	0.42174	-0.35906	0.720031	0.097493	0.114727	0.849778	0.396742
AP1S2.P56377	0.0888505	0.139056	0.638954	0.523247	0.145957	0.350503	0.416421	0.677492	0.153174	0.104734	1.462498	0.144976
MRRF.Q96E11	0.1150694	0.18019	0.638599	0.523374	0.585913	0.451033	1.299047	0.194893	0.199111	0.134063	1.48521	0.138505

MAK16.Q9BXY0	0.0993679	0.155556	0.638791	0.523477	0.220342	0.385026	0.572278	0.567848	-0.07816	0.107164	-0.72934	0.466741
BST2.Q10589	0.0530841	0.083155	0.638374	0.52352	-0.4773	0.213762	-2.23288	0.026271	0.098787	0.063854	1.547081	0.122864
RBM19.Q9Y4C8	0.1103539	0.172833	0.638498	0.523569	-0.50124	0.437622	-1.14538	0.253319	0.33203	0.131794	2.5193	0.012483
RBM12B.Q8IXT5	0.1693802	0.265475	0.638026	0.523747	-1.01378	0.641204	-1.58105	0.114885	-0.0796	0.191461	-0.41574	0.677886
AP1S2.F6SFB5	0.1226671	0.192676	0.636649	0.524643	0.609546	0.479982	1.269934	0.20506	-0.12609	0.142978	-0.88188	0.378525
RAB5C.P51148	0.1894552	0.297594	0.636623	0.52466	-1.17206	0.806413	-1.45343	0.147116	0.138093	0.240582	0.573994	0.566388
ELFN2.Q5R3F8	-0.110972	0.174387	-0.63635	0.524836	-0.28597	0.424432	-0.67378	0.500952	-0.45281	0.123708	-3.66031	0.000296
FKBP1A.Q5W0X3	-0.096621	0.151854	-0.63627	0.524888	0.310876	0.375855	0.827116	0.408807	0.037285	0.111914	0.333156	0.739242
MXRA7.P84157.3	-0.087255	0.137089	-0.63648	0.524988	0.476647	0.378092	1.260666	0.209061	-0.44296	0.109504	-4.0451	7.75E-05
MSI2.Q96DH6	-0.062445	0.098186	-0.63599	0.525081	-0.00308	0.24175	-0.01275	0.989837	-0.16196	0.072517	-2.23344	0.02626
PLOD2.E7ETU9	-0.088213	0.138661	-0.63618	0.525159	-0.13574	0.355352	-0.382	0.702884	0.151634	0.100881	1.503096	0.134449
RHOB.P62745	-0.116767	0.183653	-0.6358	0.525195	-0.33238	0.467257	-0.71133	0.477413	0.046008	0.13909	0.330782	0.741033
MRPL15.Q9P015	-0.080568	0.126751	-0.63564	0.525301	0.199356	0.318771	0.62539	0.532175	-0.05085	0.094844	-0.53613	0.592251
PNOC.Q13519	-0.064671	0.101753	-0.63557	0.525466	-0.08369	0.270244	-0.30967	0.757118	0.103425	0.078893	1.31096	0.191283
SNRK.Q9NRH2	0.1716472	0.27016	0.635355	0.525495	0.991254	0.670335	1.478744	0.140251	0.234179	0.200035	1.170692	0.242646
HSD17B8.Q92506	-0.094141	0.148194	-0.63525	0.525552	0.051041	0.376147	0.135693	0.892152	0.017147	0.111896	0.153242	0.878307
MFSD10.Q14728	0.0864931	0.136141	0.635318	0.525569	-0.00583	0.352531	-0.01653	0.986824	-0.04981	0.10206	-0.48808	0.625908
CDKL5.O76039.2	-0.135099	0.212788	-0.6349	0.525781	-0.29966	0.5441	-0.55075	0.582199	-0.48208	0.159608	-3.02038	0.002735
DFFA.O00273	0.1312103	0.206729	0.634697	0.525914	-0.94011	0.53066	-1.77158	0.077446	-0.28708	0.157819	-1.81908	0.069865
ITPKB.P27987	0.0985186	0.155233	0.63465	0.525945	-0.15557	0.421407	-0.36918	0.712248	-0.16227	0.12505	-1.29761	0.195385
GNB3.F5H100	-0.04153	0.065444	-0.63459	0.525983	0.03368	0.166761	0.201968	0.840075	-0.01288	0.049606	-0.25963	0.795319
ENAH.A0A075B6E5	-0.072937	0.114902	-0.63477	0.52612	-1.15287	0.401403	-2.87209	0.004603	-0.14926	0.115851	-1.2884	0.199379
KIF13A.Q9H1H9.3	0.0742257	0.116961	0.63462	0.526137	0.094118	0.38841	0.242317	0.808783	-0.08824	0.113985	-0.77416	0.439753
MT.ND1.P03886	-0.033687	0.053117	-0.6342	0.526351	0.04473	0.149819	0.298561	0.765557	0.000629	0.043387	0.014491	0.988452
MRPL48.Q96GC5	-0.078922	0.124478	-0.63402	0.526353	0.416366	0.329762	1.262627	0.207672	-0.09089	0.098215	-0.92545	0.355451
CTSB.P07858	-0.106292	0.167647	-0.63402	0.526356	1.036211	0.411216	2.519868	0.012242	-0.03316	0.123562	-0.26836	0.788602
ENTPD6.Q5QPI9	0.0927126	0.14621	0.634108	0.526401	0.252329	0.382904	0.658988	0.510574	-0.04069	0.110756	-0.36738	0.713681
C1QA.P02745	-0.037583	0.059305	-0.63373	0.526546	0.019845	0.149059	0.133132	0.894175	0.018538	0.044331	0.418163	0.676117
ZNF385A.Q96PM9	-0.093635	0.147791	-0.63356	0.526726	-0.42812	0.366846	-1.16703	0.244311	-0.33881	0.103318	-3.27929	0.001189
TNS1.E9PGF5	0.1316188	0.207823	0.633323	0.52681	-0.41491	0.524438	-0.79116	0.429458	-0.11498	0.156032	-0.73692	0.461727
SRCIN1.A0A087WU33	0.0586262	0.092532	0.633576	0.526842	-0.32208	0.236341	-1.36275	0.174616	-0.02005	0.072638	-0.27604	0.782827
NF2.P35240	-0.138838	0.219279	-0.63316	0.526919	0.071398	0.587481	0.121532	0.903349	0.157451	0.174541	0.902087	0.367711
CLVS1.Q8IUQ0	-0.161895	0.255722	-0.63309	0.526962	-0.68663	0.642828	-1.06813	0.286292	0.095881	0.191504	0.500676	0.616955
PCDHGA3.Q9Y5H0	-0.11709	0.184924	-0.63318	0.527007	-0.38063	0.473737	-0.80347	0.422542	-0.42438	0.135033	-3.14283	0.001895

MMRN2.Q9H8L6	-0.073699	0.1165	-0.63261	0.527286	0.034689	0.306472	0.113189	0.909957	0.211037	0.091988	2.294172	0.022469
PLSCR1.C9J9P4	0.0621526	0.098354	0.631925	0.527758	-0.38429	0.2389	-1.60856	0.108867	0.034707	0.07177	0.483584	0.629068
GRK6.P43250.2	-0.169004	0.267495	-0.6318	0.527801	-0.03029	0.691775	-0.04378	0.965107	0.040197	0.205779	0.195342	0.845253
CREG2.Q8IUH2	-0.097875	0.154916	-0.63179	0.527866	-0.00741	0.418984	-0.01768	0.985908	-0.15573	0.122613	-1.27011	0.205198
RBM15B.Q8NDT2	0.073397	0.116205	0.631617	0.527965	-0.10305	0.310399	-0.332	0.740141	-0.04181	0.090021	-0.46448	0.642673
GYS1.P13807	-0.130877	0.207265	-0.63145	0.528034	0.32962	0.5652	0.583192	0.560188	-0.02486	0.168223	-0.1478	0.8826
FAM8A1.Q9UBU6	0.1032113	0.163461	0.631413	0.528071	0.09707	0.443176	0.219032	0.826777	-0.16731	0.134067	-1.24795	0.213042
CHMP1A.Q9HD42	-0.115959	0.183671	-0.63134	0.528102	-0.04466	0.451961	-0.09882	0.921347	0.058481	0.134412	0.435088	0.663801
LPAR1.Q6GPG7	0.0341941	0.054223	0.630625	0.528596	-0.25972	0.15827	-1.64101	0.101903	-0.00328	0.046945	-0.06986	0.944354
TESPA1.A0A087WUX0	-0.083105	0.131827	-0.63041	0.528716	-0.29656	0.318196	-0.932	0.352074	-0.11335	0.094784	-1.19583	0.23269
STARD5.Q9NSY2	-0.078245	0.124142	-0.63029	0.528829	0.396549	0.320279	1.238135	0.216707	-0.11433	0.094536	-1.20943	0.227522
NCDN.Q9UBB6	0.108663	0.172442	0.630141	0.528888	0.141055	0.456971	0.308674	0.757777	0.126107	0.135773	0.928806	0.353712
TMEM165.Q9HC07	0.0867163	0.137602	0.630196	0.528898	-0.27988	0.404808	-0.69139	0.489924	0.040142	0.120251	0.333818	0.738781
MAPK8.P45983.2	0.1185303	0.188167	0.629921	0.529067	-0.08459	0.459505	-0.18408	0.85408	0.012584	0.13846	0.090886	0.927648
KPNA6.O60684	0.1587033	0.25203	0.6297	0.529176	0.209277	0.630678	0.331828	0.740243	0.472434	0.185721	2.543788	0.011451
RIPK2.O43353	-0.11632	0.184852	-0.62926	0.529473	0.019026	0.515658	0.036896	0.970593	0.083187	0.150009	0.554546	0.579623
EIF2D.P41214	0.1043361	0.165812	0.629242	0.529534	0.590277	0.453416	1.301845	0.194117	0.204138	0.140622	1.451685	0.14779
MARK2.Q7KZ17.15	-0.061335	0.097443	-0.62944	0.529598	-0.64803	0.305286	-2.12271	0.035201	-0.00049	0.094004	-0.00518	0.995875
ATG2A.Q2TAZ0	-0.134523	0.213894	-0.62892	0.529685	-0.03175	0.64076	-0.04955	0.960515	0.049771	0.190595	0.261133	0.794163
ARF3.F5H6T5	0.0620601	0.098636	0.629183	0.529765	-0.19606	0.249742	-0.78504	0.433563	0.100163	0.071392	1.403002	0.162507
RHBDL1.O75783	-0.069474	0.110541	-0.62849	0.530039	0.113629	0.301082	0.377401	0.706188	0.013183	0.088391	0.149142	0.881559
B2M.HOYL18	0.0446559	0.0711	0.628074	0.53024	0.261776	0.18927	1.383081	0.167635	0.071425	0.056332	1.267925	0.205776
SUPT16H.Q9Y5B9	0.1391782	0.221607	0.628041	0.530262	-0.12826	0.524625	-0.24449	0.807016	-0.15532	0.155832	-0.99672	0.319679
CNPY3.Q9BT09	-0.11802	0.188047	-0.62761	0.530542	-1.17831	0.460209	-2.56038	0.010929	0.191031	0.137918	1.385108	0.167015
BRIX1.Q8TDN6	-0.110819	0.176541	-0.62772	0.530549	0.372592	0.428934	0.868646	0.385905	0.066724	0.126109	0.529097	0.597225
CAMK2G.Q13555.9	-0.107973	0.172052	-0.62756	0.530577	0.338884	0.467879	0.724299	0.469429	0.059009	0.139263	0.423724	0.672061
SLC8A1.P32418.3	-0.102779	0.163671	-0.62796	0.530601	0.33529	0.458853	0.730714	0.466125	-0.22612	0.135566	-1.668	0.09746
RTN3.O95197.3	-0.052106	0.083038	-0.62749	0.53079	0.191386	0.208838	0.916429	0.360622	0.120462	0.054403	2.21424	0.028021
TPM1.P09493.9	-0.034565	0.055148	-0.62675	0.531113	0.154686	0.137201	1.127445	0.260452	-0.05491	0.041121	-1.33528	0.182795
DNAJB6.O75190.2	0.1431385	0.228618	0.626102	0.531531	-0.69007	0.532244	-1.29653	0.195756	0.280428	0.157961	1.775296	0.07683
UNC119B.A6NIH7	0.1394047	0.222687	0.626011	0.531591	0.807824	0.570898	1.415007	0.15807	0.106652	0.170272	0.626362	0.531539
CPNE5.Q9HCH3	-0.106883	0.170802	-0.62577	0.531747	-0.1187	0.417638	-0.28423	0.776428	0.095422	0.124138	0.768673	0.442673
DYNC2L1.Q8TCX1	0.1178568	0.188412	0.625528	0.532043	-0.08365	0.562356	-0.14876	0.881891	0.141284	0.169396	0.834045	0.405217
CTSL.P07711	0.0750153	0.119975	0.625257	0.532085	0.334868	0.300875	1.112981	0.266579	-0.03055	0.089667	-0.34071	0.733555

SULT4A1.Q9BR01	0.0966371	0.154582	0.625151	0.532155	0.349884	0.391938	0.892703	0.372709	0.127443	0.11652	1.093742	0.274918
CEP170.Q5SW79.3	-0.101672	0.162612	-0.62525	0.532274	0.027231	0.419507	0.064911	0.94831	-0.24687	0.129144	-1.91155	0.057371
C1orf95.F8WD64	-0.073874	0.118265	-0.62465	0.532484	-0.47937	0.293835	-1.63142	0.103816	-0.06619	0.087705	-0.7547	0.451005
NRAS.P01111	-0.063979	0.102433	-0.62459	0.532524	0.164055	0.297273	0.551867	0.581437	0.049506	0.088432	0.559816	0.576009
CTSA.P10619	-0.101778	0.162961	-0.62455	0.532551	0.606813	0.415823	1.459307	0.14551	0.143384	0.124967	1.147379	0.252124
NMT2.O60551	-0.128089	0.205106	-0.6245	0.532582	0.09864	0.53432	0.184608	0.853657	-0.44934	0.156897	-2.86394	0.004469
MAP4.P27816	0.0497957	0.079763	0.624299	0.532719	0.114248	0.213682	0.534664	0.593271	-0.34471	0.061051	-5.64628	3.75E-08
PELI2.Q9HAT8	-0.067154	0.107615	-0.62402	0.533008	0.326913	0.30457	1.073359	0.284255	-0.10818	0.086861	-1.24539	0.214278
RGS10.O43665	-0.062327	0.099915	-0.6238	0.533043	-0.44462	0.25864	-1.71907	0.086614	-0.04734	0.077932	-0.60749	0.543978
PRKACB.P22694.7	0.0786229	0.12609	0.623547	0.533207	0.081494	0.320002	0.254666	0.79915	0.041065	0.095176	0.431459	0.666434
PEX11B.O96011	0.0964084	0.15466	0.623355	0.533333	-0.25447	0.396967	-0.64103	0.52198	0.47466	0.115053	4.125592	4.76E-05
FBLN5.G3V4U0	0.0552477	0.088615	0.623457	0.533367	0.204866	0.239317	0.856046	0.392908	-0.06286	0.072125	-0.87161	0.384377
RPS27.P42677	0.1158639	0.185907	0.623237	0.533411	-0.60907	0.479262	-1.27084	0.204738	0.08319	0.142865	0.582302	0.560787
TMED5.Q9Y3A6	-0.046674	0.074895	-0.6232	0.533452	0.019681	0.255152	0.077134	0.93857	-0.00155	0.075619	-0.02052	0.983639
GSTM1.P09488	0.009782	0.015712	0.622578	0.533844	-0.08075	0.03916	-2.06217	0.040024	0.002023	0.011728	0.172491	0.863164
TESC.Q96BS2	-0.096009	0.154294	-0.62225	0.534061	0.183863	0.37741	0.487171	0.626482	0.07847	0.112227	0.699206	0.484948
SNX1.Q13596	0.2015578	0.324044	0.622008	0.534218	0.295186	0.877695	0.336319	0.736858	0.346344	0.260404	1.330024	0.184488
BTN2A1.Q7KYR7	0.062375	0.100312	0.621811	0.534347	0.12752	0.256639	0.496884	0.619623	-0.05956	0.076301	-0.78063	0.435615
HSPA4.P34932	-0.138298	0.222516	-0.62152	0.53454	0.25629	0.567483	0.451627	0.651854	0.230024	0.168365	1.366216	0.172861
CDC123.O75794	0.0945968	0.152184	0.621593	0.534555	-0.76263	0.400496	-1.90422	0.058012	-0.0184	0.115729	-0.15898	0.873813
ZNF706.Q9Y5V0	0.084454	0.135931	0.621299	0.534711	-0.15208	0.378976	-0.4013	0.688505	-0.13951	0.10963	-1.27254	0.204239
ISOC1.Q96CN7	0.1056519	0.170266	0.62051	0.535203	-0.68444	0.421409	-1.62417	0.105356	0.124935	0.125694	0.993964	0.321016
NTNG1.Q9Y2I2	-0.094501	0.152304	-0.62048	0.535224	-0.59942	0.394094	-1.52101	0.129277	-0.03379	0.117657	-0.28719	0.774158
SAMD12.B8ZZB7	-0.114716	0.18488	-0.62049	0.535227	0.436303	0.489528	0.891272	0.373493	-0.52004	0.142978	-3.63719	0.000324
LIMD2.J3QQM5	-0.04681	0.07544	-0.6205	0.535355	-0.33207	0.224238	-1.48086	0.140128	0.015822	0.065726	0.24072	0.810005
UBE2D2.P62837	0.0698691	0.11263	0.620343	0.535377	-0.18517	0.297408	-0.62262	0.534097	0.059731	0.08565	0.697389	0.486202
UBA5.Q9GZZ9	-0.132224	0.213224	-0.62012	0.535461	0.636523	0.546139	1.165497	0.244714	0.049718	0.162798	0.305399	0.760267
TCHP.Q9BT92	0.0629242	0.101425	0.620398	0.535597	0.019234	0.247003	0.077869	0.938037	0.163476	0.073071	2.237213	0.026757
PDIA5.Q14554	-0.104201	0.167999	-0.62025	0.535672	-0.68507	0.425451	-1.61022	0.109411	0.144275	0.135412	1.065452	0.28835
KIF1A.Q12756.2	-0.198452	0.320204	-0.61977	0.535692	-0.9045	0.834772	-1.08353	0.279417	-0.55357	0.246805	-2.24296	0.025605
FAM76A.Q8TAV0	0.0927735	0.149649	0.619941	0.535745	0.399592	0.42653	0.936843	0.350047	-0.07243	0.123777	-0.58518	0.559131
C5orf45.Q6NTE8	0.0921141	0.148595	0.619902	0.535849	-0.00627	0.390943	-0.01604	0.987225	-0.03482	0.114531	-0.30401	0.761484
KCNIP3.A0A0A0MRH3	-0.076774	0.124006	-0.61912	0.536143	-0.15577	0.329293	-0.47305	0.636537	0.053223	0.098472	0.540487	0.589278
DGKQ.P52824	-0.093701	0.151464	-0.61863	0.536438	-0.14703	0.387021	-0.3799	0.704279	-0.2394	0.114353	-2.09351	0.037116

PHF3.Q92576	0.0809332	0.130818	0.61867	0.53647	-0.19962	0.352653	-0.56606	0.57184	-0.25995	0.105979	-2.45283	0.014834
UXT.A0A0C4DFR8	0.0713402	0.115436	0.618007	0.536913	-0.05243	0.289054	-0.1814	0.856199	0.072583	0.083851	0.865622	0.387521
CUL7.Q14999.2	-0.070494	0.114081	-0.61793	0.536953	0.074082	0.287043	0.258087	0.79654	-0.07104	0.083911	-0.84661	0.397974
NDP.Q00604	0.0783324	0.126707	0.618218	0.537046	0.341591	0.29951	1.140502	0.255984	0.111101	0.094976	1.169779	0.244036
OPRK1.A0A087WU84	0.074036	0.119823	0.617879	0.537181	-0.65152	0.318964	-2.04263	0.04271	0.029711	0.08115	0.366126	0.714749
VPS33B.Q9H267	-0.204067	0.33048	-0.61749	0.537194	-0.58974	0.799626	-0.73751	0.461367	-0.24664	0.237671	-1.03773	0.300203
ERBB2IP.Q96RT1	0.0964541	0.156286	0.617163	0.537406	-0.28062	0.425384	-0.65969	0.50994	-0.11918	0.126452	-0.94251	0.346664
PSPH.P78330	0.1405782	0.227797	0.61712	0.537434	0.594068	0.6197	0.958638	0.338488	0.254112	0.184058	1.38061	0.168394
CACNB3.P54284	-0.139864	0.226735	-0.61686	0.537605	-0.2032	0.616665	-0.32952	0.741987	0.065475	0.183441	0.356925	0.721391
UNK.Q9C0B0	0.1829504	0.296604	0.616816	0.537635	0.296418	0.753063	0.393616	0.694135	0.037416	0.224069	0.166984	0.867491
SYPL1.Q16563	0.0233592	0.037894	0.616435	0.537963	-0.00202	0.098985	-0.02039	0.983746	-0.024	0.027816	-0.86283	0.389092
FAR1.Q8WVX9	-0.072239	0.117242	-0.61615	0.538121	0.322516	0.278213	1.15924	0.247375	-0.02583	0.084095	-0.30719	0.758931
LYPD1.Q8N2G4	0.1024863	0.166263	0.61641	0.538198	-0.36678	0.457583	-0.80157	0.424061	0.179531	0.134145	1.338331	0.1828
NID1.P14543	0.0667414	0.108398	0.615705	0.538367	-0.24701	0.267585	-0.92313	0.35666	0.009222	0.07971	0.115699	0.907966
BBS4.Q96RK4	0.1114855	0.181195	0.615278	0.538662	0.27301	0.489883	0.557297	0.57775	-0.13608	0.146278	-0.93032	0.352974
SORT1.Q99523	0.1345619	0.218941	0.614602	0.539095	0.507452	0.561993	0.902951	0.367253	0.331101	0.166343	1.990469	0.047417
SCG3.Q8WXD2	-0.087333	0.142098	-0.6146	0.539097	0.066276	0.364177	0.181987	0.855711	-0.05125	0.108303	-0.47317	0.636424
CEBPZ.A0A087X1N2	0.10331	0.168033	0.614818	0.539129	0.070275	0.443013	0.158629	0.87413	-0.08538	0.127548	-0.6694	0.504053
ANKRD50.Q9ULJ7	0.1081483	0.175976	0.614563	0.539221	0.297713	0.452388	0.658092	0.511143	0.115568	0.134548	0.858932	0.39128
XRCC1.P18887	0.0859996	0.139962	0.614451	0.53924	-0.04336	0.364813	-0.11886	0.905474	-0.12451	0.106381	-1.17041	0.242901
FUT8.Q9BYC5	0.1077889	0.175472	0.614278	0.539366	-0.11256	0.46679	-0.24114	0.809639	-0.02034	0.139067	-0.14629	0.883805
KBTBD2.Q8IY47	-0.112218	0.182747	-0.61406	0.539471	0.238773	0.425756	0.560822	0.575348	0.150659	0.124526	1.209854	0.22731
OGFOD1.A0A0A0MTR2	0.0849993	0.138366	0.614308	0.539604	-0.17448	0.329054	-0.53025	0.596686	-0.10514	0.096552	-1.08899	0.277816
HDHD1.Q08623	-0.067065	0.109287	-0.61366	0.539718	0.346487	0.290478	1.19282	0.233852	0.017304	0.086604	0.199808	0.841761
GPATCH8.Q9UKJ3	0.1201799	0.195775	0.613868	0.539723	-0.70813	0.491213	-1.44159	0.150915	0.078991	0.144559	0.546427	0.585356
MTMR7.Q9Y216	-0.1234	0.201181	-0.61338	0.539905	0.105798	0.510467	0.207257	0.835945	-0.25171	0.151191	-1.66486	0.09695
STON2.Q8WXE9	-0.085251	0.138999	-0.61332	0.539942	-0.37205	0.365638	-1.01754	0.30969	-0.23604	0.108124	-2.18303	0.029784
PSMD14.O00487	-0.115133	0.187761	-0.61319	0.540026	-0.30965	0.508376	-0.60909	0.542912	0.121492	0.151166	0.803699	0.422187
USP40.Q9NVE5	-0.087257	0.142235	-0.61347	0.540099	0.34598	0.396575	0.87242	0.384255	-0.00391	0.122385	-0.03193	0.974564
GSTT2B.P0CG30	-0.015884	0.025909	-0.61305	0.54012	0.050725	0.066725	0.760206	0.447709	-0.00657	0.019864	-0.33097	0.740891
CNOT8.Q9UFF9	-0.103756	0.169128	-0.61347	0.540135	0.474642	0.436139	1.08828	0.278108	-0.01134	0.126543	-0.08962	0.928699
MYH9.P35579	-0.112146	0.182973	-0.61291	0.540212	-0.28661	0.466124	-0.61489	0.539081	0.286455	0.137791	2.078907	0.038448
FYTTD1.Q96QD9	0.0936565	0.152828	0.612821	0.54028	-0.24978	0.428524	-0.58288	0.560419	-0.04498	0.124769	-0.36051	0.718723
TYW5.A2RUC4	0.1102456	0.179925	0.612729	0.54036	0.164676	0.461336	0.356954	0.721392	0.324411	0.134477	2.412388	0.016485

RPRD1A.Q96P16	0.1216563	0.198612	0.612533	0.540462	0.672329	0.487133	1.380174	0.168528	0.232971	0.144755	1.609421	0.108542
PDE8B.O95263	-0.109554	0.178895	-0.61239	0.54057	-0.2245	0.435531	-0.51546	0.606619	0.060918	0.129297	0.471146	0.637888
SCO1.O75880	-0.136924	0.223601	-0.61236	0.540578	0.067228	0.564003	0.119198	0.905195	-0.21001	0.16736	-1.25482	0.210489
SETD7.Q8WTS6	0.0950856	0.155316	0.612206	0.540678	0.481823	0.39591	1.217	0.22453	0.006203	0.118057	0.052541	0.958131
NUDT19.A8MXV4	-0.083871	0.137057	-0.61194	0.54086	0.678149	0.371677	1.824565	0.069055	0.078396	0.111281	0.704493	0.481669
INIP.Q9NRY2	-0.072022	0.117686	-0.61199	0.540893	0.552306	0.308886	1.788055	0.074959	-0.52177	0.089097	-5.85615	1.46E-08
ANK1.P16157.3	0.1015953	0.166003	0.612009	0.540932	0.239379	0.442465	0.541012	0.589049	0.20455	0.133121	1.536575	0.125841
SNRPE.P62304	0.0850454	0.139207	0.610929	0.541522	0.174853	0.408518	0.428017	0.668936	0.113384	0.121392	0.93403	0.351015
GFM2.Q969S9	0.0469974	0.076955	0.610709	0.541668	-0.02691	0.195946	-0.13731	0.890873	-0.06684	0.058168	-1.14912	0.251394
C1QB.P02746	-0.032844	0.053804	-0.61043	0.541849	0.077839	0.135225	0.57563	0.565283	0.013588	0.040241	0.337675	0.735837
SUOX.P51687	-0.140948	0.230899	-0.61043	0.541851	0.586066	0.604836	0.968965	0.333318	-0.17818	0.179916	-0.99035	0.322774
MOB3A.Q96BX8	0.0839462	0.137574	0.61019	0.54203	0.059335	0.342933	0.173021	0.862754	0.155848	0.102063	1.526979	0.127845
NME1.P15531	0.1027879	0.168584	0.609712	0.542327	-0.19137	0.451034	-0.4243	0.671639	-0.10858	0.134072	-0.80989	0.418625
LXN.Q9BS40	-0.055091	0.090357	-0.60971	0.542343	0.317209	0.217403	1.459083	0.145596	-0.02754	0.065408	-0.42112	0.673974
SEMA4C.Q9C0C4	0.1152247	0.18912	0.609268	0.542649	0.086588	0.503639	0.171924	0.863622	0.017037	0.145699	0.116933	0.906997
RBM12.Q9NTZ6	0.1037769	0.170371	0.609124	0.542717	0.261866	0.42388	0.617782	0.537173	-0.02104	0.126169	-0.16677	0.867658
EPB42.P16452	0.0498316	0.081853	0.608797	0.542942	0.076859	0.212465	0.361748	0.717794	0.101304	0.063292	1.600585	0.110514
DNASE2.O00115	-0.065267	0.107225	-0.60869	0.543005	0.295422	0.270357	1.092712	0.275369	0.160127	0.080066	1.999933	0.04638
GLT1D1.Q96MS3	0.0644802	0.10594	0.608646	0.543365	0.343695	0.2503	1.37313	0.171846	-0.07663	0.078776	-0.97276	0.332303
COX15.Q7KZN9	-0.132431	0.217985	-0.60752	0.543777	-1.12226	0.587299	-1.91088	0.056942	0.072875	0.175688	0.4148	0.678575
SLC25A25.Q6KCM7.5	-0.132669	0.218413	-0.60742	0.543844	0.025495	0.586726	0.043453	0.965368	0.212033	0.174125	1.217703	0.224263
LACTB.P83111	0.0862639	0.142029	0.607369	0.543879	0.278901	0.390889	0.713503	0.476072	0.001155	0.116378	0.009928	0.992085
NHSL1.Q5SYE7	0.0698672	0.115013	0.607473	0.543895	-0.30139	0.316895	-0.95109	0.342529	-0.48268	0.090457	-5.33598	2.22E-07
SRP14.P37108	0.1015136	0.167159	0.607287	0.543934	-1.18326	0.413463	-2.86182	0.004499	-0.37355	0.122793	-3.04211	0.00255
GRID2.O43424	0.0390061	0.06422	0.607379	0.543978	0.086014	0.219894	0.391162	0.696051	0.021358	0.067266	0.317522	0.751145
ERAL1.O75616	-0.062116	0.102318	-0.60708	0.544077	0.286946	0.255065	1.124991	0.261489	-0.04174	0.077102	-0.54135	0.588663
CADM3.Q8N126	-0.108602	0.178903	-0.60704	0.544096	0.168954	0.454176	0.372002	0.710145	-0.23335	0.134488	-1.73513	0.083712
SNCB.Q16143	-0.068694	0.113186	-0.60692	0.54418	0.501216	0.334812	1.497009	0.135408	-0.37341	0.097684	-3.82267	0.00016
FABP5.Q01469	0.0749737	0.123566	0.606751	0.544289	0.122824	0.324736	0.378226	0.705521	0.167678	0.096155	1.743834	0.082179
TMA7.Q9Y2S6	0.0618387	0.101951	0.606555	0.544419	0.349949	0.250343	1.39788	0.163149	-0.00715	0.074706	-0.09568	0.923834
TIMM17B.O60830	-0.079123	0.130453	-0.60653	0.544456	0.211561	0.474577	0.445789	0.656086	-0.2845	0.13604	-2.09128	0.037382
FBN1.P35555	0.0201372	0.033211	0.606338	0.544572	0.008594	0.08339	0.103059	0.917986	-0.0002	0.024272	-0.00836	0.993336
DNAH10.Q8IVF4	-0.037401	0.061722	-0.60596	0.544991	-0.18353	0.14941	-1.22834	0.220905	-0.01798	0.047599	-0.37767	0.706119
RNF130.E5RI87	0.0850146	0.140435	0.605368	0.545313	-0.02395	0.347186	-0.06899	0.945062	0.12538	0.102516	1.22302	0.222585

GYG1.P46976	-0.082297	0.136048	-0.60491	0.54551	-0.56606	0.341719	-1.65649	0.098634	-0.05436	0.102058	-0.5326	0.594692
TCP1.P17987	0.2154426	0.356313	0.604644	0.545688	-0.2445	0.888019	-0.27533	0.783244	0.70571	0.261144	2.702376	0.007264
TPM4.P67936.2	-0.112234	0.185711	-0.60435	0.545884	0.419684	0.466306	0.900019	0.368809	0.001364	0.138899	0.009819	0.992172
COL6A3.P12111	0.0230284	0.038142	0.603757	0.546277	0.005213	0.096525	0.054012	0.956961	-0.0269	0.028674	-0.9382	0.348872
MERTK.E9PHX8	-0.109929	0.182139	-0.60355	0.546417	-0.22218	0.428681	-0.5183	0.604622	-0.1244	0.127385	-0.9766	0.329527
BRE.Q9NXR7	0.1735542	0.287607	0.603443	0.546486	-0.97342	0.734618	-1.32506	0.186126	0.456494	0.217615	2.097717	0.03674
STRAP.Q9Y3F4	-0.195222	0.323579	-0.60332	0.546567	-0.91836	0.823307	-1.11545	0.265522	-0.00732	0.24541	-0.02982	0.97623
BAIAP2.I3L3C6	0.0880396	0.145935	0.60328	0.546766	-0.17436	0.368506	-0.47316	0.636639	-0.34382	0.10624	-3.23629	0.001427
PLD2.O14939	-0.085332	0.14156	-0.60279	0.546926	-0.37322	0.390542	-0.95564	0.340029	0.080415	0.113749	0.706949	0.480152
NRD1.B1AKJ5	-0.125139	0.207663	-0.60261	0.547042	0.386059	0.55074	0.700983	0.48384	0.086145	0.163892	0.525621	0.599528
GRIK3.Q13003	0.1073904	0.178226	0.602553	0.547077	0.164901	0.453796	0.363381	0.716568	0.198708	0.134553	1.476809	0.140742
HLA.A.P01892	-0.023841	0.039571	-0.60248	0.547124	-0.13815	0.100063	-1.38065	0.168382	0.030214	0.029809	1.013602	0.311563
SNX5.Q9Y5X3	-0.163223	0.271069	-0.60215	0.547348	0.090097	0.705459	0.127714	0.898458	0.049458	0.209848	0.235682	0.813835
REM2.Q8IYK8	-0.086673	0.14397	-0.60202	0.547481	0.369367	0.356477	1.036158	0.301087	-0.05158	0.109394	-0.47152	0.637662
PODXL.O00592	-0.090525	0.150429	-0.60178	0.547593	-0.47714	0.34418	-1.38632	0.166645	-0.07289	0.102621	-0.71024	0.478091
GPM6B.Q13491.3	0.0305653	0.050797	0.601709	0.547656	-0.13446	0.143553	-0.93668	0.349703	-0.05297	0.041935	-1.26314	0.207558
KIF5C.O60282	-0.14578	0.242523	-0.6011	0.548046	-0.01181	0.63279	-0.01867	0.98512	0.144818	0.188064	0.770047	0.441858
SHMT1.P34896	0.0692656	0.115256	0.60097	0.54813	0.23231	0.297695	0.780364	0.435772	0.099089	0.088467	1.120067	0.263552
NCKAP1L.P55160	-0.066309	0.110377	-0.60075	0.548274	0.155789	0.281053	0.554305	0.57977	0.136064	0.083292	1.633576	0.103363
UXS1.Q8NBZ7	0.1044394	0.173872	0.60067	0.548503	0.297781	0.416952	0.714186	0.475984	-0.04689	0.13026	-0.36	0.719246
RARS.P54136	0.1758451	0.293183	0.59978	0.548922	-0.24457	0.801764	-0.30504	0.76054	-0.13107	0.23843	-0.54973	0.5829
BLVRB.P30043	0.0752005	0.125415	0.599612	0.549034	0.298254	0.302749	0.985154	0.325317	0.082909	0.09008	0.920386	0.358087
TIMP3.P35625	0.0286193	0.047731	0.599591	0.549257	-0.00186	0.120948	-0.0154	0.987727	-0.01234	0.037586	-0.32827	0.743103
METAP1D.Q6UB28	-0.092558	0.154458	-0.59925	0.54943	0.258856	0.392675	0.659212	0.510511	-0.00709	0.117428	-0.06039	0.951907
GLRX.P35754	0.1006978	0.168187	0.598726	0.549625	0.290041	0.411049	0.705612	0.480959	0.192678	0.121888	1.580782	0.114948
GRIP2.A0A087WX15	0.0990755	0.165476	0.598729	0.549655	0.712136	0.406828	1.750458	0.081142	0.020933	0.119159	0.175669	0.860681
ARF6.P62330	-0.081597	0.136323	-0.59856	0.549738	0.353132	0.346547	1.019003	0.308996	-0.04735	0.103229	-0.45872	0.646759
CMTM4.Q8IZR5.2	0.0804198	0.134405	0.598339	0.549892	-0.08466	0.348988	-0.24259	0.808494	-0.26667	0.1004	-2.65609	0.008332
PACSIN3.Q9UKS6	0.1148638	0.191988	0.598285	0.549918	-0.10578	0.498811	-0.21206	0.832198	0.098395	0.148293	0.663519	0.507491
PPP1R21.Q6ZMI0	-0.197648	0.330629	-0.59779	0.550246	-0.43193	0.844611	-0.51139	0.609442	-0.03754	0.251354	-0.14934	0.881383
SELM.Q8WWX9	-0.085567	0.14317	-0.59766	0.550402	0.390164	0.362184	1.077254	0.282439	0.087027	0.101329	0.858849	0.391274
FADS3.Q9Y5Q0	-0.082457	0.138013	-0.59746	0.550582	0.019099	0.396065	0.048223	0.961584	0.096467	0.108996	0.885054	0.377126
ALDH7A1.P49419	0.0725339	0.121446	0.597255	0.550606	-0.2273	0.33975	-0.66904	0.503971	0.044131	0.101111	0.43646	0.662807
TMEM33.P57088	0.1210047	0.202845	0.596539	0.551083	-0.95579	0.540014	-1.76994	0.077721	0.189735	0.161094	1.177791	0.239783

ATXN1.P54253	0.1056919	0.177225	0.596372	0.551199	0.180243	0.470566	0.383035	0.70196	0.071925	0.141205	0.509366	0.610864
CDH19.Q9H159	0.0711539	0.119357	0.596145	0.551475	-0.27931	0.305847	-0.91324	0.362147	0.032012	0.089469	0.357802	0.720844
MID1.O15344	-0.10336	0.17345	-0.59591	0.551505	-0.09133	0.434241	-0.21032	0.833553	-0.00337	0.129188	-0.02607	0.979215
PTAR1.Q7Z6K3	0.1026203	0.172213	0.595891	0.551538	0.050102	0.438948	0.114142	0.909206	0.16371	0.127062	1.288419	0.198652
BCL7A.Q4VC05.2	0.0860599	0.144551	0.59536	0.551902	-0.18519	0.360279	-0.51402	0.607649	-0.09382	0.107673	-0.87139	0.384295
TMEM132E.Q6IEE7	0.0633432	0.106405	0.595304	0.551908	-0.1205	0.244003	-0.49386	0.621755	-0.01473	0.07261	-0.20286	0.839376
MUSTN1.C9JYJ2	-0.038512	0.064775	-0.59455	0.552419	-0.09572	0.166465	-0.57501	0.565713	-0.05561	0.049984	-1.11255	0.266788
ADCK3.Q8NI60	-0.107026	0.180041	-0.59446	0.552475	0.054235	0.430272	0.126047	0.899776	-0.04206	0.127979	-0.32866	0.742634
CDKAL1.Q5VV42	0.0892627	0.15012	0.594611	0.552498	-0.38593	0.415686	-0.92842	0.354245	0.102876	0.124042	0.829364	0.407832
DIXDC1.Q155Q3	0.1177762	0.198143	0.594401	0.552554	0.370774	0.538716	0.688255	0.491883	-0.00287	0.160824	-0.01785	0.985773
PPAPDC3.X6R886	-0.083931	0.141322	-0.5939	0.552927	-0.95876	0.395646	-2.42328	0.016125	-0.00375	0.11928	-0.03141	0.974966
CANX.D6RB85	-0.090915	0.153157	-0.5936	0.553146	-0.46293	0.364401	-1.27039	0.205288	-0.04517	0.105852	-0.42675	0.669979
KIAA2013.Q8IYS2	-0.095462	0.160862	-0.59344	0.553312	0.760019	0.444121	1.711288	0.088618	0.181436	0.136533	1.32888	0.18544
FRS2.Q8WU20	-0.110434	0.186154	-0.59324	0.553331	-0.11482	0.510794	-0.22479	0.822313	-0.09686	0.150775	-0.64243	0.521152
HOOK2.Q96ED9	-0.100576	0.169547	-0.59321	0.55337	-0.3011	0.426229	-0.70643	0.48057	-0.11951	0.127338	-0.93854	0.348859
GMIP.Q9P107	-0.112709	0.190063	-0.59301	0.553598	0.403721	0.518409	0.778769	0.437036	0.033625	0.160781	0.209138	0.834554
CPT1A.P50416	-0.098311	0.165921	-0.59251	0.553773	0.04771	0.446634	0.106821	0.915	-0.10601	0.132732	-0.79866	0.425098
TRMT112.Q9UI30	0.1128815	0.190521	0.592487	0.55379	0.703488	0.478757	1.469404	0.142737	0.047236	0.142892	0.330569	0.741193
MTAP.F8WES2	0.0841873	0.142114	0.592393	0.553892	0.13797	0.374985	0.367936	0.713205	0.152528	0.113759	1.340801	0.181095
LLGL2.J3QRV5	0.0588578	0.099382	0.592241	0.553992	0.115821	0.252258	0.459137	0.646504	0.191928	0.075097	2.555735	0.011143
MAEA.Q7L5Y9	-0.11832	0.199857	-0.59202	0.554101	-0.54975	0.56004	-0.98162	0.327052	-0.02107	0.166857	-0.1263	0.899577
RABL2A.Q9UBK7.2	-0.093427	0.15785	-0.59187	0.554201	-0.08021	0.417011	-0.19234	0.8476	-0.20411	0.123518	-1.65246	0.099454
SLIT1.O75093	0.0859222	0.145186	0.591807	0.554245	-0.14547	0.366898	-0.39648	0.692021	0.022894	0.109165	0.209715	0.834028
TBKBP1.A7MCY6	0.0771227	0.130301	0.591882	0.554305	0.117937	0.35799	0.329443	0.742139	0.099742	0.105784	0.942878	0.346792
SYNCRIP.O60506	0.1225113	0.207046	0.591712	0.554309	0.422054	0.506213	0.833749	0.405064	-0.0353	0.150745	-0.23419	0.814992
CCDC58.C9JQ41	-0.143314	0.242254	-0.59159	0.554393	0.906657	0.642896	1.41027	0.159462	-0.03207	0.191854	-0.16718	0.867335
TMEM120B.A0PK00	-0.066762	0.112868	-0.5915	0.554486	0.785299	0.298484	2.630959	0.009009	-0.00825	0.086984	-0.09485	0.924506
PIGO.Q8TEQ8	-0.107199	0.181225	-0.59152	0.554523	-0.04848	0.434535	-0.11156	0.911268	0.141379	0.125937	1.122619	0.26274
FAHD2B.Q6P2I3	-0.06063	0.102521	-0.59139	0.554561	0.218757	0.270209	0.809586	0.418896	-0.06856	0.079901	-0.85809	0.39161
DPH1.Q9BZG8	0.0754932	0.127661	0.591356	0.554608	0.047795	0.331399	0.144221	0.885438	0.035467	0.101633	0.34897	0.727395
RRP12.Q5JTH9	-0.074108	0.125368	-0.59112	0.554727	0.036867	0.306549	0.120265	0.904357	0.003684	0.092704	0.039737	0.96833
SAP30L.Q9HAJ7	-0.122623	0.207966	-0.58963	0.555868	-0.36208	0.588321	-0.61544	0.538995	-0.09961	0.170137	-0.58546	0.558933
CSAD.J3KPG9	-0.092272	0.156595	-0.58924	0.555987	0.198423	0.433979	0.457219	0.647863	-0.07882	0.129708	-0.6077	0.543875
NDUFA10.O95299	-0.091726	0.155695	-0.58913	0.556035	0.355907	0.400988	0.887575	0.375457	0.010352	0.119437	0.086672	0.930988

NOVA1.P51513	0.1412876	0.239865	0.58903	0.556105	0.039231	0.570155	0.068808	0.945187	0.140203	0.169425	0.82752	0.408579
GUF1.Q8N442	-0.086478	0.146866	-0.58882	0.556243	-0.46574	0.365686	-1.2736	0.203758	0.03091	0.109055	0.283433	0.777034
RPS17L.P0CW22	0.1403775	0.238526	0.58852	0.556447	-0.84267	0.615593	-1.36888	0.172028	0.071378	0.183636	0.388692	0.697771
CRELD2.Q6UXH1	-0.061689	0.10485	-0.58836	0.556565	-0.38423	0.266377	-1.44242	0.150231	-0.11615	0.080592	-1.4412	0.150575
ACSL1.P33121	0.0842949	0.143312	0.588193	0.556666	0.036866	0.339026	0.10874	0.913479	-0.00479	0.100856	-0.04745	0.962187
ASAP3.Q8TDY4	0.0910187	0.154781	0.58805	0.556762	0.090652	0.399111	0.227136	0.820468	-0.08378	0.118643	-0.70611	0.480649
C1orf122.Q6ZSJ8	-0.08993	0.152973	-0.58788	0.556962	0.303914	0.387353	0.784592	0.433454	-0.26601	0.120448	-2.20851	0.028139
IRS1.P35568	-0.102458	0.174551	-0.58698	0.557489	0.234897	0.447485	0.524928	0.600025	0.25103	0.129488	1.938641	0.053492
RHPN2.Q8IUC4	-0.078213	0.133429	-0.58618	0.558136	-0.07497	0.349545	-0.21448	0.83037	-0.00924	0.102967	-0.08974	0.928574
ACSL3.O95573	-0.167802	0.286524	-0.58565	0.558374	3.13531	0.709365	4.419886	1.37E-05	-0.11816	0.217467	-0.54333	0.587292
SYAP1.Q96A49	-0.128399	0.219307	-0.58548	0.55849	0.947419	0.574093	1.650287	0.099897	-0.28208	0.170781	-1.65171	0.099606
TOX4.O94842	0.1053454	0.180024	0.585175	0.558723	-0.61521	0.478415	-1.28593	0.199552	0.06623	0.139098	0.476138	0.634356
C11orf49.Q9H6J7	-0.085612	0.146327	-0.58507	0.558841	0.446662	0.374693	1.192077	0.234423	0.19618	0.1102	1.780212	0.076322
PLG.P00747	0.042293	0.07234	0.584639	0.559052	0.061236	0.176884	0.346194	0.729432	0.130223	0.052108	2.4991	0.012968
PFKFB3.Q5VX20	-0.114934	0.196601	-0.5846	0.559137	0.032213	0.472718	0.068144	0.945725	0.038469	0.137087	0.280621	0.77923
USP9X.Q93008	0.1891225	0.323655	0.584333	0.559258	0.173907	0.833755	0.208583	0.834911	0.421292	0.246888	1.706407	0.088934
MUT.P22033	-0.071713	0.122728	-0.58433	0.559263	0.410754	0.313087	1.311949	0.190508	-0.0053	0.093395	-0.05679	0.954746
DNM1L.O00429	-0.090727	0.155269	-0.58432	0.559291	-0.18968	0.416167	-0.45578	0.648899	0.111118	0.122352	0.908186	0.36455
RAB33B.Q9H082	-0.127532	0.218394	-0.58396	0.55952	-0.26342	0.560167	-0.47025	0.638515	0.058705	0.166962	0.351605	0.72538
RXRB.P28702	0.0784204	0.134302	0.583911	0.559609	-0.12992	0.369968	-0.35118	0.725749	0.134379	0.108284	1.24099	0.215768
MRC1.P22897	-0.05978	0.102397	-0.58381	0.559671	-0.05036	0.260229	-0.19354	0.846693	0.030519	0.076618	0.398332	0.69072
RCN2.Q14257	-0.104183	0.178496	-0.58367	0.559702	0.350937	0.483753	0.725447	0.468725	-0.10599	0.143904	-0.7365	0.461982
WNK2.Q9Y3S1	-0.220468	0.378177	-0.58298	0.560171	1.241992	0.975089	1.273721	0.203716	-0.62804	0.288634	-2.17592	0.030316
DDX24.Q9GZR7	0.069177	0.118719	0.582693	0.560361	-0.48091	0.309293	-1.55488	0.120995	0.054163	0.092316	0.586709	0.557826
DNAJC7.Q99615	0.1452354	0.249534	0.582025	0.56081	-0.83972	0.637745	-1.31669	0.188914	0.214342	0.189858	1.12896	0.259788
DDX25.Q9UHL0	0.0882565	0.151642	0.582004	0.561021	0.060604	0.427714	0.141692	0.887484	-0.29328	0.123667	-2.37151	0.018783
TOMM34.Q15785	-0.086577	0.14899	-0.58109	0.561436	-0.10155	0.397113	-0.25571	0.798344	-0.00292	0.118146	-0.0247	0.98031
PPP4R2.Q9NY27	0.0927272	0.159582	0.581064	0.561457	0.195483	0.417724	0.467971	0.640134	-0.0583	0.124265	-0.46912	0.639311
DPCD.Q9BVM2	-0.089614	0.15423	-0.58104	0.561483	0.445606	0.450101	0.990015	0.322973	-0.05641	0.131181	-0.43005	0.667475
WDR47.O94967.4	0.074614	0.128459	0.58084	0.561634	0.247371	0.369222	0.669978	0.50343	-0.05481	0.107882	-0.50808	0.611802
C12orf45.A0A087WT30	0.0863142	0.148638	0.5807	0.561734	-0.75322	0.403655	-1.86599	0.063077	-0.20033	0.121975	-1.64238	0.101623
RAB9A.P51151	0.1579372	0.27222	0.580181	0.562052	0.076172	0.692318	0.110024	0.912462	0.637556	0.202748	3.144571	0.001824
TRAF3IP1.Q8TDRO	0.0842044	0.14512	0.580239	0.562229	-0.23536	0.329851	-0.71353	0.476483	-0.1313	0.101655	-1.29163	0.198217
DGKD.Q16760	0.0736366	0.126972	0.579944	0.562271	-0.39165	0.305751	-1.28095	0.201393	0.050641	0.087288	0.580154	0.562331

PHYKPL.Q8IUZ5	0.0931882	0.160692	0.579919	0.562281	0.281569	0.422593	0.666289	0.505824	0.26849	0.122226	2.196669	0.028937
MED4.Q9NPJ6	0.1029875	0.177613	0.579841	0.562317	-0.38117	0.454945	-0.83784	0.402857	0.114637	0.133829	0.856594	0.392423
HEXIM1.O94992	-0.075436	0.130119	-0.57974	0.562355	0.342991	0.30637	1.119534	0.263802	-0.18655	0.091192	-2.04564	0.041657
SRSF9.Q13242	0.0974143	0.168077	0.579581	0.562456	-0.20255	0.404323	-0.50096	0.616753	-0.08319	0.120235	-0.69194	0.489496
PML.P29590	0.1151756	0.19874	0.57953	0.562491	-1.02544	0.509903	-2.01105	0.045186	-0.05618	0.15264	-0.36802	0.713106
ENPP4.Q9Y6X5	0.0926982	0.160071	0.579107	0.562776	-0.55946	0.397988	-1.40571	0.160811	0.148939	0.11847	1.257189	0.209632
UBLCP1.Q8WVY7	0.0542787	0.093805	0.578636	0.563094	0.111	0.243461	0.455923	0.648764	-0.10406	0.072208	-1.44115	0.150551
PTBP3.O95758.1	0.0651609	0.112608	0.57865	0.563137	-0.1114	0.285077	-0.39076	0.69629	0.008363	0.083826	0.099766	0.920606
RAB25.A0A0C4DGX5	0.0183943	0.031769	0.578998	0.563143	0.0111	0.083772	0.132506	0.894785	-1.01E-05	0.02533	-0.0004	0.999682
KIF7.Q2M1P5	-0.009634	0.016646	-0.57872	0.563223	0.049627	0.044324	1.119649	0.264323	-0.01535	0.013412	-1.14468	0.253828
PARK2.O60260	0.0819677	0.14184	0.577888	0.563598	-0.30165	0.402107	-0.75017	0.453721	0.022542	0.119721	0.18829	0.850773
SARDH.Q9UL12	0.0467173	0.080916	0.577353	0.563959	0.09259	0.212556	0.435601	0.663429	-0.1105	0.062939	-1.75569	0.080128
PPT1.P50897	-0.081382	0.140999	-0.57719	0.564072	-0.22242	0.374921	-0.59324	0.553454	0.071241	0.111522	0.638807	0.52342
POLR3D.P05423	0.1012486	0.175397	0.577254	0.564093	0.014427	0.442998	0.032568	0.974045	-0.02159	0.136995	-0.15757	0.874923
TAP1.Q03518	-0.065797	0.114026	-0.57703	0.564184	-0.33724	0.314131	-1.07356	0.283879	0.087202	0.093658	0.93107	0.352561
FYB.O15117	-0.070803	0.122656	-0.57725	0.56429	0.156564	0.293578	0.533296	0.594608	-0.06816	0.086858	-0.7847	0.433849
KRT77.Q7Z794	0.0218321	0.037867	0.576543	0.564519	-0.13676	0.09552	-1.43179	0.153255	0.053932	0.028028	1.924188	0.055286
IQSEC1.A0A087WWK8	-0.195011	0.338773	-0.57564	0.565117	0.315508	0.839476	0.375839	0.707294	-0.68695	0.24672	-2.78431	0.005694
C12orf10.Q9HB07	0.1017521	0.176819	0.575457	0.565239	0.472514	0.455536	1.037271	0.300418	-0.04739	0.135722	-0.34917	0.727198
ATP2B3.Q16720	-0.073201	0.127314	-0.57496	0.56559	-0.46029	0.355527	-1.29468	0.196456	-0.34253	0.104319	-3.28346	0.001151
APOC1.P02654	0.0280965	0.048894	0.574644	0.565797	0.179443	0.116488	1.540442	0.124503	-0.01582	0.034631	-0.45679	0.64815
POLR2J.P52435	-0.094903	0.165236	-0.57435	0.566016	-0.42078	0.410761	-1.02439	0.306539	-0.02035	0.119043	-0.17095	0.864383
ARRB1.P49407.2	0.1342137	0.233922	0.573755	0.56639	0.092417	0.616425	0.149924	0.880922	0.342581	0.182347	1.878732	0.061219
CACUL1.Q86Y37	0.0956961	0.166808	0.573689	0.566465	-0.34293	0.465521	-0.73665	0.461968	0.133942	0.134797	0.993652	0.321272
TRAPPC12.Q8WVT3	0.2121683	0.370169	0.573165	0.566788	-1.06324	0.941872	-1.12886	0.25983	0.369156	0.279982	1.3185	0.18831
ANKRD36C.Q5JPF3	-0.083846	0.146259	-0.57327	0.566895	0.402825	0.399073	1.0094	0.314053	-0.06436	0.120764	-0.53297	0.594669
SRRM2.Q9UQ35	0.1194242	0.208434	0.57296	0.566927	-0.17824	0.53783	-0.33141	0.740556	-0.56802	0.156738	-3.62402	0.000339
APT.X.Q7Z2E3	0.082883	0.144712	0.572743	0.567217	-0.4209	0.363199	-1.15886	0.247924	0.032245	0.115653	0.278804	0.780689
PDGFRB.P09619	0.0932407	0.162948	0.572212	0.567441	0.117792	0.408409	0.288417	0.773225	0.091907	0.122053	0.753011	0.45203
RFC4.P35249	0.1023946	0.178999	0.572042	0.567595	0.264383	0.457908	0.577371	0.564179	0.114947	0.137075	0.838569	0.402467
NOP14.P78316	0.0467024	0.081689	0.57171	0.567851	0.287731	0.22007	1.307454	0.192347	-0.08475	0.066624	-1.272	0.204641
ATP6AP2.O75787	0.122717	0.214714	0.571537	0.56789	-0.50626	0.539359	-0.93864	0.348649	0.508836	0.158057	3.219314	0.001421
LHPP.Q9H008	0.0851908	0.149119	0.571294	0.568055	0.514713	0.382775	1.344688	0.179709	0.089825	0.114086	0.787347	0.431681
SLC4A1AP.A0A087X0M4	0.0943593	0.165444	0.57034	0.568719	-0.13264	0.415832	-0.31897	0.749979	-0.02726	0.125377	-0.21741	0.828041

CDC37L1.Q7L3B6	0.1436553	0.252099	0.569837	0.569042	1.165932	0.678265	1.718991	0.086614	-0.4495	0.201118	-2.23499	0.02613
MED6.G3V4A5	0.1009586	0.17717	0.569839	0.569252	-0.36122	0.470026	-0.76852	0.443241	-0.54655	0.141459	-3.8637	0.000158
CNOT11.Q9UKZ1	0.1285824	0.225958	0.569055	0.569572	-0.0653	0.597784	-0.10923	0.913087	-0.16765	0.177579	-0.94409	0.345859
MAP4.P27816.7	-0.044744	0.078684	-0.56866	0.569878	0.213942	0.219805	0.973327	0.331269	-0.26356	0.062812	-4.19606	3.70E-05
COBL.O75128.2	0.0934977	0.164465	0.568495	0.569952	-0.19197	0.416361	-0.46106	0.645082	-0.39363	0.121869	-3.22991	0.001371
PTK7.Q13308	-0.089872	0.158164	-0.56822	0.570157	-0.14056	0.416417	-0.33754	0.735956	-0.0679	0.123157	-0.55129	0.581855
ARFIP1.P53367.2	-0.07496	0.131936	-0.56816	0.570208	-0.38124	0.334817	-1.13865	0.255814	-0.11512	0.098744	-1.1659	0.244638
SFXN5.Q8TD22	0.0870071	0.153189	0.567971	0.570307	0.125671	0.387782	0.324076	0.746099	-0.23365	0.114612	-2.03865	0.042333
TNXB.P22105	-0.053904	0.094905	-0.56798	0.570317	-0.07314	0.223505	-0.32725	0.74371	0.012233	0.066328	0.184432	0.853802
MTA3.E7EV10	-0.089484	0.157587	-0.56784	0.570483	-0.58925	0.4095	-1.43895	0.151495	0.071114	0.117403	0.60572	0.545285
METTL14.Q9HCE5	0.067374	0.118814	0.567055	0.570946	-0.25999	0.287884	-0.90309	0.367219	-0.12141	0.086885	-1.39738	0.163356
MZT2B.H7BZ50	0.0230837	0.040705	0.567099	0.570997	0.165343	0.114009	1.450255	0.148368	0.141332	0.031904	4.429947	1.47E-05
VTN.P04004	0.0312242	0.055073	0.56696	0.57101	-0.03894	0.138132	-0.28188	0.778235	0.084254	0.040574	2.076579	0.038715
ESD.P10768	0.1076676	0.189994	0.566688	0.571178	0.133067	0.487269	0.273088	0.784968	0.386713	0.143298	2.698664	0.007343
NPTN.Q9Y639	0.0841374	0.148552	0.566383	0.571581	-0.21352	0.382922	-0.5576	0.577836	-0.04418	0.097123	-0.45489	0.649758
RTN1.Q16799.3	-0.046627	0.082386	-0.56596	0.571721	-0.06129	0.221293	-0.27697	0.782026	-0.01285	0.062307	-0.20627	0.836738
CHST1.O43916	0.0795498	0.140762	0.565137	0.572392	0.147465	0.405052	0.364064	0.716215	-0.07445	0.123714	-0.60181	0.548021
GRM5.P41594.2	-0.055478	0.098208	-0.5649	0.572449	0.027707	0.258066	0.107363	0.914586	-0.35786	0.073298	-4.88225	1.86E-06
MAPK3.P27361	0.0849199	0.15036	0.564778	0.572476	-0.36208	0.392272	-0.92304	0.356702	0.057675	0.116808	0.493757	0.621827
EIF4A2.Q14240	0.1773043	0.314185	0.564331	0.57278	-0.27429	0.788843	-0.34771	0.728292	0.932854	0.228655	4.07975	5.74E-05
NCOR2.C9J0Q5	-0.098639	0.174816	-0.56425	0.572858	-0.14379	0.478683	-0.30039	0.764096	-0.42277	0.141605	-2.98555	0.003073
PTGES3.Q15185.4	0.125009	0.221631	0.56404	0.572978	-0.77504	0.555052	-1.39633	0.163614	0.138755	0.165449	0.838658	0.402308
MAOB.P27338	0.0795363	0.141033	0.563956	0.573035	-0.17149	0.364291	-0.47075	0.638147	0.101333	0.108256	0.936045	0.349979
CWC22.Q9HCG8	0.0669034	0.118614	0.564042	0.573126	-0.0757	0.278507	-0.27179	0.786065	-0.04166	0.081833	-0.50907	0.611268
C17orf75.Q9HAS0	-0.137708	0.244361	-0.56354	0.573317	-0.22552	0.598118	-0.37705	0.706394	0.300047	0.177153	1.693719	0.091323
ACVR2A.P27037	0.0826569	0.146734	0.56331	0.57352	-0.64288	0.392368	-1.63846	0.102545	0.001819	0.114107	0.015944	0.987291
LYPD6.Q86Y78	0.1001466	0.177781	0.563315	0.57362	0.687092	0.492768	1.394352	0.164875	0.13887	0.154748	0.8974	0.370666
SURF6.O75683	0.066758	0.118565	0.56305	0.573727	-0.0713	0.344734	-0.20682	0.836325	-0.19768	0.102754	-1.92378	0.055575
PAIP1.Q9H074.2	-0.082923	0.147246	-0.56316	0.573753	-0.20902	0.396671	-0.52692	0.598833	-0.2508	0.127363	-1.96921	0.050317
PPP1R2.P41236	-0.097664	0.173507	-0.56288	0.573764	0.204501	0.478292	0.427565	0.669265	-0.78087	0.135239	-5.77398	1.88E-08
KIAA1429.Q69YN4	0.0696815	0.123798	0.562863	0.573794	-0.25915	0.315153	-0.82231	0.411585	0.047332	0.091059	0.519797	0.603606
EIF5.P55010	0.1333586	0.237018	0.562652	0.573922	-0.11887	0.611159	-0.1945	0.845915	0.247068	0.181278	1.362923	0.173896
EXOC4.Q96A65	0.220653	0.39222	0.562574	0.573975	-1.3996	1.00956	-1.38634	0.166638	-0.12253	0.301175	-0.40685	0.684395
MYCBP2.O75592	-0.096036	0.170798	-0.56228	0.574291	-0.75267	0.414035	-1.81789	0.070519	0.053349	0.122935	0.433959	0.664768

ZRANB2.O95218.2	-0.069597	0.123855	-0.56192	0.574418	-0.27674	0.36134	-0.76587	0.444336	-0.66859	0.10067	-6.64141	1.39E-10
PLCB3.Q01970	-0.130677	0.232612	-0.56178	0.574516	0.042244	0.601495	0.070231	0.944055	-0.3146	0.178041	-1.76699	0.078214
OSTM1.Q86WC4	-0.093622	0.166814	-0.56123	0.574895	0.231817	0.427588	0.542152	0.588119	0.27765	0.125696	2.208893	0.027943
EXOC1.Q9NV70.2	-0.202979	0.361769	-0.56108	0.574996	-0.05554	0.912094	-0.06089	0.951488	-0.07295	0.271302	-0.2689	0.788189
FKBP15.A0A0A0MT60	-0.145766	0.260111	-0.5604	0.575456	-0.86117	0.669307	-1.28666	0.199172	0.010949	0.199637	0.054845	0.956297
HERPUD2.Q9BSE4	-0.092284	0.164635	-0.56054	0.575644	-0.15087	0.422759	-0.35686	0.721722	-0.67326	0.118781	-5.66812	7.69E-08
MAPT.P10636.8	0.0466749	0.083316	0.560218	0.575672	0.197312	0.195918	1.007116	0.314942	-0.00546	0.056331	-0.09689	0.922897
PIR.O00625	0.0572767	0.102307	0.559851	0.57583	-0.38957	0.265759	-1.46587	0.143696	-0.15725	0.078828	-1.99482	0.046938
WWP2.O00308	-0.14231	0.254358	-0.55949	0.576078	0.599605	0.663495	0.903707	0.366853	-0.06931	0.197599	-0.35076	0.726008
ITM2A.O43736	0.0583062	0.104224	0.559434	0.576159	-0.05372	0.270463	-0.19862	0.842714	-0.13864	0.076025	-1.82356	0.069366
TRMT5.Q32P41	-0.070631	0.126269	-0.55937	0.576206	0.273312	0.320181	0.853617	0.394103	0.004837	0.093658	0.051651	0.958847
SLC12A2.P55011	0.0932877	0.166801	0.559277	0.576221	0.142678	0.429139	0.332475	0.739756	-0.03437	0.127669	-0.26919	0.787963
ARHGAP27.Q6ZUM4	0.0854645	0.152728	0.559586	0.576231	0.122457	0.372711	0.328557	0.74289	0.096333	0.105661	0.911716	0.363195
EPHA5.P54756	0.0836491	0.149572	0.559255	0.576236	-0.01804	0.346921	-0.05199	0.958567	0.104303	0.103033	1.012321	0.312174
X0.P01717	-0.026176	0.046828	-0.55897	0.576439	0.078791	0.111854	0.704406	0.481719	-0.01264	0.033551	-0.3766	0.706731
TPM1.P09493.6	-0.019237	0.034464	-0.55815	0.576987	0.031171	0.086539	0.360192	0.718949	-0.05751	0.025541	-2.25146	0.025056
BCAM.P50895	-0.093997	0.168481	-0.55791	0.577153	-0.04172	0.414511	-0.10064	0.919899	-0.06916	0.123249	-0.56113	0.575117
WDR33.Q9C0J8	0.0808921	0.145003	0.557867	0.577234	-0.4037	0.357228	-1.13009	0.259486	0.166417	0.104798	1.58798	0.113516
OSGEP.Q9NPF4	-0.133803	0.239889	-0.55777	0.577257	1.026577	0.619536	1.657008	0.098574	0.106532	0.181047	0.588423	0.556695
TTC21B.Q7Z4L5	0.0669302	0.120017	0.557672	0.577316	-0.10497	0.308478	-0.34028	0.733874	0.085928	0.091654	0.937527	0.349217
NXPH3.O95157	0.0905686	0.162383	0.557746	0.577445	-0.02192	0.441672	-0.04963	0.960469	0.10405	0.131783	0.789556	0.430815
WDR77.Q9BQA1	0.1904543	0.341948	0.556969	0.577796	-0.68078	0.889048	-0.76574	0.444414	0.583229	0.262646	2.220593	0.027101
LRRC8B.Q6P9F7	-0.135054	0.242505	-0.55691	0.577835	-0.2482	0.567499	-0.43736	0.662153	0.103989	0.16877	0.616159	0.538242
CRYBG3.Q68DQ2	0.0832015	0.149509	0.556499	0.578255	-0.12799	0.407273	-0.31425	0.753652	0.098695	0.116644	0.846126	0.398484
UBA7.P41226	-0.047614	0.085585	-0.55633	0.57827	0.093608	0.234162	0.399758	0.689661	0.064464	0.068876	0.935943	0.350164
MRPS27.Q92552	-0.069149	0.124322	-0.55621	0.578315	0.724912	0.308514	2.349691	0.019416	-0.13637	0.092266	-1.47804	0.140413
TPMT.P51580	0.0642034	0.115477	0.555986	0.578467	0.442851	0.300895	1.471778	0.142095	0.033886	0.089803	0.377337	0.706182
MTERF4.Q7Z6M4	0.0830934	0.149511	0.555769	0.578672	0.832213	0.390845	2.129268	0.034206	-0.09407	0.117147	-0.80304	0.422713
SC5D.O75845	-0.077944	0.140274	-0.55566	0.578691	-0.74969	0.351952	-2.1301	0.03395	0.003931	0.105463	0.037274	0.97029
IGHG4.P01861	0.0136664	0.024595	0.555665	0.578702	-0.0173	0.063339	-0.27318	0.784908	0.016179	0.018265	0.885789	0.376473
KIAA0368.J3KN16	0.1470189	0.264973	0.554845	0.579246	0.009108	0.669143	0.013612	0.989148	0.18712	0.198774	0.941368	0.347249
APOC4.APOC2.P02655	0.0246023	0.04437	0.554486	0.579496	0.422366	0.107527	3.928006	0.000106	-0.04536	0.032946	-1.37673	0.16961
FBXL17.Q9UF56	0.0908797	0.163971	0.554242	0.579659	0.65465	0.417573	1.567749	0.11796	-0.1214	0.124521	-0.97496	0.33034
JAGN1.Q8N5M9	-0.070469	0.127178	-0.5541	0.579763	0.116776	0.309535	0.377262	0.706241	0.084986	0.092182	0.921933	0.357292

MAN2B2.Q9Y2E5	-0.052653	0.095028	-0.55408	0.579791	0.177267	0.242987	0.729533	0.466267	0.008113	0.072556	0.111813	0.911049
RETSAT.Q6NUM9	0.0665204	0.120074	0.553995	0.579828	-0.40639	0.323922	-1.2546	0.21057	-0.0495	0.096564	-0.51257	0.608621
ARPP21.Q9UBL0.2	-0.038182	0.068936	-0.55388	0.579928	0.225847	0.203986	1.107167	0.269158	-0.19222	0.059263	-3.24351	0.001322
EFHD2.Q96C19	-0.081313	0.14688	-0.5536	0.580096	-0.02662	0.380582	-0.06993	0.944292	-0.04935	0.113183	-0.43598	0.663152
CARKD.Q8IW45	0.1460632	0.263886	0.553508	0.580161	-0.92706	0.636346	-1.45685	0.14617	0.418319	0.188457	2.219705	0.027162
CYBA.P13498	0.0553244	0.1	0.553245	0.580382	-0.23657	0.25858	-0.91489	0.361078	0.258459	0.073373	3.522532	0.000503
PON1.P27169	0.0268419	0.048555	0.552818	0.58064	-0.06906	0.118671	-0.58196	0.561029	0.085637	0.034719	2.466587	0.0142
GABRB2.P47870	-0.130765	0.236569	-0.55276	0.580673	0.11268	0.62885	0.179184	0.85791	-0.07468	0.187034	-0.39927	0.689972
ATAT1.Q5SQI0	0.1595266	0.288796	0.552386	0.580929	0.08166	0.714553	0.114281	0.909089	-0.11998	0.212462	-0.5647	0.572684
ABHD17C.Q6PCB6	-0.042285	0.076542	-0.55244	0.580965	0.178859	0.193455	0.924553	0.356139	0.046697	0.056287	0.829625	0.407586
VPS18.Q9P253	0.2141304	0.387702	0.552306	0.580983	-0.66114	0.989326	-0.66828	0.504454	0.843515	0.290596	2.902702	0.003965
TPD52L2.O43399.5	-0.123791	0.224152	-0.55226	0.581012	0.496683	0.586474	0.846897	0.397706	-0.24748	0.174101	-1.42145	0.156192
HTT.P42858	-0.177652	0.321881	-0.55192	0.581249	0.879925	0.792619	1.110149	0.267795	0.103684	0.236185	0.438996	0.66097
GPR107.Q5VW38.2	-0.055912	0.101328	-0.55179	0.581364	0.164485	0.272042	0.604631	0.545909	0.087098	0.082344	1.057732	0.29108
MRPL28.Q13084	-0.060882	0.11035	-0.55171	0.581389	0.371526	0.280197	1.325944	0.185834	-0.10109	0.083392	-1.21223	0.226349
NDRG2.Q9UN36	-0.067255	0.121925	-0.5516	0.581464	-0.6211	0.30447	-2.03993	0.042205	-0.11471	0.090947	-1.26128	0.208157
RWDD1.Q9H446	0.1071809	0.194458	0.551177	0.581757	0.084304	0.492664	0.171119	0.864242	0.519921	0.14356	3.621624	0.000342
CPPED1.Q9BRF8	0.0717115	0.130142	0.551026	0.58186	-0.41175	0.338016	-1.21814	0.224095	-0.09164	0.10066	-0.91041	0.363312
KLHL22.Q53GT1	-0.144878	0.26297	-0.55093	0.581926	1.62659	0.682087	2.384725	0.017693	-0.07958	0.204712	-0.38877	0.697716
TMEM214.Q6NUQ4	0.1041947	0.189129	0.550919	0.581937	-0.66525	0.500339	-1.32959	0.184646	-0.15786	0.149336	-1.05705	0.291327
MT1H.P80294	0.0160552	0.029142	0.550932	0.581979	0.073065	0.074496	0.980784	0.327607	0.00761	0.022104	0.344294	0.730902
GRIK2.Q13002	0.1294231	0.235041	0.550641	0.582124	0.231756	0.575517	0.402692	0.687452	0.121667	0.171111	0.711039	0.477595
BCL2L13.Q9BXK5	0.0805841	0.146349	0.550628	0.582133	0.068955	0.371852	0.185436	0.853008	-0.1552	0.110274	-1.40742	0.160304
CNTNAP5.Q8WYK1	-0.109078	0.198116	-0.55057	0.58217	-0.0976	0.466135	-0.20937	0.834295	-0.23197	0.138049	-1.68031	0.093904
UBAC2.Q8NBM4	-0.079354	0.144197	-0.55032	0.582371	-0.17893	0.387901	-0.46127	0.644969	-0.20487	0.114863	-1.78357	0.075588
LRFN3.Q9BTN0	0.115089	0.209138	0.550302	0.582372	0.307307	0.534953	0.574457	0.566101	0.08591	0.158276	0.542783	0.587693
CSTB.P04080	0.1123436	0.204184	0.550207	0.582421	-0.72902	0.531591	-1.37138	0.171247	-0.2244	0.158105	-1.41931	0.156812
SLC4A2.P04920	0.0494562	0.089847	0.550448	0.582471	0.182553	0.246557	0.740406	0.460152	-0.00978	0.07014	-0.13941	0.889306
TES.Q9UGI8	0.0950383	0.172698	0.550314	0.582538	-0.79598	0.487012	-1.63441	0.10394	0.241992	0.131967	1.833739	0.068363
ERP44.Q9BS26	0.1694241	0.308096	0.549907	0.582627	-0.84178	0.793496	-1.06085	0.289584	0.310846	0.235819	1.318156	0.188425
ASAP1.H0YBM4	-0.02715	0.049375	-0.54987	0.582772	-0.01817	0.138795	-0.13093	0.895952	-0.04899	0.039719	-1.2334	0.218804
PSMD8.P48556	0.1725114	0.313924	0.549532	0.582884	-1.22561	0.744337	-1.64658	0.100658	0.23381	0.221996	1.053214	0.293063
CWC27.Q6UX04	-0.08966	0.16317	-0.54949	0.582912	-0.35844	0.461548	-0.7766	0.437988	-0.48936	0.134596	-3.63573	0.000324
UTRN.P46939	0.1262442	0.229844	0.549261	0.58307	-0.80998	0.61506	-1.31692	0.18884	0.028755	0.183473	0.156725	0.875564

GIMAP8.Q8ND71	-0.047926	0.08727	-0.54917	0.583205	-0.12634	0.240726	-0.52481	0.600203	0.007495	0.06948	0.107878	0.914184
COPS6.E7EM64	0.157053	0.286087	0.548969	0.58327	0.762707	0.721835	1.056623	0.291506	0.678577	0.211639	3.206298	0.001485
RER1.Q9P0H9	-0.104444	0.190444	-0.54842	0.583644	-0.13302	0.478821	-0.27781	0.781345	0.199406	0.142008	1.404196	0.161262
SLC25A14.F6SL11	-0.139735	0.254794	-0.54842	0.583646	-0.13962	0.649795	-0.21486	0.830017	-0.22705	0.192886	-1.17711	0.240056
DUSP14.O95147	0.050995	0.092989	0.548401	0.583848	-0.08063	0.254041	-0.31741	0.75131	0.046766	0.074695	0.626086	0.532065
GET4.Q7L5D6	-0.071573	0.130579	-0.54812	0.583853	0.675639	0.351756	1.920761	0.055679	0.006662	0.105261	0.063294	0.949573
TAB1.Q15750	0.1633324	0.298185	0.547755	0.584102	1.410775	0.757263	1.862991	0.063409	0.001769	0.22653	0.007808	0.993775
RNASE1.P07998	0.0403932	0.073787	0.547429	0.584343	-0.16034	0.18053	-0.88815	0.375186	0.05478	0.053545	1.023069	0.307119
LRRC59.Q96AG4	0.1422917	0.259954	0.547372	0.584365	-0.48715	0.675944	-0.7207	0.471636	0.196087	0.200941	0.975842	0.329903
TOR1A.O14656	0.1114213	0.203722	0.546927	0.584671	0.108303	0.52882	0.204801	0.837862	-0.06345	0.157284	-0.40341	0.686923
SEC24D.O94855	0.0760993	0.13918	0.54677	0.584783	-0.05181	0.334445	-0.15492	0.876986	0.083611	0.100169	0.834701	0.404541
ZMYND8.Q9ULU4	0.0976416	0.178608	0.54668	0.584844	-0.08734	0.456151	-0.19147	0.848286	0.027818	0.136429	0.203902	0.838565
CUTA.O60888	-0.057068	0.104422	-0.54651	0.584956	0.345694	0.288842	1.196828	0.232288	0.094236	0.085957	1.096312	0.273793
SLC9A3R1.O14745	0.1129015	0.206977	0.545479	0.585665	-0.39566	0.534227	-0.74062	0.459486	-0.24164	0.15847	-1.52484	0.128319
PRKAB1.Q9Y478	-0.087577	0.160568	-0.54542	0.585705	0.622262	0.432479	1.438826	0.151209	0.000397	0.129084	0.003078	0.997546
EXOSC7.Q15024	0.0823692	0.15111	0.545095	0.585933	0.356158	0.360483	0.988002	0.323935	0.049816	0.107613	0.462914	0.643756
TMSB4X.P62328	-0.046143	0.084637	-0.54519	0.585968	-0.06786	0.246988	-0.27476	0.783756	0.053503	0.073961	0.723395	0.470189
SHD.Q96IW2	-0.067271	0.123438	-0.54498	0.586009	0.472335	0.324858	1.453974	0.146965	0.086937	0.096843	0.897711	0.370036
ORM2.P19652	-0.020456	0.037578	-0.54435	0.586443	0.019375	0.093667	0.206851	0.836262	0.020695	0.027841	0.743334	0.457843
IFT27.Q9BW83	0.1077928	0.198086	0.544171	0.586564	-0.13731	0.52612	-0.26098	0.794281	0.113512	0.156396	0.7258	0.468509
EWSR1.B0QYK0	0.1011981	0.186144	0.543655	0.586919	-0.0724	0.432957	-0.16721	0.867313	-0.01856	0.128799	-0.14414	0.885486
SEMA4F.O95754	0.0824484	0.151643	0.543701	0.586937	0.338048	0.414433	0.815687	0.415431	0.244913	0.122021	2.007128	0.045779
BCAR1.P56945	-0.14154	0.260394	-0.54356	0.586985	-0.62875	0.653305	-0.96242	0.33659	-0.04443	0.194621	-0.2283	0.819562
RHOQ.A0A0C4DH03	-0.104291	0.192006	-0.54316	0.587262	-0.16629	0.509767	-0.32621	0.744491	0.132428	0.151826	0.87224	0.383764
CRKL.P46109	-0.130894	0.241096	-0.54291	0.587431	0.152538	0.613349	0.248697	0.80376	0.16783	0.18223	0.920981	0.357777
FAM47E.STBD1.O95210	-0.085124	0.156794	-0.5429	0.587452	-0.06607	0.389929	-0.16943	0.865576	-0.37751	0.111534	-3.38473	0.000811
PTRF.Q6NZI2	-0.053043	0.097775	-0.5425	0.587715	-0.15535	0.241803	-0.64246	0.521047	-0.01872	0.071972	-0.26014	0.794927
MTIF2.P46199	0.1073286	0.197867	0.542427	0.587764	1.153151	0.494277	2.333006	0.020287	0.044134	0.148303	0.297592	0.766214
C6orf57.Q5VUM1	0.0670307	0.123615	0.542253	0.587884	0.067246	0.3142	0.214022	0.830671	-0.2555	0.092343	-2.76683	0.006
FAM175B.Q15018	0.1620009	0.298866	0.542052	0.588022	-0.04016	0.735962	-0.05457	0.956513	0.252187	0.218468	1.154343	0.249249
CLASP1.Q7Z460.4	-0.042579	0.078574	-0.5419	0.588137	-0.0874	0.196173	-0.44554	0.656253	-0.26708	0.055774	-4.78867	2.66E-06
FAM118B.Q9BPY3	-0.099481	0.183644	-0.54171	0.588275	-0.16308	0.456158	-0.3575	0.720976	0.205415	0.133575	1.537818	0.12518
SREBF2.Q12772	-0.079097	0.146028	-0.54166	0.58842	-0.13952	0.405352	-0.3442	0.73104	-0.05177	0.124346	-0.41638	0.677559
PRUNE2.Q8WUY3	-0.137392	0.253824	-0.54129	0.588549	0.169081	0.671226	0.251899	0.801286	-0.14657	0.199525	-0.73458	0.463148

GUCY1A3.Q02108	0.1111007	0.205327	0.541091	0.588684	-0.22106	0.529861	-0.4172	0.676822	0.301167	0.156738	1.921469	0.055589
PNPT1.Q8TCS8	0.1603228	0.296392	0.540915	0.588805	0.566469	0.794469	0.713015	0.476373	0.323396	0.23582	1.371368	0.171252
THTPA.Q9BU02	0.1253914	0.23192	0.540666	0.588977	-0.08206	0.580226	-0.14142	0.887627	0.35666	0.17142	2.080623	0.038289
NAA15.Q9BXJ9	0.0409804	0.075857	0.54023	0.589293	-0.00442	0.1988	-0.02222	0.982286	0.072038	0.057562	1.251498	0.211755
NDUFC2.O95298	-0.083866	0.155316	-0.53997	0.589455	0.329257	0.392682	0.838481	0.402407	-0.02571	0.116939	-0.21984	0.826139
SCARA3.Q6AZY7	0.0531508	0.098426	0.540005	0.589498	0.19231	0.245231	0.784199	0.433684	-0.08842	0.075611	-1.16938	0.24339
CAMK2D.Q13557.12	-0.058354	0.108087	-0.53988	0.589568	-0.12173	0.261129	-0.46615	0.641499	0.094394	0.075543	1.249545	0.212589
FEZ1.Q99689	-0.075634	0.140121	-0.53977	0.589592	-0.17864	0.364724	-0.48981	0.624616	-0.07827	0.10845	-0.72171	0.471019
FGFR1.P11362.21	0.0865659	0.160424	0.539606	0.589831	0.18423	0.436097	0.422451	0.673141	0.039054	0.128606	0.303671	0.761688
ESAM.Q96AP7	-0.088537	0.164233	-0.5391	0.590097	-0.14601	0.449598	-0.32476	0.745616	0.384124	0.128437	2.990766	0.003045
WDR19.Q8NEZ3	0.0788786	0.146438	0.53865	0.590366	0.723585	0.413768	1.748769	0.081321	0.056264	0.123653	0.455016	0.649416
OSBPL11.Q9BXB4	0.0829738	0.154066	0.538559	0.590449	-0.36964	0.394572	-0.93682	0.349645	-0.09325	0.116135	-0.80291	0.422695
DAB2IP.Q5VWQ8	-0.13018	0.242077	-0.53776	0.59098	0.222046	0.598789	0.370825	0.711021	-0.44609	0.176358	-2.52948	0.011919
RNASEL.Q05823	0.0746041	0.138753	0.537677	0.591116	0.025059	0.35862	0.069877	0.944352	0.00279	0.107402	0.025977	0.979298
SENP3.Q9H4L4	-0.098946	0.184071	-0.53754	0.591315	-0.2277	0.533794	-0.42658	0.670215	0.158453	0.14121	1.122107	0.263363
TMOD3.Q9NYL9	0.1015072	0.189031	0.536986	0.591514	-0.12732	0.462215	-0.27545	0.783152	0.207959	0.13701	1.517846	0.130072
VPS28.Q9UK41	-0.099946	0.186164	-0.53687	0.591595	0.696927	0.49436	1.409756	0.159614	0.087292	0.147451	0.592009	0.554276
UNC79.Q9P2D8	-0.10104	0.188207	-0.53685	0.591667	0.127984	0.50608	0.252893	0.80056	-0.14581	0.148005	-0.98514	0.325517
GCLM.P48507	0.1266336	0.236144	0.536255	0.592019	0.752223	0.602462	1.248582	0.21276	0.292656	0.178901	1.635853	0.102885
SLC45A4.E7EV90	-0.078316	0.146044	-0.53625	0.592174	0.008546	0.38727	0.022067	0.982418	0.123728	0.117034	1.057197	0.291793
MRPS30.Q9NP92	-0.064325	0.120035	-0.53588	0.592283	0.214374	0.325178	0.65925	0.510241	-0.04706	0.097865	-0.48084	0.630984
IWS1.Q96ST2	-0.081569	0.152197	-0.53594	0.592289	0.07253	0.393529	0.184306	0.853921	0.273931	0.121802	2.248984	0.025374
NANP.Q8TBE9	-0.100592	0.187656	-0.53605	0.592348	0.752116	0.52352	1.436651	0.152722	0.352312	0.152365	2.312298	0.022004
ATL2.Q8NHH9	-0.123454	0.230661	-0.53522	0.592736	-0.65383	0.616864	-1.05993	0.290003	0.200572	0.183485	1.093122	0.275189
GNAQ.B1AM21	-0.037213	0.06951	-0.53536	0.59278	0.094449	0.1802	0.524136	0.600802	-0.02338	0.053181	-0.43966	0.660687
GPBP1.D4PHA4	-0.04604	0.085995	-0.53538	0.592909	0.013625	0.231578	0.058838	0.953161	-0.14009	0.069961	-2.00236	0.047085
XIAP.P98170	0.1048744	0.196067	0.534892	0.592978	-0.2367	0.543419	-0.43557	0.663478	0.230468	0.157689	1.461531	0.144972
HDAC5.Q9UQL6	-0.130009	0.243123	-0.53475	0.59306	-0.28547	0.604028	-0.4726	0.636829	-0.12816	0.179605	-0.71355	0.476044
KMT2A.Q03164	0.0286704	0.053617	0.534722	0.593085	0.043299	0.142217	0.304456	0.760991	0.007055	0.042441	0.166223	0.868093
CACNB1.Q02641	-0.111612	0.208769	-0.53462	0.593149	-0.49103	0.506475	-0.96951	0.333045	0.137472	0.150694	0.912264	0.362339
EFNA5.A0A087X240	-0.081475	0.152418	-0.53455	0.593258	-0.39368	0.402814	-0.97732	0.329374	0.120154	0.117119	1.025915	0.305944
GAREM.Q9H706	-0.092001	0.172198	-0.53428	0.5934	-0.21262	0.444649	-0.47818	0.632885	-0.08814	0.12833	-0.68684	0.49274
WIBG.Q9BRP8	-0.12067	0.226015	-0.5339	0.593644	-0.2202	0.587158	-0.37503	0.707893	-0.66354	0.170596	-3.88954	0.000123
SPRYD4.Q8WW59	-0.104002	0.194837	-0.53379	0.593722	-0.0467	0.511262	-0.09135	0.927277	0.163674	0.151809	1.078154	0.281803

OSCP1.Q8WVF1	0.0806646	0.151144	0.533695	0.593788	0.260392	0.405908	0.641504	0.521669	0.133421	0.120593	1.10638	0.26942
MRPL34.Q9BQ48	0.0672141	0.125942	0.533692	0.593828	-0.09389	0.33331	-0.28169	0.778396	-0.13613	0.099783	-1.36428	0.173625
RPL36A.J3KQN4	-0.091785	0.172168	-0.53311	0.594192	0.179863	0.428105	0.420137	0.674677	0.038068	0.127372	0.298871	0.765239
TJAP1.Q5JTD0	0.0726666	0.136274	0.533239	0.594209	-0.29867	0.370224	-0.80672	0.420723	0.210434	0.10739	1.959542	0.051348
GLUD2.P49448	-0.072035	0.135149	-0.53301	0.594272	0.20267	0.379847	0.533556	0.594043	0.050773	0.112203	0.452508	0.65123
SLC7A3.Q8WY07	-0.049051	0.092071	-0.53275	0.594594	0.424871	0.26345	1.61272	0.108474	0.098801	0.077982	1.266979	0.206722
PI4KB.Q9UBF8.2	0.0701829	0.131802	0.532486	0.594716	-0.04356	0.337705	-0.12899	0.897481	-0.0891	0.091512	-0.97367	0.331268
CCDC93.F8W9X7	0.1875797	0.352451	0.532214	0.594812	-0.65861	0.907539	-0.72571	0.468561	-0.1037	0.270142	-0.38387	0.701334
PITPNC1.Q9UKF7	-0.110604	0.207883	-0.53205	0.594927	-0.1503	0.53927	-0.2787	0.780658	-0.39868	0.158838	-2.51	0.012582
RNF170.Q96K19	0.1234178	0.23213	0.531676	0.595185	-0.82512	0.576527	-1.43119	0.153383	0.28139	0.171328	1.642403	0.10152
ZER1.Q7Z7L7	0.1315393	0.247406	0.531673	0.595187	0.131015	0.613189	0.213662	0.830951	0.063015	0.182391	0.345492	0.729959
BNIP1.Q12981	-0.116994	0.220111	-0.53152	0.59529	0.256701	0.591369	0.434079	0.664533	0.001963	0.175975	0.011156	0.991106
DCTPP1.Q9H773	0.0396683	0.074652	0.53138	0.595422	0.062653	0.196034	0.319601	0.749518	-0.18991	0.054361	-3.4934	0.000557
OSBPL1A.Q9BXW6	-0.130585	0.245786	-0.5313	0.595448	-0.0966	0.620056	-0.15579	0.876301	-0.09227	0.184388	-0.50044	0.617123
TGFB1I1.O43294	-0.067572	0.127209	-0.53119	0.595548	0.084424	0.350772	0.240681	0.809979	-0.03218	0.104247	-0.30868	0.7578
AP5B1.Q2VPB7	-0.037199	0.07004	-0.53111	0.595699	0.033356	0.166354	0.200509	0.841278	-0.01207	0.050751	-0.23775	0.812308
TNR.Q92752	-0.13341	0.251369	-0.53073	0.595836	-0.06298	0.663391	-0.09494	0.924425	-0.12747	0.197217	-0.64634	0.518535
AGT.P01019	0.0428519	0.080761	0.530602	0.595929	-0.04407	0.20696	-0.21295	0.831503	0.052149	0.0615	0.84794	0.397125
SNRNP27.Q8WVK2	-0.070347	0.132684	-0.53018	0.596303	0.275971	0.340943	0.809436	0.419127	-0.06852	0.097315	-0.70415	0.482075
ARL4C.P56559	-0.075749	0.143005	-0.5297	0.596571	0.216077	0.373838	0.577997	0.563716	0.013243	0.109085	0.121401	0.903458
HPX.P02790	0.0333325	0.063018	0.528932	0.597085	-0.08691	0.150064	-0.57912	0.562928	0.162146	0.043706	3.709928	0.000246
MRPS10.P82664	-0.067812	0.128216	-0.52889	0.597117	0.777373	0.315683	2.462514	0.01434	-0.07834	0.09472	-0.82706	0.408841
C1QC.P02747	-0.030738	0.058149	-0.52861	0.597309	0.016178	0.14553	0.111168	0.911555	0.023838	0.043272	0.550886	0.582109
VBP1.P61758	0.1414871	0.267769	0.528391	0.59746	0.2721	0.639765	0.425312	0.670904	0.18191	0.190094	0.956948	0.339339
MRPS6.P82932	0.0930356	0.176088	0.528347	0.597491	1.137586	0.457084	2.488787	0.013342	-0.08307	0.137245	-0.60526	0.54545
PLD3.Q8IV08	-0.075189	0.14232	-0.52831	0.597519	-0.07476	0.348139	-0.21475	0.830107	-0.12082	0.103345	-1.16909	0.243266
SFXN3.A0A0A0MS41	0.0949318	0.179756	0.528114	0.597653	0.279276	0.485632	0.575078	0.565656	0.117147	0.144391	0.81132	0.417805
SGK223.Q86YV5	-0.068288	0.129305	-0.52811	0.597681	0.019093	0.366787	0.052055	0.958523	-0.11166	0.106883	-1.04472	0.297071
CCT4.P50991	0.1723282	0.326424	0.527927	0.597782	-0.64372	0.818335	-0.78663	0.432101	0.674053	0.240657	2.800888	0.005416
RBMXL1.Q96E39	0.0772315	0.146307	0.527874	0.597827	-0.017	0.39766	-0.04275	0.96593	-0.54977	0.111259	-4.94136	1.30E-06
ATP6AP1.Q15904	-0.081892	0.155166	-0.52777	0.59789	-0.40482	0.413613	-0.97874	0.328472	0.218485	0.122606	1.782006	0.075727
RHOF.Q9HBH0	-0.080695	0.152926	-0.52767	0.59796	-0.25533	0.384384	-0.66425	0.507024	0.009841	0.114427	0.086005	0.931518
GIT2.Q14161	-0.190023	0.360154	-0.52762	0.597998	-0.74568	0.864479	-0.86257	0.389038	0.319937	0.256834	1.245699	0.213816
PNPLA7.Q6ZV29	0.0636794	0.120726	0.527472	0.598098	0.215154	0.328471	0.655017	0.512943	0.004852	0.097782	0.049621	0.960457

PNKP.Q96T60	0.0819424	0.155468	0.52707	0.5984	-0.40179	0.395531	-1.01582	0.310582	0.176394	0.116578	1.513093	0.131372
BACE1.P56817	0.0769448	0.146028	0.526919	0.598482	-0.33085	0.374437	-0.88358	0.377607	0.071636	0.111454	0.642741	0.520868
MTMR1.E9PPP8	0.0730531	0.138676	0.526791	0.598599	0.153791	0.347547	0.442503	0.658469	0.193577	0.103947	1.862271	0.06362
CAST.D6RBR1	-0.068878	0.130677	-0.52709	0.598611	0.430994	0.369839	1.165356	0.245788	-0.10223	0.09617	-1.06297	0.289561
LRRFIP2.Q9Y608	0.1809528	0.343941	0.526116	0.599039	-0.10471	0.857508	-0.12211	0.902889	0.268757	0.254643	1.055427	0.292052
SATB1.Q01826	-0.071293	0.135554	-0.52593	0.599241	-0.30397	0.344618	-0.88206	0.378658	0.088951	0.101869	0.873189	0.383463
SH3BGRL3.A0A087WV23	0.0728467	0.13857	0.525704	0.599325	0.18689	0.34814	0.536823	0.591775	0.152326	0.103252	1.475289	0.14115
CELF4.Q9BZC1	-0.071709	0.136467	-0.52547	0.59949	0.072651	0.371915	0.195343	0.845252	0.056531	0.110598	0.511136	0.609619
MAP2.E7EV03	-0.054478	0.103754	-0.52507	0.599764	-0.23143	0.291675	-0.79343	0.428131	-0.16504	0.086349	-1.91132	0.056886
TMEM41B.Q5BJD5	0.08376	0.159524	0.525062	0.59979	-0.41961	0.408122	-1.02816	0.304747	-0.16615	0.121806	-1.36409	0.173616
RPL35A.P18077	0.1305204	0.248622	0.524975	0.599831	0.058602	0.617325	0.094928	0.924433	0.181175	0.183357	0.988098	0.323875
RPL4.P36578	-0.079972	0.152542	-0.52426	0.600325	0.38907	0.383221	1.015262	0.310773	0.169328	0.113785	1.488136	0.137731
MAX.P61244	-0.071831	0.137095	-0.52395	0.600712	0.027655	0.314502	0.087933	0.930023	-0.08496	0.096862	-0.87711	0.381545
CBS.P35520	0.0594932	0.113662	0.523424	0.600909	-0.19189	0.253105	-0.75813	0.448949	-0.05281	0.075304	-0.70128	0.483657
RHBDD2.Q6NTF9	-0.050899	0.097317	-0.52303	0.601194	-0.02396	0.253276	-0.09462	0.92468	-0.19081	0.074677	-2.55515	0.011104
POLG.P54098	-0.053655	0.102591	-0.523	0.601255	0.170464	0.291	0.585787	0.558537	0.046031	0.088878	0.517912	0.604969
ALG14.Q96F25	-0.136279	0.260549	-0.52305	0.601327	1.091283	0.742894	1.468961	0.143649	0.184422	0.224213	0.82253	0.411901
CCDC184.Q52MB2	0.0868146	0.166016	0.522931	0.601468	-0.65012	0.447955	-1.45132	0.14859	-0.05519	0.131361	-0.42011	0.67495
MFN1.A0A0C4DFN1	-0.137183	0.2625	-0.5226	0.601488	1.692229	0.735186	2.301769	0.02204	-0.15377	0.215698	-0.71288	0.476478
NIPAL2.Q9H841.2	-0.065233	0.124821	-0.52261	0.601553	0.03071	0.300499	0.102196	0.91869	-0.11992	0.083676	-1.4332	0.153157
ATRX.P46100	0.0921955	0.17647	0.522442	0.601592	-0.1771	0.421018	-0.42064	0.674312	-0.00759	0.12528	-0.06057	0.951743
NOP58.Q9Y2X3	0.1122661	0.214889	0.522437	0.601595	-0.41259	0.52151	-0.79114	0.429466	-0.04321	0.155277	-0.27824	0.78101
TXNIP.Q9H3M7	0.0352667	0.067483	0.522602	0.601628	0.419011	0.1826	2.294691	0.02285	-0.0732	0.052646	-1.39044	0.16603
ABCA5.Q8WWZ7	0.0928559	0.177757	0.522375	0.601639	0.375048	0.459316	0.816537	0.41482	-0.05769	0.136746	-0.42189	0.673396
CPOX.P36551	0.0734133	0.140552	0.522321	0.601676	0.517379	0.370386	1.396864	0.163454	-0.00688	0.110529	-0.06227	0.950385
GPR150.Q8NGU9	-0.073774	0.141319	-0.52204	0.601926	-0.3771	0.352529	-1.0697	0.285774	0.003874	0.101722	0.038083	0.969651
VPS37A.Q8NEZ2	0.1524809	0.292199	0.52184	0.602011	0.639515	0.714428	0.895143	0.371405	0.140904	0.212654	0.662599	0.50808
PTPRO.Q16827	-0.066669	0.127851	-0.52146	0.602372	0.513814	0.316933	1.621206	0.106406	0.072443	0.094318	0.768073	0.443268
PRRT1.Q99946	-0.073386	0.140888	-0.52088	0.602677	-0.05075	0.368355	-0.13777	0.890511	-0.65752	0.103023	-6.38226	6.35E-10
RIMS4.Q9H426	-0.111885	0.214968	-0.52047	0.602963	-0.00557	0.538265	-0.01034	0.991756	0.108315	0.160006	0.676943	0.498947
IGLV3.21.A0A075B6J7	-0.017199	0.033045	-0.52048	0.602992	-0.01383	0.087528	-0.158	0.874577	0.015889	0.026493	0.599743	0.549182
ARID5B.Q14865	0.0427647	0.082224	0.5201	0.60337	-0.18328	0.197498	-0.92802	0.354611	0.05785	0.056399	1.025735	0.306363
USP7.Q93009	-0.182196	0.350508	-0.51981	0.603427	0.842775	0.899291	0.937155	0.349408	0.205605	0.267647	0.768195	0.442956
IFIT5.Q13325	0.0990838	0.190796	0.519317	0.603768	0.472452	0.461366	1.02403	0.30662	0.199863	0.137011	1.45874	0.145649

MPI.P34949	-0.089025	0.171533	-0.51899	0.603993	0.711978	0.430483	1.653905	0.099159	0.19532	0.128146	1.524204	0.128477
MMP9.P14780	0.0263342	0.050735	0.519052	0.604027	-0.01428	0.129477	-0.11031	0.912259	-0.00809	0.040481	-0.19975	0.841844
DHRS11.Q6UWP2	-0.07903	0.152338	-0.51878	0.604141	0.167474	0.417378	0.401252	0.688511	-0.07992	0.124112	-0.64395	0.520082
FABP1.P07148	0.0195711	0.037726	0.518772	0.604189	-0.14255	0.105466	-1.35162	0.177644	-0.01186	0.032619	-0.36352	0.716502
STK39.Q9UEW8	0.1178798	0.227281	0.518653	0.604231	0.42356	0.609005	0.695495	0.487266	-0.07168	0.181264	-0.39546	0.692774
ANXA6.P08133	-0.094184	0.181735	-0.51825	0.604511	0.583173	0.475636	1.226091	0.221095	0.311012	0.140732	2.209963	0.027838
ABCF3.Q9NUQ8	-0.108759	0.20995	-0.51802	0.60467	0.573944	0.524422	1.094433	0.274615	-0.25144	0.155654	-1.61538	0.107245
OGDH.Q02218	0.025921	0.050043	0.517971	0.604713	0.211788	0.133881	1.581914	0.114733	-0.01554	0.039121	-0.39713	0.691554
CDC27.P30260.2	0.1539863	0.297476	0.517643	0.604935	-1.65809	0.794471	-2.08704	0.037701	0.363891	0.237097	1.534779	0.125858
BIN2.F5HOW4	0.0583682	0.112743	0.51771	0.605068	-0.34011	0.276916	-1.22821	0.221056	0.027716	0.079604	0.348175	0.728137
HAPLN1.D6RFI7	-0.048237	0.093226	-0.51742	0.605153	0.014438	0.345673	0.041767	0.966719	0.133808	0.099356	1.346746	0.179332
TMEM65.Q6PI78	-0.083414	0.161254	-0.51728	0.605186	0.22163	0.413317	0.536224	0.592189	-0.09167	0.122901	-0.74587	0.456309
ABC8.Q9NUT2	-0.078235	0.151333	-0.51697	0.605402	-0.54101	0.382585	-1.4141	0.158336	0.036733	0.11416	0.321772	0.747842
C11orf58.O00193	0.0479302	0.092736	0.516847	0.60549	-0.02143	0.251058	-0.08534	0.932044	-0.41849	0.070803	-5.91068	8.98E-09
LPGAT1.Q92604	-0.121179	0.234489	-0.51678	0.605536	0.025782	0.600829	0.04291	0.965801	-0.27843	0.178036	-1.56392	0.118857
HADHA.P40939	0.1057254	0.204816	0.516197	0.605943	-0.30367	0.533969	-0.56871	0.569964	0.073463	0.158874	0.462396	0.644122
TIMM50.Q3ZCQ8	-0.155693	0.301956	-0.51561	0.60635	1.421072	0.795806	1.785702	0.075125	0.031983	0.237946	0.134414	0.893163
COASY.Q13057	0.1173117	0.227547	0.515548	0.606396	-0.2298	0.704687	-0.3261	0.744568	0.112537	0.20957	0.536989	0.591661
GNG5.P63218	-0.059201	0.114852	-0.51546	0.606458	-0.2335	0.304879	-0.76587	0.444336	-0.39318	0.087993	-4.46833	1.11E-05
CPNE9.Q8IYJ1	-0.071692	0.139105	-0.51538	0.606513	0.331886	0.352832	0.940635	0.347624	0.041622	0.105084	0.396078	0.69232
NHLRC3.Q5JS37	-0.077838	0.151195	-0.51482	0.606975	0.361207	0.384846	0.938577	0.348888	0.016837	0.111191	0.151423	0.879769
SCN3A.Q9NY46	0.0685874	0.133202	0.514913	0.607063	0.017307	0.356783	0.04851	0.961375	0.034026	0.107623	0.316165	0.752323
PTCD3.Q96EY7	-0.05615	0.109147	-0.51444	0.607167	0.604513	0.274404	2.203004	0.02833	-0.11731	0.081997	-1.43064	0.153539
GNB2.C9JIS1	-0.134601	0.261664	-0.51441	0.607194	-0.50173	0.660994	-0.75906	0.448394	-0.00561	0.196817	-0.02852	0.977266
ALG8.H0YDD3	-0.072453	0.140798	-0.51459	0.607227	-0.04798	0.410389	-0.11692	0.90705	0.151658	0.124933	1.213913	0.226363
GLYR1.Q49A26	0.0994573	0.193803	0.513186	0.608046	0.044266	0.485507	0.091174	0.927413	0.041549	0.144412	0.287714	0.773758
PLIN4.Q96Q06.2	0.0522237	0.101779	0.513109	0.6081	0.572747	0.258542	2.215292	0.027467	-0.03106	0.077498	-0.40076	0.688875
GNAI2.P04899	-0.098483	0.191962	-0.51304	0.608151	0.835412	0.55165	1.514389	0.130946	-0.17123	0.164425	-1.04137	0.298516
PPP1R1B.Q9UD71	-0.043051	0.083917	-0.51302	0.608161	0.040947	0.222594	0.183952	0.854171	-0.38092	0.062588	-6.08622	3.41E-09
DTYMK.P23919	0.0980259	0.19116	0.512795	0.608319	0.887003	0.464765	1.908496	0.057251	0.384474	0.137344	2.799346	0.005442
PDE1A.P54750	0.0547176	0.106737	0.51264	0.608537	-0.05087	0.281184	-0.18093	0.856602	-0.20129	0.081658	-2.46502	0.014511
CNIH3.Q8TBE1	-0.056	0.109332	-0.51221	0.608804	-0.41677	0.318905	-1.30688	0.192577	0.068765	0.092251	0.745411	0.456795
CLSTN3.Q9BQT9	0.1050887	0.205332	0.5118	0.609015	0.564064	0.55097	1.023766	0.306744	0.257059	0.16353	1.571935	0.116986
SV2B.Q7L1I2	-0.068257	0.13348	-0.51136	0.60932	0.027277	0.349872	0.077963	0.937908	-0.06225	0.104022	-0.59847	0.549963

VASN.Q6EMK4	-0.057387	0.112236	-0.5113	0.609367	-0.10075	0.301114	-0.33459	0.738168	-0.05907	0.089731	-0.65825	0.510872
NFASC.O94856.9	0.0700333	0.137119	0.510747	0.609752	0.276512	0.337148	0.820151	0.41276	0.047486	0.100368	0.473123	0.636459
SRGAP2.O75044	0.1173339	0.229801	0.510589	0.609863	0.22006	0.542278	0.405807	0.685164	-0.06554	0.161318	-0.40629	0.684808
RPRD1B.Q9NQG5	-0.09905	0.194106	-0.51029	0.610071	0.237504	0.446609	0.531793	0.59525	0.041802	0.132898	0.314543	0.75332
SUDS3.Q9H7L9	0.0707247	0.138602	0.51027	0.610109	0.177909	0.349788	0.50862	0.611416	0.056673	0.10335	0.54836	0.583879
SHANK1.H9KV90	-0.102544	0.200988	-0.5102	0.610134	0.304176	0.485488	0.626537	0.531424	-0.41154	0.142613	-2.88573	0.004179
HEATR6.A0A087WXZ7	0.0612428	0.120177	0.509603	0.610609	0.490531	0.327714	1.496825	0.135705	-0.08077	0.098674	-0.81853	0.413837
TTC39B.Q5VTQ0	-0.081861	0.160773	-0.50917	0.610855	0.365977	0.406296	0.900763	0.368414	0.121919	0.120826	1.009046	0.31374
ORMDL3.Q8N138	0.0894823	0.175759	0.509119	0.610915	0.427793	0.483155	0.885416	0.376698	0.007025	0.14216	0.049419	0.960621
ANKS1A.Q92625	0.0881834	0.173259	0.508968	0.61102	0.668343	0.448407	1.490483	0.137223	-0.03859	0.131336	-0.29384	0.769101
PRICKLE2.Q7Z3G6	-0.1298	0.255105	-0.50881	0.611107	0.245937	0.636643	0.386303	0.699537	-0.28646	0.188736	-1.5178	0.130084
RBFOX1.F8VZG9	-0.074723	0.146883	-0.50873	0.611167	-0.29978	0.378604	-0.7918	0.42908	-0.16392	0.112357	-1.45888	0.145609
PIP5KL1.Q5T9C9	0.0819703	0.161192	0.508527	0.611313	-0.52403	0.43074	-1.21657	0.224723	0.165996	0.127172	1.305282	0.192797
KIF1B.Q4R9M9	0.1112801	0.219088	0.507925	0.611754	-0.24074	0.655277	-0.36739	0.71361	0.028923	0.190065	0.152173	0.879163
TMUB2.Q71RG4	-0.065017	0.128104	-0.50753	0.612027	-0.02277	0.335636	-0.06785	0.945956	0.145324	0.099524	1.460188	0.14536
ERH.P84090	0.0778496	0.153461	0.507293	0.612171	0.12628	0.383079	0.329646	0.74189	0.021755	0.113972	0.190875	0.848748
GPX3.P22352	-0.043233	0.085314	-0.50675	0.612611	-0.14764	0.232136	-0.63602	0.525354	0.041243	0.066075	0.624188	0.533085
FBXO30.Q8TB52	-0.046871	0.092549	-0.50645	0.612889	0.264254	0.249094	1.060862	0.290001	-0.00513	0.074166	-0.06911	0.944969
TIMM8B.G3XAN8	-0.069789	0.137897	-0.50609	0.613014	0.030488	0.338278	0.090127	0.928244	-0.14923	0.100275	-1.48817	0.137722
NCAN.O14594	0.0900536	0.177991	0.505944	0.613117	-0.22598	0.428724	-0.5271	0.598498	0.061857	0.127547	0.484972	0.628039
PGM2.Q96G03	0.077001	0.152246	0.505765	0.613243	-0.18239	0.382084	-0.47735	0.633451	0.134823	0.113447	1.188419	0.235578
DNAJC10.Q8IXB1	0.1075503	0.212679	0.505693	0.613293	-1.28008	0.538012	-2.37928	0.017951	0.182006	0.161173	1.129264	0.25966
CAPZA1.P52907	-0.127561	0.252356	-0.50548	0.613442	0.572144	0.627261	0.912132	0.362408	0.253024	0.186296	1.358183	0.175393
GSTM5.P46439	0.0160282	0.031709	0.505478	0.613444	-0.16249	0.079091	-2.05452	0.040764	-0.00274	0.023687	-0.11554	0.908095
C6orf203.Q9P0P8	0.0718538	0.1422	0.505302	0.613568	0.476715	0.375205	1.270546	0.204843	-0.03411	0.11189	-0.30484	0.76069
PTRH1.Q86Y79	-0.05577	0.110368	-0.50532	0.613599	0.240584	0.285357	0.843098	0.399934	-0.10885	0.085193	-1.27765	0.202491
TRIOBP.Q9H2D6	-0.076255	0.150937	-0.50521	0.613637	0.078867	0.398864	0.197728	0.843392	0.073728	0.117735	0.626218	0.531648
RNF41.Q9H4P4	-0.085565	0.169384	-0.50515	0.613676	0.373464	0.459319	0.813082	0.416805	0.339317	0.134302	2.526518	0.012026
LHFPL2.Q6ZUX7	0.0766591	0.151729	0.505237	0.613707	-0.37152	0.394312	-0.94219	0.347143	0.125322	0.113808	1.101171	0.272042
RAB22A.Q9UL26	-0.150301	0.297758	-0.50478	0.613936	-0.88899	0.743034	-1.19643	0.232442	0.023948	0.221545	0.108094	0.913991
CHI3L1.P36222	0.0220597	0.043717	0.504598	0.614112	0.117296	0.120941	0.969862	0.333053	0.102413	0.034111	3.00233	0.002951
GLG1.Q92896	-0.093468	0.185283	-0.50446	0.614156	0.13597	0.47316	0.287365	0.774025	-0.08281	0.140697	-0.5886	0.556558
CLPTM1L.Q96KA5	0.0805835	0.15978	0.504341	0.614266	-0.46368	0.403872	-1.14807	0.2519	-0.23461	0.121635	-1.92877	0.054752
NCOA4.Q13772	0.0426891	0.084626	0.504442	0.614321	-0.30952	0.219259	-1.41165	0.159733	-0.01638	0.065642	-0.2495	0.803249

MTHFS.P49914	-0.05437	0.107794	-0.50439	0.614335	0.107391	0.264394	0.406178	0.685052	-0.09274	0.085184	-1.08868	0.277623
ARHGEF28.Q8N1W1	0.1187026	0.235535	0.503971	0.614533	0.328457	0.609709	0.538711	0.59053	0.358051	0.174107	2.0565	0.040695
KCTD21.Q4G0X4	-0.051512	0.102237	-0.50385	0.614641	0.074968	0.254786	0.294239	0.768825	-0.08466	0.073764	-1.14776	0.252193
IGHV1.69.A0A0B4J1V5	0.0170651	0.033893	0.503498	0.614853	0.113099	0.082089	1.377763	0.169335	0.010352	0.025206	0.410686	0.681605
CTDSP1.H7C270	0.0839256	0.166802	0.503144	0.615223	-0.81527	0.466303	-1.74836	0.082135	0.062514	0.123937	0.504399	0.614609
HLA.C.A0A087WWL9	-0.018168	0.036134	-0.50281	0.615434	0.04877	0.098562	0.494818	0.621253	-0.0065	0.029733	-0.21869	0.827108
RPL15.P61313	0.1078277	0.214688	0.502253	0.615709	-0.84452	0.547402	-1.54278	0.123905	0.223692	0.162972	1.372578	0.170876
CLIC1.O00299	0.0529913	0.105665	0.501503	0.616236	-0.17758	0.26861	-0.66109	0.509043	0.093815	0.079785	1.175837	0.240562
EIF4B.P23588	-0.146168	0.291486	-0.50146	0.616269	0.259903	0.76642	0.339112	0.734755	-0.52232	0.226101	-2.31013	0.021537
TMF1.P82094	0.1021437	0.203714	0.501407	0.616307	0.004392	0.515136	0.008525	0.993203	-0.02378	0.153583	-0.15481	0.877074
TBL2.Q9Y4P3	0.1234102	0.246254	0.501149	0.616485	0.829241	0.651854	1.272127	0.204281	-0.27779	0.193779	-1.43352	0.152717
GNPAT.O15228	0.1021369	0.203834	0.501078	0.616535	-0.80605	0.502619	-1.60369	0.1098	0.07849	0.150073	0.523009	0.601342
GRM2.Q14416	-0.108425	0.216444	-0.50094	0.616635	-0.65729	0.531471	-1.23674	0.217118	-0.09326	0.158404	-0.58876	0.556454
PBDC1.Q9BVG4	0.135454	0.270559	0.500645	0.61684	0.448437	0.682677	0.65688	0.511745	0.055771	0.203201	0.274462	0.783913
MAN1C1.Q9NR34	0.0396322	0.079143	0.500766	0.61684	-0.2444	0.201646	-1.21202	0.226793	-0.01454	0.05929	-0.24521	0.806519
MYADM.Q96S97	0.062199	0.124245	0.500614	0.616862	-0.01314	0.33702	-0.03898	0.968935	0.046009	0.100224	0.459059	0.646513
SSU72.Q9NP77	-0.081254	0.162311	-0.50061	0.616882	0.207046	0.386708	0.535407	0.592776	0.035885	0.113237	0.316897	0.751548
EIF2B1.Q14232	0.1357998	0.271556	0.50008	0.617237	0.313621	0.759538	0.41291	0.679958	0.018874	0.226009	0.083511	0.933499
OLFML1.Q6UWY5	0.0143715	0.028738	0.500078	0.617305	-0.00973	0.077772	-0.12505	0.900587	-0.01468	0.023614	-0.62147	0.534873
SNRPG.P62308	0.0719975	0.14401	0.499949	0.617329	0.17043	0.326996	0.5212	0.6026	0.147053	0.096959	1.516645	0.130375
AK2.P54819	0.0909733	0.182047	0.499725	0.617487	0.088824	0.492513	0.180349	0.856997	-0.20233	0.14607	-1.38518	0.166993
SHC1.P29353	0.0804632	0.160991	0.499799	0.617596	0.124329	0.450824	0.275783	0.783031	0.175985	0.132209	1.331112	0.184836
PITRM1.Q5JRX3	-0.026015	0.052077	-0.49955	0.61761	0.027474	0.133687	0.20551	0.837309	0.0173	0.03976	0.435103	0.663791
GRIK5.Q16478	-0.071063	0.142243	-0.49959	0.617668	-0.70109	0.43896	-1.59717	0.111613	0.11549	0.131414	0.878826	0.380421
PITPNM3.Q9BZ71	-0.136901	0.274169	-0.49933	0.617765	0.358708	0.688777	0.52079	0.602885	-0.25404	0.20448	-1.24238	0.215034
FAM210B.Q96KR6	0.0751125	0.150541	0.498951	0.618032	-0.40604	0.380713	-1.06652	0.28702	-0.19503	0.112921	-1.72717	0.085134
KIF2A.O00139.4	-0.167372	0.335707	-0.49857	0.618301	0.868657	0.838002	1.036581	0.300739	0.0425	0.249711	0.170196	0.864967
PRDM2.Q13029	-0.096845	0.194217	-0.49865	0.618508	0.314514	0.498643	0.63074	0.529277	-0.27421	0.146082	-1.87708	0.062665
SYT1.J3KQA0	-0.021081	0.042321	-0.49812	0.618617	0.160291	0.110348	1.4526	0.147346	0.012629	0.03293	0.383505	0.701608
MRPS9.P82933	-0.066218	0.13298	-0.49796	0.618732	0.621601	0.329298	1.887654	0.060006	-0.0605	0.098462	-0.61444	0.539374
ABCG4.Q9H172	0.0673176	0.135125	0.498189	0.6188	-0.28325	0.344242	-0.82283	0.41187	-0.03099	0.109072	-0.28411	0.776707
INPP5D.Q92835	0.0708771	0.142361	0.497869	0.618838	-0.07763	0.365735	-0.21225	0.832079	0.166395	0.106646	1.560249	0.119936
KLHDC9.Q8NEP7	-0.063054	0.126797	-0.49728	0.619236	0.253541	0.3431	0.738972	0.460566	0.005248	0.104198	0.050367	0.959867
FAM65A.Q6ZS17	-0.146782	0.295213	-0.49721	0.619261	-0.31718	0.773612	-0.41	0.682088	0.303229	0.229553	1.320952	0.187491

FN3K.Q9H479	0.130082	0.26154	0.497087	0.619345	0.250351	0.696678	0.359349	0.719578	-0.13206	0.207157	-0.63746	0.524293
MYBBP1A.Q9BQG0	-0.079195	0.15933	-0.49705	0.619369	-0.06058	0.416661	-0.1454	0.884489	-0.15045	0.123659	-1.21666	0.224659
YKT6.O15498	-0.132839	0.267567	-0.49647	0.619778	-0.0783	0.664224	-0.11788	0.90624	-0.18516	0.197319	-0.93836	0.348792
DHRS4.Q9BTZ2	-0.035215	0.070931	-0.49647	0.619782	0.107657	0.186674	0.576714	0.564551	0.035292	0.055526	0.635603	0.525504
NOV.P48745	-0.065927	0.132933	-0.49594	0.620244	0.192527	0.357238	0.538932	0.590471	0.045795	0.10847	0.422194	0.67329
SIAE.Q9HAT2	-0.057139	0.115292	-0.4956	0.620391	0.045245	0.298713	0.151467	0.879706	-0.08339	0.088739	-0.93974	0.348085
IGSF1.Q8N6C5	0.0567105	0.114434	0.495574	0.620426	-0.37811	0.287697	-1.31425	0.189805	0.038191	0.084124	0.453987	0.650179
ANKRD35.Q8N283	0.069276	0.139808	0.49551	0.620471	0.725808	0.368471	1.969781	0.049822	-0.0456	0.107397	-0.42463	0.671423
MARK3.A0A0A0MT23	-0.150257	0.30329	-0.49542	0.620518	-0.56094	0.751636	-0.74629	0.456055	-0.46589	0.222229	-2.09645	0.036852
SESN2.P58004	-0.060982	0.123073	-0.49549	0.620542	0.16779	0.330471	0.50773	0.612119	-0.06655	0.097563	-0.68214	0.495825
SEPT9.Q9UHD8	0.1239484	0.250303	0.495193	0.620679	0.643465	0.645507	0.996837	0.319621	-0.34991	0.191305	-1.82905	0.068353
DMD.P11532	-0.122437	0.24738	-0.49494	0.620861	-0.30681	0.625941	-0.49015	0.624372	-0.62133	0.182905	-3.39702	0.00077
NOL11.Q9H8H0	-0.084371	0.17046	-0.49496	0.620869	-0.1456	0.452732	-0.32161	0.747992	0.276261	0.138211	1.998842	0.046602
SMURF1.Q9HCE7	0.095305	0.192465	0.495181	0.620947	-0.52133	0.510192	-1.02182	0.308692	-0.02906	0.14793	-0.19643	0.844572
WDR43.Q15061	0.0800106	0.161697	0.494818	0.620966	-0.34392	0.417313	-0.82412	0.410573	0.14292	0.120566	1.185414	0.236862
MTMR14.Q8NCE2.2	0.09584	0.193711	0.494758	0.621046	0.548708	0.501651	1.093802	0.275094	0.055232	0.148288	0.372467	0.709861
GDI1.P31150	-0.126832	0.256496	-0.49448	0.621184	0.736374	0.674539	1.09167	0.275826	0.217084	0.20067	1.081796	0.280184
RGL2.O15211	0.0865723	0.175158	0.494253	0.621354	-0.33814	0.454754	-0.74357	0.457723	-0.08584	0.136824	-0.62741	0.530867
CECR5.Q9BXW7	0.0634083	0.128391	0.49387	0.621613	0.293555	0.32647	0.899179	0.369255	-0.03399	0.097226	-0.3496	0.726878
CHCHD10.B5MBW9	-0.025149	0.050908	-0.494	0.621663	0.012936	0.13447	0.096198	0.923465	0.009464	0.040945	0.231143	0.817454
TLDC1.Q6P9B6	-0.08002	0.162063	-0.49376	0.621691	0.164973	0.423788	0.389283	0.697334	0.026042	0.126092	0.20653	0.836513
APOH.P02749	0.0261142	0.052903	0.49362	0.621789	-0.22342	0.129168	-1.72969	0.084682	0.113125	0.038072	2.97136	0.003197
CELF1.Q92879	-0.088623	0.179533	-0.49363	0.621798	0.540275	0.448076	1.205766	0.228901	0.149063	0.129402	1.151939	0.250305
TMEM223.A0PJW6	-0.072598	0.147157	-0.49334	0.622036	0.029541	0.373098	0.079177	0.936954	0.144932	0.113758	1.274029	0.203809
PNISR.Q8TF01	-0.080912	0.164106	-0.49305	0.622257	0.087532	0.44299	0.197593	0.843532	-0.28067	0.130769	-2.14629	0.032861
CLPB.Q9H078.2	0.0826637	0.167949	0.492196	0.622795	1.140828	0.375778	3.035909	0.002602	0.021223	0.113431	0.187104	0.851701
BCAN.Q96GW7	0.0908869	0.184697	0.492085	0.622873	-0.27684	0.486678	-0.56883	0.569881	0.057015	0.144817	0.393703	0.694071
NEURL4.Q96JN8	0.0895307	0.18203	0.491846	0.623042	0.621276	0.457664	1.357494	0.175612	0.222386	0.135966	1.635605	0.102937
ATP9A.O75110	-0.128066	0.260411	-0.49178	0.623088	-0.37602	0.67764	-0.5549	0.57936	0.229961	0.201263	1.142591	0.25409
PFDN1.O60925	-0.100577	0.204517	-0.49178	0.62309	-0.15322	0.443964	-0.34512	0.730236	0.038517	0.132079	0.291619	0.770773
EPM2A.O95278	-0.102119	0.20778	-0.49148	0.623304	0.693487	0.503809	1.376488	0.169664	0.042384	0.150312	0.281971	0.778154
RWDD2B.P57060	0.0774956	0.157616	0.491675	0.623352	-0.04038	0.40526	-0.09964	0.92075	0.025413	0.123188	0.206294	0.836808
PLEKHB2.Q96CS7	0.0813184	0.16555	0.491201	0.623557	0.079657	0.453504	0.175648	0.860718	0.265926	0.125016	2.127135	0.034425
FCGR2A.P12318	-0.052701	0.10729	-0.4912	0.623725	0.186042	0.2395	0.776791	0.438444	-0.02205	0.07167	-0.30768	0.758735

MRPS14.O60783	0.0832384	0.169472	0.491162	0.623783	-0.00174	0.439632	-0.00396	0.996846	-0.18586	0.125259	-1.48376	0.140256
IGHA1.P01876	0.0136989	0.027912	0.490795	0.623785	0.119234	0.069418	1.717626	0.086863	0.009837	0.020741	0.47429	0.635627
YIF1B.Q5BJH7	-0.075943	0.154824	-0.49051	0.623989	-0.01594	0.403463	-0.0395	0.968518	0.17571	0.119731	1.467536	0.143268
GGH.Q92820	0.063123	0.128707	0.490441	0.624036	0.007404	0.322665	0.022946	0.981708	0.058234	0.09593	0.607041	0.544268
NHSL2.D6RBM4	0.056358	0.114913	0.490439	0.624059	-0.26997	0.290048	-0.93077	0.352764	-0.03803	0.087363	-0.43529	0.663684
ERAP1.Q9NZ08.2	0.0453912	0.092586	0.490259	0.624164	-0.38797	0.24597	-1.57729	0.11575	0.016596	0.073459	0.225929	0.821405
RBM33.Q96EV2	0.0605108	0.123481	0.490043	0.624343	0.094389	0.320365	0.294629	0.768496	0.097806	0.096209	1.016595	0.310227
STAT3.P40763	-0.071044	0.144947	-0.49013	0.624366	0.448234	0.380726	1.177315	0.24049	-0.04738	0.113092	-0.419	0.675676
HMOX1.P09601	-0.055133	0.112478	-0.49017	0.624396	0.359649	0.269502	1.334491	0.183777	-0.00121	0.079825	-0.01517	0.987916
CBX4.O00257	0.0736463	0.15024	0.490191	0.624452	-0.03865	0.396782	-0.09741	0.922533	-0.18134	0.124979	-1.45094	0.148987
PIK3CD.O00329	0.0606811	0.123882	0.489831	0.624481	0.103538	0.327593	0.316059	0.752185	0.080189	0.099683	0.804436	0.421802
SLC30A1.Q9Y6M5	-0.098679	0.201513	-0.48969	0.624564	-0.09107	0.50705	-0.17961	0.857573	-0.26168	0.150112	-1.74325	0.082281
HSPA8.E9PK54	-0.039107	0.079868	-0.48965	0.624637	0.035303	0.181994	0.193978	0.846342	0.093608	0.053786	1.740373	0.082959
SSR4.P51571	-0.0794	0.162232	-0.48942	0.624754	0.04243	0.420258	0.100963	0.919645	0.251255	0.124204	2.022922	0.043939
KRI1.Q8N9T8	0.0694855	0.142089	0.489028	0.625171	0.176097	0.360275	0.488786	0.625516	0.234631	0.107666	2.179258	0.030452
AQP4.P55087	0.0408457	0.083575	0.488732	0.625244	-0.17414	0.239798	-0.72618	0.468275	-0.27869	0.06962	-4.00301	7.83E-05
GNS.P15586	-0.10644	0.217993	-0.48827	0.62557	-0.42402	0.545995	-0.77661	0.437982	0.054093	0.162553	0.33277	0.739533
MT.CYB.P00156	-0.025263	0.051775	-0.48795	0.625926	-0.06753	0.143564	-0.47037	0.638638	0.048334	0.041888	1.153902	0.250005
TMEM256.PLSCR3.Q9NRY6	0.1287257	0.263919	0.487747	0.625971	0.399782	0.682553	0.585716	0.558556	0.027704	0.196441	0.141028	0.887953
FIBP.O43427	-0.141203	0.289598	-0.48758	0.626057	-0.45352	0.750927	-0.60395	0.546321	0.52472	0.221523	2.368694	0.018464
LRP11.Q86VZ4	0.0881695	0.180883	0.48744	0.626183	-0.37096	0.495064	-0.74933	0.454291	0.361421	0.146093	2.473912	0.013959
KIAA1468.Q9P260	-0.032754	0.067219	-0.48727	0.626426	0.015116	0.195894	0.077162	0.938583	0.006295	0.055426	0.113568	0.90971
SMIM20.Q8N5G0	0.085208	0.174952	0.487036	0.626444	0.359217	0.467834	0.767831	0.443172	-0.66206	0.134134	-4.9358	1.31E-06
CDA.P32320	-0.051546	0.105851	-0.48697	0.626527	0.10908	0.272227	0.400695	0.68897	0.104906	0.079531	1.319055	0.188298
PDIA6.Q15084	-0.101026	0.207717	-0.48636	0.626922	-1.03839	0.551101	-1.88421	0.060472	0.397003	0.16333	2.430684	0.015637
GPRIN3.Q6ZVF9	0.0643544	0.132325	0.486337	0.62694	-0.35609	0.339969	-1.04743	0.295719	-0.41269	0.098565	-4.18695	3.69E-05
C1QBP.Q07021	-0.060872	0.125204	-0.48618	0.627049	0.519066	0.31968	1.623707	0.105455	0.031531	0.095486	0.330216	0.74146
IGLC3.A0A075B6L0	-0.017751	0.036513	-0.48615	0.627075	0.16018	0.090822	1.763657	0.078775	0.001145	0.027153	0.042159	0.966399
MAPK11.Q15759	-0.081779	0.168272	-0.48599	0.627183	0.222231	0.429844	0.517003	0.605523	-0.20239	0.127409	-1.5885	0.113192
CROCC.Q5TZA2	-0.108313	0.223758	-0.48406	0.628551	-0.6075	0.608807	-0.99784	0.319133	0.196542	0.181056	1.085527	0.278532
COX18.Q8N8Q8	0.0751711	0.155346	0.483895	0.628709	-0.73587	0.426556	-1.72515	0.085688	-0.04031	0.131298	-0.30699	0.759098
EIF2AK2.P19525	0.0984679	0.203608	0.483615	0.628869	-0.39249	0.486039	-0.80752	0.419987	-0.05134	0.144711	-0.35475	0.723022
DAB1.O75553	-0.070956	0.146676	-0.48376	0.62887	-0.00096	0.371575	-0.00259	0.997939	0.009155	0.115458	0.079294	0.936876
DDHD2.O94830	0.162	0.335335	0.483099	0.629235	0.6319	0.809211	0.780884	0.435466	0.618502	0.238388	2.594516	0.009922

NBAS.A2RRP1	-0.169549	0.351043	-0.48299	0.629314	-0.34437	0.885131	-0.38906	0.697499	0.363764	0.262563	1.385434	0.166916
HLA.DPA1.P20036	0.0408952	0.084639	0.48317	0.629328	-0.18025	0.209332	-0.86108	0.390357	-0.03078	0.055356	-0.55599	0.57892
USP43.Q70EL4	0.0656944	0.136072	0.482793	0.629491	0.139891	0.338484	0.413288	0.679734	0.016234	0.099653	0.162906	0.870718
SACM1L.Q9NTJ5	-0.146397	0.303479	-0.4824	0.629734	-0.93253	0.73679	-1.26566	0.206585	0.658259	0.216544	3.039842	0.002569
UBXN4.Q92575	0.1037578	0.215257	0.482019	0.630002	0.50452	0.546084	0.923887	0.356264	-0.66632	0.158211	-4.21161	3.33E-05
SRC.P12931.2	-0.140735	0.292194	-0.48165	0.630265	-0.36237	0.776027	-0.46696	0.640859	0.201936	0.230651	0.875506	0.381977
MIA3.Q5JRA6	-0.165927	0.344515	-0.48163	0.630281	-0.44618	0.876407	-0.5091	0.611044	0.098641	0.260765	0.378278	0.705483
TMEM132C.Q8N3T6	-0.090014	0.186932	-0.48153	0.63038	-0.05566	0.470237	-0.11836	0.905873	0.125232	0.136518	0.917331	0.359788
LTF.E7EQB2	0.0272826	0.056699	0.481181	0.630597	-0.00902	0.141533	-0.06371	0.949239	0.015508	0.042095	0.368398	0.712828
FBXL2.Q9UKC9	0.0578921	0.120337	0.481084	0.630676	0.227648	0.325528	0.69932	0.484901	-0.06671	0.097318	-0.68547	0.493584
KCNJ6.P48051	-0.073244	0.152289	-0.48096	0.63077	0.141224	0.399573	0.353438	0.724015	-0.26874	0.117545	-2.28625	0.022953
GSTK1.Q9Y2Q3	-0.096944	0.201715	-0.4806	0.631012	0.929465	0.505609	1.838308	0.066974	-0.10327	0.151114	-0.68339	0.49487
RTF1.Q92541	0.1072626	0.223271	0.480415	0.631141	-0.35604	0.564522	-0.63068	0.528712	-0.34846	0.166874	-2.08815	0.0376
RPL35.P42766	0.0691198	0.143908	0.480304	0.63122	-0.06343	0.373126	-0.16999	0.865132	0.03165	0.110989	0.285163	0.77571
DCD.P81605	-0.023359	0.048707	-0.47958	0.63176	-0.01529	0.144758	-0.10561	0.915972	0.045726	0.041545	1.100644	0.272032
GABRD.O14764	-0.073347	0.152982	-0.47945	0.631829	-0.3061	0.400879	-0.76356	0.445707	-0.1121	0.119197	-0.94045	0.347718
GLCC1.Q86VQ1	-0.107688	0.224625	-0.47941	0.631852	-0.18211	0.562759	-0.32361	0.746454	-0.31052	0.166508	-1.86492	0.063138
MARK1.A0A087X016	0.0542055	0.113066	0.479415	0.631933	-0.45049	0.282578	-1.5942	0.11234	0.019636	0.083418	0.235389	0.814128
RAB12.Q6IQ22	0.147237	0.307333	0.47908	0.632089	-0.34602	0.783362	-0.44171	0.659008	0.120422	0.233009	0.51681	0.605657
SHF.H0YLM1	0.0538972	0.112513	0.479032	0.632124	-0.149	0.266909	-0.55826	0.57707	0.005159	0.07944	0.064945	0.948259
BRI3BP.Q8WY22	0.0791784	0.165501	0.478417	0.632561	-0.55611	0.426747	-1.30313	0.193496	-0.06029	0.127251	-0.47377	0.636
CHMP2A.O43633	-0.073055	0.152876	-0.47787	0.63295	-0.21039	0.406978	-0.51696	0.605555	-0.14104	0.120856	-1.16704	0.244092
VAMP4.O75379	0.0793519	0.166076	0.477804	0.633007	-0.29106	0.462069	-0.62991	0.529238	-0.00698	0.139575	-0.05001	0.960145
MTUS2.J3KQA9	0.0992389	0.207805	0.477558	0.633172	-0.08336	0.604409	-0.13792	0.890394	-0.18934	0.179485	-1.05489	0.292295
OPRM1.P35372	-0.052149	0.10932	-0.47703	0.633637	-0.15107	0.287268	-0.5259	0.59948	0.059659	0.088977	0.670495	0.503236
KHDRBS1.Q07666	0.0764849	0.160423	0.47677	0.633732	0.094033	0.405244	0.232041	0.816659	-0.12078	0.120368	-1.00346	0.316423
FBXO3.Q9UK99	0.0945923	0.19851	0.476513	0.633916	0.767004	0.528179	1.452167	0.147467	0.029381	0.157649	0.186372	0.852275
MAP3K2.Q9Y2U5	-0.07608	0.159675	-0.47647	0.634032	0.068837	0.433692	0.158723	0.874034	-0.01612	0.122434	-0.13166	0.895375
HERC3.Q15034	0.0607918	0.12757	0.476536	0.634106	-0.10356	0.294238	-0.35197	0.725335	-0.13262	0.087884	-1.50904	0.133299
CHD3.Q12873	-0.055885	0.117315	-0.47636	0.634129	-0.01438	0.316549	-0.04543	0.963808	-0.0535	0.094477	-0.56628	0.571829
WIPI2.Q9Y4P8.6	-0.057061	0.119835	-0.47616	0.634326	0.521038	0.301236	1.729665	0.085414	-0.05294	0.092997	-0.56929	0.569876
SCN1A.P35498	-0.069331	0.145726	-0.47577	0.634447	0.134136	0.387187	0.346437	0.72925	0.17744	0.114762	1.546161	0.123086
HERPUD1.Q15011	-0.05592	0.117519	-0.47584	0.63449	0.189954	0.336949	0.563748	0.573513	0.021776	0.098478	0.221126	0.825204
PPM1F.P49593	-0.153362	0.322425	-0.47565	0.634529	0.725203	0.85964	0.843612	0.399537	0.49355	0.254482	1.939431	0.053356

MOAP1.Q96BY2	-0.040662	0.085554	-0.47528	0.634799	-0.18515	0.229033	-0.80842	0.419485	0.042654	0.068284	0.624653	0.53267
DPAGT1.Q9H3H5	0.0676001	0.14222	0.475319	0.634845	-0.70739	0.401393	-1.76234	0.079381	0.240742	0.121971	1.973755	0.049644
AHNAK.Q09666	0.0490558	0.103323	0.474782	0.635148	-0.02527	0.257085	-0.09829	0.921762	-0.1049	0.076247	-1.37576	0.169889
AHCY.P23526	0.1159461	0.244248	0.474706	0.635202	-0.20805	0.638042	-0.32608	0.744585	0.269958	0.189219	1.4267	0.154673
PPP1R1A.Q13522	0.0691481	0.145666	0.474705	0.635203	-0.77783	0.377501	-2.06046	0.040189	-0.1076	0.112901	-0.95308	0.341293
HMGB2.P26583	0.0531323	0.112062	0.474132	0.635611	0.056951	0.282389	0.201675	0.840303	-0.2637	0.082665	-3.19002	0.001568
UEVLD.Q8IX04	0.0850498	0.179448	0.473952	0.635739	0.040919	0.488312	0.083796	0.933273	0.159891	0.144982	1.102838	0.270953
CTTNBP2.Q8WZ74	-0.139006	0.293321	-0.4739	0.635773	0.441529	0.772778	0.571352	0.568175	0.169806	0.229806	0.738908	0.460522
PDCD10.Q9BUL8	0.1410907	0.297782	0.473805	0.635844	-0.06211	0.723874	-0.08581	0.931674	0.017574	0.21534	0.08161	0.935009
RTCB.Q9Y3I0	0.1016438	0.21453	0.473797	0.63585	-0.10359	0.530341	-0.19532	0.84527	0.270279	0.157028	1.721211	0.08621
PEX5L.Q8IYB4.3	0.054311	0.114659	0.473672	0.635946	-0.21879	0.270496	-0.80885	0.419239	-0.15289	0.079731	-1.91754	0.056115
IGLON5.A6NGN9	-0.089611	0.189255	-0.47349	0.636067	0.288443	0.463937	0.621729	0.534577	0.134389	0.137888	0.974622	0.330508
KIDINS220.Q9ULH0	0.1192013	0.25185	0.473303	0.636202	-0.58542	0.634047	-0.9233	0.356567	0.461792	0.187047	2.468855	0.014094
TRIP12.Q14669.2	-0.120777	0.255202	-0.47326	0.636231	-0.62232	0.634756	-0.98042	0.327646	-0.39082	0.187814	-2.08086	0.038267
BCKDHB.P21953	0.080452	0.170016	0.473202	0.636274	0.060174	0.432076	0.139267	0.88933	-0.1312	0.128323	-1.02244	0.307372
FHL1.Q13642	-0.050603	0.107026	-0.47281	0.636707	-0.72582	0.263888	-2.75049	0.006532	-0.14046	0.083276	-1.68672	0.093315
DEFA1.P59665	0.0203139	0.043051	0.471856	0.637262	-0.08875	0.107969	-0.82196	0.411828	0.018734	0.031073	0.602907	0.547077
CD81.E9PRJ8	0.0677589	0.143627	0.47177	0.637295	0.129104	0.378333	0.341243	0.733152	0.028797	0.112557	0.255845	0.79824
PEX5.P50542	-0.120991	0.256519	-0.47166	0.637371	1.191669	0.663113	1.797082	0.073296	0.245738	0.197797	1.242371	0.215039
EIF4E2.B8ZZ50	0.0906448	0.192244	0.471509	0.637481	0.329655	0.519542	0.63451	0.526216	0.214757	0.154173	1.392961	0.16463
STXBP5.Q5T5C0	-0.117982	0.250491	-0.471	0.637841	-0.21193	0.638561	-0.33189	0.7402	0.171835	0.189744	0.905616	0.365842
FLOT2.K7EKW9	0.0414273	0.087928	0.471148	0.637861	0.349637	0.23342	1.497886	0.135796	0.037557	0.075017	0.500646	0.61719
EMILIN2.Q9BXX0	0.0433937	0.092195	0.470671	0.638079	-0.07122	0.230965	-0.30834	0.758032	0.069164	0.068606	1.00813	0.314178
CD40.P25942	-0.044179	0.093828	-0.47085	0.638131	0.330935	0.225348	1.468556	0.14379	0.030112	0.068711	0.438241	0.661765
PTPRJ.A0A087WVC6	0.09966	0.211981	0.470137	0.63846	-1.02642	0.53269	-1.92687	0.05491	-0.0038	0.159412	-0.02383	0.981005
FAM219A.Q8IW50.6	-0.065818	0.139993	-0.47015	0.638461	0.439779	0.39867	1.103114	0.270902	-0.26561	0.114281	-2.32422	0.020812
LDB2.O43679	-0.045101	0.095935	-0.47012	0.638568	0.319643	0.239718	1.333409	0.183815	-0.1218	0.064154	-1.89859	0.058964
ARL5A.Q9Y689	0.0781089	0.166225	0.469897	0.638638	0.264098	0.427003	0.618492	0.536719	0.213837	0.125971	1.697514	0.090633
VWA8.A3KMH1	0.0372237	0.079233	0.469802	0.6387	0.198418	0.194541	1.019931	0.308557	-0.01711	0.057961	-0.29526	0.767995
POTEI.P0CG38	0.0242611	0.051643	0.46978	0.638715	-0.13138	0.123351	-1.06512	0.287649	0.005364	0.03676	0.145922	0.884077
PLA2G6.O60733	-0.114851	0.244673	-0.46941	0.638981	-0.10888	0.647576	-0.16813	0.866591	0.1441	0.192477	0.748661	0.454629
CAB39L.Q9H9S4	0.0763004	0.162548	0.469404	0.638984	-0.29289	0.416026	-0.70402	0.481946	0.283101	0.122811	2.305173	0.021817
METAP1.P53582	-0.147968	0.315335	-0.46924	0.639101	0.906185	0.815252	1.11154	0.267197	-0.08672	0.242956	-0.35693	0.721388
IMPAD1.Q9NX62	0.0504347	0.107499	0.469164	0.639155	0.178013	0.282336	0.6305	0.528832	-0.18146	0.08341	-2.17555	0.030344

GNB4.Q9HAV0	-0.080835	0.172395	-0.46889	0.639349	-0.37015	0.432589	-0.85566	0.392848	-0.10383	0.128704	-0.80676	0.420422
MTPN.P58546	0.0978028	0.208594	0.468867	0.639367	-0.62613	0.552274	-1.13374	0.257781	0.012774	0.16463	0.077592	0.938202
ACBD5.B7Z2R7	-0.042891	0.091584	-0.46832	0.639797	-0.16053	0.223543	-0.71811	0.473337	-0.18128	0.066909	-2.70929	0.007193
SUGT1.Q9Y2Z0	0.0997844	0.213188	0.468058	0.639945	-0.4316	0.541307	-0.79732	0.425873	-0.27038	0.160461	-1.68501	0.092994
RPAP3.Q9H6T3	0.1388701	0.297119	0.467389	0.640424	-0.87337	0.750637	-1.1635	0.245522	0.507525	0.221924	2.286931	0.022874
NSRP1.A0A024QZ33	0.0605996	0.129588	0.467633	0.640427	0.205584	0.320786	0.640877	0.522466	0.011581	0.10042	0.11533	0.90832
ADD3.Q9UEY8.2	-0.086339	0.184787	-0.46724	0.640531	0.244766	0.502081	0.487503	0.626247	-0.45244	0.147191	-3.0738	0.002301
MTMR9.Q96QG7	0.0975704	0.208883	0.467105	0.640627	-0.57516	0.51682	-1.11288	0.266622	-0.18728	0.153684	-1.21863	0.223911
POLR3A.O14802	0.0820471	0.175662	0.467074	0.640695	0.46478	0.461689	1.006697	0.315046	-0.04154	0.138844	-0.29916	0.765062
KAT7.O95251	-0.065419	0.140068	-0.46705	0.640703	-0.15726	0.335477	-0.46876	0.639629	-0.14158	0.10095	-1.40244	0.161969
EHBP1.Q8NDI1	-0.160357	0.343411	-0.46695	0.640735	0.882765	0.918161	0.961449	0.337076	-0.47387	0.272216	-1.74078	0.082715
ITPA.Q9BY32	-0.027023	0.057877	-0.46691	0.640768	0.230789	0.14605	1.580213	0.115078	0.025095	0.043599	0.575595	0.565307
PTGFRN.Q9P2B2	-0.091212	0.1954	-0.4668	0.640846	0.34851	0.500012	0.697003	0.486323	-0.2243	0.148315	-1.51229	0.131479
ATP13A3.Q9H7F0	0.0709452	0.151956	0.466881	0.640976	-0.50737	0.39755	-1.27623	0.203723	-0.18556	0.119618	-1.55131	0.122804
HSD17B12.Q53GQ0	-0.068506	0.146855	-0.46648	0.64107	-0.63363	0.379236	-1.67081	0.095767	-0.05893	0.113273	-0.52025	0.603261
TANC2.J3KRP9	-0.056632	0.121405	-0.46647	0.64111	0.251647	0.321792	0.782017	0.43489	-0.1666	0.098925	-1.68414	0.093311
MTAP.Q13126	0.0903318	0.193704	0.46634	0.641174	0.358364	0.50987	0.702854	0.482674	0.278305	0.150973	1.843407	0.066224
SPP1.P10451.5	0.0208116	0.044609	0.466535	0.641183	-0.15104	0.117161	-1.28919	0.198969	0.01875	0.03592	0.521977	0.602321
PLXNA3.P51805	-0.052126	0.111827	-0.46613	0.641346	0.520843	0.316604	1.645092	0.101061	0.087088	0.093513	0.931293	0.352496
SDF4.Q9BRK5	-0.056424	0.121074	-0.46603	0.641414	0.100027	0.293769	0.340495	0.733734	-0.13168	0.085126	-1.54683	0.123009
ARPP21.Q9UBL0	0.056865	0.12204	0.465952	0.641451	-0.20109	0.294226	-0.68344	0.494838	-0.06247	0.087521	-0.71379	0.475893
ZDHC14.Q8IZN3	0.0777194	0.166859	0.465779	0.641671	-0.15228	0.457697	-0.33272	0.739699	0.169968	0.129796	1.309496	0.191884
SEPT2.Q15019	-0.102597	0.220375	-0.46556	0.641733	-0.53384	0.575151	-0.92818	0.354039	0.055091	0.171306	0.321594	0.747977
TIPRL.O75663	0.129444	0.278098	0.465462	0.641802	0.123362	0.723167	0.170586	0.864661	-0.23636	0.21472	-1.10078	0.271848
SNX33.Q8WV41	0.0834411	0.179228	0.46556	0.64186	0.444824	0.457977	0.97128	0.332565	-0.06438	0.142305	-0.45242	0.651452
C17orf62.Q9BQA9	-0.069987	0.150536	-0.46491	0.6422	0.079632	0.379876	0.209627	0.8341	0.01247	0.113212	0.110149	0.912364
TYK2.P29597	0.0565652	0.121722	0.464707	0.642356	0.385094	0.3612	1.066149	0.287246	0.111112	0.105344	1.054752	0.29242
EFNB3.Q15768	-0.076334	0.16428	-0.46466	0.642376	-0.51537	0.427171	-1.20647	0.228556	0.076789	0.127299	0.603218	0.546805
SLC22A17.Q8WUG5	-0.08037	0.172994	-0.46458	0.64243	-0.03643	0.433662	-0.08401	0.933105	-0.06855	0.128949	-0.5316	0.595381
SALL2.Q9Y467	-0.047001	0.101156	-0.46464	0.642543	0.139325	0.264124	0.527498	0.598505	0.039665	0.082517	0.480684	0.631332
CASP1.P29466	0.0423308	0.091297	0.46366	0.643152	0.104514	0.26643	0.392275	0.695207	0.116323	0.076899	1.512685	0.131692
TMCO1.J9JIE6	-0.075006	0.161835	-0.46348	0.643224	-0.2127	0.413605	-0.51425	0.607443	-0.04842	0.123062	-0.39347	0.694243
NOP16.Q9Y3C1	-0.084059	0.181346	-0.46353	0.643286	0.19977	0.512048	0.390139	0.696841	-0.32441	0.155139	-2.09107	0.03776
ZEB1.P37275	-0.078301	0.169	-0.46332	0.643446	-0.01252	0.450114	-0.02782	0.977835	-0.0265	0.128911	-0.20557	0.837331

TPT1.P13693	-0.074816	0.161547	-0.46312	0.643477	0.401883	0.414944	0.968524	0.333538	0.081359	0.123539	0.658569	0.510662
ACAD10.Q6JQN1	-0.071108	0.153527	-0.46316	0.643545	-0.11075	0.380575	-0.29102	0.771336	-0.07291	0.116313	-0.62686	0.53146
TMEM25.Q86YD3	-0.068467	0.147995	-0.46263	0.643847	0.365733	0.360581	1.014287	0.311312	-0.03311	0.106334	-0.31133	0.755776
AP1B1.Q10567.3	-0.076051	0.16441	-0.46257	0.643871	-0.7043	0.400741	-1.7575	0.079819	0.194865	0.119293	1.63349	0.103381
SMG5.Q9UPR3	-0.093567	0.202324	-0.46246	0.643952	1.183005	0.505976	2.338064	0.02002	0.222333	0.151314	1.469344	0.142754
COL6A3.C9JNG9	0.0169115	0.036601	0.462044	0.644274	-0.07666	0.091168	-0.84085	0.401155	-0.02231	0.027279	-0.8179	0.414115
C17orf89.A1L188	-0.038863	0.084141	-0.46188	0.644385	0.029522	0.196975	0.149878	0.880965	0.013335	0.059295	0.224887	0.822226
POLR3F.Q9H1D9	0.0772617	0.167321	0.461757	0.64451	-0.21416	0.449737	-0.47619	0.634379	-0.10915	0.134532	-0.81136	0.417977
LYVE1.Q9Y5Y7	0.040329	0.087337	0.461762	0.644517	-0.11678	0.224034	-0.52126	0.602686	0.082224	0.066214	1.241791	0.215579
GKAP1.Q5VSY0.2	0.0586083	0.126947	0.461676	0.644579	-0.06549	0.290888	-0.22515	0.822055	-0.43263	0.08542	-5.06472	8.16E-07
SNX6.Q9UNH7	0.1365634	0.29593	0.461472	0.644659	-0.29365	0.731246	-0.40158	0.688272	0.411082	0.216333	1.90023	0.058331
VPS29.F8VXU5	-0.12168	0.263772	-0.46131	0.644777	-0.9032	0.64252	-1.40572	0.160809	0.177213	0.191482	0.925478	0.355437
CD34.P28906	0.0485705	0.105293	0.461289	0.644803	-0.21828	0.266587	-0.81879	0.413574	-0.01633	0.078955	-0.20679	0.836321
AP3D1.O14617.2	-0.02719	0.058909	-0.46155	0.644829	0.081687	0.145048	0.563172	0.574181	-0.04711	0.043133	-1.09221	0.276539
ARHGAP1.Q07960	-0.099651	0.216148	-0.46103	0.644975	0.43883	0.534585	0.82088	0.412345	-0.01093	0.159201	-0.06868	0.945285
MOCS2.O96007	-0.056428	0.122424	-0.46093	0.645051	0.12358	0.338391	0.365198	0.715213	-0.13331	0.100402	-1.32779	0.185225
UBE2R2.Q712K3	-0.098309	0.213322	-0.46085	0.645119	0.622563	0.53272	1.168648	0.243502	0.194109	0.158215	1.226868	0.220864
MGEA5.O60502	-0.078047	0.169412	-0.46069	0.645217	0.500225	0.423456	1.181292	0.238392	-0.36007	0.124587	-2.8901	0.004123
PRRC2C.Q9Y520	-0.112123	0.243456	-0.46055	0.645323	0.127325	0.679773	0.187305	0.851544	-0.78682	0.197233	-3.9893	8.27E-05
C2orf49.Q9BVC5	0.0717381	0.155762	0.460563	0.645393	-0.02735	0.40169	-0.06808	0.945781	-0.20853	0.11366	-1.83465	0.067908
NSFL1C.Q9UNZ2.5	-0.131979	0.286729	-0.46029	0.645506	-0.66252	0.723254	-0.91603	0.360362	-0.25265	0.214968	-1.1753	0.240778
TRUB2.O95900	-0.0459	0.099755	-0.46013	0.645713	-0.20048	0.2643	-0.75853	0.448999	0.009803	0.075463	0.129904	0.896769
CAND2.O75155	0.0615078	0.133895	0.459373	0.646164	0.074964	0.337627	0.222031	0.824436	-0.10183	0.100279	-1.01547	0.310672
CYLD.Q9NQC7	-0.151913	0.331508	-0.45825	0.646972	0.450366	0.833108	0.540585	0.589182	0.059343	0.247929	0.239353	0.81099
ENTPD6.H0Y3D0	0.0538488	0.117546	0.458109	0.647123	0.287936	0.276017	1.043184	0.297859	-0.12535	0.08438	-1.48559	0.138632
GNPDA2.Q8TDQ7	0.1029201	0.224708	0.458018	0.647137	0.32298	0.578936	0.557885	0.577325	-0.00266	0.17231	-0.01544	0.987695
TMEM74B.Q9NUR3	0.0788112	0.17205	0.45807	0.64717	-0.37625	0.468654	-0.80282	0.422907	0.098995	0.138391	0.715329	0.475131
SSX2IP.Q9Y2D8	-0.058845	0.128536	-0.45781	0.647312	-0.12959	0.344826	-0.37581	0.707351	0.073931	0.107567	0.687305	0.492474
SNX24.Q9Y343	0.0591906	0.129406	0.457403	0.647649	0.075418	0.502604	0.150054	0.880855	-0.10324	0.144646	-0.71373	0.476123
PSMD4.Q5VWC4	-0.07564	0.165356	-0.45744	0.64773	0.713762	0.434073	1.644335	0.101934	-0.30417	0.126501	-2.40448	0.017257
PPIP5K1.B7WPL9	-0.079892	0.174973	-0.4566	0.648159	0.165975	0.431093	0.38501	0.700494	-0.1179	0.128098	-0.92039	0.358083
NOC2L.Q9Y3T9	0.0791169	0.173335	0.456439	0.648311	-0.27172	0.445625	-0.60975	0.542556	-0.11221	0.133489	-0.84061	0.401332
NSUN4.Q96CB9	-0.052729	0.11556	-0.4563	0.648394	-0.06402	0.302981	-0.21129	0.832814	0.019871	0.090829	0.218776	0.826985
CHRM3.P20309	-0.038578	0.084574	-0.45615	0.648482	-0.19365	0.214696	-0.90196	0.367778	-0.00298	0.063952	-0.04661	0.962854

ATP8A1.Q9Y2Q0.3	0.0707501	0.155135	0.456056	0.648596	0.337852	0.406197	0.831744	0.406367	0.272175	0.116038	2.345559	0.0198
KDELR1.P24390	0.0386809	0.084807	0.456107	0.648663	-0.1505	0.241249	-0.62386	0.533512	0.060097	0.071806	0.836934	0.403739
GALNT8.P17658	0.079003	0.173329	0.455798	0.648752	0.120563	0.456606	0.264042	0.791939	0.193083	0.133231	1.449237	0.148375
C1R.B4DPQ0	0.0405374	0.089075	0.455095	0.649247	0.02367	0.227661	0.103972	0.917262	0.133796	0.068022	1.966934	0.050122
PICALM.Q13492	0.1397928	0.307285	0.454928	0.649357	-0.09827	0.801768	-0.12256	0.902532	-0.60311	0.236045	-2.55505	0.011095
NOMO1.Q15155	0.0393496	0.086523	0.454786	0.649475	-0.26927	0.22166	-1.21478	0.225452	-0.01218	0.06569	-0.18536	0.853079
FAM120C.Q9NX05	0.1091625	0.240091	0.454671	0.649541	0.138838	0.610095	0.227567	0.820133	-0.87149	0.174628	-4.99052	1.01E-06
AJAP1.Q9UKB5	0.0758875	0.166927	0.454616	0.649591	-0.4518	0.405251	-1.11487	0.265805	0.004914	0.122076	0.040257	0.967915
IGKV2.30.A0A075B6S3	-0.016176	0.035597	-0.45442	0.649728	0.027506	0.094019	0.292555	0.770062	0.020291	0.027798	0.729929	0.465996
ADPGK.Q9BRR6	0.0618043	0.13603	0.454344	0.649796	0.033914	0.307	0.110468	0.912116	0.135583	0.088875	1.525544	0.12824
CADPS.H0YFP0	-0.074346	0.16371	-0.45413	0.649934	0.19334	0.429879	0.449755	0.653211	-0.01674	0.125843	-0.13302	0.894264
RAI14.Q9P0K7	-0.059766	0.131606	-0.45413	0.649936	0.178721	0.337915	0.528894	0.59727	-0.03526	0.099829	-0.35318	0.724203
FECH.P22830.2	-0.090541	0.199401	-0.45407	0.649976	0.560862	0.594875	0.942824	0.346505	-0.0894	0.177146	-0.50468	0.614142
NRF1.Q16656	0.0342589	0.075431	0.454173	0.650044	-0.11866	0.166351	-0.71332	0.476557	0.010879	0.05174	0.210269	0.833691
NTNG2.Q96CW9	0.0768157	0.169212	0.453961	0.650059	0.082187	0.425961	0.192945	0.847132	0.18077	0.126521	1.428769	0.154104
ARL6IP4.Q66PJ3	0.0645002	0.142154	0.453733	0.650216	-0.00573	0.343722	-0.01668	0.986703	-0.17024	0.101793	-1.67245	0.095444
TIMM23.O14925	0.0752213	0.165822	0.453625	0.650297	0.30527	0.420293	0.726327	0.468196	-0.18519	0.125806	-1.472	0.142051
NDRG4.Q9ULP0.6	0.0729143	0.160787	0.453483	0.650396	0.623475	0.42122	1.480164	0.139845	0.071936	0.125681	0.572373	0.567484
USP11.P51784	-0.085828	0.189368	-0.45323	0.650575	-0.06325	0.484727	-0.13048	0.896271	-0.19783	0.143763	-1.37606	0.169795
PSPC1.Q8WXF1	-0.093252	0.205849	-0.45301	0.650737	-0.04405	0.532486	-0.08272	0.934124	-0.19746	0.158009	-1.24967	0.212363
GARNL3.Q5VVW2	-0.095674	0.211335	-0.45271	0.65095	0.121101	0.518682	0.233478	0.815544	0.088224	0.154231	0.572027	0.567718
GNAO1.P09471	-0.053723	0.118712	-0.45255	0.651067	0.167426	0.320422	0.522518	0.601683	0.070895	0.095277	0.744094	0.457383
STRIP1.Q5VSL9	0.1835106	0.40587	0.452142	0.651361	-0.03545	1.051652	-0.03371	0.973129	0.864088	0.308975	2.796628	0.005486
DNPEP.B9ZVU2	-0.067258	0.148709	-0.45228	0.651414	0.080612	0.394247	0.204471	0.838242	0.063282	0.103063	0.614009	0.540071
LSM7.Q9UK45	0.0811124	0.179437	0.45204	0.651435	-0.05562	0.423701	-0.13126	0.895654	0.130185	0.12583	1.03461	0.301657
RIMS2.Q9UQ26	-0.148064	0.327681	-0.45185	0.651568	0.671469	0.873295	0.768891	0.442543	0.02664	0.260033	0.10245	0.918466
FEZ2.Q9UHY8.2	0.0534518	0.118313	0.451782	0.65166	-0.03314	0.294722	-0.11244	0.910566	-0.15441	0.08753	-1.76412	0.078933
EARS2.Q5JPH6	-0.049055	0.108651	-0.45149	0.651829	-0.18937	0.279907	-0.67655	0.499198	0.134301	0.082979	1.618495	0.106573
WBP4.O75554	0.0612146	0.135589	0.451471	0.651871	-0.37852	0.373906	-1.01234	0.312282	-0.04723	0.109972	-0.42946	0.667929
FKBP2.P26885	-0.076267	0.168957	-0.4514	0.651897	-0.06789	0.434606	-0.1562	0.875976	0.239797	0.128573	1.865055	0.063118
C1orf52.Q8N6N3	-0.060796	0.134672	-0.45144	0.651922	-0.49235	0.334165	-1.47336	0.141933	-0.08575	0.103594	-0.82778	0.408596
CLIP1.P30622	-0.188275	0.417147	-0.45134	0.651939	1.244906	1.031236	1.207198	0.228276	0.08752	0.307455	0.28466	0.776095
CSGALNACT1.Q8TDX6	-0.070236	0.155553	-0.45153	0.651976	-0.11569	0.386079	-0.29966	0.764791	0.027555	0.117122	0.235266	0.814279
PLA2G7.Q13093	-0.056649	0.125535	-0.45126	0.652244	0.115289	0.308425	0.373798	0.709159	0.031577	0.10121	0.311991	0.755544

NUDT4.Q9NZJ9	-0.077844	0.172683	-0.45079	0.652332	-0.24137	0.416813	-0.57907	0.562959	-0.06606	0.124005	-0.53272	0.594608
AFG3L2.Q9Y4W6	0.1095255	0.243243	0.450272	0.652708	0.668107	0.715559	0.933685	0.351193	-0.14204	0.213013	-0.66682	0.505384
PDE4DIP.E9PL24	0.071496	0.158858	0.450064	0.652893	-0.2032	0.411898	-0.49332	0.622201	0.010574	0.119003	0.088856	0.929265
NT5DC2.Q9H857	0.0490522	0.108994	0.450045	0.652916	-0.29364	0.2819	-1.04166	0.298576	0.099883	0.088569	1.127741	0.260511
CLASP2.J3KR49	-0.047023	0.104611	-0.44951	0.653274	0.476063	0.293825	1.620226	0.106278	-0.10926	0.08524	-1.28175	0.20096
EPS8L2.Q9H6S3	-0.028319	0.063	-0.44951	0.653275	0.01996	0.16854	0.118431	0.905811	0.002223	0.048757	0.045597	0.963664
RANBP3.B7Z7F3	0.0948825	0.211133	0.449398	0.653338	0.132715	0.544468	0.243752	0.807584	-0.4448	0.160003	-2.77995	0.005769
RING1.Q06587	0.0794955	0.177016	0.449086	0.653569	0.220668	0.450956	0.489334	0.624966	0.200622	0.13079	1.533923	0.126113
ANKMY2.Q8IV38	-0.087615	0.195227	-0.44879	0.653779	-0.36564	0.490532	-0.7454	0.456595	-0.13153	0.145864	-0.9017	0.367914
AHDC1.Q5TGY3	-0.032905	0.073335	-0.4487	0.653998	-0.18595	0.203527	-0.91366	0.362184	-0.02112	0.060241	-0.35057	0.726344
XPO7.E7ESC6	0.1514911	0.33792	0.448305	0.654126	-0.75849	0.819344	-0.92573	0.355308	0.522284	0.242268	2.155813	0.031867
EPHA3.P29320	0.0533903	0.119058	0.44844	0.654234	-0.25437	0.3491	-0.72864	0.467292	0.083989	0.099332	0.845538	0.399081
ACN9.Q9NRP4	0.0646846	0.144416	0.447906	0.654441	-0.55183	0.353752	-1.55993	0.119953	0.032981	0.104235	0.316411	0.751936
MT2A.P02795	-0.022386	0.049987	-0.44784	0.654464	0.021402	0.128066	0.167113	0.86739	0.026595	0.038069	0.69859	0.485332
NIT1.Q86X76	-0.082325	0.183896	-0.44767	0.654585	-0.99083	0.463231	-2.13896	0.03322	0.097502	0.138706	0.702944	0.482618
RAP2C.Q9Y3L5	-0.046252	0.103344	-0.44756	0.654671	0.373607	0.263498	1.417876	0.157262	0.014774	0.078312	0.188658	0.850488
FRG1.Q14331	-0.058515	0.130797	-0.44738	0.654848	0.052827	0.397527	0.132888	0.894391	-0.01511	0.11709	-0.12904	0.897435
POFUT1.Q9H488	0.0645323	0.144253	0.447356	0.654851	0.708195	0.4262	1.661648	0.097822	0.082696	0.125456	0.659166	0.510388
REPS2.Q8NFH8	-0.145479	0.325509	-0.44693	0.655118	-0.382	0.822346	-0.46453	0.642594	-0.28575	0.24418	-1.17026	0.242796
R3HDM1.Q15032	0.0516047	0.115463	0.446938	0.655136	-0.09744	0.318377	-0.30604	0.759801	-0.00864	0.097993	-0.08821	0.929771
PRPS2.P11908	0.0777679	0.174034	0.446855	0.655172	-0.15948	0.42488	-0.37535	0.707655	-0.05656	0.126382	-0.44754	0.654799
EIF3A.Q14152	0.1479679	0.331203	0.446759	0.655241	0.166571	0.846022	0.196887	0.844045	-0.61438	0.249262	-2.4648	0.014251
RAP1GAP.P47736.4	0.0597813	0.133835	0.44668	0.655372	0.486465	0.316945	1.534853	0.126257	-0.0413	0.092217	-0.44787	0.65469
HEPACAM.Q14CZ8.2	-0.023115	0.0518	-0.44624	0.655623	0.012657	0.133399	0.094882	0.924471	-0.2097	0.03803	-5.51394	7.54E-08
DLG2.Q15700.3	-0.080373	0.180209	-0.446	0.655789	0.071009	0.461887	0.153737	0.877917	0.038854	0.137391	0.282797	0.777522
FAM174A.Q8TBP5	-0.107224	0.240335	-0.44614	0.655877	0.01775	0.600121	0.029577	0.97644	-0.11101	0.179926	-0.61695	0.538116
GLCE.O94923	0.0624797	0.140128	0.445876	0.655914	0.092639	0.357079	0.259436	0.795506	0.036013	0.10816	0.332959	0.739436
GRPEL1.Q9HAV7	-0.091285	0.204802	-0.44572	0.655988	-0.18048	0.544642	-0.33137	0.740589	0.14644	0.161837	0.904866	0.366239
IBTK.E7EPIO	0.0656215	0.147276	0.445567	0.65627	0.117189	0.352407	0.332538	0.73991	-0.1272	0.105761	-1.20269	0.230841
WIPI2.Q9Y4P8	0.1191389	0.267867	0.444768	0.656678	0.014845	0.697507	0.021284	0.983033	0.488493	0.205633	2.375558	0.01813
C18orf25.Q5BIX2	0.074399	0.167291	0.444729	0.656707	0.027179	0.444076	0.061203	0.951237	-0.23411	0.131435	-1.78122	0.075856
NRGN.Q92686	-0.036709	0.082567	-0.4446	0.656801	-0.125	0.197539	-0.63281	0.527325	-0.13425	0.058306	-2.30258	0.021965
YPEL3.P61236	0.0578494	0.130131	0.444546	0.656927	-0.14984	0.356236	-0.42061	0.674465	0.258002	0.103527	2.492118	0.013468
PRCC.Q92733	-0.055316	0.124548	-0.44413	0.657168	0.269359	0.298682	0.901825	0.367969	-0.06322	0.086343	-0.73219	0.464702

KIFC2.Q96AC6	-0.074244	0.167209	-0.44402	0.65722	-0.82418	0.415378	-1.98417	0.048118	0.168075	0.123983	1.355634	0.176203
EIF3M.Q7L2H7	0.0611203	0.137691	0.443895	0.657309	-0.19595	0.364988	-0.53688	0.591739	0.015062	0.108625	0.138657	0.889811
LGALS3.P17931	-0.045947	0.103555	-0.4437	0.65745	-0.43132	0.254215	-1.69665	0.090766	-0.14801	0.075508	-1.96012	0.050877
RAPGEF2.H0Y905	-0.072426	0.163298	-0.44352	0.657581	0.019983	0.421192	0.047444	0.96219	0.031117	0.125285	0.248368	0.804014
ACOT1.Q86TX2	0.033711	0.076019	0.443457	0.657625	-0.01215	0.189727	-0.06403	0.948989	0.002849	0.056441	0.050483	0.95977
S100A1.Q5T7Y6	0.0389961	0.087946	0.443408	0.657661	-0.50552	0.229713	-2.20064	0.028498	0.087006	0.06869	1.266654	0.20623
NUDT6.P53370	0.0433047	0.097744	0.443044	0.657955	0.368795	0.267496	1.378691	0.169144	-0.0413	0.078975	-0.52299	0.601418
COL14A1.Q05707	-0.017634	0.039818	-0.44286	0.658056	-0.00593	0.099915	-0.05933	0.952726	-0.03435	0.029659	-1.1582	0.247672
FUBP3.Q96I24	0.0777085	0.175477	0.442841	0.658071	-0.10902	0.472742	-0.23062	0.817763	-0.41139	0.13869	-2.96626	0.003249
ANK3.Q12955.4	0.0647119	0.14614	0.442806	0.658145	0.208427	0.368917	0.56497	0.572613	0.129947	0.104492	1.243608	0.214837
TPPP.O94811	-0.078929	0.178314	-0.44264	0.658215	0.01029	0.456836	0.022524	0.982045	-0.17438	0.135539	-1.28657	0.199206
PSMB3.P49720	0.0797602	0.180218	0.442575	0.658263	0.047415	0.470449	0.100787	0.919785	0.062564	0.139907	0.44718	0.655057
MRM1.Q6IN84	-0.042291	0.095607	-0.44234	0.658481	0.181504	0.240823	0.753684	0.451754	0.029667	0.069381	0.427591	0.66932
GSTM3.P21266	0.0279094	0.063158	0.441896	0.658754	-0.09274	0.15912	-0.58281	0.560442	-0.00208	0.047361	-0.04389	0.965018
JOSD1.Q15040	-0.0935	0.21154	-0.442	0.658812	-0.47852	0.557003	-0.8591	0.391389	-0.27909	0.157033	-1.77726	0.07716
LMO3.Q8TAP4	0.0791135	0.179094	0.441743	0.658993	-0.37649	0.48933	-0.7694	0.442651	0.081501	0.150631	0.541062	0.589123
GPD2.P43304	0.0867827	0.196606	0.441405	0.659109	0.093796	0.510666	0.183673	0.85439	0.059683	0.151885	0.392949	0.694627
SMARCD1.Q96GM5	0.0884848	0.200463	0.441402	0.659111	-0.39557	0.487753	-0.81101	0.417982	0.038098	0.145236	0.26232	0.793249
PHF1.E9PQT8	-0.062255	0.141106	-0.44119	0.659443	0.131375	0.3705	0.354589	0.723348	0.079186	0.114796	0.6898	0.491283
LZTR1.Q8N653	0.0736816	0.167115	0.440904	0.659506	-0.01699	0.403448	-0.04212	0.966439	0.04359	0.116989	0.372598	0.70975
C2orf69.Q8N8R5	-0.0977	0.221698	-0.44069	0.659626	-0.30676	0.555668	-0.55206	0.581302	0.238033	0.164829	1.444119	0.149715
MEF2A.Q02078.2	-0.055803	0.126651	-0.44061	0.659834	0.270041	0.345988	0.78049	0.436084	0.039813	0.105037	0.379039	0.705086
CNST.Q6PJW8	0.0745323	0.169289	0.440265	0.659934	0.18412	0.422203	0.436094	0.663072	0.327837	0.124249	2.638544	0.008747
DENND4A.Q7Z401	0.0496997	0.112885	0.440269	0.659943	0.164692	0.299406	0.550064	0.582699	0.015645	0.089487	0.174833	0.861333
CTIF.O43310	0.0453102	0.102911	0.440284	0.659979	-0.4413	0.256941	-1.71753	0.087156	-0.00741	0.078958	-0.0939	0.925267
RAB10.P61026	-0.101776	0.231235	-0.44014	0.660023	-0.57697	0.576541	-1.00075	0.317727	-0.11844	0.171656	-0.69001	0.490705
PTPDC1.A2A3K4	0.0713779	0.162235	0.439966	0.660169	0.112518	0.430946	0.261095	0.794211	-0.20206	0.129238	-1.5635	0.11906
IGLV3.27.A0A075B6J3	-0.018239	0.041506	-0.43944	0.660602	0.057721	0.093161	0.619581	0.536155	-0.03466	0.027388	-1.2656	0.206954
CASC3.O15234	-0.077257	0.175902	-0.4392	0.660805	0.038039	0.475215	0.080046	0.936283	-0.24428	0.134824	-1.81184	0.07155
DCP2.Q8IU60	-0.039816	0.090751	-0.43874	0.661076	0.159516	0.207459	0.768902	0.44265	-0.02625	0.059659	-0.43996	0.660331
PDE10A.Q9Y233.2	0.0747713	0.170575	0.438348	0.661328	0.490085	0.44535	1.10045	0.272016	-0.24887	0.131412	-1.89384	0.059205
LAMTOR5.O43504	-0.07188	0.164006	-0.43828	0.661373	-0.01189	0.423443	-0.02808	0.977615	-0.37558	0.124148	-3.02529	0.002692
MATR3.P43243	0.0678395	0.154905	0.437942	0.661636	-0.33104	0.401474	-0.82456	0.410321	-0.24305	0.115726	-2.10021	0.036605
MAPT.P10636	0.0693753	0.158433	0.437886	0.661657	0.017737	0.365267	0.04856	0.961301	-0.01515	0.108657	-0.1394	0.889222

BCS1L.Q9Y276	-0.126674	0.289292	-0.43788	0.661664	-0.54695	0.776725	-0.70418	0.481849	0.215624	0.230922	0.933753	0.351158
X0.P01705	-0.024153	0.055157	-0.4379	0.661757	-0.07588	0.147003	-0.51616	0.606353	0.007259	0.043893	0.165391	0.868816
PLCH1.Q4KWH8	-0.083731	0.191274	-0.43775	0.661832	-0.78453	0.508415	-1.54309	0.124287	0.123807	0.149267	0.829433	0.407784
CD46.P15529.2	-0.065129	0.148836	-0.43759	0.66187	-0.0922	0.372657	-0.2474	0.804761	0.162045	0.110487	1.466638	0.143488
SUPV3L1.Q8IYB8	0.1014986	0.232183	0.437149	0.662191	0.138333	0.594788	0.232576	0.816245	0.319855	0.176019	1.817156	0.070159
MOG.Q16653	0.0185147	0.042355	0.437135	0.662284	0.025613	0.109579	0.233736	0.815415	0.002412	0.031832	0.07577	0.939674
CROT.Q9UKG9	-0.066301	0.151832	-0.43667	0.662569	-0.49265	0.419195	-1.17523	0.240978	-0.17969	0.123845	-1.4509	0.148012
DAK.Q3LXA3	0.0943601	0.216149	0.43655	0.662625	-0.47723	0.532043	-0.89697	0.370429	0.163302	0.158207	1.032204	0.302781
NCOA2.Q15596	-0.064004	0.146573	-0.43667	0.662652	-0.00708	0.390159	-0.01815	0.98554	-0.11824	0.119842	-0.98663	0.325013
GCSH.P23434	0.0750848	0.172041	0.436436	0.662708	-0.0563	0.461068	-0.12211	0.902891	0.110555	0.137019	0.806857	0.420367
LDLRAP1.Q5SW96	-0.047503	0.108816	-0.43654	0.662796	0.174817	0.276246	0.632831	0.527725	-0.10468	0.068721	-1.52327	0.129617
MED29.B4DUA7	-0.065024	0.149031	-0.43631	0.662866	-0.04199	0.362884	-0.11572	0.907977	0.000247	0.112816	0.002191	0.998254
GPX4.A0A087WT12	-0.089778	0.205867	-0.4361	0.662954	0.451115	0.534432	0.844102	0.399263	0.260433	0.158478	1.64334	0.101326
MARC1.Q5VT66	0.0507417	0.116356	0.43609	0.662958	-0.6394	0.337678	-1.89351	0.05922	-0.04235	0.101004	-0.41932	0.675272
AK1.P00568	0.0800952	0.183705	0.436	0.663023	-0.06556	0.462163	-0.14185	0.887291	-0.05593	0.137453	-0.40691	0.684356
CMIP.Q8IY22	-0.090138	0.206797	-0.43588	0.663119	0.082761	0.530657	0.155959	0.876171	-0.04378	0.154437	-0.28346	0.777023
USP15.Q9Y4E8.3	-0.089937	0.206326	-0.4359	0.66316	-0.12485	0.522595	-0.2389	0.811399	0.16247	0.151826	1.07011	0.285706
ANKIB1.Q9P2G1	0.1172546	0.269284	0.43543	0.663436	-0.03272	0.720047	-0.04544	0.963783	-0.05527	0.214179	-0.25805	0.796539
ADAM15.Q13444	0.0465697	0.10694	0.435477	0.663437	-0.1455	0.277744	-0.52386	0.600824	-0.13209	0.08024	-1.64621	0.100929
GTF3C2.Q8WUA4	0.0595106	0.136618	0.435599	0.663441	0.689437	0.41874	1.646454	0.101368	-0.15848	0.123894	-1.27916	0.202444
CCDC136.Q96JN2	-0.089252	0.205028	-0.43532	0.663518	0.949772	0.530796	1.789336	0.074537	0.108716	0.158596	0.685493	0.493545
SLC1A4.P43007	-0.049785	0.114447	-0.43501	0.663743	-0.25693	0.308154	-0.83377	0.405055	-0.01265	0.09177	-0.13789	0.890418
TRAF2.Q12933	0.0832999	0.191506	0.434973	0.663768	0.495325	0.511064	0.969204	0.333199	-0.01429	0.15226	-0.09383	0.925304
RAB40B.Q12829	0.0748801	0.172144	0.434986	0.663878	-0.51849	0.444672	-1.166	0.245067	0.011978	0.131237	0.091271	0.927373
GOLGA7.Q7Z5G4	0.0741989	0.170727	0.434605	0.664035	-0.17677	0.433315	-0.40795	0.683595	-0.06942	0.128878	-0.53863	0.59053
GORASP1.Q9BQQ3	-0.069409	0.159846	-0.43422	0.664456	0.25978	0.409174	0.634889	0.526325	0.118023	0.125003	0.944165	0.34638
NAA30.Q147X3	-0.119645	0.275782	-0.43384	0.664591	-1.40007	0.700268	-1.99934	0.046444	-0.35835	0.208666	-1.71736	0.086912
IGHG2.P01859	0.0130388	0.030074	0.433559	0.664795	0.115187	0.076249	1.510674	0.13189	0.014072	0.022752	0.618486	0.536709
TCEAL2.Q9H3H9	0.0526277	0.121447	0.433338	0.66496	-0.02178	0.298035	-0.07309	0.941786	-0.11984	0.087753	-1.36564	0.173075
CFH.P08603	0.0323896	0.074786	0.433095	0.665131	0.035618	0.183353	0.194261	0.846099	0.168265	0.053704	3.133202	0.001894
ZFYVE28.Q9HCC9	-0.071845	0.16594	-0.43296	0.665281	0.468463	0.400018	1.171105	0.242713	-0.26667	0.116725	-2.28458	0.023207
PARD6B.Q9BYG5	-0.052086	0.120601	-0.43189	0.666113	-0.00614	0.287612	-0.02135	0.982987	0.011815	0.081994	0.144099	0.885567
CCDC127.Q96BQ5	-0.102948	0.238492	-0.43166	0.666173	0.443491	0.602465	0.736127	0.46221	-0.0016	0.179379	-0.00894	0.992875
ACTR10.Q9NZ32	0.1115352	0.258445	0.431562	0.666244	0.128206	0.706691	0.181417	0.856159	-0.1525	0.210061	-0.72598	0.468396

TMEM222.Q8TDQ4	-0.037751	0.087523	-0.43132	0.666479	-0.06779	0.236877	-0.2862	0.774982	-0.02462	0.068648	-0.35862	0.720209
ARHGEF25.Q86VW2	-0.079655	0.184797	-0.43104	0.66663	0.027898	0.472839	0.059	0.952992	0.03067	0.137613	0.222872	0.823788
SLC25A44.E9PGQ0	-0.096694	0.224315	-0.43107	0.66663	-1.01061	0.627204	-1.61129	0.108281	0.271585	0.182343	1.489417	0.137541
DMAP1.Q9NPF5	0.0697169	0.161844	0.430767	0.666825	0.25882	0.396268	0.653143	0.514156	-0.10105	0.11809	-0.85573	0.392819
WDR26.Q9H7D7	-0.137994	0.320369	-0.43074	0.666844	0.351157	0.808509	0.434326	0.664354	0.305778	0.239963	1.274272	0.203521
CA5B.Q9Y2D0	-0.039234	0.091191	-0.43024	0.667225	-0.1109	0.231659	-0.47872	0.63251	-0.0073	0.070544	-0.10341	0.917711
WDR35.Q9P2L0	-0.069289	0.16111	-0.43007	0.667343	0.223361	0.42129	0.530185	0.596395	0.008999	0.125049	0.071966	0.942679
GTF2H2.Q13888	0.0533772	0.124147	0.429952	0.667497	0.308428	0.345481	0.892748	0.373014	0.130751	0.101969	1.282266	0.201163
SNX32.Q86XE0	-0.052338	0.121824	-0.42962	0.667657	0.092958	0.319007	0.291397	0.770942	-0.07495	0.094816	-0.79044	0.429872
MRPL27.Q9P0M9	-0.050423	0.117375	-0.42959	0.667675	-0.02403	0.301113	-0.07979	0.936453	-0.06109	0.089509	-0.68249	0.495439
NCBP2.AS2.Q69YL0	-0.064563	0.150383	-0.42932	0.667883	-0.4941	0.395891	-1.24807	0.213006	0.098869	0.117294	0.84291	0.399969
TTYH3.Q9C0H2	-0.071367	0.166364	-0.42898	0.668122	0.087962	0.42734	0.205836	0.837054	0.115961	0.126964	0.913333	0.361777
EPG5.Q9HCE0	-0.082811	0.193063	-0.42893	0.668156	0.74328	0.478428	1.55359	0.121303	-0.01956	0.142872	-0.1369	0.891202
TMEM151A.Q8N4L1	-0.066081	0.154079	-0.42888	0.668227	0.26087	0.387936	0.672455	0.501877	0.128823	0.115165	1.1186	0.26432
C14orf2.P56378	-0.048445	0.112986	-0.42877	0.668287	0.062478	0.311119	0.200816	0.840983	-0.01036	0.091458	-0.11326	0.909904
RHOJ.Q9H4E5	-0.051147	0.119238	-0.42895	0.668343	0.541589	0.289937	1.867953	0.063597	0.102256	0.088425	1.156416	0.249235
DNAJB6.O75190	0.079404	0.185242	0.42865	0.668361	0.188392	0.466899	0.403495	0.686862	0.25299	0.138186	1.830794	0.068091
NMRK1.Q9NWW6	0.0534113	0.124629	0.428564	0.6685	0.653458	0.34645	1.886155	0.060622	0.015277	0.102668	0.148799	0.881852
MTR.Q99707	0.0505929	0.118113	0.428341	0.668586	0.317828	0.282258	1.126017	0.261029	-0.07031	0.084044	-0.83661	0.403455
MT.ND4.P03905	0.0435221	0.101639	0.428204	0.668695	-0.11092	0.250953	-0.44199	0.658828	0.014753	0.071733	0.205661	0.837201
C18orf32.Q8TCD1	-0.077702	0.181466	-0.42819	0.668695	-0.65632	0.466132	-1.408	0.160132	-0.22117	0.13854	-1.5964	0.111418
CLSTN2.Q9H4D0	0.0631703	0.147568	0.428076	0.668779	-0.28315	0.361351	-0.78358	0.433882	0.248084	0.106676	2.325593	0.020685
RALBP1.Q15311	0.1502496	0.351	0.428061	0.668789	0.665627	0.880157	0.756259	0.450068	-0.21135	0.261798	-0.80729	0.42012
STK16.O75716	0.070528	0.164821	0.427908	0.669063	0.388073	0.423597	0.916137	0.36087	-0.07663	0.128585	-0.59595	0.551986
LMTK3.Q96Q04	-0.126411	0.295659	-0.42756	0.669157	0.020996	0.791651	0.026521	0.978859	-0.65272	0.232566	-2.80659	0.005324
MTO1.Q9Y2Z2.6	0.0589661	0.137908	0.427575	0.669169	-0.09529	0.351983	-0.27071	0.786818	-0.01284	0.107599	-0.11931	0.905117
PTPN6.P29350	0.0377741	0.088394	0.427339	0.669327	-0.12755	0.224022	-0.56938	0.56954	0.053703	0.065432	0.820742	0.41247
PDE4C.Q08493	-0.055715	0.130639	-0.42648	0.670063	0.288253	0.358837	0.803298	0.422791	0.095643	0.105482	0.906725	0.365683
CNOT4.O95628.10	0.1389193	0.325932	0.426221	0.670129	-0.25956	0.813156	-0.3192	0.749791	-0.28158	0.24141	-1.16639	0.244351
CACNA1F.O60840	-0.038488	0.090292	-0.42626	0.670222	0.105325	0.268622	0.392093	0.695441	-0.02551	0.076881	-0.33175	0.740457
ZSCAN18.Q8TBC5	0.0588837	0.138217	0.426024	0.670272	0.042695	0.348275	0.122589	0.902512	-0.37468	0.101399	-3.69511	0.00026
ANTXR1.Q9H6X2	0.0571874	0.134266	0.425927	0.670349	-0.23666	0.340811	-0.69439	0.487971	-0.14043	0.100716	-1.39434	0.164245
PPP1CA.P62136	0.0939234	0.220676	0.425617	0.670568	-0.49017	0.564312	-0.86861	0.38573	0.216677	0.167626	1.292623	0.197104
SH3D19.Q5HYK7	-0.072483	0.170303	-0.42561	0.670649	0.314218	0.418317	0.751149	0.453358	-0.28642	0.132835	-2.15621	0.032142

MAPK1.P28482	0.0693629	0.163033	0.425453	0.670688	-0.10873	0.41967	-0.25908	0.795745	0.177308	0.124451	1.424717	0.155245
ANKRD40.Q6AI12	0.0598962	0.14075	0.425551	0.670711	-0.18245	0.359254	-0.50787	0.612098	-0.15791	0.106372	-1.48447	0.139236
LRRC75A.Q8NAA5	-0.075514	0.177826	-0.42465	0.671273	-0.62862	0.45671	-1.37641	0.169689	-0.24664	0.135556	-1.81944	0.069808
COX17.Q14061	0.0438322	0.103277	0.424413	0.671446	0.152286	0.264262	0.576268	0.564852	-0.03422	0.078631	-0.43515	0.663756
EI24.O14681	0.0647002	0.152505	0.42425	0.67159	-0.44098	0.443095	-0.99522	0.320504	-0.18181	0.133446	-1.36241	0.174183
SNCA.P37840	-0.050798	0.11977	-0.42413	0.67165	-0.18403	0.315987	-0.58239	0.560728	-0.27564	0.09274	-2.97221	0.003188
PREB.Q9HCU5	-0.13466	0.317506	-0.42412	0.671661	0.035686	0.775391	0.046023	0.963322	-0.46649	0.229139	-2.03583	0.042618
ERGIC2.A0A087WU02	0.0773866	0.182486	0.424068	0.6717	0.014136	0.457773	0.030879	0.975386	-0.07771	0.136409	-0.56968	0.569312
GTF2F2.P13984	0.0884106	0.208598	0.423831	0.67187	-1.26664	0.5237	-2.41863	0.016155	-0.07592	0.157195	-0.48299	0.629446
SNX12.A0A087X0R6	0.1467842	0.346441	0.423691	0.671972	0.460657	0.841211	0.547612	0.584352	0.341739	0.249613	1.369074	0.171967
MBLAC1.A4D2B0	0.0528877	0.124832	0.423671	0.671987	0.332424	0.346958	0.95811	0.338754	0.161478	0.102959	1.568374	0.117814
C5orf30.Q96GV9	0.0648996	0.153217	0.423579	0.672161	-0.39679	0.390996	-1.01481	0.31144	-0.06268	0.117322	-0.53422	0.593791
TRAPPC4.Q9Y296	0.0762989	0.180227	0.423349	0.672221	-0.27561	0.417707	-0.6598	0.509869	0.147805	0.124064	1.191358	0.234425
INPP5J.Q15735	0.080417	0.190034	0.423172	0.67235	0.140733	0.497773	0.282726	0.777576	-0.06426	0.148053	-0.43405	0.664557
FNIP2.Q9P278	-0.065552	0.154892	-0.42321	0.672421	-0.43585	0.401922	-1.08441	0.27945	-0.33546	0.127135	-2.6386	0.008961
BRD8.H7C127	-0.025758	0.060881	-0.42309	0.672438	0.007158	0.153386	0.046665	0.962815	0.042166	0.045669	0.923293	0.356679
POLR3B.Q9NW08	-0.074896	0.177261	-0.42252	0.672888	-0.17239	0.464801	-0.3709	0.71105	-0.00506	0.139426	-0.0363	0.971072
RGS3.P49796	-0.041973	0.099454	-0.42203	0.673314	0.118414	0.303793	0.389787	0.697163	-0.0051	0.079725	-0.06391	0.949114
MAN1B1.Q9UKM7	0.0385969	0.091498	0.421833	0.673348	-0.2675	0.270649	-0.98838	0.323841	0.028634	0.078554	0.364515	0.715756
ITFG1.Q8TB96	-0.101607	0.240959	-0.42168	0.67344	-0.22886	0.626773	-0.36514	0.715258	0.243309	0.185981	1.308246	0.191759
HDAC8.Q9BY41	0.0818141	0.193955	0.42182	0.67345	0.752095	0.560938	1.340782	0.181584	0.240512	0.166707	1.44272	0.150737
PKM.H3BTN5	0.0787779	0.186954	0.421375	0.673661	0.694674	0.464834	1.494458	0.136073	0.282501	0.137846	2.049387	0.041266
EPB41L2.O43491.4	0.0327029	0.077732	0.420711	0.674145	0.147988	0.225424	0.656488	0.511997	-0.36395	0.063843	-5.70074	2.78E-08
SCN7A.Q01118	0.0267102	0.063475	0.420796	0.674243	-0.11184	0.169843	-0.6585	0.511169	0.006728	0.048514	0.138676	0.889881
SQSTM1.Q13501	0.0603192	0.143425	0.420562	0.674254	0.026215	0.344058	0.076193	0.939314	0.045557	0.102319	0.445245	0.656454
HM13.Q8TCT9	-0.075922	0.180536	-0.42054	0.674393	0.395679	0.457206	0.865428	0.387895	0.149482	0.13819	1.08171	0.280752
ING1.Q9UK53	0.0662692	0.15756	0.420597	0.674407	0.145456	0.439076	0.331278	0.740874	0.134601	0.131978	1.019874	0.309347
CAMK2B.Q13554.6	0.0482589	0.114808	0.420345	0.674413	-0.17469	0.288276	-0.60597	0.544978	0.229987	0.084808	2.711854	0.007064
PSMD11.O00231	-0.159189	0.37873	-0.42032	0.674428	-0.31007	0.973091	-0.31865	0.750207	0.238104	0.289209	0.823296	0.410973
BTBD17.A6NE02	0.0313453	0.074648	0.419908	0.674734	-0.22785	0.207012	-1.10067	0.271905	0.000818	0.062038	0.013178	0.989495
MLLT4.Q5TIG5	-0.075053	0.178734	-0.41992	0.674796	0.278269	0.467353	0.595416	0.552178	-0.14737	0.135062	-1.09115	0.276401
EHD4.Q9H223	0.0753807	0.179564	0.419799	0.674811	-0.28077	0.463999	-0.60512	0.545545	0.00847	0.138112	0.061329	0.951137
SVIP.Q8NHG7	-0.078299	0.186795	-0.41917	0.675269	0.333587	0.46711	0.714151	0.475671	-0.36766	0.137495	-2.67397	0.007893
DEGS1.O15121	0.0525608	0.125501	0.418808	0.675581	0.446853	0.31705	1.409406	0.159934	0.176339	0.097606	1.806637	0.071998

ABHD6.Q9BV23	0.0846034	0.202182	0.418451	0.675796	0.652771	0.544451	1.198953	0.231462	0.353099	0.161096	2.191851	0.029134
RAB6C.Q9H0N0	0.0187596	0.044854	0.418239	0.676014	0.070342	0.115732	0.607797	0.543938	-0.03312	0.033317	-0.99421	0.321192
IGHV3.15.A0A0B4J1V0	-0.017272	0.041309	-0.41812	0.676073	0.121979	0.102274	1.192669	0.234103	0.04834	0.030091	1.606481	0.109401
KANK2.Q63ZY3	0.0461225	0.110354	0.41795	0.676168	-0.07236	0.279658	-0.25874	0.796013	-0.03729	0.081377	-0.45822	0.647127
PPIL2.Q13356	-0.06063	0.145259	-0.41739	0.676633	0.360278	0.362615	0.993554	0.321471	0.393627	0.10716	3.673277	0.000297
NDUFS3.O75489	-0.073432	0.175977	-0.41728	0.676648	-0.21502	0.485789	-0.44262	0.658348	0.049439	0.144532	0.342065	0.732534
MAP4K4.O95819	0.0637817	0.152853	0.417274	0.676665	0.003182	0.388552	0.00819	0.993471	-0.30075	0.114745	-2.62102	0.009218
GFAP.K7ELP4	0.0164675	0.039511	0.416786	0.677024	-0.08718	0.094792	-0.91967	0.358508	0.014273	0.027892	0.511731	0.609228
AMOTL2.Q9Y2J4	-0.068767	0.164936	-0.41693	0.677063	-0.20631	0.443408	-0.46527	0.642339	-0.00327	0.129937	-0.02513	0.979978
TCAF1.Q9Y4C2	0.0797023	0.19129	0.416656	0.677107	0.392145	0.491318	0.798148	0.425396	0.137642	0.1461	0.942109	0.34687
GALNT9.J3KNN1	-0.069966	0.168034	-0.41638	0.677465	-0.02922	0.426757	-0.06847	0.94549	-0.09859	0.127619	-0.77256	0.44084
ATG4B.Q9Y4P1	-0.090739	0.218087	-0.41607	0.677538	0.07095	0.590529	0.120147	0.904444	0.427507	0.17399	2.457079	0.014555
DDX20.Q9UHI6	-0.060924	0.14642	-0.41609	0.677572	-0.33623	0.386995	-0.86882	0.385836	-0.04866	0.116395	-0.41809	0.676263
NONO.Q15233	0.0777108	0.186804	0.416002	0.677586	-0.01819	0.446467	-0.04074	0.967527	-0.36607	0.131179	-2.79065	0.005586
DPH2.Q9BQC3	-0.050421	0.121193	-0.41604	0.677608	-0.05516	0.344409	-0.16017	0.872884	-0.02302	0.103921	-0.22148	0.824911
PODXL2.Q9NZ53	0.0616121	0.148127	0.415941	0.677631	0.187256	0.346745	0.54004	0.589557	-0.22212	0.102425	-2.16856	0.030876
STAT1.P42224	-0.037857	0.091032	-0.41586	0.677688	-0.1489	0.227771	-0.65373	0.513771	0.024549	0.06779	0.362129	0.717502
RMDN1.Q96DB5	-0.064095	0.154126	-0.41586	0.677689	-0.36315	0.391219	-0.92826	0.353997	-0.13658	0.116284	-1.17451	0.241091
MEAF6.Q9HAF1	-0.050465	0.121417	-0.41563	0.677944	0.207855	0.336884	0.616993	0.537941	0.002297	0.097848	0.023478	0.981292
VPS4A.Q9UN37	0.1289913	0.310612	0.41528	0.678113	-0.08209	0.818698	-0.10026	0.9202	-0.10227	0.243483	-0.42002	0.674765
KDM8.Q8N371	0.0795341	0.191538	0.415238	0.678251	-0.40743	0.490016	-0.83147	0.406671	0.159181	0.149308	1.066121	0.287617
PARD6A.Q9NPB6.2	0.0627226	0.151127	0.415032	0.678339	0.642736	0.361969	1.775665	0.077024	-0.12476	0.110433	-1.12976	0.259679
CD2AP.Q9Y5K6	0.0684083	0.165281	0.41389	0.679142	0.305914	0.446602	0.684982	0.493906	-0.06549	0.130591	-0.5015	0.616402
ADCY3.O60266	0.0553637	0.133805	0.413764	0.679228	-0.3849	0.341451	-1.12724	0.260542	-0.05954	0.101003	-0.58947	0.555987
X0.P01762	-0.016162	0.039084	-0.41352	0.679426	0.05212	0.098878	0.527111	0.59854	-0.01266	0.030651	-0.41299	0.679937
SQRDL.Q9Y6N5	0.0478213	0.115745	0.413159	0.679666	-0.03348	0.29419	-0.11381	0.909466	0.042229	0.087485	0.4827	0.62965
TSC22D2.O75157	-0.095777	0.232127	-0.4126	0.680073	0.304566	0.588239	0.517759	0.604996	0.114839	0.174945	0.656432	0.512033
SLC35F1.Q5T1Q4	0.0359451	0.087129	0.412553	0.680164	-0.03711	0.212865	-0.17436	0.861731	0.042184	0.065618	0.642878	0.520915
TRIP11.Q15643	0.0889606	0.21575	0.412331	0.680272	0.436124	0.603051	0.723197	0.470104	0.092641	0.179471	0.516187	0.606092
VMP1.Q96GC9	-0.06918	0.167866	-0.41212	0.680465	-0.49481	0.460011	-1.07565	0.283088	0.189747	0.133825	1.417869	0.157436
SMN1.Q16637	0.0478813	0.116249	0.411884	0.680599	-0.42142	0.306593	-1.37454	0.170268	-0.15274	0.091071	-1.67713	0.094525
UBL5.Q9BZL1	0.0711337	0.172739	0.4118	0.680661	0.449414	0.434688	1.033878	0.301999	0.092249	0.129429	0.71274	0.476543
CTNBL1.Q8WYA6	-0.059022	0.143487	-0.41134	0.681009	0.226621	0.381528	0.593984	0.552983	0.037502	0.112922	0.332105	0.740048
SHISA4.Q96DD7	0.029671	0.072161	0.41118	0.681118	0.06636	0.184512	0.35965	0.719358	0.012501	0.055331	0.225927	0.82141

GRID1.Q9ULK0	0.1194602	0.290681	0.410966	0.681272	-0.70583	0.748053	-0.94355	0.346135	-0.14415	0.222701	-0.6473	0.517917
RAPGEF5.Q92565	-0.063488	0.154599	-0.41066	0.681516	0.085173	0.396374	0.214879	0.830021	0.276368	0.116837	2.36542	0.018704
RSBN1L.A0A087X239	0.0429468	0.104606	0.410559	0.681689	0.412575	0.262882	1.569428	0.118285	-0.09863	0.079468	-1.24117	0.216142
PPP2R5A.Q15172	-0.109561	0.267305	-0.40987	0.682074	0.038649	0.702084	0.055048	0.956135	-0.34388	0.207943	-1.6537	0.0992
PSMA5.P28066	-0.106215	0.259428	-0.40942	0.682406	0.264843	0.68084	0.388994	0.697548	0.177475	0.202336	0.87713	0.381095
PPP2R5E.Q16537	-0.104965	0.256434	-0.40932	0.682475	-0.19049	0.63323	-0.30082	0.763754	0.110722	0.188297	0.588019	0.556948
USF2.Q15853	0.047639	0.116456	0.409072	0.682701	0.456381	0.305591	1.493439	0.136573	0.076035	0.087057	0.873392	0.383281
CLIP1.P30622.2	-0.053663	0.131179	-0.40908	0.682702	-0.2846	0.329417	-0.86395	0.388453	-0.04256	0.101009	-0.42133	0.673879
LRP1.Q07954	0.1088222	0.266076	0.408989	0.682721	-0.33667	0.676657	-0.49756	0.61915	0.226701	0.200962	1.128078	0.260159
COPS7A.Q9UBW8	-0.161314	0.394609	-0.40879	0.682865	0.79435	0.989401	0.802859	0.422671	0.645815	0.292343	2.2091	0.027899
CLASP1.Q7Z460	0.1460399	0.357433	0.40858	0.683022	0.920432	0.94732	0.971617	0.331999	-0.43481	0.281157	-1.54651	0.123001
DNAJA2.O60884	-0.10638	0.260407	-0.40851	0.683071	0.470215	0.635625	0.739768	0.46	0.231566	0.188797	1.226537	0.220927
NT5C3B.Q969T7	0.0638693	0.156524	0.408047	0.683412	-0.50417	0.419037	-1.20317	0.229828	-0.08819	0.124846	-0.70639	0.480474
A2M.P01023	0.0288673	0.070752	0.408007	0.683441	-0.01925	0.171105	-0.1125	0.910497	0.15596	0.050125	3.111406	0.002035
C20orf24.Q9BUV8	-0.07332	0.179726	-0.40795	0.68353	-0.0596	0.545066	-0.10935	0.913018	0.261128	0.160522	1.626743	0.105098
SRCIN1.Q9C0H9.5	0.1596369	0.391418	0.407843	0.683562	0.505348	0.970155	0.520894	0.602813	-0.09336	0.288682	-0.32339	0.746616
TGFBR1.P36897	-0.029176	0.071589	-0.40755	0.683856	-0.15411	0.200503	-0.76863	0.442969	-0.00729	0.058317	-0.12496	0.900675
MAP2K5.Q13163	-0.02944	0.072264	-0.4074	0.683902	0.316493	0.177904	1.77901	0.076275	0.038825	0.053025	0.732198	0.464633
DNAJB4.Q9UDY4	-0.080766	0.198298	-0.4073	0.683962	0.231114	0.533614	0.433111	0.665235	-0.03395	0.158777	-0.21385	0.830808
CCT8.P50990	-0.124145	0.304897	-0.40717	0.684055	0.011787	0.774481	0.015219	0.987867	0.607986	0.227792	2.66904	0.008007
CNTNAP3.Q9BZ76	-0.051157	0.125739	-0.40685	0.684339	0.132113	0.32221	0.410022	0.682148	0.019531	0.096785	0.201793	0.840246
ELOF1.P60002	-0.062486	0.153602	-0.40681	0.684434	0.090009	0.392951	0.229058	0.819069	-0.10998	0.117869	-0.9331	0.351945
VPS41.P49754	0.1274611	0.313495	0.406581	0.684488	-0.89589	0.782585	-1.14479	0.25318	0.807308	0.228746	3.52927	0.00048
MAP4K5.A0A0A0MQR1	-0.069057	0.169889	-0.40648	0.684578	0.329811	0.447912	0.736331	0.462142	-0.02016	0.133242	-0.15129	0.879851
RIF1.Q5UIP0	0.0541005	0.133233	0.406059	0.684956	0.455883	0.362442	1.257812	0.209857	0.002939	0.109508	0.026842	0.978612
UQCRH.P07919	-0.067927	0.167388	-0.4058	0.685059	0.663739	0.457825	1.449767	0.148134	0.069338	0.136599	0.507606	0.61209
CABLES1.Q8TDN4	-0.086872	0.214101	-0.40575	0.685097	-0.37483	0.525636	-0.7131	0.476323	0.170706	0.156195	1.092902	0.275285
TP53BP2.Q13625	-0.051336	0.126705	-0.40516	0.68554	-0.07492	0.337548	-0.22194	0.824513	-0.29785	0.09834	-3.02877	0.002675
MAP7.Q14244	0.0302437	0.074635	0.405224	0.685543	0.218505	0.270527	0.807701	0.420083	-0.39452	0.074683	-5.28256	2.91E-07
CHID1.Q9BWS9	0.0955902	0.235975	0.405085	0.685587	-0.52091	0.605458	-0.86036	0.390258	0.109587	0.18022	0.608073	0.543584
NRG3.P56975	0.0696787	0.172021	0.40506	0.685717	-0.13549	0.444479	-0.30483	0.760812	0.118908	0.124524	0.954905	0.340784
RPP14.P86397	-0.048594	0.119968	-0.40506	0.685793	0.076809	0.291196	0.263772	0.792349	0.00663	0.078901	0.084034	0.933151
DAPK1.P53355	0.0854423	0.211158	0.404636	0.685917	0.054691	0.562449	0.097236	0.922601	0.07729	0.167264	0.462083	0.644346
PTPMT1.Q8WUK0	-0.066348	0.164062	-0.40441	0.686083	-0.27446	0.417034	-0.65812	0.510949	-0.08694	0.124049	-0.70088	0.483903

KCNK1.O00180	0.0426194	0.105393	0.404386	0.686179	-0.52943	0.273579	-1.93519	0.054232	0.086157	0.085656	1.005849	0.315578
PCBP2.Q15366.6	-0.076142	0.188527	-0.40388	0.686473	0.461678	0.467487	0.987575	0.324131	-0.05797	0.139249	-0.41633	0.677457
HAGHL.Q6PII5.2	0.0646979	0.160372	0.403424	0.686807	-0.033	0.420881	-0.0784	0.937561	0.251714	0.124387	2.023632	0.043866
GMDS.O60547	0.1249898	0.309865	0.403368	0.686848	-0.55068	0.8183	-0.67296	0.501475	0.039531	0.243597	0.162279	0.871192
SRP54.P61011	-0.116494	0.288818	-0.40335	0.686863	-0.2382	0.751046	-0.31716	0.751339	0.519475	0.221503	2.345232	0.019646
MAPRE2.Q15555.3	-0.116586	0.289219	-0.4031	0.687042	-0.45436	0.709594	-0.64031	0.522442	-0.04437	0.211216	-0.21008	0.833746
RAC2.P15153	0.0373783	0.092719	0.403134	0.687093	-0.06625	0.225598	-0.29364	0.769315	0.060621	0.065951	0.91918	0.359032
RBMX.P38159	0.0493399	0.122453	0.402929	0.687171	0.025198	0.323329	0.077934	0.937931	-0.54638	0.091042	-6.00135	5.46E-09
FAM110B.Q8TC76	-0.044696	0.110936	-0.4029	0.687203	-0.49329	0.281777	-1.75064	0.081043	-0.09631	0.083097	-1.15906	0.247364
RB1.P06400	-0.062654	0.155594	-0.40268	0.687434	-0.11452	0.382555	-0.29936	0.764948	0.139124	0.1162	1.197286	0.232472
NDUFA4.O00483	0.0629179	0.156301	0.402543	0.687455	-0.18912	0.412884	-0.45804	0.647245	-0.04264	0.122844	-0.3471	0.728751
HSD17B10.Q99714	0.0977523	0.242876	0.402478	0.687503	-0.27207	0.626141	-0.43451	0.664217	0.014584	0.186321	0.078276	0.937659
DSP.P15924	0.0193805	0.048205	0.402044	0.68783	-0.07991	0.118271	-0.67566	0.499783	0.016956	0.035716	0.474753	0.635312
ARSA.P15289	0.0425731	0.105925	0.40192	0.687924	-0.05097	0.259276	-0.19658	0.844296	0.06191	0.076627	0.807948	0.419778
CDR2L.Q86X02	0.0443599	0.110375	0.401902	0.687927	0.329143	0.282764	1.16402	0.245311	0.089896	0.084146	1.068334	0.286201
SEMA6B.Q9H3T3	0.0685351	0.170551	0.401846	0.68805	-0.20307	0.410003	-0.49528	0.620902	0.052722	0.121466	0.434049	0.664684
CANX.P27824	0.0890944	0.221797	0.401693	0.68808	-0.33173	0.592709	-0.55969	0.576095	0.310483	0.175526	1.768872	0.077898
JPH4.A0A087WWT0	-0.056436	0.140685	-0.40115	0.688481	0.148002	0.372616	0.397198	0.691499	-0.16534	0.111461	-1.4834	0.139
OARD1.Q9Y530	0.0565152	0.140926	0.401028	0.688601	0.150471	0.337619	0.445684	0.656191	-0.1463	0.10271	-1.42444	0.1555
X0.B4E1Z4	0.0242282	0.060447	0.400818	0.688724	0.098407	0.144865	0.6793	0.497454	0.094754	0.04279	2.2144	0.027528
CSMD2.A0A087XOK4	-0.102847	0.256743	-0.40058	0.688896	1.623773	0.64294	2.525546	0.01205	0.063086	0.193188	0.326552	0.744227
PGS1.Q32NB8	0.0770776	0.192522	0.400358	0.689063	0.336336	0.468562	0.717804	0.473419	-0.01221	0.139503	-0.08755	0.930287
KIAA0319L.Q8IZA0	0.1033151	0.258071	0.400336	0.689079	-0.09704	0.669956	-0.14485	0.884924	0.168886	0.199076	0.848352	0.396897
MAVS.Q7Z434	-0.062642	0.156548	-0.40015	0.689216	-0.02098	0.41455	-0.05062	0.959664	-0.50545	0.119934	-4.21443	3.29E-05
TMEM175.Q9BSA9	0.0574577	0.143589	0.400155	0.689247	-0.19235	0.370776	-0.51877	0.604365	-0.00082	0.10706	-0.00764	0.99391
CLUH.I3L2B0	0.042183	0.105558	0.399621	0.689614	0.161212	0.263999	0.610654	0.541904	-0.27707	0.075342	-3.6775	0.00028
TMEFF2.Q9UIK5	0.0385232	0.096416	0.399553	0.689655	-0.41316	0.228652	-1.80695	0.071739	0.029213	0.068357	0.427365	0.66941
LYPLA1.O75608	-0.098293	0.246017	-0.39954	0.689666	0.291376	0.657611	0.443083	0.658015	0.173184	0.195442	0.886113	0.376244
CADPS.F1T0E5	0.0278627	0.069738	0.399537	0.689816	0.099114	0.204021	0.485805	0.62775	-0.00935	0.060377	-0.15493	0.877063
TMED1.Q13445	0.0678044	0.169927	0.399021	0.69007	0.181085	0.405532	0.446536	0.655566	0.130697	0.12267	1.065436	0.287623
GABRA4.P48169	0.0869654	0.218021	0.398886	0.690146	-0.81546	0.585595	-1.39254	0.164757	-0.4988	0.172436	-2.89268	0.00409
AVL9.Q8NBF6	-0.082316	0.206636	-0.39836	0.690532	0.348412	0.510816	0.68207	0.495704	-0.16217	0.151793	-1.06836	0.286189
SPCS3.P61009	0.0682142	0.171255	0.39832	0.690563	0.132594	0.440305	0.30114	0.763509	-0.02349	0.130995	-0.17935	0.857776
PLA2G12A.A0A0C4DGC6	0.0428887	0.107701	0.398222	0.690696	-0.01093	0.300349	-0.03639	0.971006	0.160586	0.090192	1.780496	0.076287

KRAS.P01116.2	-0.046008	0.115574	-0.39808	0.690744	0.36374	0.300917	1.208772	0.227687	-0.02504	0.089923	-0.27844	0.780861
ABCA7.Q8IZY2	-0.062272	0.156517	-0.39786	0.690979	-0.61698	0.425798	-1.44899	0.14875	0.071345	0.127627	0.559016	0.576714
SPCS1.Q9Y6A9	0.0670182	0.168573	0.397561	0.691136	-0.00953	0.457759	-0.02082	0.983405	0.119089	0.137165	0.868216	0.385999
MON1B.Q7L1V2	0.0856454	0.21545	0.397518	0.691159	-0.47296	0.561882	-0.84174	0.400603	-0.00488	0.166148	-0.02936	0.976594
RPL6.Q02878	0.0770958	0.19417	0.397054	0.691496	0.230803	0.485319	0.475571	0.634715	-0.04249	0.144406	-0.29427	0.76875
ITGA1.P56199	0.0570512	0.143888	0.396496	0.691907	-0.12219	0.367047	-0.3329	0.739431	0.04133	0.109184	0.378533	0.705294
NOSTRIN.Q8IVI9	0.0570136	0.14381	0.396451	0.69204	-0.11479	0.377419	-0.30416	0.761334	-0.02006	0.115079	-0.17431	0.861805
PEA15.B1AKZ5	-0.012569	0.03171	-0.39639	0.692143	0.033659	0.08858	0.379982	0.704527	0.012867	0.026578	0.484123	0.629044
SLC25A32.Q9H2D1	-0.067737	0.171129	-0.39582	0.692414	-0.06564	0.463474	-0.14163	0.887474	0.011042	0.133822	0.082513	0.934297
SEC13.A0A0C4DFR6	0.161222	0.407496	0.39564	0.692538	-1.1482	1.024943	-1.12026	0.26347	-0.22273	0.305257	-0.72964	0.466162
CUL2.Q13617	-0.114918	0.290519	-0.39556	0.692596	0.467255	0.72051	0.648505	0.517138	0.065989	0.214452	0.30771	0.75851
MEST.Q5EB52	-0.047973	0.121382	-0.39523	0.692879	0.255634	0.300994	0.849301	0.396501	-0.09846	0.09363	-1.05163	0.293955
ANO3.E9PQ79	0.049206	0.124546	0.395081	0.69296	0.04082	0.302257	0.13505	0.892665	-0.04028	0.089697	-0.44912	0.653677
SEC31A.D6REX3	-0.159904	0.404847	-0.39497	0.693028	-1.57243	1.069574	-1.47014	0.142538	-0.5164	0.317937	-1.62421	0.105347
SLC18B1.Q6NT16	-0.032835	0.083161	-0.39483	0.693138	0.002699	0.228793	0.011796	0.990596	0.081899	0.068671	1.192615	0.233962
MPC1.A0A087WVZ0	-0.055135	0.139659	-0.39478	0.693171	-0.37358	0.37397	-0.99896	0.318604	0.116937	0.111482	1.048938	0.295037
SLC39A14.Q15043	-0.053335	0.135186	-0.39453	0.693357	-0.1943	0.336184	-0.57796	0.563714	0.276246	0.099708	2.770558	0.005939
TRIQK.E5RGJ1	-0.063495	0.16105	-0.39426	0.693589	-0.79496	0.399457	-1.99009	0.047601	-0.16312	0.115316	-1.41456	0.158363
NUDT11.Q96G61	-0.08923	0.226382	-0.39416	0.693632	-0.23698	0.547372	-0.43294	0.665362	-0.19859	0.162492	-1.22216	0.222575
SNX25.Q9H3E2	0.0689189	0.174863	0.394131	0.693657	-0.82831	0.439749	-1.8836	0.060583	0.053712	0.130997	0.410024	0.68208
ATP2A3.Q93084	0.0127677	0.032395	0.394121	0.693728	-0.03677	0.082397	-0.4462	0.65588	0.131395	0.022061	5.955855	9.76E-09
NUDT12.Q9BQG2	0.0520522	0.132163	0.393849	0.693859	-0.09723	0.353149	-0.27531	0.783262	-0.04857	0.105032	-0.46243	0.644096
MLLT4.P55196.2	0.0430651	0.109686	0.392622	0.694816	0.876578	0.296421	2.957204	0.003424	-0.09503	0.086028	-1.10467	0.270443
LCP1.P13796	0.034503	0.0879	0.392527	0.694835	0.044443	0.226992	0.195792	0.844901	0.09959	0.067293	1.479943	0.139904
APEH.P13798	0.0857977	0.218852	0.392036	0.695198	-0.79774	0.545839	-1.46149	0.144895	0.515832	0.16028	3.218314	0.001426
MAP4K4.O95819.5	-0.048514	0.123768	-0.39197	0.695266	0.033858	0.334656	0.101174	0.919488	-0.15513	0.096935	-1.60037	0.110686
INPP4B.O15327	0.1116499	0.2849	0.391891	0.695321	1.020733	0.689189	1.481065	0.139702	0.165025	0.203453	0.811119	0.417979
CD53.P19397	-0.031881	0.081372	-0.3918	0.695479	0.205841	0.220927	0.931714	0.352648	0.042315	0.063074	0.670885	0.503096
TWF1.F8VS81	0.030658	0.078302	0.391534	0.695573	-0.0284	0.206386	-0.13759	0.890655	-0.27855	0.059612	-4.67267	4.48E-06
SPTBN1.Q01082.2	0.0200891	0.051322	0.391435	0.695692	0.137518	0.138114	0.99569	0.320425	-0.1293	0.039869	-3.24306	0.001354
RPL7A.P62424	0.1090575	0.278865	0.391077	0.695906	-0.71103	0.705926	-1.00723	0.314609	0.241377	0.209897	1.149981	0.251038
COX7A2.P14406	0.0281843	0.072109	0.390857	0.696068	-0.06005	0.205819	-0.29175	0.770676	0.048712	0.061173	0.796293	0.426471
FBLN7.Q53RD9	0.0351943	0.090043	0.39086	0.69607	0.160014	0.230824	0.693231	0.488701	-0.02935	0.068208	-0.43033	0.667264
RALGPS1.Q5JS13.7	0.0635155	0.162506	0.390851	0.696078	-0.42467	0.39581	-1.07292	0.284166	-0.08566	0.117372	-0.72979	0.466085

JMJD7.P0C870	0.0475356	0.121649	0.39076	0.69615	0.249895	0.330556	0.755982	0.450269	0.126566	0.097611	1.296647	0.195776
RABL3.Q5HYI8	-0.082739	0.21182	-0.39061	0.696251	-0.11641	0.554476	-0.20995	0.833844	-0.44641	0.162998	-2.73876	0.006524
PECAM1.A0A075B738	0.0580906	0.148784	0.390436	0.696379	-0.06309	0.376779	-0.16744	0.867129	0.125441	0.111863	1.121377	0.262995
SERPIN8.P50452	-0.046116	0.11813	-0.39038	0.696444	-0.25721	0.299794	-0.85796	0.391677	0.069272	0.088163	0.785728	0.432716
AGL.P35573	-0.061638	0.15794	-0.39026	0.696509	-0.13307	0.417894	-0.31844	0.750367	0.093577	0.124223	0.753302	0.45184
ZW10.O43264	-0.106545	0.273216	-0.38997	0.696727	1.749081	0.724731	2.413422	0.016383	0.092949	0.217547	0.427262	0.669485
SCRN3.Q0VDG4	-0.049747	0.127594	-0.38989	0.696785	-0.33217	0.323712	-1.02612	0.305636	0.143334	0.096118	1.491232	0.136918
PCP4.P48539	-0.035738	0.091716	-0.38966	0.696952	0.228468	0.232073	0.984469	0.325653	-0.19366	0.068265	-2.83695	0.004855
EIF1AD.Q8N9N8	0.0684122	0.175824	0.389094	0.697371	0.502639	0.432778	1.161425	0.246363	0.278918	0.128047	2.178241	0.030141
ZFP36L1.Q07352	-0.036408	0.093547	-0.38919	0.697397	0.174079	0.25443	0.684189	0.49466	0.143221	0.076492	1.872362	0.062638
KCNJ4.P48050	-0.06035	0.155131	-0.38902	0.697423	-0.10641	0.405946	-0.26213	0.793393	-0.09798	0.120647	-0.81213	0.417342
CYHR1.E9PJD7	0.0518296	0.133363	0.388635	0.697747	-0.62012	0.369109	-1.68004	0.094198	-0.04904	0.106901	-0.45875	0.646811
PUM1.Q5T1Z8	0.1182015	0.304244	0.388509	0.697804	-1.2427	0.790052	-1.57293	0.116754	-0.16131	0.235784	-0.68412	0.49441
RAB3B.P20337	-0.036639	0.094338	-0.38838	0.697902	-0.02985	0.242166	-0.12325	0.901987	-0.07393	0.07192	-1.02802	0.304744
BCAR3.O75815	-0.050604	0.130366	-0.38817	0.698055	-0.37976	0.337876	-1.12397	0.261895	0.180855	0.100191	1.805098	0.07203
CAMSAP2.Q08AD1	-0.12211	0.314693	-0.38803	0.698158	0.357878	0.821432	0.435676	0.663375	-1.09583	0.23638	-4.63589	5.24E-06
CLSTN1.O94985	0.0760741	0.19614	0.387857	0.698286	-0.27272	0.49822	-0.54739	0.584505	0.112391	0.148146	0.758653	0.448636
RAC1.P63000	-0.062375	0.160922	-0.38761	0.698467	-0.12727	0.40373	-0.31524	0.752788	0.069686	0.120057	0.580441	0.562039
ITGA9.Q13797	0.046331	0.119583	0.387438	0.698723	0.274207	0.352326	0.778277	0.437445	-0.02582	0.10482	-0.24635	0.805697
P2RY1.P47900	0.0364351	0.094074	0.387304	0.698748	-0.24957	0.263102	-0.94856	0.343825	-0.05606	0.078635	-0.71288	0.476629
LHX4.AS1.Q9BR61	0.0980533	0.253392	0.386964	0.698952	-0.72266	0.647247	-1.11652	0.265091	0.429679	0.190529	2.255183	0.02484
CCT7.Q99832	-0.136476	0.352781	-0.38686	0.699025	-0.58403	0.912594	-0.63997	0.522663	0.988254	0.265798	3.718063	0.000238
RRS1.Q15050	-0.051405	0.132897	-0.3868	0.699089	-0.39375	0.372707	-1.05645	0.291695	-0.27475	0.110197	-2.49322	0.013252
RAP1A.P62834	0.0569222	0.147196	0.386709	0.699135	0.030169	0.379923	0.079408	0.936759	0.067511	0.112956	0.597673	0.550495
AGAP1.H7C211	-0.066508	0.171943	-0.3868	0.699163	-0.40181	0.505566	-0.79478	0.427741	-0.24566	0.13711	-1.79168	0.074784
SERPINC1.P01008	0.0234186	0.060603	0.386428	0.699343	-0.1087	0.146859	-0.74015	0.459768	0.084505	0.043462	1.94431	0.052762
APLNR.P35414	0.0312072	0.080858	0.385952	0.699706	0.109949	0.225072	0.488507	0.625563	0.085654	0.065887	1.300025	0.194632
KAT5.Q92993	-0.03659	0.094835	-0.38583	0.699918	-0.04019	0.253192	-0.15873	0.874067	-0.03946	0.07306	-0.54005	0.589851
PTPN13.Q12923	0.0704792	0.18282	0.385512	0.700051	-0.08307	0.506024	-0.16417	0.869727	-0.03933	0.14924	-0.26356	0.79233
ZMYM3.Q14202	0.059846	0.15537	0.385183	0.700278	-0.25116	0.382431	-0.65675	0.511868	-0.02317	0.114803	-0.20181	0.840209
LMCD1.Q9NZU5	0.0705432	0.18322	0.385018	0.700392	0.410097	0.458206	0.895004	0.371497	0.082552	0.136648	0.60412	0.546217
DIRAS2.Q96HU8	0.0651856	0.169386	0.384835	0.700522	0.290283	0.412838	0.703141	0.482496	0.034342	0.122895	0.279444	0.78009
STRN4.Q9NRL3	-0.118675	0.3087	-0.38443	0.700819	-0.55151	0.80447	-0.68556	0.493502	-0.25455	0.23906	-1.06479	0.287799
GABRB2.P47870.1	-0.029533	0.07682	-0.38445	0.700839	0.185255	0.208138	0.890059	0.37427	-0.04445	0.062305	-0.71336	0.476271

GDAP2.Q9NXN4	-0.101413	0.263888	-0.38431	0.700914	0.430585	0.668639	0.643973	0.520069	0.200823	0.198714	1.01061	0.312991
POP1.Q99575	0.0544343	0.141755	0.384003	0.701158	0.067832	0.384576	0.176381	0.860122	0.181055	0.115313	1.570127	0.117515
NEO1.Q92859	0.1007131	0.262434	0.383766	0.701314	0.441959	0.650218	0.679709	0.497196	-0.43925	0.191958	-2.28825	0.022796
LRP4.O75096	-0.056699	0.14782	-0.38357	0.701459	0.126505	0.405061	0.312312	0.755014	0.121786	0.120319	1.012196	0.312234
CCDC85C.A6NKD9	0.0542258	0.141401	0.383489	0.701539	0.146889	0.353644	0.415358	0.678208	-0.1978	0.102426	-1.93112	0.054511
PGP.A6NDG6	0.0862955	0.225149	0.383282	0.701672	-0.33702	0.547673	-0.61537	0.538765	0.523257	0.160291	3.264426	0.001219
KCTD9.Q7L273	0.0499368	0.130252	0.383387	0.701678	0.302201	0.399743	0.755987	0.450521	0.212782	0.120997	1.758567	0.080136
TMEM30A.Q9NV96	0.0601798	0.157325	0.382519	0.702238	-0.43278	0.414186	-1.04488	0.296891	0.222002	0.122784	1.808068	0.071565
CNN1.P51911	-0.011666	0.030537	-0.38203	0.702607	0.024511	0.073644	0.332832	0.739493	-0.02097	0.021786	-0.96239	0.336624
RRAS.P10301	-0.081595	0.213901	-0.38146	0.703023	0.224095	0.543168	0.412571	0.680206	-0.21053	0.161184	-1.30616	0.192465
UBE2D1.P51668	0.0484238	0.126982	0.381345	0.703112	-0.28029	0.305877	-0.91634	0.360225	0.023805	0.090457	0.263166	0.792603
SNX16.P57768	-0.061881	0.162294	-0.38129	0.703159	-0.1541	0.527458	-0.29216	0.770376	0.004802	0.15629	0.030724	0.975511
ALDH1L1.O75891	0.0439271	0.115229	0.381215	0.703204	-0.20934	0.306009	-0.68409	0.494428	-0.01923	0.091094	-0.21114	0.83292
PRRT2.Q7Z6L0	-0.073589	0.193109	-0.38107	0.70331	0.133174	0.456642	0.291638	0.770759	0.015072	0.135859	0.110942	0.911734
CNBP.P62633	0.0281756	0.073955	0.380983	0.703377	-0.12133	0.205251	-0.59111	0.55488	-0.20536	0.059969	-3.42447	0.000699
C12orf73.Q69YU5	0.05789	0.152075	0.380667	0.703652	-0.53167	0.39265	-1.35406	0.176884	-0.48947	0.118594	-4.12724	4.94E-05
C11orf87.Q6NUJ2	-0.050597	0.13292	-0.38065	0.703753	0.684021	0.387189	1.766634	0.079138	-0.02971	0.118034	-0.25173	0.801563
ARMC10.Q8N2F6	0.0766073	0.201447	0.380286	0.703894	-0.54295	0.50804	-1.06871	0.286032	0.09392	0.151317	0.620681	0.535266
SERPINA1.P01009	-0.015068	0.039707	-0.37949	0.704482	0.153127	0.09892	1.547991	0.122645	0.012479	0.029532	0.422545	0.67292
PEX26.A0A087X0L8	-0.055963	0.147457	-0.37952	0.704551	0.164838	0.425718	0.3872	0.699026	-0.08938	0.13044	-0.68519	0.494027
MRPS21.P82921	-0.036663	0.09663	-0.37942	0.704567	0.451897	0.231082	1.955573	0.051612	-0.03819	0.067792	-0.56332	0.573713
CUX1.Q13948	-0.052219	0.137655	-0.37935	0.704666	0.037949	0.355386	0.106782	0.915061	-0.06745	0.106503	-0.63329	0.527214
PTPN11.Q06124.2	-0.121833	0.321996	-0.37837	0.705316	-0.06126	0.84596	-0.07241	0.942319	-0.01464	0.251659	-0.05817	0.953654
PPIG.Q13427	0.034915	0.092313	0.378227	0.705422	0.166455	0.230963	0.720702	0.471636	-0.13892	0.068311	-2.03369	0.042834
NIPBL.Q6KC79	0.0506693	0.13398	0.378185	0.705478	0.118637	0.395985	0.2996	0.764713	0.119433	0.117253	1.018591	0.309312
TRIP4.Q15650	0.0582983	0.15428	0.377873	0.705704	1.223116	0.42364	2.887162	0.004193	0.034622	0.125362	0.276179	0.782616
FXYD7.K7EKU3	0.0374792	0.099266	0.377564	0.705913	0.340946	0.287057	1.187728	0.23585	-0.00191	0.085588	-0.02228	0.982241
TMEM205.Q6UW68	0.0630134	0.166913	0.377522	0.705945	-0.3666	0.420632	-0.87155	0.384126	0.000307	0.125284	0.002453	0.998044
NUDT18.Q6ZVK8	-0.064305	0.170397	-0.37738	0.706047	-0.41395	0.415732	-0.99572	0.320162	0.08883	0.123768	0.717716	0.473473
RNF2.Q99496	0.0582985	0.154498	0.377343	0.706126	-0.12245	0.387562	-0.31595	0.752319	-0.02145	0.108529	-0.19766	0.843479
PAPSS2.O95340	-0.052867	0.140182	-0.37713	0.706249	0.05798	0.366697	0.158114	0.87448	-0.12111	0.1066	-1.13614	0.256862
DDAH1.O94760	-0.095258	0.252611	-0.3771	0.706262	0.033814	0.633073	0.053413	0.957437	0.169093	0.188084	0.899029	0.369335
RBBP6.Q7Z6E9	0.0554301	0.147255	0.376422	0.706769	0.096827	0.381709	0.253665	0.79993	-0.06438	0.115176	-0.55899	0.57659
ALDOC.P09972	0.080941	0.21506	0.376365	0.706804	-0.03654	0.52722	-0.06932	0.944783	0.047039	0.156817	0.299964	0.764406

MYL6.G3V1V0	-0.066866	0.177695	-0.3763	0.706856	0.013303	0.451219	0.029482	0.976499	0.095904	0.134119	0.715064	0.475108
AS3MT.Q9HBK9	0.0345411	0.091841	0.376097	0.707003	0.048448	0.224076	0.216213	0.828964	-0.01498	0.066658	-0.22476	0.822316
FSTL4.Q6MZW2	0.0664774	0.176773	0.376061	0.707078	0.337576	0.475674	0.70968	0.478595	0.031123	0.13558	0.229555	0.818634
TECPR2.O15040	0.1033182	0.274828	0.375937	0.707122	-1.16811	0.737268	-1.58438	0.114127	-0.54986	0.217985	-2.52246	0.012154
CIAPIN1.Q6FI81	-0.118871	0.316214	-0.37592	0.707134	0.119104	0.808328	0.147346	0.882955	0.196744	0.240212	0.819044	0.41339
ITGB1BP1.O14713	-0.039291	0.104512	-0.37594	0.707156	-0.32517	0.278383	-1.16809	0.243894	0.022266	0.086673	0.256902	0.797467
AGAP1.E7EUN2	0.1244247	0.331072	0.375824	0.707206	-0.76701	0.832764	-0.92104	0.357745	0.135427	0.247952	0.546183	0.585333
ORM1.P02763	-0.01368	0.036409	-0.37574	0.707268	0.103838	0.091529	1.134482	0.257469	0.005782	0.027283	0.211934	0.832298
TNS2.Q63HR2	-0.069488	0.184943	-0.37573	0.707279	-0.01946	0.463115	-0.04202	0.966507	-0.12329	0.137591	-0.89606	0.370915
RNF149.Q8NC42	0.0387808	0.103209	0.375751	0.707289	0.052546	0.282291	0.186141	0.852479	0.205202	0.085873	2.389603	0.017577
PKM.P14618	0.0947029	0.252154	0.375576	0.70739	0.544726	0.638051	0.853733	0.393912	0.431146	0.188448	2.287881	0.022817
LACE1.Q8WV93	-0.072314	0.192569	-0.37552	0.70743	0.536616	0.521355	1.029271	0.304155	0.058114	0.155324	0.37415	0.708549
SCARB1.B7ZKQ9	0.06132	0.163293	0.375522	0.707449	-0.95582	0.474202	-2.01565	0.044816	0.205254	0.142649	1.438875	0.151331
MPDU1.J3KT75	-0.019349	0.051524	-0.37554	0.707479	0.015705	0.130391	0.120444	0.904242	0.014827	0.037742	0.392853	0.694808
IRF9.Q00978	-0.046182	0.123085	-0.3752	0.707717	-0.18379	0.330951	-0.55535	0.579193	0.137497	0.09632	1.427506	0.154784
RPS15A.P62244	-0.080492	0.21468	-0.37494	0.707871	-0.59391	0.563904	-1.05321	0.293106	-0.03409	0.168299	-0.20256	0.83962
MB21D2.Q8IYB1	-0.073715	0.196658	-0.37484	0.707939	-0.53548	0.491224	-1.0901	0.276514	0.007747	0.14641	0.052915	0.957833
ANXA6.E5RK69	0.0437726	0.117008	0.374098	0.708491	0.339383	0.311349	1.090039	0.276556	0.081856	0.092892	0.881198	0.378905
INTS8.Q75QN2	0.0527467	0.14097	0.37417	0.708518	0.640419	0.34822	1.839119	0.067373	-0.03661	0.111321	-0.32886	0.742605
DAGLB.Q8NCG7	0.051769	0.13844	0.373946	0.708602	0.026759	0.350235	0.076402	0.939149	0.286922	0.102907	2.788162	0.005628
KIAA0100.Q14667	-0.090156	0.241243	-0.37372	0.708773	0.109659	0.606108	0.180923	0.856547	0.035472	0.180305	0.196734	0.844164
RCAN2.Q14206	-0.050038	0.133918	-0.37365	0.708823	-0.42824	0.362337	-1.18189	0.238157	0.142963	0.107726	1.327103	0.185451
MTG2.Q9H4K7	0.0579269	0.154987	0.373752	0.708827	0.586485	0.381944	1.535524	0.126125	-0.12359	0.119127	-1.03748	0.300677
HCLS1.P14317	-0.040345	0.107979	-0.37364	0.708832	0.22746	0.283252	0.80303	0.422572	-0.05242	0.084298	-0.62189	0.534474
UCHL1.P09936	0.0596399	0.159698	0.373454	0.708968	0.466783	0.398483	1.1714	0.242338	-0.03719	0.118785	-0.31312	0.754399
CYCS.C9JFR7	-0.054988	0.147259	-0.37341	0.709001	0.171661	0.380784	0.450811	0.652441	-0.05496	0.113271	-0.48521	0.627872
FAM126B.Q8IXS8	-0.107102	0.286881	-0.37333	0.709056	-0.66141	0.743666	-0.88939	0.374485	-0.13635	0.221374	-0.61593	0.538391
MTMR1.F8WA39	0.1090206	0.292058	0.373283	0.709094	-0.518	0.749279	-0.69133	0.489874	0.453308	0.221578	2.045815	0.041618
SOD3.P08294	0.0379224	0.101663	0.373022	0.709289	-0.30253	0.259188	-1.16721	0.244021	-0.04047	0.077239	-0.52396	0.600682
SUB1.P53999	-0.050933	0.136608	-0.37284	0.709423	-0.15882	0.340803	-0.46602	0.641526	0.129049	0.101153	1.275781	0.202988
ATAD1.Q8NBU5	-0.075832	0.203443	-0.37274	0.709497	0.152488	0.529046	0.288232	0.773362	-0.45165	0.155299	-2.90825	0.003897
PRMT1.E9PKG1	0.1181978	0.317701	0.372041	0.710018	0.301735	0.812895	0.371186	0.710753	0.447567	0.240536	1.860708	0.063732
FHOD3.Q2V2M9.4	0.0254276	0.068456	0.371443	0.710507	0.108732	0.173312	0.627375	0.530998	0.042321	0.051045	0.829086	0.407863
ARHGEF12.Q9NZN5	0.162849	0.438722	0.37119	0.710652	1.239973	1.117163	1.109931	0.267889	-5.26E-05	0.332996	-0.00016	0.999874

FAM160B2.Q86V87	-0.039143	0.105673	-0.37041	0.711231	-0.2985	0.269575	-1.10731	0.269019	-0.04417	0.080313	-0.54998	0.582729
ATP1B3.P54709	0.0458131	0.123695	0.370371	0.711262	0.046914	0.312323	0.150209	0.880697	0.188793	0.092293	2.045576	0.041642
RPS5.M0R0F0	0.0725356	0.195978	0.370121	0.711447	-0.55748	0.506383	-1.10091	0.271789	-0.01431	0.150932	-0.09479	0.924543
MAPK12.P53778	-0.05659	0.152925	-0.37005	0.711527	0.089463	0.441071	0.20283	0.839427	-0.03785	0.127899	-0.29595	0.767505
ANKRD45.Q5TZF3	-0.054215	0.146575	-0.36988	0.711722	0.248757	0.343008	0.725222	0.469199	0.191221	0.102002	1.874678	0.062356
TBCC.Q15814	0.1070257	0.289521	0.369665	0.711787	0.585113	0.7015	0.834088	0.404873	0.023257	0.208914	0.111322	0.911433
ADCY6.O43306	-0.063284	0.171498	-0.36901	0.712328	-0.00451	0.42726	-0.01056	0.991581	0.17501	0.124907	1.401119	0.162515
PNKD.Q8N490	0.0611657	0.165809	0.368893	0.712362	-0.21193	0.420943	-0.50347	0.614995	-0.2348	0.124562	-1.88496	0.06037
AGPAT3.Q9NRZ7	-0.100899	0.273781	-0.36854	0.712627	-0.70768	0.725508	-0.97543	0.330108	-0.22287	0.215786	-1.03283	0.302487
TANK.Q92844	0.058162	0.157975	0.368173	0.712921	-0.03968	0.401753	-0.09876	0.921401	-0.02039	0.117351	-0.17377	0.862176
FAM102A.Q5T9C2	-0.055968	0.152268	-0.36756	0.713358	-0.47886	0.401839	-1.19168	0.234323	-0.13647	0.119776	-1.13938	0.25545
TNS3.Q68CZ2	-0.050793	0.138534	-0.36664	0.71404	-0.61238	0.35616	-1.71939	0.086541	-0.18048	0.105961	-1.70331	0.089511
RPUSD2.Q8IZ73	0.0481835	0.131365	0.366791	0.714042	-0.06973	0.331128	-0.21059	0.833449	-0.04107	0.094718	-0.4336	0.66511
THBS4.P35443	0.0477525	0.130343	0.366361	0.714291	-0.50501	0.333472	-1.51441	0.131232	-0.13738	0.098311	-1.39736	0.163591
ACSL6.Q9UKU0.1	-0.085742	0.234162	-0.36617	0.714396	-0.10012	0.628078	-0.1594	0.873458	0.09628	0.18677	0.515499	0.606572
DYNC1L1.Q9Y6G9	-0.100332	0.274044	-0.36612	0.714431	-0.80349	0.783565	-1.02542	0.305963	0.460068	0.232025	1.982837	0.048268
DENND3.E9PF32	-0.046757	0.127779	-0.36592	0.714731	0.110695	0.317914	0.348191	0.728163	0.068877	0.092595	0.74385	0.458079
OMA1.Q96E52	-0.066815	0.182816	-0.36548	0.715042	-0.01823	0.475519	-0.03833	0.969474	-0.07778	0.14777	-0.52638	0.599354
IGFBP2.P18065	0.0491588	0.134657	0.365067	0.71522	-0.33779	0.343333	-0.98384	0.325993	-0.00491	0.100092	-0.04901	0.960941
BOLA1.Q9Y3E2	-0.049432	0.135498	-0.36482	0.715402	0.148972	0.340573	0.437417	0.662114	-0.00337	0.101346	-0.0333	0.973456
AHSP.Q9NZD4	0.0181811	0.049842	0.364773	0.715443	0.033999	0.128893	0.263781	0.792135	0.014204	0.038128	0.372541	0.70976
TCF25.Q9BQ70	-0.079281	0.217386	-0.3647	0.715486	0.769465	0.592658	1.29833	0.195139	0.216052	0.176357	1.225078	0.221476
NCF1B.A6NI72	-0.031452	0.086211	-0.36482	0.715497	-0.15462	0.228113	-0.67783	0.498705	0.176097	0.066045	2.666308	0.00833
RND1.Q92730	-0.063475	0.173998	-0.3648	0.715555	0.532599	0.467149	1.140105	0.255915	0.104197	0.145209	0.717568	0.474051
HRH1.P35367	-0.038837	0.106523	-0.36459	0.715587	-0.18369	0.267777	-0.68598	0.4933	-0.05392	0.078663	-0.6854	0.49367
HSPA4L.O95757	-0.086651	0.238087	-0.36395	0.716051	0.975991	0.600526	1.625228	0.10513	0.132718	0.179247	0.740419	0.459606
ANKRD13D.Q6ZTN6.3	-0.062234	0.171229	-0.36346	0.716415	0.857255	0.461202	1.858742	0.064011	0.06462	0.137913	0.468553	0.639718
SLC7A8.Q9UHI5	-0.04502	0.123869	-0.36345	0.716423	0.187874	0.325735	0.576768	0.564515	-0.00701	0.096952	-0.07231	0.942403
PPP6R1.Q9UPN7	-0.10165	0.279989	-0.36305	0.71672	-0.52474	0.746596	-0.70285	0.482677	0.225514	0.221907	1.016256	0.3103
FAM221A.A4D161.2	-0.036461	0.100415	-0.3631	0.716736	0.253977	0.279283	0.90939	0.364076	-0.03388	0.081449	-0.41594	0.677836
NOLA.O94818	-0.038734	0.106724	-0.36293	0.716858	-0.09002	0.271491	-0.33157	0.740509	0.027753	0.078399	0.354002	0.723652
GTPBP10.A4D1E9	-0.035167	0.096933	-0.3628	0.716918	0.594842	0.252947	2.351643	0.019367	-0.01566	0.073728	-0.21238	0.831965
FERMT3.Q86UX7	0.0372229	0.102671	0.362545	0.717099	-0.18701	0.269483	-0.69396	0.488236	0.13927	0.08055	1.728978	0.084825
EPB41L1.Q9H4G0.2	-0.025585	0.070699	-0.36189	0.717591	0.566545	0.181883	3.114891	0.002018	0.169068	0.053701	3.148317	0.001807

IDH3G.P51553	-0.07406	0.2047	-0.3618	0.717654	0.241481	0.550599	0.438579	0.661272	0.236291	0.163294	1.447029	0.148899
RILPL1.Q5EBL4	-0.077019	0.21289	-0.36178	0.717669	-0.7811	0.568662	-1.37357	0.170566	-0.13025	0.16952	-0.76834	0.442871
FAM50B.Q9Y247	0.0711292	0.19667	0.361667	0.717836	0.111647	0.550546	0.202794	0.839496	0.193082	0.161935	1.192339	0.2345
TOP3B.O95985	-0.064571	0.178602	-0.36153	0.717861	0.495558	0.463808	1.068454	0.286198	0.071709	0.137887	0.520055	0.603419
NRBF2.Q96F24	0.0637811	0.176426	0.361517	0.717865	-0.76187	0.413051	-1.84449	0.066066	0.017956	0.123544	0.145344	0.884534
EIF3E.P60228	0.1447023	0.400354	0.361436	0.717925	-0.30395	1.036092	-0.29336	0.769442	0.657057	0.305995	2.147283	0.032546
TM9SF2.Q99805	0.0874992	0.242108	0.361406	0.717948	-0.0882	0.626462	-0.14079	0.888127	0.268336	0.185743	1.444662	0.149563
SPEG.Q15772	0.0847086	0.234405	0.361376	0.71797	-0.94944	0.62425	-1.52092	0.129298	-0.07747	0.186343	-0.41572	0.6779
ACAP3.Q96P50	-0.072178	0.199867	-0.36113	0.718153	0.203844	0.503132	0.405151	0.685646	-0.17077	0.149398	-1.14307	0.253891
F2.P00734	-0.02598	0.072	-0.36083	0.718379	7.61E-06	0.181893	4.18E-05	0.999967	0.089018	0.053873	1.65236	0.099474
ACTR1B.P42025	-0.067624	0.187437	-0.36078	0.718412	0.421476	0.471299	0.894287	0.371862	-0.00165	0.140384	-0.01175	0.990629
MYH11.P35749.3	-0.022115	0.061282	-0.36087	0.718422	0.108915	0.163717	0.665264	0.506605	-0.08123	0.046937	-1.73072	0.084957
UCHL5.Q9Y5K5	-0.026562	0.073601	-0.36089	0.718448	0.440429	0.1967	2.239084	0.026362	-0.01489	0.055811	-0.26687	0.789872
TERF2IP.Q9NYB0	0.0615028	0.170665	0.360371	0.71872	-0.39815	0.407758	-0.97643	0.329612	-0.03003	0.121475	-0.24721	0.804906
PARP9.Q8IXQ6.2	0.0371358	0.103018	0.360477	0.718733	-0.16069	0.242918	-0.66149	0.509037	0.012683	0.080914	0.156752	0.875594
MPHOSPH10.O00566	0.0541693	0.150369	0.360243	0.718875	0.395868	0.388039	1.020176	0.308781	0.091501	0.108929	0.840007	0.401829
PC.P11498	-0.082403	0.228803	-0.36015	0.718888	0.211951	0.583654	0.363146	0.716743	0.295111	0.172853	1.707299	0.088768
GDPGP1.Q6ZNW5	-0.033775	0.093968	-0.35943	0.719428	-0.04003	0.256175	-0.15626	0.875931	0.01156	0.074562	0.155033	0.876901
SVIL.O95425	0.0314706	0.087539	0.359506	0.719502	-0.04179	0.266215	-0.157	0.875437	-0.01199	0.076566	-0.15655	0.875787
DNAJA3.Q96EY1	-0.102687	0.285939	-0.35912	0.719655	0.310823	0.718563	0.432562	0.665634	0.007834	0.213824	0.036639	0.970796
LPPR3.Q6T4P5	0.0428186	0.119262	0.359029	0.719833	0.523677	0.357753	1.463796	0.144885	-0.06773	0.10679	-0.63421	0.526696
PDZD8.Q8NEN9	0.1091538	0.304218	0.358801	0.719894	-0.40438	0.78624	-0.51432	0.607398	-0.18005	0.233769	-0.77021	0.441761
MAPT.P10636.6	-0.057633	0.160702	-0.35863	0.720021	0.081717	0.407127	0.200716	0.841052	-0.20236	0.120574	-1.67829	0.094298
TINAGL1.Q9GZM7	0.0433176	0.12083	0.358499	0.72012	0.37407	0.303699	1.231711	0.218991	0.042702	0.090534	0.471675	0.637491
MRAS.O14807	-0.073866	0.206109	-0.35838	0.720206	-0.17128	0.53464	-0.32037	0.748905	0.218303	0.158588	1.37654	0.169648
HSPA8.P11142	-0.102659	0.286632	-0.35816	0.720375	-0.50899	0.73016	-0.6971	0.486265	0.38928	0.216253	1.800116	0.072814
ARHGAP20.Q9P2F6	0.0609555	0.170133	0.358281	0.720386	-0.03801	0.451396	-0.08421	0.932975	0.143258	0.136266	1.051307	0.29446
CPEB2.Q7Z5Q1.9	-0.068661	0.191907	-0.35778	0.720654	0.392409	0.458318	0.856193	0.392552	-0.46124	0.133965	-3.44302	0.000654
PCDHB14.Q9Y5E9	0.0557465	0.155727	0.357976	0.720661	0.566386	0.363348	1.558795	0.120972	0.086428	0.109912	0.786337	0.432805
TBC1D9B.Q66K14	-0.081685	0.228316	-0.35777	0.720665	-0.36962	0.584019	-0.63289	0.527275	0.126103	0.1737	0.725981	0.468398
SEZ6L.Q9BYH1	0.0700412	0.195788	0.35774	0.720687	0.221771	0.499007	0.444424	0.657046	0.173173	0.148167	1.16877	0.243394
MRS2.Q9HD23	0.0448454	0.125448	0.357481	0.720887	0.183071	0.334909	0.54663	0.585038	-0.08547	0.097936	-0.87267	0.383539
CMC4.P56277	0.0401537	0.112328	0.357467	0.720902	0.191755	0.293433	0.65349	0.513953	-0.00851	0.088028	-0.09669	0.923042
GAD2.Q05329	-0.047273	0.132348	-0.35718	0.721104	-0.11453	0.340784	-0.33609	0.737033	-0.11577	0.101182	-1.14417	0.253437

NELFA.A0A0C4DFX9	-0.046481	0.130134	-0.35718	0.721136	0.242281	0.335834	0.721432	0.47129	-0.15734	0.096298	-1.63386	0.103494
CSMD3.Q7Z407	0.0698611	0.195612	0.357141	0.721157	-0.04847	0.512097	-0.09464	0.924667	0.020515	0.152496	0.134525	0.893086
GNL1.P36915	-0.168549	0.472164	-0.35697	0.721262	-0.37035	1.161827	-0.31877	0.750118	0.278167	0.345319	0.805538	0.421127
INAFM1.C9JVW0	-0.045129	0.126505	-0.35674	0.721585	0.541272	0.323748	1.671892	0.096476	0.130421	0.105241	1.239259	0.217042
SLC7A1.P30825	0.0330435	0.092714	0.356402	0.721689	-0.37721	0.228313	-1.65214	0.099519	-0.12009	0.067876	-1.76922	0.07784
TP53I3.Q53FA7	0.0434298	0.12195	0.356127	0.721899	-0.20392	0.311203	-0.65527	0.512793	0.173892	0.091708	1.896144	0.058899
HSPA12A.O43301	0.0826602	0.232213	0.355968	0.722014	0.331548	0.59911	0.553401	0.580388	0.093892	0.178233	0.526795	0.598713
PCP4L1.A6NKN8	0.0421619	0.118489	0.355831	0.722116	-0.1104	0.307407	-0.35914	0.719734	-0.12945	0.091171	-1.41987	0.15665
PLCXD3.Q63HM9	0.0425793	0.119669	0.355808	0.722133	-0.07719	0.307539	-0.251	0.801983	0.021455	0.091488	0.234512	0.814742
ATL2.Q8NHH9.4	-0.031423	0.088342	-0.3557	0.722243	0.281148	0.283385	0.992108	0.322078	-0.06871	0.07553	-0.90969	0.363836
FZD8.Q9H461	-0.046466	0.13074	-0.35541	0.722536	-0.21132	0.348463	-0.60643	0.544962	0.162432	0.105201	1.544017	0.124275
GIMAP4.Q9NUV9	0.0455922	0.128407	0.35506	0.722693	0.00088	0.32729	0.002688	0.997857	0.036585	0.097341	0.375849	0.707287
XKR7.Q5GH72	0.0471967	0.132937	0.35503	0.722723	-0.00908	0.36707	-0.02472	0.980293	0.19131	0.106833	1.790746	0.074366
BMPR1A.P36894	0.0350563	0.099073	0.353843	0.723636	0.416286	0.288334	1.443765	0.15	0.086621	0.085146	1.01732	0.30994
DNM1L.O00429.8	-0.067883	0.191913	-0.35372	0.723696	-0.6965	0.49965	-1.39397	0.164326	-0.16232	0.148817	-1.09074	0.276235
KCNQ5.F8WEA4	-0.066404	0.187829	-0.35353	0.723837	-0.5811	0.470683	-1.23458	0.217922	0.223672	0.139788	1.600088	0.110598
NUCB2.V9HW75	-0.087188	0.246984	-0.35301	0.724229	0.085659	0.606778	0.141171	0.887827	-0.00557	0.180511	-0.03088	0.975385
OSBP.P22059	-0.142469	0.403601	-0.35299	0.72424	0.415254	1.076516	0.385738	0.699955	0.192524	0.320135	0.601386	0.548023
OSBPL9.Q96SU4.6	0.0893764	0.25361	0.352417	0.724673	-0.48322	0.62986	-0.76718	0.443557	0.090125	0.18748	0.480717	0.631056
SPIN1.Q9Y657	0.048277	0.136986	0.352423	0.724681	0.169167	0.356829	0.474083	0.635802	-0.07601	0.107156	-0.70937	0.478676
TELO2.Q9Y4R8	-0.060474	0.171638	-0.35233	0.724759	-0.56443	0.456587	-1.23619	0.217493	-0.00368	0.132117	-0.02785	0.977804
POU3F3.P20264	0.0572332	0.162522	0.352156	0.7249	-0.55365	0.403583	-1.37184	0.171328	0.003858	0.117204	0.032917	0.973767
PTER.Q96BW5	-0.026165	0.074312	-0.35209	0.724926	0.111153	0.20198	0.55032	0.582519	0.014627	0.059958	0.243959	0.807433
ERBB4.Q15303	-0.080741	0.22938	-0.352	0.724987	-0.98453	0.565166	-1.74201	0.082498	-0.14123	0.168757	-0.83687	0.403311
MRPS2.Q9Y399	-0.044834	0.127452	-0.35177	0.725158	0.465974	0.327548	1.422611	0.155854	-0.09576	0.097606	-0.9811	0.327311
GIMAP1.Q8WWP7	-0.05102	0.145049	-0.35175	0.725206	-0.31477	0.377782	-0.83321	0.405499	0.365143	0.110293	3.310652	0.001064
LMBRD2.Q68DH5	-0.067716	0.192685	-0.35144	0.725409	0.132517	0.495556	0.26741	0.789331	0.129915	0.147251	0.882264	0.378317
CRAT.P43155	-0.06378	0.181536	-0.35134	0.725483	0.07586	0.459048	0.165256	0.86885	-0.12498	0.13638	-0.91642	0.360158
IMMT.Q16891.4	-0.062326	0.177699	-0.35074	0.725934	-0.51735	0.505949	-1.02253	0.307349	-0.04809	0.150113	-0.32038	0.7489
EFEMP1.Q12805	-0.029353	0.083879	-0.34995	0.726523	0.05644	0.212505	0.265596	0.790727	0.012256	0.06322	0.193858	0.846414
RELN.J3KQ66	0.0506957	0.144826	0.350046	0.726596	0.200494	0.364313	0.550335	0.582857	-0.02848	0.112767	-0.25252	0.800964
WSB2.F5H280	0.0457812	0.131248	0.348815	0.727422	-0.09474	0.332724	-0.28474	0.776096	-0.14403	0.095903	-1.50178	0.134501
OGN.P20774	-0.009933	0.028499	-0.34856	0.72757	0.012892	0.072973	0.176665	0.859892	-0.03131	0.021163	-1.47964	0.140029
UBE2G1.P62253	0.0655467	0.18805	0.34856	0.72757	-0.38697	0.480947	-0.8046	0.421693	0.1012	0.145023	0.697823	0.485832

DPY19L1.Q2PZ11	-0.070335	0.201943	-0.34829	0.727814	0.34125	0.496152	0.687793	0.49227	0.353811	0.142931	2.475399	0.014024
RHOA.P61586	0.0684475	0.196673	0.348027	0.727965	-0.54433	0.508125	-1.07125	0.284888	0.119674	0.151285	0.791052	0.429518
SLC25A18.Q9H1K4	0.0510412	0.146756	0.347796	0.728138	0.293087	0.380664	0.769937	0.441924	0.056779	0.113303	0.501121	0.616641
LRRC16B.Q8ND23	0.0392712	0.112907	0.34782	0.728208	0.396626	0.317058	1.250959	0.21244	0.029631	0.098111	0.302017	0.762959
OPTN.Q96CV9	-0.091757	0.263948	-0.34763	0.728261	0.145529	0.645729	0.225371	0.821839	0.17306	0.191857	0.902028	0.367742
BMP2K.Q9NSY1	-0.033073	0.095254	-0.34721	0.728596	0.015734	0.217703	0.072274	0.942435	-0.03451	0.064689	-0.53355	0.594068
GSK3A.P49840	-0.095098	0.273945	-0.34714	0.728629	-0.25188	0.680956	-0.36989	0.711713	-0.00441	0.202617	-0.02177	0.982642
DEPTOR.Q8TB45	0.0513706	0.147976	0.347155	0.72865	0.361581	0.388781	0.930038	0.353227	0.08426	0.114301	0.737174	0.461692
ZGPAT.Q8N5A5	-0.052835	0.152285	-0.34695	0.728868	0.627671	0.384771	1.631284	0.104428	-0.09255	0.120743	-0.76654	0.444275
DDX3Y.O15523	0.0078569	0.022655	0.346806	0.728897	-0.03219	0.063988	-0.50314	0.615266	0.007466	0.018494	0.403674	0.686762
PLLP.Q9Y342	0.0249735	0.072016	0.346776	0.728905	0.300758	0.18429	1.631982	0.103699	0.003727	0.055058	0.067702	0.946067
TBC1D17.Q9HA65	0.1040824	0.300537	0.346321	0.729246	-1.45314	0.754724	-1.92539	0.055096	0.513267	0.223966	2.291713	0.022592
DUSP3.P51452	-0.073779	0.213036	-0.34632	0.729247	-0.97486	0.540983	-1.80203	0.072513	0.516214	0.159095	3.244702	0.001304
FAM73B.Q7L4E1	-0.053011	0.153073	-0.34631	0.729263	0.052453	0.38088	0.137716	0.89056	0.224596	0.114093	1.968542	0.049948
HAPLN4.Q86UW8	-0.046582	0.13464	-0.34597	0.729508	0.235712	0.355757	0.662564	0.508102	0.039388	0.105883	0.371995	0.71015
DDOST.P39656	-0.093569	0.270607	-0.34578	0.729655	-0.8883	0.68301	-1.30057	0.194373	0.345061	0.202792	1.701551	0.089842
AKAP9.A0A0A0MRF6	0.0613724	0.17752	0.345721	0.729697	-0.26961	0.433346	-0.62216	0.534295	0.011209	0.128992	0.086896	0.93081
MARK2.E9PC69	-0.053241	0.154341	-0.34496	0.730276	-0.47996	0.414903	-1.1568	0.248274	-0.13656	0.124856	-1.09375	0.274944
TRAF1.Q13077	0.0388296	0.11258	0.344908	0.730422	0.267605	0.263531	1.015462	0.311191	0.005046	0.085237	0.059202	0.952854
FSD1L.A0A0C4DG97	0.0263489	0.07644	0.344699	0.730488	0.136554	0.212092	0.643845	0.52022	-0.01248	0.063153	-0.19769	0.843437
MBNL2.Q5VZF2	0.0632902	0.183876	0.3442	0.7309	-0.26521	0.442651	-0.59913	0.549718	-0.08157	0.129583	-0.62949	0.529697
ZNF185.O15231	0.0458707	0.133659	0.343192	0.731677	0.012682	0.360219	0.035206	0.971949	0.032432	0.108891	0.297839	0.766128
RRM1.P23921	-0.047321	0.13802	-0.34285	0.731851	-0.62016	0.342999	-1.80807	0.071565	-0.03944	0.102548	-0.38458	0.700809
NAA35.Q5VZE5	-0.085583	0.249744	-0.34268	0.731978	0.596875	0.621909	0.959746	0.337931	-0.09994	0.185195	-0.53962	0.589844
CCT3.P49368	-0.104901	0.306119	-0.34268	0.731983	0.154525	0.768586	0.201051	0.840791	0.614084	0.22598	2.717423	0.006949
CEP170.Q5SW79	0.1343493	0.392702	0.342115	0.732407	0.10764	0.99069	0.108652	0.913549	-0.44096	0.293652	-1.50162	0.134212
EMC3.Q9P0I2	-0.068874	0.201375	-0.34202	0.732478	-0.08783	0.523832	-0.16767	0.866953	0.405615	0.154126	2.631718	0.00892
RBM26.Q5T8P6	0.0828764	0.24249	0.341773	0.732664	-1.02936	0.63252	-1.6274	0.104668	-0.36355	0.187834	-1.93547	0.053842
ELAVL2.A0A0A0MRX1	-0.067741	0.198313	-0.34159	0.732805	-0.34357	0.546383	-0.6288	0.52994	-0.22357	0.162147	-1.37882	0.168946
SCIN.Q9Y6U3	-0.015544	0.045563	-0.34116	0.733128	-0.01024	0.112896	-0.09071	0.927784	0.058685	0.033419	1.756023	0.080072
NICN1.Q9BSH3	-0.063549	0.186193	-0.34131	0.733148	0.047368	0.454658	0.104183	0.917158	0.175233	0.135144	1.296638	0.19667
MAP4.E7EVA0	0.0462338	0.135726	0.340641	0.733516	0.010568	0.373011	0.028332	0.977415	-0.54947	0.106485	-5.16006	4.42E-07
ARHGEF2.V9GYF0	-0.05063	0.148709	-0.34046	0.733786	-0.61252	0.393306	-1.55737	0.121276	-0.68765	0.116042	-5.92589	1.73E-08
CALB2.P22676	0.0329076	0.096729	0.340204	0.733845	0.064015	0.222513	0.287692	0.773775	-0.01853	0.066194	-0.28	0.779667

ACAA1.P09110	0.0560042	0.164629	0.340185	0.733859	-0.29457	0.416205	-0.70776	0.479625	0.187032	0.123457	1.514954	0.130803
LAMTOR1.Q6IAA8	0.0696233	0.20475	0.34004	0.733968	-0.39276	0.54139	-0.72547	0.468712	-0.57717	0.157822	-3.6571	0.0003
BRMS1L.Q5PSV4	0.0209776	0.061719	0.339889	0.734157	-0.03671	0.164138	-0.22366	0.823257	0.016153	0.043807	0.368726	0.712732
TBC1D1.Q86TI0.2	0.0674465	0.198842	0.339196	0.734603	0.571503	0.484902	1.178596	0.239463	0.051282	0.144543	0.354784	0.722993
EMC6.Q9BV81	0.0612097	0.180602	0.338921	0.734822	-0.5346	0.498352	-1.07274	0.284283	0.228465	0.147168	1.552413	0.121658
ILK.A0A0A0MTH3	0.0593235	0.175081	0.338835	0.734876	0.001653	0.436184	0.00379	0.996979	-0.0296	0.129746	-0.22815	0.819678
PUM2.Q8TB72.3	-0.058728	0.173308	-0.33886	0.734889	0.699662	0.47629	1.468984	0.143125	-0.10556	0.138862	-0.76019	0.447874
SOD1.P00441	0.028937	0.085409	0.338805	0.734898	0.117704	0.229442	0.513004	0.608314	0.090034	0.068092	1.322239	0.187063
PRKACA.P17612	-0.055348	0.163493	-0.33854	0.7351	0.587124	0.467214	1.256647	0.209827	-0.10064	0.139224	-0.72286	0.470309
CNTN6.Q9UQ52	0.0389268	0.115062	0.338313	0.735282	-0.06447	0.328989	-0.19597	0.844775	-0.02553	0.096088	-0.2657	0.790669
PPIL3.Q9H2H8	0.0241547	0.071448	0.338073	0.735449	0.103258	0.179006	0.57684	0.564466	0.014535	0.053273	0.272843	0.785156
PCCB.P05166	0.0763218	0.225972	0.337748	0.735694	0.853239	0.587894	1.451349	0.147694	0.007134	0.175481	0.040653	0.967599
DUSP12.Q9UNI6	-0.03657	0.108355	-0.3375	0.735933	0.294175	0.321474	0.915081	0.361129	0.084403	0.095535	0.883474	0.377923
SKAP1.Q86WV1	-0.027946	0.082871	-0.33722	0.736101	-0.29314	0.211377	-1.38681	0.166569	-0.01776	0.062021	-0.28628	0.774866
COX7A1.P24310	0.024521	0.072749	0.337063	0.736214	0.349437	0.186542	1.873233	0.062008	-0.03663	0.055376	-0.66144	0.508836
USP22.Q9UPT9	0.0408545	0.121425	0.336458	0.73668	-0.08528	0.294414	-0.28965	0.772294	0.121953	0.086388	1.411687	0.159141
CCAR2.Q8N163	0.0853296	0.253681	0.336365	0.736736	-0.25666	0.62925	-0.40788	0.683643	-0.37798	0.186006	-2.0321	0.042996
ALDH9A1.P49189	-0.053287	0.158454	-0.33629	0.736791	0.364346	0.405255	0.899055	0.369321	-0.0877	0.12061	-0.72714	0.467687
RCBTB1.Q8NDN9	0.0612205	0.182082	0.336224	0.736884	-0.23719	0.475915	-0.49839	0.618677	0.233764	0.135661	1.723154	0.086182
HS1BP3.Q53T59	-0.063948	0.190356	-0.33594	0.737059	-0.73141	0.492967	-1.48369	0.138908	0.145428	0.146937	0.989731	0.323077
KIRREL3.E9PRX9	0.0543162	0.161871	0.335552	0.737351	-0.17132	0.420669	-0.40724	0.684111	-0.13656	0.125213	-1.09061	0.276296
CALM2.H0Y7A7	-0.063335	0.188783	-0.33549	0.737395	-0.08379	0.469969	-0.17829	0.858612	-0.07132	0.139756	-0.51029	0.610212
ENTPD3.O75355	-0.052558	0.156727	-0.33535	0.737503	0.373338	0.384072	0.972052	0.331783	-0.21395	0.113782	-1.88033	0.061
CRIP1.P50238	-0.018258	0.054464	-0.33523	0.737588	-0.08485	0.142091	-0.59718	0.550823	-0.0331	0.042252	-0.78336	0.434012
FOXK1.P85037	0.0502067	0.149816	0.335123	0.737672	-0.46718	0.391679	-1.19276	0.233877	-0.24213	0.115972	-2.08782	0.03763
TBC1D22A.A0A0A0MRYO	0.06292	0.188087	0.334527	0.738126	-0.14935	0.441412	-0.33834	0.735342	-0.03368	0.130771	-0.25755	0.796933
NSUN2.Q08J23	0.0644275	0.192785	0.334194	0.738372	0.511452	0.489666	1.044493	0.297071	-0.18493	0.145544	-1.27062	0.204816
TRAPPC10.P48553	0.1111498	0.332875	0.333909	0.738587	-0.34488	0.83022	-0.41541	0.678129	0.511084	0.245333	2.083225	0.03805
CXCL14.O95715	0.0309977	0.092832	0.333913	0.738598	-0.05102	0.227705	-0.22406	0.822871	0.010069	0.06857	0.146847	0.883359
FNBP1L.S4R347	0.0496459	0.14873	0.3338	0.738673	0.477178	0.36708	1.299928	0.194623	-0.11996	0.108502	-1.10557	0.269801
EIF4A1.P60842	0.0640742	0.192071	0.333596	0.738823	-0.0578	0.513936	-0.11246	0.91053	0.241324	0.152274	1.584797	0.114032
MIOS.Q9NXC5	0.0807331	0.242565	0.332831	0.739401	0.183203	0.617868	0.296508	0.767041	-0.08294	0.18377	-0.45131	0.652082
MTHFD2L.Q9H903	-0.073664	0.221361	-0.33278	0.73944	-0.36688	0.545504	-0.67255	0.501736	-0.05985	0.162361	-0.36861	0.712672
RAB18.Q9NP72	-0.09736	0.292665	-0.33267	0.739525	-0.2406	0.715375	-0.33633	0.736852	-0.16543	0.212643	-0.77799	0.437166

XPO6.Q96QU8	-0.049529	0.148875	-0.33269	0.73954	0.61428	0.378831	1.621516	0.106173	0.019127	0.116197	0.164605	0.869389
PECR.Q9BY49	0.0420182	0.126309	0.332663	0.739549	-0.99885	0.383273	-2.60611	0.009657	0.049431	0.117205	0.42175	0.673537
MAPK4.P31152	0.0502003	0.150895	0.332684	0.739574	0.118056	0.392038	0.301134	0.763601	-0.25585	0.111955	-2.28533	0.02326
FMNL3.Q8IVF7	0.026732	0.080393	0.332514	0.739656	0.235095	0.226274	1.038986	0.299714	0.124013	0.066472	1.865633	0.063146
ANKRD46.J3KP26	-0.070401	0.211843	-0.33232	0.739787	0.906491	0.541602	1.673722	0.095221	0.223905	0.161636	1.385237	0.167002
MRPS16.Q9Y3D3	-0.04206	0.126697	-0.33197	0.740047	0.558057	0.318493	1.75218	0.080732	-0.1938	0.094576	-2.04918	0.041286
MMAA.Q8IVH4	0.047879	0.144471	0.331409	0.740474	-0.13731	0.373623	-0.36752	0.713481	0.061664	0.111115	0.554954	0.579327
KRT78.Q8N1N4	0.0305972	0.092298	0.331505	0.740489	-0.31387	0.240147	-1.30698	0.19279	-0.03989	0.070035	-0.56962	0.569608
PFN2.G5E9Q6	0.119074	0.359515	0.331207	0.740625	-0.89541	0.869565	-1.02972	0.303944	0.524167	0.257406	2.03634	0.042566
RBF0X1.J3KNW3	0.0363837	0.109926	0.330982	0.740862	-0.51959	0.273588	-1.89916	0.058908	-0.02028	0.077399	-0.26205	0.793539
MRPS31.Q92665	0.0427142	0.129172	0.330676	0.741026	0.699058	0.338787	2.063414	0.039906	-0.13912	0.101165	-1.37521	0.170058
CHGA.P10645	0.0252322	0.076385	0.330328	0.741289	0.316706	0.194008	1.632436	0.103603	0.120365	0.057557	2.091232	0.037321
TMPO.P42167	0.0416675	0.126171	0.330247	0.741351	-0.06132	0.325866	-0.18817	0.850866	-0.2613	0.095802	-2.72748	0.006746
SPRY2.A0A0A0MTG9	0.0443538	0.134321	0.330207	0.741381	0.208582	0.337253	0.618474	0.536717	-0.05586	0.100338	-0.55671	0.578125
HLA.C.Q9TNN7	-0.014518	0.043989	-0.33003	0.741569	0.015119	0.107161	0.141083	0.887931	-0.00181	0.031867	-0.05679	0.954761
DOCK6.Q96HP0	-0.035511	0.107593	-0.33005	0.741575	-0.14869	0.326327	-0.45565	0.649125	0.044002	0.096329	0.456785	0.648312
TEX2.Q8IWB9	0.102112	0.309514	0.329911	0.741604	0.076163	0.868044	0.08774	0.93014	-0.60541	0.255931	-2.36551	0.01862
HAPLN1.P10915	0.0437151	0.132565	0.329764	0.741715	0.031421	0.336606	0.093345	0.92569	0.166919	0.099686	1.674451	0.095051
TATDN1.Q6P1N9	0.0948983	0.287796	0.329741	0.741733	-0.55089	0.773189	-0.7125	0.476694	-0.13795	0.230065	-0.59962	0.549196
BBS5.Q8N3I7	-0.0489	0.148325	-0.32968	0.741782	-0.22624	0.389824	-0.58035	0.562109	0.074052	0.116579	0.635209	0.525773
SMAD2.Q15796	0.081397	0.247036	0.329494	0.741919	-0.25846	0.594461	-0.43478	0.664028	-0.0557	0.176867	-0.31492	0.753034
AARSD1.Q9BTE6	-0.056711	0.172315	-0.32911	0.742209	0.337256	0.427107	0.789628	0.430348	-0.15804	0.126867	-1.24572	0.213808
SLC6A12.P48065	0.042727	0.12984	0.329073	0.742237	0.105471	0.313916	0.335986	0.737109	0.180179	0.092839	1.940764	0.053193
VDAC3.Q9Y277	0.068454	0.208145	0.328876	0.742386	0.464486	0.540857	0.858796	0.391117	0.145881	0.160873	0.906807	0.365213
XKR4.Q5GH76	0.0461686	0.140466	0.328683	0.742532	-0.33909	0.401573	-0.84441	0.399089	-0.00519	0.119598	-0.04338	0.965424
GRM7.Q14831	-0.070043	0.213578	-0.32795	0.743086	-0.31005	0.558532	-0.55512	0.579212	-0.0222	0.166231	-0.13354	0.893849
CRYZ.Q08257	0.0226453	0.069069	0.327866	0.743149	-0.26034	0.181248	-1.43635	0.151912	0.027125	0.054075	0.501618	0.616292
ZC3H7A.Q8IWR0	0.0837692	0.255751	0.327542	0.743394	0.234603	0.683202	0.343388	0.731539	0.478763	0.201452	2.376559	0.018082
ARID4B.Q4LE39	-0.027694	0.084514	-0.32769	0.743405	0.126775	0.214089	0.592159	0.554531	0.02536	0.062732	0.404251	0.686536
HDDC2.Q7Z4H3	-0.044055	0.13453	-0.32747	0.743447	-0.31953	0.335352	-0.95283	0.341421	-0.04458	0.099875	-0.44632	0.655675
ASCC1.Q8N9N2.2	0.0617937	0.188704	0.327464	0.743464	-0.43503	0.499226	-0.87141	0.384265	-0.03359	0.149655	-0.22442	0.82259
CREB1.P16220	0.0389205	0.11887	0.327421	0.743491	-0.21554	0.302486	-0.71257	0.476677	-0.29406	0.088484	-3.3233	0.001002
SERPINI1.Q99574	-0.053916	0.164733	-0.32729	0.743581	-0.46583	0.398739	-1.16826	0.243599	-0.0482	0.118847	-0.40554	0.685364
CPT2.P23786	-0.039529	0.120856	-0.32708	0.743747	-0.02676	0.308805	-0.08664	0.931013	-0.0647	0.091792	-0.70488	0.481417

IGHM.A0A087WYJ9	-0.010124	0.030973	-0.32686	0.743909	0.040866	0.080988	0.504595	0.614202	0.025319	0.02406	1.052327	0.293469
SEC22B.O75396	0.1056592	0.323262	0.326853	0.743915	0.176407	0.805424	0.219024	0.826775	0.444437	0.238285	1.865154	0.063104
PTPRD.P23468.2	0.1150972	0.352553	0.326467	0.744206	0.225518	0.868268	0.259733	0.795242	0.498065	0.256769	1.939739	0.053318
HOOK3.Q86VS8	-0.130916	0.401133	-0.32636	0.744284	-0.74546	1.037855	-0.71827	0.473129	-0.46865	0.307852	-1.52232	0.128948
MDN1.Q9NU22	0.0620837	0.190222	0.326376	0.744287	0.518851	0.473956	1.094723	0.274556	0.115103	0.140667	0.818269	0.413883
ALB.P02768	0.0170612	0.05235	0.32591	0.744628	-0.12835	0.126451	-1.01501	0.310893	0.065687	0.037494	1.751922	0.080776
ULK3.Q6PHR2	-0.058666	0.180052	-0.32583	0.74469	-0.31646	0.467709	-0.67661	0.499159	0.125055	0.139057	0.89931	0.369186
UAP1.Q16222	-0.091771	0.281706	-0.32577	0.744736	0.139733	0.694595	0.201172	0.840696	0.362641	0.205614	1.763697	0.078768
MARCH1.Q8TCQ1	-0.043019	0.132045	-0.32579	0.744737	-0.53507	0.363232	-1.47307	0.141904	-0.05214	0.109573	-0.47583	0.634583
ARFGAP1.Q8N6T3.2	-0.056433	0.173295	-0.32565	0.744829	0.605887	0.430739	1.406622	0.160554	0.0065	0.128869	0.050437	0.959807
SLC25A42.Q86VD7	0.0598592	0.183839	0.325606	0.744862	-0.13522	0.467321	-0.28936	0.772506	-0.08969	0.138358	-0.64823	0.517329
GLDC.P23378	-0.056431	0.173325	-0.32558	0.744878	-0.01748	0.436829	-0.04001	0.968111	-0.11215	0.129793	-0.86403	0.388237
ANAPC10.Q9UM13	-0.070523	0.216744	-0.32537	0.745058	-0.83245	0.623534	-1.33505	0.183002	0.172312	0.187743	0.917806	0.359552
SV2C.Q496J9	0.0243554	0.074909	0.325135	0.745214	-0.00901	0.210969	-0.0427	0.965969	0.023636	0.062746	0.376692	0.70666
GABARAP.O95166	0.0402334	0.123774	0.325054	0.745299	-0.47946	0.342595	-1.3995	0.162858	-0.0245	0.098944	-0.24763	0.804619
HNRNPL.P14866	0.0654984	0.201641	0.324827	0.745447	0.153825	0.489967	0.31395	0.75377	-0.10522	0.145657	-0.72237	0.470613
CCDC134.Q9H6E4	0.0604598	0.186144	0.324802	0.745507	-0.82157	0.462224	-1.77743	0.076753	0.16085	0.134731	1.193866	0.233699
OCRL.Q01968	-0.079065	0.243575	-0.3246	0.745618	0.720806	0.638414	1.129056	0.259747	-0.00811	0.190307	-0.04264	0.966016
NELL2.Q99435	-0.048853	0.150649	-0.32428	0.745858	0.57845	0.399214	1.448973	0.148356	0.372949	0.117263	3.180454	0.001619
G6PC3.Q9BUM1	0.0397037	0.122481	0.324162	0.746015	-0.33214	0.384568	-0.86368	0.388742	0.214709	0.112626	1.906396	0.057951
GPALPP1.A0A0A0MRI1	0.0512059	0.158126	0.323829	0.746229	-0.08785	0.469541	-0.1871	0.851727	-0.30485	0.135874	-2.24365	0.02571
HSPA5.P11021	-0.067667	0.209228	-0.32341	0.746518	-0.59984	0.529099	-1.1337	0.257795	0.332245	0.156591	2.121743	0.034652
ASB6.Q9NWX5	-0.062019	0.191817	-0.32332	0.746666	-0.25784	0.536987	-0.48016	0.631641	0.146985	0.168062	0.874586	0.382848
NUDT21.O43809	-0.055702	0.172538	-0.32284	0.74695	-0.02475	0.414413	-0.05972	0.952419	-0.17016	0.122902	-1.38452	0.167194
NPRL3.Q12980	-0.049864	0.154455	-0.32284	0.746958	0.44926	0.392304	1.145183	0.253071	0.031263	0.118926	0.262875	0.792832
GJA1.P17302	0.0330165	0.102538	0.321994	0.747591	-0.36377	0.273069	-1.33215	0.183788	-0.19139	0.080737	-2.37059	0.018371
TBCA.O75347	0.0691768	0.214922	0.321869	0.747685	-0.02188	0.532301	-0.04111	0.967238	0.020182	0.158346	0.127455	0.898663
RPL18.G3V203	0.0176347	0.054839	0.321574	0.747917	0.134826	0.138482	0.973599	0.331064	0.017378	0.04076	0.426355	0.670164
ERLEC1.Q96DZ1	-0.060289	0.187509	-0.32152	0.747948	0.392412	0.496759	0.789944	0.430165	-0.02889	0.147917	-0.19533	0.845259
MRPS17.Q9Y2R5	-0.040425	0.125742	-0.32149	0.747998	0.074425	0.316139	0.235418	0.814069	-0.11475	0.091432	-1.25508	0.210573
RPS2.P15880	0.0801648	0.249762	0.320964	0.74837	-1.82353	0.631653	-2.88692	0.004164	-0.05201	0.190392	-0.27319	0.784889
AKT3.Q9Y243	-0.069559	0.216802	-0.32084	0.748462	0.350505	0.556335	0.630024	0.529143	0.151922	0.165381	0.91862	0.359008
CMPK1.P30085	0.0517588	0.16143	0.320626	0.748627	0.688332	0.418169	1.646062	0.100764	0.046121	0.124913	0.369229	0.712209
FLCN.Q8NFG4	-0.077353	0.241405	-0.32043	0.748776	1.071902	0.598248	1.791736	0.07415	0.16977	0.178627	0.950412	0.342643

HLA.B.P01889	0.0182286	0.056999	0.319806	0.749248	-0.06465	0.156147	-0.41404	0.679131	0.085211	0.046211	1.843953	0.066144
PWP2.Q15269	-0.051959	0.162674	-0.3194	0.749613	-0.05611	0.46902	-0.11963	0.90488	0.028901	0.138787	0.208243	0.835228
COMT.P21964	0.0382556	0.119892	0.319084	0.749795	0.124331	0.31126	0.399443	0.689842	0.022759	0.092609	0.245749	0.806039
PPP1CB.P62140	-0.101097	0.317181	-0.31874	0.750059	1.41239	0.789745	1.788412	0.074686	-0.23896	0.235754	-1.01358	0.311574
NEB.P20929	-0.021316	0.066986	-0.31821	0.750552	0.00723	0.161546	0.044756	0.96435	0.009007	0.048634	0.185203	0.853274
ATP2B2.Q01814.2	0.0452633	0.142621	0.317368	0.751096	0.374288	0.359234	1.041905	0.298267	0.014131	0.10705	0.132008	0.895064
DGUOK.Q16854	-0.047581	0.150153	-0.31688	0.751465	-0.60683	0.389979	-1.55605	0.120716	-0.06803	0.1164	-0.58449	0.559316
BMS1.Q14692	-0.042936	0.135529	-0.3168	0.751593	0.431086	0.387398	1.112773	0.267078	0.165258	0.116765	1.415306	0.15846
CNN3.Q15417	-0.034433	0.108794	-0.3165	0.751757	0.137773	0.270729	0.508897	0.611187	-0.30271	0.078715	-3.8457	0.000146
MRPS5.P82675	-0.045058	0.142412	-0.31639	0.751837	1.077608	0.358612	3.004944	0.002873	-0.12613	0.107986	-1.16805	0.243682
VCL.P18206	-0.046655	0.147468	-0.31638	0.751848	-0.14118	0.380869	-0.37068	0.711126	-0.03708	0.113307	-0.32725	0.743702
ARHGEF40.Q8TER5.4	-0.039981	0.126409	-0.31628	0.751946	-0.2438	0.339444	-0.71822	0.473266	0.003643	0.104181	0.034965	0.972135
S100A11.P31949	0.0215041	0.068037	0.316066	0.752084	-0.10838	0.171299	-0.6327	0.527396	0.037201	0.050947	0.730193	0.465824
C8G.P07360	-0.037331	0.11813	-0.31601	0.752214	-0.22943	0.305449	-0.75113	0.453508	0.077189	0.093446	0.826031	0.409828
CEP131.Q9UPN4	-0.026295	0.083233	-0.31593	0.752256	-0.16377	0.220446	-0.74292	0.458354	-0.07071	0.06639	-1.06508	0.288053
KCNC3.E7ETH1	0.0262762	0.08323	0.315707	0.752371	0.259887	0.219204	1.185597	0.236816	0.04481	0.063912	0.701128	0.483822
CCS.J3KNF4	0.0827322	0.262276	0.315439	0.752559	-0.46641	0.670161	-0.69597	0.48697	-0.11889	0.199402	-0.59625	0.551446
PRTN3.U3KPS2	0.0344167	0.109053	0.315596	0.752578	-0.14588	0.281753	-0.51775	0.605374	0.056872	0.083906	0.677812	0.498908
ACSS3.A0A0B4J1R2	0.0461548	0.146375	0.315318	0.75265	0.062811	0.387637	0.162036	0.871383	0.038447	0.115299	0.333451	0.739019
IGHG3.A0A087WVW2	0.0118482	0.037582	0.315266	0.75269	0.146956	0.093468	1.572252	0.116912	-0.01411	0.027904	-0.5058	0.613354
FARS2.O95363	0.0588304	0.186677	0.315146	0.752782	-0.43092	0.502045	-0.85832	0.391377	0.254443	0.148827	1.709656	0.08833
QRICH1.Q2TAL8	0.05185	0.164654	0.314902	0.752972	0.646021	0.426867	1.513403	0.131255	-0.02856	0.12701	-0.22487	0.82224
ERCC3.P19447	0.0446604	0.141932	0.31466	0.753157	0.731414	0.376528	1.942524	0.053019	0.114608	0.113753	1.007517	0.314507
B9D1.Q9UPM9	0.0491481	0.15621	0.314628	0.753321	-0.16801	0.431057	-0.38976	0.697249	0.075366	0.125797	0.599104	0.549973
GPRC5B.Q9NZH0	-0.019866	0.063225	-0.31422	0.753484	0.098885	0.165111	0.598897	0.549679	-0.23533	0.047294	-4.97586	1.08E-06
APOO.Q9BUR5	-0.058622	0.186585	-0.31418	0.753511	-0.4496	0.47899	-0.93864	0.348648	-0.19414	0.142267	-1.36464	0.173357
PRAF2.O60831	0.0557005	0.177343	0.314084	0.753587	-0.84698	0.451854	-1.87445	0.061808	0.132802	0.134968	0.983952	0.325906
AOC3.Q16853	-0.018843	0.060024	-0.31393	0.753724	0.120791	0.157922	0.764876	0.445003	-0.11408	0.046262	-2.46587	0.014281
GALNT2.Q10471	0.0743559	0.236928	0.313834	0.753781	-1.00367	0.568086	-1.76676	0.078282	-0.02807	0.169148	-0.16593	0.868321
MTFP1.Q9UDX5	0.0401082	0.127905	0.313579	0.753989	0.082433	0.337678	0.244117	0.807328	-0.1601	0.097964	-1.63429	0.103375
MKNK1.Q9BUB5	-0.042465	0.13544	-0.31353	0.754031	0.613241	0.344301	1.781118	0.076056	-0.05188	0.097121	-0.53419	0.593665
GPATCH2.Q9NW75	-0.049848	0.158962	-0.31358	0.754036	-0.51503	0.406798	-1.26606	0.206928	-0.11108	0.124559	-0.89175	0.373573
PALM3.A6NDB9	0.0494882	0.158026	0.313166	0.754284	0.560429	0.436728	1.283245	0.200365	0.181231	0.129856	1.395628	0.163825
TBPL1.P62380	0.0400065	0.127746	0.313171	0.754288	-0.15031	0.341656	-0.43994	0.660312	-0.02036	0.098672	-0.20632	0.836691

PPAN.P2RY11.A0A0B4J1V8	0.0323264	0.10325	0.313089	0.754364	0.115748	0.260251	0.444755	0.656853	0.114441	0.079607	1.437568	0.151715
CHMP2B.Q9UQN3	-0.059473	0.189994	-0.31303	0.75439	0.433367	0.483997	0.895392	0.371272	-0.00882	0.144166	-0.0612	0.951236
NTRK3.Q16288.3	-0.056187	0.179641	-0.31278	0.75458	-0.55811	0.479783	-1.16325	0.245623	-0.07174	0.14298	-0.50172	0.616223
DCAF5.Q96JK2	-0.030487	0.097485	-0.31274	0.754651	-0.10041	0.231697	-0.43336	0.665142	-0.11992	0.071058	-1.68764	0.09277
SUGT1.Q9Y2Z0.2	-0.032361	0.103556	-0.3125	0.754869	0.257878	0.264745	0.974062	0.331258	-0.01792	0.079763	-0.22466	0.822481
SWAP70.Q9UH65	0.0620397	0.198881	0.311944	0.755212	-0.29589	0.505801	-0.58498	0.558984	0.121971	0.15039	0.811026	0.417973
CCND2.P30279	0.0481845	0.154474	0.311926	0.755356	-0.19136	0.361072	-0.52997	0.596856	-0.14492	0.10765	-1.34623	0.180099
RTN4R.H7C0V4	0.0689703	0.221457	0.311439	0.755595	-1.37805	0.552168	-2.4957	0.01309	0.313961	0.164941	1.903475	0.057905
IFIT1.P09914	0.019866	0.063817	0.311295	0.755705	-0.13099	0.158692	-0.82546	0.409745	0.031986	0.047225	0.67731	0.498714
FASTKD1.Q53R41	0.0319306	0.102592	0.311239	0.755825	0.296229	0.242989	1.219106	0.224233	-0.05069	0.071657	-0.70744	0.480113
CHMP1B.Q7LBR1	-0.065319	0.209967	-0.31109	0.75586	0.440277	0.536066	0.821311	0.4121	0.012353	0.159642	0.07738	0.938371
BTBD2.Q9BX70	-0.05436	0.17473	-0.31111	0.755864	0.102436	0.419125	0.244403	0.8071	0.109525	0.1268	0.863766	0.388466
GAS2L1.A0A5E8	0.0710954	0.228767	0.310776	0.756099	-0.48517	0.571908	-0.84834	0.396903	-0.32758	0.169311	-1.93479	0.053925
CNTN1.Q12860	0.0976919	0.3147	0.310429	0.756363	0.097993	0.810901	0.120844	0.903893	-0.24936	0.240818	-1.03545	0.301264
FABP3.P05413	-0.040643	0.13106	-0.31011	0.756604	-0.20816	0.329856	-0.63107	0.52846	0.127044	0.097924	1.297371	0.195468
PACS2.Q86VP3.3	0.0848903	0.274044	0.309769	0.756865	-0.29607	0.703343	-0.42095	0.674084	0.167724	0.209075	0.802218	0.423041
PJA1.Q8NG27	0.043219	0.139593	0.309608	0.757005	0.119006	0.40052	0.29713	0.766593	-0.33616	0.118055	-2.84746	0.004742
ACOT9.Q9Y305	0.0726966	0.234922	0.30945	0.757107	0.604927	0.63141	0.958057	0.33878	-0.19904	0.187771	-1.05999	0.289973
C12orf75.Q8TAD7	0.0292065	0.094419	0.30933	0.75723	-0.38835	0.246581	-1.57493	0.116558	-0.10149	0.073506	-1.38064	0.168642
RPL9.P32969	-0.083456	0.269844	-0.30928	0.75724	-0.4084	0.668383	-0.61102	0.541634	0.077949	0.198903	0.391893	0.695407
HLA.A.P01891	-0.023156	0.07488	-0.30924	0.757336	-0.0763	0.204072	-0.37387	0.708887	0.110508	0.058236	1.897588	0.059156
AP5M1.E7EQ45	-0.052194	0.168836	-0.30914	0.757383	0.049755	0.42911	0.115949	0.907795	-0.10731	0.122294	-0.87748	0.381141
FRMPD4.A0A087WYX8	-0.076015	0.246006	-0.309	0.757451	-0.3813	0.58948	-0.64684	0.518217	0.013567	0.175477	0.077317	0.938421
DDX42.Q86XP3	0.0786374	0.254605	0.308861	0.757555	-0.1042	0.611191	-0.17049	0.864739	-0.27657	0.181147	-1.52679	0.127834
MAL2.Q969L2	-0.03666	0.118758	-0.30869	0.757682	-0.25972	0.321716	-0.80729	0.420117	0.051477	0.095761	0.537559	0.591267
PALM.O75781.2	-0.03936	0.127575	-0.30852	0.757811	0.089656	0.31443	0.285139	0.775728	-0.22991	0.092634	-2.48187	0.013599
ZNF428.Q96B54	0.039423	0.128053	0.307866	0.758312	-0.03038	0.340472	-0.08923	0.928958	-0.3262	0.099577	-3.27584	0.001173
CDH6.P55285	0.0598291	0.194445	0.307693	0.758443	-0.08705	0.501794	-0.17348	0.862391	0.000481	0.149282	0.00322	0.997433
CRTC3.Q6UUUV7	-0.022874	0.074397	-0.30746	0.758674	0.071917	0.187953	0.382632	0.702364	-0.04185	0.057407	-0.72905	0.466753
RASIP1.A0A087WVG2	-0.056188	0.182991	-0.30706	0.758928	0.184679	0.457853	0.40336	0.686961	0.096055	0.13613	0.705612	0.480959
GPCPD1.Q9NPB8	-0.036113	0.117807	-0.30654	0.759318	-0.11919	0.29635	-0.4022	0.687815	0.012628	0.088179	0.143208	0.886219
RPL10.P27635	-0.059443	0.193926	-0.30653	0.759331	-0.50498	0.522047	-0.96731	0.334142	-0.01027	0.155533	-0.06602	0.947408
FAM213B.A0A0A0MT35	0.0529941	0.172987	0.306346	0.759467	-0.97044	0.429464	-2.25964	0.024537	0.242103	0.12807	1.8904	0.059637
PIK3CB.P42338	0.0791696	0.25857	0.306183	0.759592	-0.50725	0.68395	-0.74164	0.458865	0.950456	0.196358	4.840422	2.05E-06

TRIAP1.O43715	0.0393969	0.128727	0.30605	0.759711	0.491573	0.358956	1.369451	0.171992	0.053132	0.106727	0.497832	0.619006
MIEF1.B0QY95	0.0546547	0.1786	0.306017	0.759718	0.222427	0.471314	0.471929	0.637309	-0.08748	0.14017	-0.62407	0.533041
C16orf70.Q9BSU1	-0.062866	0.205435	-0.30602	0.759719	0.498256	0.4924	1.011893	0.312379	-0.10119	0.14661	-0.69023	0.490569
SNAP91.O60641.4	0.0338037	0.110479	0.305973	0.759789	-0.31656	0.289504	-1.09346	0.275298	0.132929	0.087861	1.512942	0.131621
SMARCD3.Q6STE5	0.0403801	0.132162	0.305534	0.760092	-0.27156	0.351946	-0.7716	0.440973	0.129837	0.102583	1.265677	0.206631
KRT6A.P02538	-0.010432	0.034149	-0.30548	0.760135	0.11256	0.088813	1.267383	0.206025	0.000989	0.026487	0.03733	0.970247
NDRG3.Q9UGV2	0.0545269	0.178525	0.30543	0.7603	0.099542	0.408024	0.243961	0.80759	-0.00317	0.102945	-0.03075	0.975508
LGALS7.P47929	0.0167636	0.054895	0.305375	0.760305	0.132592	0.141944	0.934113	0.351555	0.021699	0.040723	0.532854	0.594822
THEMIS.Q8N1K5	0.022768	0.074662	0.304949	0.760531	-0.03666	0.197612	-0.18552	0.852945	0.010887	0.058786	0.1852	0.853193
MKRN2.Q9H000	0.0680483	0.223231	0.304834	0.760618	0.060653	0.556417	0.109006	0.913268	0.085879	0.165456	0.519047	0.604098
EIF3L.Q9Y262	0.1435949	0.47126	0.304704	0.760717	-1.49823	1.164128	-1.28699	0.199057	0.979407	0.342747	2.857522	0.004558
CHRD.Q9H2X0	-0.052608	0.172945	-0.30419	0.76112	-0.35404	0.454378	-0.77917	0.436524	0.067477	0.134829	0.500466	0.617131
CPVL.Q9H3G5	0.0198013	0.065111	0.304117	0.761187	0.300662	0.175115	1.71694	0.087145	-0.01191	0.053672	-0.22186	0.824593
WASL.O00401	-0.041392	0.136224	-0.30385	0.761368	0.206642	0.35008	0.59027	0.55544	-0.35118	0.102274	-3.43368	0.000676
C3.P01024	0.0179692	0.05927	0.303172	0.761884	0.007032	0.145411	0.048361	0.96146	0.135917	0.042563	3.193309	0.001551
RMND1.Q9NWS8	-0.054044	0.178374	-0.30298	0.76203	0.654479	0.455152	1.437936	0.151461	-0.05887	0.135809	-0.43349	0.664961
COPZ1.P61923	0.0817361	0.269791	0.302961	0.762044	0.740159	0.734922	1.007125	0.31466	-0.12518	0.218868	-0.57196	0.567766
ZFAND6.Q6FIF0	-0.042068	0.138808	-0.30307	0.762055	0.052152	0.33334	0.156452	0.875844	-0.16407	0.103985	-1.57783	0.116276
PCCA.P05165	0.0743494	0.245433	0.302931	0.762067	1.338566	0.625612	2.139611	0.033167	-0.09134	0.187406	-0.48737	0.626341
MT1M.Q8N339	0.0183949	0.060722	0.302939	0.762079	0.060647	0.158858	0.381766	0.702932	0.145454	0.046776	3.109624	0.002071
MIB1.Q86YT6	0.0627656	0.207605	0.302331	0.762524	-0.76378	0.529309	-1.44298	0.150036	0.256184	0.157316	1.628465	0.104442
PEA15.Q15121	0.0415823	0.137608	0.30218	0.76264	-0.28323	0.350888	-0.80717	0.420186	0.075703	0.104404	0.725093	0.468942
ACOT7.O00154	-0.061605	0.204081	-0.30186	0.762881	0.546747	0.480374	1.138171	0.255928	0.107968	0.14307	0.754654	0.45103
NRIP3.Q9NQ35	-0.031248	0.103686	-0.30137	0.763259	0.238968	0.293337	0.814651	0.415929	-0.16235	0.087006	-1.86601	0.063033
MFAP1.P55081	0.0475821	0.157952	0.301244	0.763361	-0.47349	0.388036	-1.22023	0.223374	-0.09426	0.113321	-0.83181	0.406202
FAM120B.F5GY05	-0.05406	0.179666	-0.30089	0.76362	0.780632	0.434023	1.798593	0.073056	-0.00707	0.129786	-0.05447	0.9566
LGALS8.O00214.2	0.0542576	0.180587	0.300451	0.763957	0.344626	0.445897	0.772884	0.44018	0.08464	0.132687	0.637892	0.524015
COG5.Q9UP83	0.0765402	0.255037	0.300114	0.764214	-0.02611	0.639917	-0.0408	0.967486	-0.26468	0.18977	-1.39475	0.164089
CYP4F11.Q9HBI6	-0.032334	0.107925	-0.2996	0.764617	-0.11536	0.271107	-0.4255	0.670789	0.092351	0.080229	1.151088	0.250654
HSDL2.Q6YN16	-0.069518	0.232308	-0.29925	0.764875	1.21662	0.578765	2.102098	0.036351	-0.38172	0.172034	-2.21887	0.027219
CYFIP1.Q7L576	0.0708837	0.237174	0.298867	0.765164	-1.34492	0.651618	-2.06398	0.039852	0.50941	0.193016	2.639215	0.00873
ZDHC3.Q9NYG2	-0.067374	0.225471	-0.29881	0.765335	0.321647	0.58717	0.547792	0.584644	-0.08595	0.174126	-0.49361	0.6223
HAX1.O00165	-0.069776	0.233789	-0.29845	0.765479	-0.06792	0.584698	-0.11616	0.907597	-0.16868	0.173677	-0.97123	0.33219
LUM.P51884	-0.012843	0.043036	-0.29843	0.765499	-0.08876	0.106085	-0.8367	0.40341	-0.02907	0.031416	-0.9254	0.355482

SATB2.Q9UPW6	-0.046987	0.157568	-0.2982	0.76567	-0.42979	0.383528	-1.12063	0.263312	-0.17874	0.113872	-1.56961	0.117526
MIPEP.Q99797	0.0472451	0.158433	0.298202	0.765672	0.268786	0.384205	0.69959	0.484708	-0.04659	0.114354	-0.4074	0.683996
GID8.Q9NWU2	-0.085266	0.285995	-0.29814	0.76572	-0.94537	0.741396	-1.27512	0.20322	-0.02989	0.221123	-0.13518	0.892555
GORASP2.Q9H8Y8	-0.067807	0.227519	-0.29803	0.765806	-0.09148	0.631923	-0.14477	0.884985	-0.0736	0.187946	-0.39163	0.695602
PFDN2.Q9UHV9	-0.083447	0.280188	-0.29782	0.76596	0.365154	0.672741	0.542786	0.587667	-0.04913	0.200204	-0.2454	0.806307
SLC9A3R2.Q15599.2	-0.089725	0.301356	-0.29774	0.766025	0.403082	0.765903	0.526283	0.599068	-0.42757	0.226647	-1.88652	0.060159
SLC43A2.Q8N370	-0.052228	0.175623	-0.29739	0.766295	0.159272	0.44194	0.360394	0.718798	-0.1713	0.131137	-1.30627	0.192429
UBP1.Q9NZI7	-0.064967	0.21869	-0.29707	0.766533	-0.07253	0.584341	-0.12412	0.9013	-0.0736	0.173785	-0.42349	0.672234
RPS6KA2.Q15349.2	0.0596663	0.200919	0.296967	0.766614	0.018625	0.533958	0.034881	0.972197	0.274801	0.158075	1.738426	0.083129
ADCY9.O60503	0.0674764	0.227423	0.2967	0.766818	-0.05758	0.566133	-0.1017	0.919057	0.400598	0.166873	2.400606	0.016957
STK32C.Q86UX6	-0.069168	0.233182	-0.29663	0.766873	-0.41101	0.574475	-0.71546	0.474866	-0.16845	0.170769	-0.98639	0.324711
CSNK1D.P48730	0.0396633	0.13383	0.29637	0.767069	0.05695	0.338627	0.168178	0.866553	-0.05233	0.100696	-0.51969	0.603648
ZMYM2.Q9UBW7	-0.04263	0.143832	-0.29639	0.767088	0.230605	0.394357	0.584762	0.559237	0.072578	0.118608	0.611913	0.541154
DTD1.Q8TEA8	0.0406499	0.137181	0.296322	0.767106	-0.04882	0.344874	-0.14155	0.887526	0.04942	0.102559	0.48187	0.630238
AMER3.Q8N944	0.0572073	0.193218	0.296075	0.767362	-0.53702	0.503659	-1.06624	0.287553	-0.09097	0.154705	-0.588	0.557173
ARHGAP21.Q5T5U3	0.090074	0.304476	0.295833	0.767479	0.423792	0.779284	0.543822	0.586955	-0.07044	0.231899	-0.30375	0.761524
NCAM2.H9KV31	-0.062557	0.21147	-0.29582	0.767489	-0.60473	0.507993	-1.19043	0.23479	0.182821	0.151108	1.209873	0.227249
BIRC6.Q9NR09	-0.074808	0.253223	-0.29542	0.767797	-0.57308	0.701126	-0.81738	0.414362	0.135954	0.20716	0.656275	0.512151
CDC42EP4.Q9H3Q1	-0.022475	0.076096	-0.29535	0.767846	-0.03758	0.20458	-0.18369	0.854374	-0.32986	0.057907	-5.6963	2.85E-08
MAPRE3.Q9UPY8.2	0.0346114	0.117266	0.295153	0.767998	-0.45438	0.280836	-1.61797	0.106686	0.104062	0.083687	1.243467	0.214635
SLC9A9.Q8IVB4	0.0335446	0.113676	0.295089	0.768108	0.121113	0.269667	0.449122	0.653788	-0.19962	0.086333	-2.31225	0.021693
QPCT.Q16769	0.0377515	0.128014	0.294901	0.768225	0.35891	0.3114	1.152572	0.250219	0.117428	0.088965	1.319927	0.188102
MED8.Q96G25.2	0.0208148	0.070769	0.294121	0.768859	-0.22981	0.17456	-1.31649	0.189546	0.007464	0.056964	0.131035	0.895882
MORN4.Q8NDC4	0.0504149	0.171576	0.293834	0.769012	0.209981	0.448533	0.46815	0.640019	0.005636	0.13305	0.042357	0.966243
ISLR2.Q6UXK2	-0.037647	0.128131	-0.29382	0.76902	-0.05676	0.317437	-0.17881	0.858204	0.215762	0.093786	2.300574	0.022097
PLEKHG3.A1L390	-0.032142	0.109383	-0.29385	0.769028	0.115098	0.30113	0.38222	0.702642	0.037717	0.086645	0.435312	0.663734
DHTKD1.Q96HY7	0.0213557	0.072722	0.293663	0.769136	0.155658	0.193606	0.80399	0.422019	-0.02818	0.057632	-0.48903	0.625164
EHD1.A0A024R571	0.0575225	0.19605	0.293407	0.769332	0.312238	0.476168	0.655731	0.512484	0.200508	0.141292	1.419109	0.156872
ADAM17.P78536	-0.039023	0.133078	-0.29323	0.76948	-0.17611	0.3314	-0.53141	0.595566	0.170926	0.095901	1.782315	0.075801
UBE4B.O95155	-0.074764	0.255138	-0.29303	0.769618	0.354444	0.646605	0.548162	0.583975	-0.20436	0.192096	-1.06386	0.288221
OTUB1.J3KR44	-0.07325	0.25	-0.293	0.769642	0.739836	0.667586	1.108225	0.268624	0.079669	0.198937	0.400473	0.689084
RXRA.P19793	-0.045765	0.15619	-0.29301	0.769682	0.212828	0.411845	0.516767	0.605829	-0.04221	0.122561	-0.34439	0.730878
CPTP.Q5TA50	0.048941	0.16708	0.29292	0.769717	-0.20989	0.448595	-0.46788	0.640232	-0.19879	0.130039	-1.52871	0.127465
IGKV3.11.A0A087WZW8	-0.010984	0.037535	-0.29263	0.769925	0.040287	0.096152	0.418996	0.675509	0.036035	0.028538	1.262686	0.207651

IRES2.P48200	0.0435604	0.148838	0.292669	0.769949	-0.45036	0.407602	-1.10491	0.270446	0.115529	0.119978	0.962921	0.336679
LZTS2.Q9BRK4	0.0432127	0.147693	0.292585	0.770014	0.322319	0.368937	0.873643	0.38331	0.059849	0.10836	0.552311	0.581322
KIAA1715.Q9COE8	0.0923052	0.315894	0.292203	0.770252	0.45971	0.803282	0.57229	0.567541	-0.24735	0.238675	-1.03635	0.300848
ATP9B.O43861	-0.046531	0.159192	-0.2923	0.770252	0.140129	0.412381	0.339806	0.734367	-0.00972	0.118482	-0.08201	0.934721
LRRC8C.Q8TDW0	-0.059118	0.202391	-0.2921	0.770332	-0.11692	0.526678	-0.222	0.824463	0.503091	0.154062	3.265502	0.001215
PSMC2.P35998	0.1234496	0.422939	0.291885	0.770495	-2.18708	1.074765	-2.03494	0.042707	0.269959	0.321487	0.839722	0.401711
MAP1LC3B.Q9GZQ8	-0.020893	0.071602	-0.2918	0.770606	-0.04411	0.173857	-0.25374	0.799932	0.007304	0.050344	0.145078	0.884782
LYZ.P61626	-0.012613	0.043244	-0.29167	0.77066	-0.05452	0.100441	-0.54283	0.587638	-0.04183	0.029799	-1.40357	0.161446
NCOA7.Q8NI08.2	0.067868	0.232848	0.291469	0.770812	0.495927	0.588061	0.843327	0.399696	0.004843	0.175138	0.027655	0.977955
C3orf18.C9IYC4	0.0448109	0.153723	0.291503	0.770881	0.027112	0.380584	0.071238	0.94329	-0.25963	0.11903	-2.18117	0.030504
MGST3.O14880	-0.030272	0.103916	-0.29131	0.770932	0.04937	0.259817	0.190017	0.84942	-0.04842	0.077246	-0.62685	0.531218
D2HGDH.Q8N465	-0.022082	0.075808	-0.29128	0.770954	0.042708	0.192726	0.221599	0.824772	-0.1107	0.056991	-1.94239	0.052996
SH2B1.Q9NRF2	-0.090544	0.311164	-0.29098	0.771183	0.576252	0.829964	0.694309	0.488008	0.062297	0.247066	0.252148	0.801094
EMILIN3.Q9NT22	0.0374635	0.128758	0.290961	0.771231	-0.04919	0.345065	-0.14256	0.886753	0.009132	0.101448	0.090013	0.92835
CYP51A1.A0A0C4DFL7	-0.025313	0.087142	-0.29048	0.771575	-0.00536	0.238914	-0.02242	0.982129	-0.15911	0.069963	-2.27415	0.023663
MLYCD.O95822	-0.065353	0.225039	-0.29041	0.771623	1.197973	0.548897	2.182512	0.029822	0.047415	0.164515	0.288211	0.773378
RPS27A.P62979	-0.032375	0.111584	-0.29014	0.77183	-0.36641	0.300803	-1.21811	0.224109	-0.40008	0.086772	-4.61068	5.88E-06
ARHGEF10.O15013	0.0280956	0.096902	0.289938	0.77199	-0.18953	0.233445	-0.81188	0.417519	0.153239	0.068559	2.235143	0.026164
EIF4ENIF1.Q9NRA8	0.0686807	0.237201	0.289547	0.77229	0.044279	0.598045	0.07404	0.941029	-0.75303	0.172575	-4.36347	1.78E-05
HSPE1.P61604	-0.054268	0.18775	-0.28904	0.772667	0.083951	0.468766	0.179089	0.857985	0.085117	0.139373	0.610711	0.541839
TSPYL4.Q9UJ04	0.0376944	0.130435	0.28899	0.772712	0.037146	0.325327	0.114181	0.90917	-0.04947	0.096332	-0.51358	0.60792
FAM208A.Q9UK61	0.0463188	0.160696	0.288239	0.773325	0.673686	0.388602	1.733614	0.084309	0.08666	0.117405	0.738129	0.461179
HECA.Q9UBI9	0.0711016	0.246912	0.287963	0.773497	0.316091	0.610563	0.517705	0.605043	-0.3849	0.181346	-2.12244	0.034614
EIF4E3.Q8N5X7	0.0536957	0.186826	0.28741	0.773923	0.812849	0.483137	1.682441	0.093534	-0.01145	0.145979	-0.07842	0.937547
HAGH.Q16775	-0.068575	0.239137	-0.28676	0.774414	1.104852	0.607134	1.819784	0.069756	0.026935	0.181567	0.148349	0.882164
INTS1.Q8N201	-0.051996	0.181503	-0.28647	0.774732	0.235406	0.467617	0.503418	0.615326	0.103082	0.147985	0.696568	0.48703
RPRD2.Q5VT52	0.0487169	0.170125	0.28636	0.774733	-0.24321	0.405687	-0.59951	0.549312	-0.22462	0.121941	-1.84207	0.066508
PRPF19.Q9UMS4	-0.048397	0.169101	-0.2862	0.774843	-0.07261	0.427544	-0.16984	0.865248	-0.34239	0.125697	-2.72394	0.006817
PRKAG2.Q9UGJ0	0.0815531	0.28499	0.286161	0.774872	0.994249	0.734194	1.354205	0.176657	0.03388	0.219046	0.154668	0.877183
GIGYF1.O75420	0.06929	0.242303	0.285964	0.775031	0.163579	0.63996	0.255608	0.798436	-0.12719	0.184644	-0.68886	0.491467
MXRA7.P84157	-0.050574	0.176965	-0.28578	0.775161	0.108072	0.462688	0.233574	0.81547	-0.28287	0.136713	-2.06909	0.039366
PRRC2B.Q5JSZ5	-0.032695	0.114439	-0.2857	0.775227	-0.11862	0.321204	-0.36929	0.712162	-0.25829	0.094441	-2.73496	0.006598
SERPIN6.P35237	0.018495	0.06477	0.285549	0.775341	-0.15081	0.173111	-0.8712	0.384321	-0.21113	0.050147	-4.21033	3.35E-05
EPS8.Q12929	0.0523823	0.183631	0.285259	0.775563	-0.44134	0.469068	-0.94089	0.347493	-0.19097	0.139317	-1.37078	0.171437

ATP11C.A0A067XG54	-0.042798	0.150104	-0.28512	0.775714	0.362802	0.360505	1.00637	0.315319	0.066058	0.108772	0.607305	0.544261
ALCAM.Q13740.2	-0.049149	0.172434	-0.28503	0.775739	-0.51917	0.410559	-1.26456	0.20698	0.148195	0.122159	1.213133	0.226003
ITGAM.P11215	0.0397649	0.13966	0.284727	0.775971	-0.43228	0.354361	-1.21989	0.223435	0.202282	0.105042	1.925718	0.055054
POLR2D.O15514	0.0356238	0.125119	0.284719	0.77598	0.239788	0.370307	0.647539	0.517779	0.189197	0.1089	1.737341	0.083353
KCNQ3.O43525	0.0425936	0.149818	0.284302	0.776308	0.240146	0.364964	0.657998	0.51108	-0.03991	0.108434	-0.36806	0.713104
SLC6A17.Q9H1V8	-0.040979	0.14416	-0.28426	0.776325	0.044937	0.383551	0.117161	0.906808	0.204869	0.113507	1.804899	0.072061
GRN.P28799	-0.028488	0.100202	-0.2843	0.776327	0.244994	0.251224	0.9752	0.330447	0.053262	0.079474	0.670185	0.503387
FAM96A.Q9H5X1	0.0412665	0.145175	0.284253	0.776358	0.509136	0.381504	1.334549	0.183191	0.143467	0.119217	1.203413	0.229911
SYNRG.Q9UMZ2.7	-0.054315	0.191164	-0.28413	0.776432	-0.19074	0.49235	-0.3874	0.698734	-0.13452	0.146557	-0.91787	0.359417
SLC7A14.Q8TBB6	0.0427738	0.150616	0.283992	0.776533	-0.04504	0.39637	-0.11362	0.909611	-0.02303	0.117908	-0.19528	0.845303
ALYREF.E9PB61	-0.032639	0.114962	-0.28391	0.776593	0.181339	0.305343	0.593885	0.553022	-0.33034	0.088928	-3.71469	0.000241
BTF3L4.Q96K17	0.0407948	0.143753	0.283785	0.776692	-0.252	0.350316	-0.71936	0.472463	-0.32202	0.102684	-3.13608	0.001876
TUBGCP3.Q96CW5	0.1018501	0.359329	0.283445	0.776952	0.792695	0.944837	0.838975	0.40213	0.030605	0.281386	0.108767	0.913458
COX11.Q9Y6N1	-0.032134	0.113452	-0.28324	0.777129	-0.06896	0.301017	-0.22908	0.818984	-0.05043	0.087774	-0.57451	0.566105
TCP11L1.Q9NUJ3	-0.081113	0.286697	-0.28292	0.777353	1.361701	0.707356	1.925058	0.055137	-0.21529	0.211327	-1.01877	0.309107
GYPC.P04921	-0.03307	0.116924	-0.28284	0.777428	0.326205	0.271027	1.203589	0.229737	0.161464	0.080145	2.014651	0.04487
KAZN.Q674X7	0.0594246	0.210238	0.282653	0.777559	-0.00158	0.533932	-0.00295	0.997645	-0.47415	0.156536	-3.02899	0.00266
WWC1.Q8IX03.2	0.0287531	0.101768	0.282537	0.777651	0.093313	0.266727	0.349845	0.726701	-0.07015	0.07869	-0.89145	0.3734
COL1A1.P02452	0.0058462	0.020697	0.282461	0.777706	-0.02554	0.053216	-0.47988	0.631654	-0.0084	0.01583	-0.53069	0.596013
PRKG1.Q13976.2	0.04093	0.145108	0.282066	0.778009	0.654383	0.373749	1.750862	0.080959	0.215293	0.111061	1.938511	0.053468
AGFG2.O95081	-0.059059	0.209422	-0.28201	0.778054	-0.03354	0.570329	-0.05881	0.953145	-0.18944	0.169322	-1.11882	0.264082
FXYD7.K7ENE8	-0.014974	0.053181	-0.28157	0.778407	-0.08354	0.157031	-0.53197	0.595195	0.029935	0.050261	0.595591	0.551957
SDC3.O75056	-0.022891	0.081381	-0.28128	0.778622	0.126524	0.208659	0.606371	0.544769	-0.33484	0.059267	-5.64962	4.01E-08
PYGB.P11216	0.0422735	0.150309	0.281245	0.778638	0.568618	0.367175	1.548628	0.122491	0.208721	0.109007	1.914742	0.056446
RGMA.Q96B86	-0.040553	0.144272	-0.28109	0.778757	0.174896	0.366082	0.477751	0.633164	-0.11677	0.108741	-1.07384	0.28373
SETD3.Q86TU7	-0.092546	0.329254	-0.28108	0.778766	-0.13497	0.871816	-0.15481	0.877068	-0.2685	0.258911	-1.03705	0.300522
DNM1.Q05193	0.0227824	0.081179	0.280645	0.779102	-0.30354	0.220122	-1.37895	0.168946	-0.04648	0.064216	-0.72386	0.469722
C12orf4.Q9NQ89	-0.065559	0.233681	-0.28055	0.77917	-0.14538	0.6054	-0.24013	0.810385	0.359368	0.178952	2.008178	0.045492
TMEM38A.Q9H6F2	-0.039321	0.140205	-0.28045	0.779251	-0.16321	0.357504	-0.45654	0.648333	-0.17487	0.105142	-1.66321	0.097315
GSTT1.P30711	0.0078664	0.028071	0.280232	0.779415	-0.03543	0.071256	-0.49716	0.619427	-0.01358	0.02117	-0.64168	0.521554
TSPYL1.Q9H0U9	-0.031374	0.111998	-0.28013	0.779501	-0.12215	0.308309	-0.39619	0.692264	-0.06996	0.090042	-0.777	0.437805
SIN3A.Q96ST3	0.0437541	0.156232	0.280059	0.779555	-0.23518	0.381224	-0.61691	0.537783	0.030113	0.11013	0.273429	0.78472
TANC1.Q9C0D5	0.023191	0.082974	0.279497	0.780026	0.044259	0.217272	0.203705	0.838771	-0.00185	0.066517	-0.0278	0.977845
ANKRD29.Q8N6D5	0.0397494	0.142267	0.279401	0.780052	0.028785	0.372622	0.077249	0.938475	0.137324	0.110575	1.241914	0.215207

LIFR.P42702	0.0480585	0.172235	0.279028	0.780361	-0.13038	0.468007	-0.27859	0.780779	-0.2555	0.139355	-1.83342	0.067888
SCD.O00767	0.0225103	0.080764	0.278718	0.780583	-0.41899	0.202532	-2.06878	0.039441	0.022691	0.061096	0.371397	0.710609
TYMP.P19971	0.0204206	0.073279	0.27867	0.780616	-0.09243	0.185456	-0.49841	0.618558	0.055176	0.055199	0.99959	0.318309
HOOKE1.Q9UJC3	-0.064886	0.232911	-0.27859	0.780675	-0.43756	0.586312	-0.7463	0.456053	0.125232	0.174429	0.717955	0.473326
TUBAL3.A6NHL2	-0.04666	0.167483	-0.2786	0.780707	0.037744	0.401955	0.093901	0.92527	0.0288	0.117317	0.245491	0.806296
MEMO1.Q9Y316	0.0571795	0.205357	0.278439	0.78079	-0.75334	0.52514	-1.43455	0.152424	0.345032	0.155508	2.218745	0.027228
TTBK1.Q5TCY1	-0.091482	0.328842	-0.2782	0.780976	0.391972	0.850367	0.460944	0.645162	-0.4507	0.251758	-1.79023	0.074393
ACSF3.Q4G176	-0.029703	0.10708	-0.27739	0.781596	-0.37988	0.266872	-1.42345	0.15561	0.142756	0.079235	1.801676	0.072568
EPRS.P07814	0.0829526	0.299151	0.277294	0.781668	-0.57474	0.793006	-0.72476	0.469149	-0.2727	0.235597	-1.15749	0.247964
COMMD2.Q86X83	-0.071026	0.256397	-0.27702	0.781882	-0.43106	0.656031	-0.65707	0.511628	0.196588	0.19666	0.999633	0.318278
TM7SF2.O76062	-0.040828	0.147506	-0.27679	0.782062	-0.14821	0.383842	-0.38612	0.699677	-0.08664	0.113811	-0.76127	0.44709
SERINC5.D6RHG7	0.0384603	0.139037	0.276619	0.782264	-0.41708	0.3566	-1.16961	0.243678	-0.11029	0.10787	-1.02239	0.307944
SDPR.O95810	0.0349046	0.126327	0.276304	0.782428	-0.59818	0.322728	-1.85352	0.064758	0.179589	0.095996	1.870794	0.062316
MNDA.P41218	-0.026583	0.096215	-0.27629	0.782441	-0.40427	0.230669	-1.75258	0.080662	0.055345	0.068887	0.803418	0.422349
RELL2.Q8NC24	0.0456823	0.165436	0.276132	0.78256	-0.0842	0.442183	-0.19042	0.849104	0.032192	0.131537	0.244741	0.806819
GIPC1.O14908	0.0686099	0.24859	0.275996	0.782664	1.011553	0.656279	1.541346	0.124253	0.105245	0.195887	0.537272	0.591465
ACO1.P21399	-0.048975	0.177465	-0.27597	0.782686	-0.45017	0.445037	-1.01154	0.312549	0.166225	0.132272	1.256685	0.209814
TMUB1.Q9BVT8	-0.056053	0.203543	-0.27539	0.783133	-0.17971	0.522203	-0.34415	0.730969	-0.21812	0.154881	-1.40829	0.160048
AFTPH.Q6ULP2	-0.074165	0.269403	-0.27529	0.783203	0.213455	0.708846	0.301131	0.763517	-0.22602	0.210509	-1.07369	0.283795
GFM1.Q96RP9	0.0512583	0.186428	0.274949	0.783468	0.089503	0.475377	0.188279	0.850781	0.278291	0.140538	1.980183	0.048567
ARID1A.O14497	0.0593918	0.216318	0.274557	0.783772	-0.39504	0.54589	-0.72366	0.469842	-0.0899	0.15894	-0.56562	0.572078
BCL7B.Q9BQE9	0.0390855	0.142422	0.274435	0.783969	0.34574	0.418088	0.826956	0.409494	-0.24561	0.124558	-1.97182	0.050354
TOM1L2.Q6ZVM7.5	0.0245946	0.089646	0.274352	0.78397	-0.07321	0.238758	-0.30663	0.759421	-0.24155	0.071778	-3.3653	0.000905
KLHL26.Q53HC5	-0.057119	0.208304	-0.27421	0.784039	-0.00514	0.515876	-0.00997	0.992051	-0.20365	0.153289	-1.32855	0.185001
VPS11.Q9H270	-0.020183	0.073598	-0.27424	0.784095	0.229245	0.18339	1.250042	0.21283	0.043883	0.056013	0.783437	0.434351
RASGRP2.Q7LDG7	0.0490382	0.179076	0.27384	0.784319	-0.11678	0.45385	-0.25731	0.797112	0.170501	0.134679	1.265976	0.206472
RINT1.Q6NUQ1	-0.056967	0.208412	-0.27334	0.784705	-0.25772	0.548613	-0.46977	0.638849	0.065147	0.163219	0.39914	0.690065
CCDC158.Q5M9N0	0.0275447	0.100758	0.273376	0.784802	-0.26989	0.258605	-1.04364	0.298518	-0.01183	0.059853	-0.19763	0.843633
USMG5.Q96IX5	0.0297479	0.109073	0.272734	0.785185	-0.24746	0.291708	-0.84832	0.397011	0.044144	0.083973	0.525694	0.599532
RNMT.O43148	-0.051714	0.18971	-0.2726	0.785276	0.027299	0.524427	0.052055	0.958518	-0.26426	0.155285	-1.70177	0.0898
CBX7.O95931	0.0441402	0.162119	0.272271	0.78563	-0.19876	0.423237	-0.46961	0.639263	-0.12912	0.128987	-1.00101	0.318315
COX14.Q96I36	0.0277939	0.10229	0.271718	0.785964	-0.0398	0.263933	-0.15078	0.880256	-0.15043	0.077892	-1.93129	0.054468
TMEM74.Q96NL1	0.0423015	0.155632	0.271804	0.786036	0.305234	0.458205	0.666151	0.506477	-0.06856	0.128898	-0.53189	0.595697
AHCTF1.Q8WYP5	-0.043832	0.161527	-0.27136	0.786228	0.029967	0.401845	0.074572	0.940604	-0.06387	0.118984	-0.53676	0.591828

SNAP47.A0A087X0B7	-0.056493	0.208271	-0.27125	0.786311	0.388733	0.500912	0.77605	0.438311	0.17171	0.148838	1.153668	0.249525
SLC25A23.Q9BV35	0.0712957	0.263129	0.270954	0.786537	-0.48539	0.672645	-0.72161	0.47108	-0.21848	0.199883	-1.09302	0.275236
LARS.Q9P2J5	-0.064784	0.239135	-0.27091	0.78657	0.620905	0.667178	0.930644	0.352762	-0.09952	0.19867	-0.50094	0.616772
SLC6A11.P48066	0.0348953	0.128821	0.270881	0.786593	-0.05221	0.35532	-0.14693	0.883281	-0.15435	0.105341	-1.46529	0.143857
TOM1.O60784	-0.032672	0.120641	-0.27082	0.786642	0.043054	0.29621	0.145351	0.884528	-0.26443	0.086831	-3.04538	0.002523
AMPD2.Q01433	0.0448309	0.165561	0.270781	0.78667	0.168951	0.420519	0.401768	0.688132	0.135036	0.124894	1.081204	0.280447
PES1.B5MCF9	0.0500602	0.185218	0.270277	0.787069	-0.81348	0.480064	-1.69453	0.09128	0.242058	0.138833	1.743513	0.082346
MRPS24.Q96EL2	0.0314978	0.116584	0.270172	0.787148	0.410841	0.289241	1.420409	0.156582	-0.06968	0.086692	-0.80377	0.422199
RFT1.Q96AA3	0.0366503	0.135648	0.270186	0.78715	0.107186	0.344933	0.310743	0.756247	0.017601	0.100222	0.175625	0.860726
FAM135B.Q49AJ0	-0.043563	0.161331	-0.27002	0.787278	0.403335	0.417067	0.967073	0.334438	-0.11988	0.121778	-0.98441	0.325864
SLC25A36.Q96CQ1	-0.0469	0.173731	-0.26996	0.787305	0.084926	0.453548	0.187249	0.851588	-0.12433	0.134745	-0.92268	0.356892
ARFGEF1.Q9Y6D6	0.0779633	0.289341	0.269452	0.787692	-0.13428	0.710199	-0.18907	0.850162	0.003648	0.211284	0.017267	0.986234
SECISBP2L.Q93073	0.0467433	0.17343	0.269522	0.787724	-0.14419	0.491944	-0.2931	0.769782	-0.11677	0.143462	-0.81392	0.416752
LRRTM1.Q86UE6	-0.039145	0.145361	-0.2693	0.787811	0.070555	0.360718	0.195597	0.845054	-0.03616	0.107294	-0.33698	0.736357
ENTPD5.O75356	-0.040946	0.152173	-0.26908	0.788062	-0.3836	0.367633	-1.04344	0.298176	0.00884	0.106603	0.082921	0.934009
TSTA3.Q13630	0.0522596	0.194381	0.268851	0.788155	0.980618	0.502516	1.951417	0.051908	-0.19672	0.149989	-1.31154	0.190645
MICAL3.Q7RTP6	0.0813823	0.303181	0.268428	0.788479	0.445195	0.745524	0.597157	0.550838	-0.04508	0.221893	-0.20317	0.839133
BCAT2.O15382	0.029903	0.111491	0.26821	0.788651	-0.14909	0.272151	-0.54784	0.584209	-0.01752	0.081137	-0.21598	0.829146
SEC24C.P53992	-0.100958	0.376628	-0.26806	0.788766	-0.50644	0.96462	-0.52502	0.599947	-0.01345	0.287084	-0.04685	0.962663
NOA1.Q8NC60	0.0285941	0.106804	0.267726	0.789053	0.392575	0.296294	1.32495	0.186453	-0.10019	0.088118	-1.13701	0.256671
COG6.Q9Y2V7	0.0693773	0.259358	0.267496	0.789197	0.43609	0.651149	0.669723	0.503533	-0.15493	0.193646	-0.80007	0.424282
C7.P10643	-0.020312	0.075999	-0.26727	0.789371	0.294511	0.18043	1.63227	0.103665	0.026863	0.053984	0.497612	0.61912
AXIN1.O15169	-0.038557	0.144469	-0.26689	0.789761	0.809931	0.405679	1.996483	0.047557	0.038851	0.120714	0.32184	0.747988
SYT9.Q86SS6	-0.021243	0.079629	-0.26677	0.789812	-0.24188	0.22734	-1.06395	0.288602	-0.0332	0.066995	-0.49557	0.620728
FASTKD2.Q9NYY8	-0.0387	0.145159	-0.2666	0.789897	0.036762	0.44675	0.082287	0.934478	-0.01102	0.134046	-0.08219	0.934552
RPAP2.Q8IXW5	-0.040446	0.151781	-0.26648	0.790036	0.442613	0.397092	1.114634	0.266306	-0.13527	0.116235	-1.16377	0.245863
LGI1.O95970	0.0595896	0.223945	0.266091	0.790278	-0.37096	0.568126	-0.65295	0.514275	0.308887	0.168211	1.836306	0.06727
FARP1.Q9Y4F1	0.0561064	0.211261	0.265579	0.790672	0.292567	0.536213	0.545617	0.585722	-0.4313	0.157699	-2.73496	0.006598
RAB33A.Q14088	0.0635932	0.239701	0.265302	0.790885	-1.02408	0.589523	-1.73714	0.083356	0.151286	0.176015	0.859506	0.390725
LMAN2L.Q9H0V9	0.0383173	0.144523	0.265129	0.791022	-0.15876	0.354793	-0.44747	0.654858	0.167226	0.102843	1.626029	0.105004
FAS.P25445	0.0142057	0.053607	0.264998	0.791123	-0.00872	0.131545	-0.06629	0.947192	0.051992	0.038736	1.342225	0.180538
FKBP4.Q02790	0.0464363	0.175261	0.264955	0.791152	-0.39729	0.435722	-0.91179	0.362589	0.217466	0.129204	1.683116	0.093359
FADD.Q13158	0.0413435	0.156021	0.264987	0.791168	0.15058	0.386595	0.389504	0.697269	0.220513	0.116926	1.88591	0.060584
PEX12.O00623	0.0356033	0.134391	0.264923	0.791191	-0.45219	0.30612	-1.47718	0.140759	0.024672	0.098518	0.250432	0.802438

PDLIM2.Q96JY6	0.0305432	0.115374	0.264733	0.791323	0.108086	0.310499	0.348104	0.727998	-0.17937	0.091822	-1.95349	0.05166
PURA.Q00577	-0.078291	0.296228	-0.26429	0.791663	0.454413	0.78098	0.58185	0.56109	0.111291	0.232369	0.478941	0.632318
ANAPC5.Q9UJX4	-0.041954	0.158827	-0.26415	0.791785	0.127434	0.381071	0.33441	0.73832	0.229296	0.114251	2.00695	0.045713
ARPC1A.Q92747	0.0788821	0.29875	0.26404	0.791857	-1.50568	0.700215	-2.15031	0.032304	0.317395	0.209074	1.5181	0.130008
JMJD6.Q6NYC1	0.0319502	0.12114	0.263746	0.792163	0.526767	0.356052	1.479468	0.140763	0.169677	0.110479	1.535837	0.126334
TP53I11.E9PIN5	-0.023191	0.087986	-0.26357	0.792222	0.231452	0.21962	1.053874	0.292783	-0.1402	0.065071	-2.15465	0.03198
DNAJC3.Q13217	0.0562567	0.213613	0.263358	0.792382	-0.77605	0.589275	-1.31695	0.188828	0.01137	0.175788	0.064683	0.948468
IFT57.Q9NWB7	0.043709	0.165924	0.263429	0.792397	0.674987	0.396274	1.703331	0.090141	0.023936	0.12373	0.193452	0.846812
ATP6VOC.P27449	0.0171044	0.065025	0.263042	0.792637	-0.07802	0.165889	-0.47032	0.638491	0.010733	0.04815	0.222906	0.823772
CCKBR.P32239	-0.034349	0.130568	-0.26307	0.792646	-0.49502	0.332903	-1.48698	0.138459	-0.07692	0.099838	-0.77047	0.441851
LSM14B.Q9BX40.2	0.0304694	0.11587	0.262962	0.792688	0.238804	0.294208	0.811685	0.417595	-0.15397	0.087177	-1.7662	0.078346
APC2.O95996	0.0309039	0.117608	0.26277	0.792835	-0.17834	0.277248	-0.64325	0.520536	-0.09921	0.082339	-1.20489	0.229167
NLE1.Q9NVX2	0.0335041	0.127539	0.262696	0.792902	-0.09747	0.338888	-0.28762	0.773843	-0.06053	0.102854	-0.58847	0.556675
MFHAS1.Q9Y4C4	-0.043033	0.163819	-0.26268	0.793009	0.09951	0.46756	0.212829	0.831729	0.149349	0.142279	1.04969	0.295434
ACOT4.Q8N9L9	0.0222937	0.08492	0.262526	0.793068	-0.04128	0.237168	-0.17404	0.861993	0.046047	0.069084	0.666533	0.505779
ATXN10.Q9UBB4	-0.048778	0.185887	-0.26241	0.793116	-0.45191	0.493157	-0.91635	0.360194	-0.11557	0.146757	-0.78749	0.431598
PDF.Q9HBH1	-0.041449	0.158015	-0.26231	0.793191	0.016052	0.389555	0.041206	0.967158	0.129811	0.115651	1.122432	0.262548
DHCR7.Q9UBM7	-0.023503	0.089608	-0.26229	0.793209	-0.45182	0.220076	-2.05303	0.040909	-0.07696	0.065767	-1.17015	0.242841
C10orf35.Q96D05	-0.070277	0.268174	-0.26206	0.793384	-0.72397	0.658819	-1.09889	0.272668	-0.23268	0.195923	-1.18762	0.235892
PTPN14.Q15678	-0.014595	0.05581	-0.26151	0.793877	-0.33431	0.164757	-2.02913	0.043738	0.004689	0.048577	0.096534	0.92319
CAMKK1.Q8N5S9	-0.045529	0.174425	-0.26103	0.79418	0.462027	0.413159	1.118279	0.264313	-0.0683	0.123094	-0.55483	0.57941
WDR59.Q6PIJ9	0.0523364	0.200581	0.260925	0.794264	0.652833	0.49547	1.317603	0.188666	-0.02091	0.147449	-0.14181	0.887331
LEMD3.Q9Y2U8	0.0622862	0.238883	0.260739	0.7944	-0.37407	0.588172	-0.63599	0.525249	-0.12256	0.174947	-0.70058	0.484091
FAM50A.Q14320	-0.033823	0.129768	-0.26064	0.794478	0.214372	0.333449	0.642893	0.520769	0.21188	0.098529	2.150433	0.032294
LENG9.Q96B70	-0.031839	0.122187	-0.26057	0.794633	-0.1913	0.322062	-0.59397	0.553331	0.14921	0.089925	1.659271	0.098927
ACSL4.O60488	-0.065728	0.252817	-0.25998	0.794984	0.297557	0.659633	0.451094	0.652237	0.031484	0.196285	0.1604	0.872671
UTP14A.Q9BVJ6	0.0303676	0.116856	0.259871	0.795086	0.208949	0.306129	0.682553	0.495488	-0.04718	0.086909	-0.54283	0.587706
TARS2.Q9BW92	0.0359534	0.138363	0.259849	0.795087	0.183167	0.334612	0.5474	0.584498	-0.0054	0.099589	-0.05424	0.956779
PPIP5K2.O43314	-0.057591	0.22206	-0.25935	0.795472	-0.78423	0.576519	-1.36029	0.174727	-0.13746	0.171838	-0.79991	0.424374
TTC1.Q99614	-0.057839	0.223228	-0.2591	0.795663	-0.30877	0.565182	-0.54632	0.585236	0.007863	0.168212	0.046742	0.962749
KLHL11.Q9NVR0	-0.04848	0.187198	-0.25898	0.795762	0.35371	0.480878	0.735551	0.462578	-0.07855	0.142083	-0.55286	0.580771
FAM134C.Q86VR2	0.040792	0.157557	0.258903	0.795816	0.001889	0.367871	0.005135	0.995907	0.004253	0.109435	0.038866	0.969022
HSDL1.Q3SXM5	-0.05403	0.208735	-0.25885	0.795859	-0.70135	0.561433	-1.24921	0.212531	0.161393	0.167185	0.965357	0.335119
GTF3C1.Q12789	0.0402227	0.155391	0.258848	0.795891	-0.09333	0.411701	-0.2267	0.820852	0.019668	0.122721	0.160269	0.872805

CDK19.Q9BWU1	-0.045933	0.177485	-0.2588	0.796003	0.094182	0.472396	0.199371	0.842229	-0.17121	0.156404	-1.09466	0.27533
MIF.P14174	-0.041966	0.162505	-0.25825	0.796323	0.731098	0.398004	1.836914	0.06718	0.027861	0.119031	0.234068	0.815087
CFI.P05156	0.0224169	0.086858	0.258088	0.796457	-0.08354	0.219101	-0.38127	0.703296	0.160355	0.0646	2.482287	0.013649
SRSF12.Q8WXF0	-0.041877	0.162291	-0.25804	0.796532	-0.60593	0.453405	-1.33639	0.182796	-0.29563	0.135672	-2.17904	0.030386
CAMTA1.Q9Y6Y1	-0.031145	0.12072	-0.25799	0.796572	-0.25396	0.336629	-0.75442	0.451454	0.024507	0.098526	0.24874	0.803809
COQ7.H3BP28	-0.037458	0.14532	-0.25776	0.796695	0.070393	0.374992	0.187718	0.85122	-0.07053	0.111488	-0.6326	0.527459
GATAD2B.Q8WXI9	0.0457685	0.177636	0.257653	0.79678	-0.63088	0.438068	-1.44015	0.150834	-0.40824	0.12868	-3.17253	0.001663
HIF1AN.Q9NWT6	0.0439823	0.170839	0.257449	0.796938	0.219516	0.447075	0.491005	0.62377	0.377716	0.131308	2.876571	0.004299
GOT1.P17174	-0.04942	0.192089	-0.25728	0.797069	0.514062	0.498208	1.031823	0.302959	0.29845	0.147491	2.023506	0.043879
FAM136A.Q96C01	-0.039429	0.15338	-0.25707	0.79723	0.844225	0.380028	2.22148	0.02704	-0.13053	0.113707	-1.14797	0.251867
RPS3.P23396	-0.069058	0.268738	-0.25697	0.797306	-1.22142	0.706943	-1.72775	0.085028	0.095356	0.211244	0.4514	0.652017
RIPK1.Q13546	0.0334717	0.130266	0.256949	0.797327	0.290475	0.339693	0.85511	0.393168	0.099602	0.101455	0.981739	0.327014
ARHGEF11.O15085.2	-0.108878	0.424035	-0.25677	0.797463	1.336253	1.092594	1.223009	0.222255	0.175997	0.325657	0.540436	0.589285
ARAF.P10398	-0.036543	0.142301	-0.2568	0.797464	-0.00638	0.382643	-0.01666	0.98672	-0.03329	0.111704	-0.29801	0.765943
GTPBP6.H0Y2S1	0.0278101	0.108399	0.256553	0.797639	-0.27497	0.27146	-1.01294	0.311981	-0.01541	0.083775	-0.18397	0.854175
NUDT10.Q8NFP7	0.042528	0.16589	0.256362	0.797784	0.838212	0.441927	1.896718	0.058869	0.111684	0.132949	0.840054	0.401578
NDUFB5.O43674	0.0435934	0.170078	0.256315	0.797812	0.172929	0.441364	0.391805	0.695472	-0.09105	0.131229	-0.69382	0.488312
ESYT2.H7BX11	-0.077246	0.301477	-0.25622	0.797882	0.508399	0.811198	0.626726	0.5313	-0.2059	0.241187	-0.8537	0.393928
USP19.O94966.5	0.0659361	0.257792	0.255772	0.798231	-0.01333	0.650679	-0.02049	0.983669	0.186542	0.193276	0.965162	0.335216
ATP6VOA1.K7EN36	0.0346	0.1353	0.255728	0.798303	0.399001	0.375121	1.063659	0.288608	0.102243	0.113865	0.897936	0.370167
AGAP1.Q9UPQ3.2	0.0438769	0.171665	0.255596	0.79837	-0.00084	0.47087	-0.00179	0.99857	0.052583	0.140291	0.374811	0.708064
MCU.Q8NE86	-0.053683	0.210054	-0.25557	0.798388	0.29287	0.53349	0.54897	0.583421	-0.06647	0.158736	-0.41872	0.675712
LRRC8A.Q8IWT6	-0.06875	0.269387	-0.25521	0.798665	-1.54997	0.685099	-2.2624	0.024365	0.417979	0.204105	2.04787	0.041415
PITPNM1.O00562	0.0719772	0.28207	0.255175	0.798692	-0.71381	0.765078	-0.93299	0.351554	0.606768	0.225296	2.6932	0.007462
ETNK1.Q9HBU6	-0.04292	0.168518	-0.25469	0.799073	0.782184	0.431978	1.810703	0.071211	0.047939	0.125815	0.381032	0.703456
BAX.Q07812.5	0.0404918	0.159062	0.254567	0.799172	0.24405	0.430154	0.567355	0.57093	-0.00421	0.124508	-0.03384	0.973026
LRRC47.Q8N1G4	-0.052682	0.20706	-0.25443	0.799268	0.324846	0.540292	0.601242	0.548119	-0.4102	0.159125	-2.57784	0.010404
TAF6L.Q9Y6J9	-0.03652	0.143511	-0.25447	0.79931	-0.28569	0.339628	-0.84118	0.401331	-0.11226	0.102124	-1.09922	0.273103
ZFYVE1.G3V5N8	0.0832652	0.327445	0.254287	0.799377	-0.26866	0.800053	-0.3358	0.737249	0.095891	0.237983	0.402932	0.687276
RPS24.E7ETK0	0.0252706	0.099456	0.254087	0.799532	-0.02426	0.269462	-0.09003	0.928318	0.099106	0.079963	1.239393	0.216138
ARRDC1.Q8N5I2	-0.040908	0.161139	-0.25387	0.799721	-0.30371	0.428582	-0.70863	0.479176	0.133779	0.132101	1.012707	0.312124
RPS6.P62753	-0.049877	0.196601	-0.2537	0.799832	-0.32903	0.477444	-0.68914	0.491249	0.2797	0.141249	1.980187	0.048566
G6PD.P11413	0.0384546	0.15179	0.253341	0.800108	0.121864	0.327515	0.372087	0.710082	0.149922	0.097079	1.544327	0.123529
ATRN.O75882	-0.060552	0.239145	-0.2532	0.800215	-1.21725	0.659519	-1.84566	0.065895	0.069534	0.197231	0.352553	0.724663

LPP.Q93052	0.0380096	0.150121	0.253193	0.800222	-0.20062	0.398772	-0.50308	0.615264	-0.06654	0.118616	-0.56093	0.575247
GSPT2.Q8IYD1	-0.077284	0.305704	-0.25281	0.800521	-1.1654	0.802757	-1.45175	0.147583	0.113062	0.23953	0.472014	0.637249
ADRM1.Q16186	0.0445239	0.176145	0.252768	0.80055	0.271477	0.497669	0.545497	0.585804	-0.18807	0.147733	-1.27304	0.203959
EMC7.Q9NPA0	-0.068457	0.270937	-0.25267	0.800629	-0.29232	0.690745	-0.42319	0.672449	0.91507	0.198865	4.601473	6.12E-06
HDAC4.P56524	0.0558319	0.221002	0.25263	0.800657	-0.27816	0.568477	-0.48931	0.624971	-0.06977	0.169131	-0.41254	0.680228
RNF181.Q9P0P0	-0.031139	0.123475	-0.25219	0.801014	-0.56698	0.302932	-1.87163	0.062327	-0.07545	0.091877	-0.82125	0.412218
RPL26.P61254	-0.055524	0.220203	-0.25215	0.801027	-1.03346	0.582613	-1.77383	0.077073	-0.27664	0.173484	-1.59463	0.111814
UBASH3B.Q8TF42	-0.039653	0.157284	-0.25211	0.801058	-0.06925	0.35959	-0.19257	0.847423	0.002758	0.106978	0.025785	0.979445
GLO1.Q04760	-0.051661	0.205019	-0.25198	0.801157	-0.38077	0.490175	-0.7768	0.437871	0.236166	0.145343	1.624889	0.105203
CD200.U3KQG5	-0.009094	0.036103	-0.2519	0.801224	0.034465	0.09496	0.362947	0.716893	-0.00588	0.028225	-0.20845	0.835012
PHOSPHO1.Q8TCT1	-0.02827	0.112242	-0.25187	0.801276	-0.02052	0.285455	-0.07188	0.942753	0.006109	0.082401	0.074136	0.940963
EHBP1L1.Q8N3D4	0.0377945	0.150045	0.251887	0.801281	0.077715	0.385794	0.201442	0.840545	-0.07801	0.108894	-0.71641	0.474521
LCN2.P80188	0.0138753	0.055148	0.251603	0.801465	-0.01762	0.129976	-0.13559	0.892243	0.00176	0.03972	0.044314	0.964686
NRXN3.Q9Y4C0.4	-0.040372	0.160598	-0.25139	0.801617	0.163254	0.441224	0.370001	0.711634	0.028322	0.131276	0.215741	0.829332
ATP11B.Q9Y2G3	-0.048715	0.19421	-0.25084	0.802056	-0.46472	0.499858	-0.9297	0.353365	0.304503	0.145517	2.092558	0.037329
LMOD1.P29536	0.016198	0.064595	0.250761	0.802108	0.063722	0.165638	0.384705	0.700742	-0.09183	0.048752	-1.88362	0.060631
CRP.P02741	-0.006512	0.025982	-0.25063	0.802206	0.156377	0.06536	2.392536	0.017345	0.004301	0.019307	0.222772	0.823864
TAF7.Q15545	0.0319807	0.127655	0.250525	0.802302	-0.12244	0.328125	-0.37315	0.709332	0.050088	0.097532	0.513558	0.607987
MMGT1.Q8N4V1	-0.045724	0.182727	-0.25023	0.802509	0.372309	0.478139	0.778663	0.436772	-0.42848	0.140282	-3.0544	0.002451
NMNAT3.Q96T66	-0.038051	0.152171	-0.25006	0.802646	-0.27402	0.413806	-0.6622	0.508337	0.09901	0.123059	0.804573	0.421683
PPP1R16B.Q96T49	-0.041165	0.164732	-0.24989	0.802775	-0.3605	0.455918	-0.79071	0.429719	0.160342	0.135458	1.183699	0.237439
X0.H0YHG0	-0.02503	0.100236	-0.24971	0.802912	-0.1023	0.262422	-0.38981	0.696941	-0.46279	0.073528	-6.29401	1.05E-09
NOL7.Q9UMY1	0.0485716	0.194595	0.249603	0.803046	-0.51106	0.502909	-1.0162	0.310665	-0.31805	0.146178	-2.17577	0.030653
RPL12.P30050	-0.073649	0.295568	-0.24918	0.803325	-0.08192	0.752021	-0.10894	0.913321	0.205236	0.223413	0.918638	0.358999
PDCD6IP.Q8WUM4.2	0.0771194	0.310062	0.248723	0.803676	0.227163	0.736615	0.308388	0.757994	0.047372	0.219147	0.216165	0.829001
SDCBP.O00560	0.0533602	0.214651	0.248591	0.803779	0.715151	0.536819	1.332201	0.183773	0.107677	0.160034	0.672837	0.501552
UBAP1.Q9NZ09	-0.059761	0.240525	-0.24846	0.803878	0.435158	0.681098	0.638907	0.523355	-0.34275	0.201811	-1.69838	0.09044
SLC25A28.Q96A46	-0.038814	0.156144	-0.24858	0.803891	0.465837	0.374043	1.24541	0.214897	0.016012	0.120677	0.132683	0.894619
CEP170B.Q9Y4F5.2	0.0433939	0.174622	0.248502	0.803893	-0.24836	0.464706	-0.53444	0.593591	-0.33845	0.142319	-2.3781	0.018282
PRKCH.P24723	0.0204941	0.082584	0.24816	0.804175	0.263349	0.21387	1.231351	0.219738	-0.04903	0.062224	-0.78802	0.431683
BIN1.O00499	0.0459565	0.185347	0.247949	0.804275	-0.13595	0.467987	-0.2905	0.77163	0.088453	0.139146	0.635685	0.525451
IGHV3OR16.12.A0A075B7B8	-0.013327	0.053743	-0.24798	0.804276	0.144221	0.134781	1.070038	0.285626	0.001986	0.039634	0.050103	0.96008
EEF1D.E9PRY8	0.0699108	0.282251	0.24769	0.804475	0.315496	0.736053	0.428632	0.668488	-0.19568	0.218745	-0.89453	0.37173
UNC5A.Q6ZN44	0.0602815	0.243786	0.247272	0.804799	0.038328	0.605518	0.063297	0.949571	0.169745	0.179874	0.943689	0.346063

STAB1.Q9NY15	-0.02006	0.081128	-0.24726	0.804836	-0.02854	0.197023	-0.14486	0.884934	0.095447	0.05854	1.630472	0.104251
CHD8.Q9HCK8	-0.035815	0.144907	-0.24716	0.804927	0.08091	0.369803	0.218793	0.827011	0.120037	0.114359	1.049652	0.295009
SYT3.Q9BQG1	-0.068039	0.275424	-0.24703	0.804984	0.553913	0.702396	0.788604	0.430946	-0.02404	0.209156	-0.11494	0.908567
SHISA6.Q6ZSJ9	0.0261713	0.106004	0.246889	0.805101	0.052926	0.254926	0.207614	0.835675	-0.11022	0.07533	-1.46312	0.144506
TCEAL1.Q15170.2	0.0360812	0.146161	0.24686	0.80512	-0.01479	0.375195	-0.03941	0.968587	-0.17703	0.110342	-1.60434	0.109691
LRRTM2.O43300	-0.056491	0.229144	-0.24653	0.805372	-0.27544	0.577443	-0.477	0.633698	0.036888	0.171829	0.214681	0.830158
C2CD5.Q86YS7.5	0.0394816	0.160257	0.246364	0.8055	0.342645	0.383422	0.893649	0.372203	-0.0626	0.114153	-0.54838	0.583824
LETMD1.Q6P1Q0	0.0443999	0.180273	0.246292	0.805557	-0.51451	0.438659	-1.17291	0.241731	0.02907	0.130772	0.222297	0.824229
NDUFA11.Q86Y39	0.0344972	0.140139	0.246165	0.805655	0.257802	0.357893	0.720331	0.471864	0.118995	0.106341	1.118992	0.26401
DARS2.Q6PI48	0.0431239	0.175197	0.246146	0.80567	-0.14753	0.43722	-0.33742	0.736026	0.046982	0.130062	0.361226	0.718176
LAGE3.Q14657	0.0372308	0.151335	0.246016	0.80577	-0.30537	0.376193	-0.81173	0.417567	-0.06399	0.111971	-0.57148	0.568089
PTRH2.J3KQ48	-0.042583	0.17341	-0.24556	0.806121	0.382505	0.429692	0.890185	0.374057	0.113807	0.127826	0.890328	0.37398
X0.P01742	-0.00848	0.034565	-0.24533	0.806303	0.060471	0.087044	0.694723	0.487767	0.006719	0.025726	0.261158	0.79415
GCC1.Q96CN9	-0.040162	0.163741	-0.24528	0.806348	0.189977	0.396277	0.479405	0.632002	0.000381	0.117633	0.003243	0.997415
TSPAN31.F8VS78	0.0206144	0.08417	0.244913	0.806725	0.500853	0.22239	2.25214	0.025805	-0.02244	0.065396	-0.34318	0.731955
RRP15.Q9Y3B9	0.025793	0.105343	0.244847	0.806769	-0.28646	0.226869	-1.26267	0.208592	-0.01576	0.075312	-0.2092	0.834563
RASGRP1.HOYKMO	0.0305883	0.12501	0.244686	0.806808	-0.16074	0.30164	-0.5329	0.594514	0.036309	0.091717	0.395877	0.692491
PDZRN3.Q9UPQ7	-0.039576	0.161838	-0.24454	0.80693	0.559318	0.412639	1.355465	0.176446	0.079932	0.124347	0.64282	0.520907
MT1F.P04733	0.0108047	0.044282	0.243995	0.807334	-0.02568	0.116723	-0.21998	0.826029	0.050247	0.034608	1.451868	0.14755
STK3.Q13188	0.0422739	0.173661	0.243428	0.807799	0.124092	0.383953	0.323196	0.746806	-0.33859	0.114017	-2.96964	0.00326
PDZD2.O15018	-0.051095	0.210082	-0.24322	0.807937	0.073892	0.523862	0.141053	0.88792	-0.31166	0.154836	-2.01284	0.044996
ADAM9.Q13443	0.0629277	0.258763	0.243187	0.80796	0.387078	0.656863	0.589283	0.556101	-0.31823	0.194677	-1.63466	0.103135
AGPAT4.Q9NRZ5	0.0457154	0.18805	0.243102	0.808025	-0.50947	0.453437	-1.12358	0.262059	0.22993	0.134531	1.709116	0.08843
IFT74.Q96LB3	0.0193481	0.079586	0.24311	0.808031	-0.05308	0.196076	-0.27071	0.786815	-0.02806	0.059113	-0.47461	0.635438
SLC38A10.Q9HBR0	0.0347199	0.143211	0.24244	0.808625	0.493155	0.337981	1.459123	0.146492	0.113897	0.10273	1.108695	0.269225
MSTO1.Q9BUK6	0.0478024	0.197277	0.242311	0.80864	-0.09294	0.504178	-0.18433	0.853875	0.009271	0.148917	0.062256	0.950401
RB1CC1.Q8TDY2	-0.097445	0.402187	-0.24229	0.808655	0.717732	1.008603	0.711611	0.477241	-0.1424	0.300177	-0.47439	0.635553
C11orf73.Q53FT3	0.0415368	0.17158	0.242084	0.808814	0.186456	0.440928	0.422872	0.672682	0.181709	0.130799	1.389221	0.165763
DMXL1.F5H269	-0.097226	0.401624	-0.24208	0.808814	1.247068	0.998877	1.24847	0.212801	0.494269	0.296569	1.666627	0.096599
PTPN1.P18031	-0.043325	0.179063	-0.24195	0.808914	-0.32726	0.483193	-0.6773	0.498723	-0.26186	0.143077	-1.83021	0.068179
SPRED2.C9JG63	0.0357296	0.147699	0.241908	0.808966	0.345752	0.376369	0.918651	0.35911	0.058436	0.109335	0.53447	0.593463
PANX1.Q96RD7	-0.033362	0.137952	-0.24184	0.809004	-0.33224	0.335955	-0.98894	0.323465	0.116492	0.099879	1.166332	0.244377
GMFG.O60234	0.0279635	0.115631	0.241834	0.809007	0.196571	0.322939	0.608695	0.543172	-0.00668	0.096125	-0.0695	0.944632
TPK1.F8VRJ6	-0.020914	0.086613	-0.24147	0.809299	-0.43314	0.320723	-1.3505	0.177927	0.028798	0.095962	0.300102	0.764318

ACSS2.Q9NR19	0.0487272	0.201814	0.241446	0.809307	-0.53483	0.536543	-0.9968	0.319639	0.525598	0.157056	3.346565	0.000919
GUCY1A2.P33402	-0.07478	0.309928	-0.24128	0.809435	-0.12476	0.79116	-0.1577	0.874797	-0.16644	0.235176	-0.70771	0.479657
MACROD1.Q9BQ69	0.0289391	0.120182	0.240793	0.809813	0.378109	0.31576	1.197454	0.232044	0.156656	0.093729	1.671373	0.095657
S100A9.P06702	0.0097166	0.040363	0.240732	0.809869	-0.10112	0.10371	-0.975	0.330385	0.032849	0.03005	1.093174	0.27524
CNPY4.Q8N129	0.0412779	0.171511	0.240672	0.809909	-0.09898	0.480427	-0.20602	0.836915	0.099335	0.143948	0.690071	0.490676
GLMN.Q92990	-0.041959	0.174639	-0.24026	0.810227	0.168622	0.442789	0.380817	0.7036	0.127415	0.131554	0.968539	0.33353
MED16.Q9Y2X0	-0.042617	0.17733	-0.24033	0.810256	-0.58958	0.4517	-1.30525	0.193491	0.05997	0.137741	0.435384	0.663811
TACO1.Q9BSH4	-0.047119	0.196235	-0.24011	0.810339	0.418502	0.511254	0.818581	0.413655	0.219821	0.15174	1.448661	0.148443
DPM3.Q9P2X0	0.0469473	0.195962	0.239573	0.81076	-0.06343	0.496433	-0.12778	0.898406	-0.2623	0.148202	-1.76985	0.077747
AARS2.Q5JTZ9	-0.037117	0.155076	-0.23935	0.810933	0.076557	0.408219	0.18754	0.85136	0.108237	0.121289	0.892385	0.372879
PDLIM5.Q96HC4	0.0358802	0.149992	0.239214	0.811037	-0.41602	0.37915	-1.09723	0.273392	-0.1134	0.112826	-1.00506	0.31565
FLNA.P21333	-0.017816	0.074513	-0.2391	0.811123	-0.08639	0.188137	-0.45919	0.646421	-0.06258	0.055874	-1.11995	0.263601
NUP50.Q9UKX7	0.0413955	0.173221	0.238975	0.811222	0.025773	0.450893	0.057161	0.954454	-0.70187	0.128073	-5.48021	8.81E-08
SLC27A1.Q6PCB7	0.0588453	0.246272	0.238944	0.811246	0.493292	0.6243	0.790151	0.430043	-0.37644	0.184672	-2.03841	0.042357
NAP1L1.H0YIV4	0.0260518	0.109387	0.238163	0.811852	0.492856	0.303486	1.623985	0.105395	0.09881	0.090491	1.091929	0.275712
CD2BP2.O95400	-0.032203	0.135262	-0.23808	0.811921	0.464767	0.345946	1.343468	0.180136	-0.08773	0.10427	-0.84136	0.400814
LAMA2.P24043	0.0335988	0.14121	0.237936	0.812028	-0.00872	0.352316	-0.02474	0.980276	0.326819	0.103151	3.168351	0.001686
FAM13A.O94988	0.0312446	0.13131	0.237946	0.812034	0.133473	0.330713	0.403593	0.686823	0.140748	0.099088	1.420436	0.156601
BET1.H7C1N3	-0.042851	0.180061	-0.23798	0.812074	0.343614	0.496684	0.691816	0.48998	-0.12222	0.146656	-0.83335	0.405795
ZC3HAV1.C9J6P4	0.0310301	0.130596	0.237604	0.812285	-0.31759	0.346445	-0.91671	0.360007	0.017392	0.103196	0.168536	0.866272
DRAP1.C9JCC6	0.037089	0.156185	0.237469	0.812392	0.256369	0.386519	0.663277	0.507663	0.005853	0.114242	0.051236	0.959171
PSMA6.P60900	0.0798861	0.336485	0.237414	0.812432	-1.492	0.868046	-1.7188	0.086649	0.851016	0.254914	3.338445	0.000945
SLCO2B1.O94956	-0.027562	0.116066	-0.23747	0.812458	-0.45537	0.312219	-1.45848	0.14647	-0.15396	0.090491	-1.7014	0.090615
OSBPL5.Q9H0X9	0.0351633	0.148091	0.237443	0.81246	-0.10208	0.382599	-0.2668	0.789892	0.127901	0.118853	1.076131	0.283134
SERPINF1.P36955	-0.031519	0.13279	-0.23736	0.812476	0.400164	0.34594	1.156745	0.248267	0.182846	0.102609	1.781972	0.075733
RAB11B.Q15907	0.0795104	0.335012	0.237336	0.812493	-1.62902	0.822088	-1.98156	0.048412	0.474327	0.244622	1.939024	0.053406
SYNJ2BP.COX16.A0A087WUM	0.0839012	0.353513	0.237336	0.812493	0.39842	0.918192	0.433918	0.66465	0.542531	0.271486	1.998379	0.046549
STRIP2.Q9ULQ0	-0.045278	0.190863	-0.23723	0.812581	0.345096	0.511068	0.675246	0.500054	0.075221	0.153708	0.489378	0.624941
GSTA4.O15217	-0.026906	0.113431	-0.2372	0.812599	-0.23589	0.289699	-0.81425	0.416127	-0.2044	0.085488	-2.39093	0.017402
CTIF.O43310.2	-0.043617	0.184426	-0.2365	0.81314	0.059082	0.534598	0.110516	0.912072	-0.27846	0.158248	-1.75962	0.079459
ABCD3.P28288	0.0612812	0.259314	0.236321	0.81328	-1.35026	0.636158	-2.12252	0.034586	-0.23696	0.19014	-1.24623	0.213622
TCOF1.Q13428.3	0.0488776	0.206938	0.236195	0.813378	-0.56289	0.563288	-0.99929	0.318435	-0.58599	0.164505	-3.56216	0.000426
HTRA2.O43464	-0.056771	0.240524	-0.23603	0.813505	-0.62126	0.599998	-1.03543	0.301276	0.447945	0.176978	2.531079	0.011865
DPH3.Q96FX2	-0.036447	0.154558	-0.23582	0.813751	-0.30052	0.414469	-0.72508	0.469395	-0.184	0.138558	-1.32799	0.185952

RNPS1.H3BMM9	-0.02906	0.123408	-0.23548	0.813936	0.308592	0.304357	1.013914	0.311425	-0.09167	0.091326	-1.00374	0.316298
GBF1.Q92538	-0.053123	0.225856	-0.23521	0.814144	-0.4516	0.569376	-0.79315	0.428294	-0.50528	0.167105	-3.02376	0.002705
PFKM.P08237	0.0716819	0.304827	0.235156	0.814183	-0.43574	0.802123	-0.54323	0.587362	0.214402	0.23842	0.899262	0.369211
LRRC4C.Q9HCJ2	0.0372493	0.158449	0.235088	0.814243	-0.98922	0.428268	-2.30981	0.021606	0.173964	0.123017	1.414144	0.1584
C1orf198.Q9H425	0.0291286	0.124136	0.234651	0.814575	0.239109	0.346572	0.689925	0.490757	-0.36729	0.101047	-3.63485	0.000326
DCAF13.Q9NV06.2	0.0203568	0.086775	0.234592	0.814728	-0.17452	0.223149	-0.78207	0.435474	0.00326	0.06699	0.048659	0.961259
ALKBH5.Q6P6C2	-0.038296	0.163344	-0.23445	0.814742	0.083367	0.37637	0.221502	0.824865	-0.09448	0.111591	-0.8467	0.397892
TRIM21.P19474	0.0270721	0.115564	0.234261	0.814884	-0.1665	0.302949	-0.54958	0.583033	0.125301	0.089791	1.395465	0.163954
IDS.P22304	0.0420125	0.179437	0.234135	0.814976	0.26425	0.453107	0.583196	0.560185	-0.19371	0.134416	-1.44112	0.150559
CEP68.Q76N32	-0.032331	0.138805	-0.23293	0.81595	0.492427	0.37135	1.326044	0.18617	-0.12459	0.112764	-1.10489	0.270387
SLC13A3.Q8WWT9	-0.020158	0.086537	-0.23294	0.815956	0.084285	0.222456	0.378886	0.705165	0.019026	0.068432	0.278023	0.781275
MTCH2.Q9Y6C9	-0.056525	0.242758	-0.23285	0.815976	-0.53137	0.636785	-0.83446	0.404663	-0.06487	0.189609	-0.3421	0.732506
TRMU.O75648	0.0427251	0.18357	0.232745	0.816059	0.718647	0.445251	1.614028	0.107583	0.175418	0.131223	1.336793	0.182313
SLC2A1.P11166	-0.030835	0.132525	-0.23267	0.816111	0.272284	0.359079	0.758284	0.448857	-0.0264	0.106908	-0.24698	0.805084
SIRT3.Q9NTG7	0.0395762	0.170684	0.231868	0.816734	-0.16438	0.417806	-0.39343	0.694274	0.076588	0.124245	0.616427	0.538065
ALDOA.P04075.2	0.0485707	0.209589	0.231743	0.816832	-0.8154	0.539518	-1.51136	0.131716	0.006118	0.161087	0.037979	0.969729
HNRNPAB.Q99729.3	-0.032237	0.139412	-0.23123	0.817228	-0.20401	0.360559	-0.56583	0.571922	-0.26826	0.106228	-2.5253	0.012058
PDE1A.P54750.4	0.0398048	0.172568	0.230661	0.817672	-0.08394	0.434997	-0.19298	0.847105	0.095626	0.129298	0.73958	0.460115
MYLK.Q15746	0.0384935	0.16714	0.230307	0.817947	-0.55466	0.432961	-1.28109	0.201121	-0.17392	0.12876	-1.35072	0.177769
TM6SF1.Q9BZW5	-0.027382	0.118956	-0.23019	0.818058	0.303048	0.330564	0.91676	0.360111	0.033729	0.097841	0.34473	0.730574
CELSR2.Q9HCU4	-0.054022	0.235143	-0.22974	0.818385	-1.10185	0.568522	-1.93809	0.05352	-0.19301	0.169793	-1.13676	0.256518
MAP2K1.Q02750	0.0464875	0.20246	0.229613	0.818485	-0.06736	0.505937	-0.13314	0.89417	0.127724	0.150337	0.849588	0.39621
SEC23A.F5H365	-0.074286	0.323733	-0.22947	0.818599	-0.53651	0.841381	-0.63766	0.524166	0.451026	0.249147	1.810283	0.07122
ISG15.A0A096LNZ9	0.0105283	0.045915	0.229298	0.818731	-0.18705	0.117868	-1.58697	0.11354	0.057264	0.035055	1.633544	0.10337
ZNF483.Q8TF39	-0.038758	0.169104	-0.2292	0.81881	0.347627	0.437651	0.794301	0.427628	-0.26061	0.129483	-2.01269	0.045011
SLC16A2.P36021	-0.036194	0.158015	-0.22905	0.818923	-0.22808	0.399373	-0.57111	0.568341	-0.06001	0.11882	-0.50505	0.613882
GSTO1.P78417	0.0219707	0.096011	0.228834	0.819091	-0.48763	0.256847	-1.89852	0.058557	-0.00335	0.07685	-0.04356	0.965281
ANO10.Q9NW15	0.0439344	0.192097	0.228709	0.819188	0.162789	0.508199	0.320326	0.748937	-0.15527	0.150948	-1.02864	0.304449
PPCS.Q9HAB8	0.0534444	0.234022	0.228373	0.819449	-0.45799	0.57578	-0.79543	0.426971	0.316078	0.170517	1.853649	0.064739
CSTF2T.Q9H0L4	-0.042771	0.187784	-0.22776	0.819922	-0.20452	0.473069	-0.43232	0.665813	-0.4434	0.138501	-3.2014	0.001509
NDUFB7.P17568	0.028034	0.123251	0.227454	0.820163	0.035116	0.318498	0.110256	0.912278	0.058196	0.094692	0.614588	0.539278
MT1G.P13640	0.0083597	0.036776	0.227313	0.820303	-0.01745	0.096842	-0.18016	0.857183	0.037499	0.029271	1.281083	0.20146
APBB1IP.Q7Z5R6	0.02113	0.09304	0.227107	0.82044	-0.23574	0.265742	-0.88709	0.375772	0.230249	0.080486	2.860714	0.004537
VDAC2.P45880	-0.052223	0.229974	-0.22708	0.82045	0.135606	0.613254	0.221126	0.82514	0.20398	0.182079	1.120284	0.26346

ARPP19.P56211	-0.024933	0.109801	-0.22708	0.820456	-0.05654	0.306418	-0.18453	0.85372	-0.45191	0.087471	-5.16639	4.28E-07
ATP2C1.P98194	-0.061811	0.272439	-0.22688	0.82061	-0.43972	0.697238	-0.63067	0.528724	0.630765	0.204434	3.085426	0.002216
YEATS4.O95619	0.0309383	0.136457	0.226725	0.820746	0.09853	0.384732	0.2561	0.79808	0.057548	0.111327	0.516921	0.605657
PHF20L1.A0A0A0MQS0	0.0315239	0.139065	0.226686	0.820771	-0.23571	0.364979	-0.64583	0.518931	-0.2086	0.10517	-1.98342	0.048318
FAM49B.Q9NUQ9	0.060715	0.268133	0.226436	0.820954	0.134036	0.668493	0.200504	0.841218	-0.04946	0.198858	-0.24874	0.803727
VAMP3.Q15836	-0.020464	0.090526	-0.22606	0.821248	0.023948	0.233715	0.102468	0.918451	-0.10827	0.069255	-1.56335	0.118991
LIMCH1.Q9UPQ0	0.0633715	0.28039	0.226012	0.821284	-0.70953	0.73701	-0.96271	0.336444	-1.14275	0.209763	-5.44779	1.04E-07
BRSK2.Q8IWQ3.4	-0.036776	0.162744	-0.22598	0.821316	0.193923	0.447072	0.433763	0.664774	-0.20793	0.132062	-1.57445	0.116444
HLA.A.P05534	-0.00551	0.024385	-0.22594	0.821388	-0.06409	0.072883	-0.87941	0.380255	0.0166	0.021439	0.774291	0.439692
PIP5K1A.A6PW57	0.0487739	0.216275	0.225518	0.821668	0.14978	0.557997	0.268424	0.788551	0.075247	0.165959	0.453408	0.650572
NELFE.P18615	0.0312316	0.138556	0.225408	0.821762	-0.05017	0.343827	-0.14592	0.884085	-0.24391	0.103917	-2.34719	0.0196
PSMB4.P28070	0.0209366	0.092896	0.225376	0.821778	0.215292	0.227107	0.947974	0.343881	0.027358	0.06764	0.404463	0.686152
TAC1.P20366	0.0234838	0.104234	0.225298	0.821852	0.175281	0.262503	0.667731	0.504874	-0.12208	0.075955	-1.60732	0.109149
PAK4.O96013	0.0400765	0.177967	0.225191	0.821922	-0.01417	0.451271	-0.03141	0.974964	-0.16323	0.133925	-1.21885	0.223828
ZHX2.Q9Y6X8	-0.041877	0.18616	-0.22495	0.822183	-0.23297	0.52963	-0.43987	0.660565	-0.18924	0.163128	-1.16005	0.247584
KCTD8.Q6ZWB6	0.0442803	0.197024	0.224746	0.822268	-0.25633	0.508733	-0.50387	0.614714	-0.39717	0.149711	-2.65292	0.008391
NKIRAS1.Q9NYS0	0.0580431	0.258349	0.224669	0.822328	-0.75006	0.667	-1.12453	0.26166	0.239697	0.198358	1.208406	0.227812
LRRC8D.Q7L1W4	0.0669356	0.298048	0.22458	0.822397	1.11715	0.745967	1.497585	0.135259	0.208095	0.2224	0.935682	0.350165
KCTD2.Q14681	-0.029529	0.131684	-0.22424	0.822673	-0.34454	0.370892	-0.92894	0.353766	0.199437	0.10599	1.881654	0.060979
AP2S1.M0R0N4	-0.050212	0.224268	-0.22389	0.822932	0.744636	0.562677	1.32338	0.186684	0.118887	0.167723	0.70883	0.478963
LSM12.Q3MHD2	-0.055004	0.246131	-0.22347	0.823258	0.515884	0.601969	0.856994	0.39211	-0.39096	0.177907	-2.19753	0.028722
PXN.F5GZ78	-0.030784	0.137759	-0.22346	0.823267	-0.68254	0.365226	-1.86883	0.06259	-0.00476	0.109258	-0.04356	0.965286
RASAL1.O95294.4	0.0277612	0.124422	0.223121	0.823532	-0.16393	0.328612	-0.49886	0.618235	0.079639	0.097691	0.815215	0.415575
HCCS.P53701	0.0503413	0.22566	0.223085	0.82356	0.030184	0.599854	0.050319	0.959901	-0.05148	0.178423	-0.28853	0.773134
SPG21.Q9NZD8	-0.040339	0.18093	-0.22295	0.823663	0.27579	0.457183	0.603238	0.546799	0.09826	0.136276	0.721038	0.471438
KNG1.P01042	-0.01379	0.061983	-0.22248	0.824027	0.034819	0.145339	0.239571	0.810821	0.089036	0.042943	2.07335	0.038965
SMDT1.Q9H4I9	-0.044309	0.199163	-0.22248	0.824084	-0.1028	0.504426	-0.20379	0.838728	0.002974	0.145146	0.020493	0.983671
EP400.Q96L91	-0.039006	0.175443	-0.22233	0.824203	0.269385	0.438109	0.614881	0.539318	0.026098	0.129734	0.20117	0.840766
TMEM163.Q8TC26	0.0398678	0.179545	0.222048	0.824366	-0.40241	0.450407	-0.89343	0.372318	-0.06905	0.134103	-0.5149	0.606993
DNAAF5.Q86Y56	-0.033607	0.151333	-0.22207	0.824434	0.158482	0.451557	0.350968	0.726052	0.029467	0.130411	0.225952	0.821513
FBLN2.P98095	-0.018084	0.081523	-0.22183	0.824581	-0.13715	0.210299	-0.65215	0.514982	0.047394	0.064905	0.730196	0.46604
STAT2.P52630	-0.035576	0.160662	-0.22143	0.824849	0.176246	0.395499	0.445629	0.65619	-0.17642	0.114696	-1.5382	0.125065
EXTL3.O43909	0.0381855	0.172592	0.221247	0.825012	-0.27008	0.473159	-0.57081	0.568657	0.085074	0.136224	0.62452	0.532872
SFPQ.P23246	0.0324852	0.146854	0.221208	0.82502	0.125863	0.355036	0.354509	0.723198	-0.14043	0.105337	-1.33315	0.183463

SEZ6.Q53EL9	-0.035565	0.161016	-0.22088	0.825334	0.026244	0.42025	0.062449	0.950272	0.05182	0.127854	0.405306	0.685718
DCN.P07585	-0.009692	0.044018	-0.22017	0.825825	-0.06157	0.109158	-0.56403	0.573141	-0.03886	0.032275	-1.20399	0.229516
SLC2A12.Q8TD20	-0.032649	0.148501	-0.21986	0.82611	-0.24955	0.395064	-0.63167	0.528298	-0.12584	0.121185	-1.0384	0.300291
CALD1.Q05682	-0.024101	0.109651	-0.2198	0.826119	0.020137	0.282081	0.071387	0.943136	-0.0896	0.08376	-1.0697	0.285588
C3orf33.Q6P1S2	0.0245627	0.111875	0.219555	0.826307	-0.00962	0.266979	-0.03604	0.97127	-0.11992	0.079129	-1.51551	0.130663
NCAM1.H7BYX6	0.0295485	0.134657	0.219435	0.8264	0.26833	0.332502	0.807002	0.420284	-0.0459	0.098983	-0.46373	0.643166
IBA57.Q5T440	-0.047559	0.217613	-0.21855	0.827089	0.346728	0.58189	0.595865	0.5517	-0.01002	0.1732	-0.05785	0.953904
SPATA5.Q8NB90	-0.035971	0.164701	-0.2184	0.82722	0.325578	0.501818	0.648798	0.517037	0.085514	0.146504	0.583697	0.559927
NDUF4F1.Q9Y375	-0.027658	0.126658	-0.21837	0.827229	0.542846	0.32878	1.65109	0.099733	0.026355	0.098224	0.268316	0.788635
CORO2A.Q92828	0.0432596	0.198229	0.218231	0.827338	0.147207	0.511356	0.287875	0.773635	-0.28567	0.151272	-1.88846	0.059897
ABLIM1.O14639.6	0.0400023	0.183533	0.217957	0.827551	0.184425	0.459822	0.401079	0.688638	-0.6054	0.132433	-4.57138	7.01E-06
RPL24.P83731	0.0329691	0.151436	0.217709	0.827744	-0.05509	0.389018	-0.14162	0.887469	0.30451	0.11443	2.661097	0.008194
S100A12.P80511	0.0086466	0.039757	0.217488	0.827919	0.021039	0.095503	0.220293	0.825791	0.01519	0.02845	0.533932	0.593781
RANGAP1.P46060	0.0489567	0.22562	0.216988	0.828306	-0.02863	0.567865	-0.05041	0.959828	0.511444	0.166414	3.073314	0.002305
NCLN.Q969V3	0.0775926	0.357816	0.21685	0.828413	-0.16528	0.92545	-0.17859	0.858375	0.428751	0.27424	1.563413	0.118976
TFAM.Q00059	-0.044169	0.203851	-0.21667	0.82855	0.394226	0.5306	0.74298	0.458056	0.19867	0.157581	1.260745	0.208349
NUPL2.O15504	-0.029846	0.138055	-0.21619	0.828947	0.501671	0.355338	1.411814	0.159248	-0.02101	0.10857	-0.19354	0.846694
FIP1L1.Q6UN15	0.0334004	0.154578	0.216074	0.82903	0.142912	0.398962	0.35821	0.720467	-0.23061	0.118674	-1.94326	0.053028
COPE.O14579	0.0450583	0.208917	0.215676	0.829328	0.523845	0.557893	0.93897	0.348477	0.040053	0.166184	0.241017	0.809702
C16orf91.Q4G0I0	0.0349772	0.162747	0.214917	0.829926	0.220372	0.428034	0.514848	0.607057	0.053905	0.127696	0.42214	0.67324
CCDC124.Q96CT7	-0.047921	0.223107	-0.21479	0.830018	-0.40308	0.574368	-0.70178	0.483343	-0.49573	0.168666	-2.93913	0.003539
LSM3.P62310	0.0457483	0.213113	0.214667	0.830114	0.399569	0.505838	0.789916	0.430181	0.092696	0.150537	0.615772	0.538497
BGN.P21810	-0.005533	0.025834	-0.21416	0.830508	0.028163	0.06581	0.427946	0.668987	-0.01811	0.019556	-0.92603	0.355149
RCAN1.P53805	-0.043151	0.20165	-0.21399	0.83064	0.240288	0.474238	0.506682	0.612738	0.161311	0.140838	1.145361	0.252943
CPSF4.O95639	-0.034077	0.159316	-0.2139	0.830735	0.230967	0.391422	0.590071	0.555668	-0.01112	0.114297	-0.0973	0.922563
TUBA1C.F5H5D3	0.0149289	0.069871	0.213665	0.8309	-0.11817	0.187508	-0.63021	0.529051	0.034861	0.055118	0.632491	0.527563
SBNO1.A3KN83	0.0334215	0.156469	0.213599	0.830953	-0.0856	0.402967	-0.21242	0.831936	0.293828	0.115415	2.545842	0.01143
GRIN1.Q5VSF9	-0.027271	0.127698	-0.21355	0.83104	0.378767	0.325474	1.163741	0.246078	-0.02019	0.094633	-0.2133	0.831337
RPL36AL.Q969Q0	0.0250065	0.117219	0.213331	0.831158	-0.37733	0.288199	-1.30929	0.191443	0.078612	0.084298	0.932549	0.351805
ITIH5.G5E9D8	-0.023793	0.111621	-0.21316	0.831289	-0.43908	0.266972	-1.64467	0.101051	0.012924	0.079762	0.16203	0.871388
MRPL54.Q6P161	-0.032521	0.15271	-0.21296	0.831447	0.045288	0.389021	0.116416	0.907398	0.042767	0.115704	0.369622	0.711917
PALMD.Q9NP74	-0.029083	0.136682	-0.21278	0.831595	-0.51957	0.353473	-1.46989	0.142711	0.041695	0.106737	0.390635	0.696363
MSL1.J3QQY0	0.0260863	0.122954	0.212162	0.832073	0.343951	0.322421	1.066776	0.286982	-0.01288	0.095644	-0.13471	0.892936
PTPRD.P23468.6	0.0275655	0.130113	0.211859	0.832307	0.496041	0.334988	1.480773	0.139731	0.114705	0.099945	1.147676	0.252029

TSSC1.A8MUM1	-0.061661	0.29129	-0.21168	0.83244	0.661852	0.776244	0.852634	0.394521	0.204353	0.230898	0.885037	0.376822
FAM21C.A0A096LPC5	-0.044728	0.211514	-0.21147	0.832609	0.002398	0.531542	0.004511	0.996403	-0.53532	0.155174	-3.44981	0.000639
MDH1.P40925.3	-0.049006	0.231897	-0.21133	0.832717	0.009845	0.573482	0.017168	0.986314	0.159252	0.170361	0.934791	0.350624
UBE2O.Q9COC9	0.0778806	0.368807	0.211169	0.832841	0.954348	0.936469	1.019092	0.308954	0.437298	0.277942	1.573343	0.116659
NKRF.O15226	0.0515744	0.244429	0.210999	0.832973	0.007427	0.625235	0.011879	0.990529	0.128019	0.185854	0.688813	0.491456
ATXN1L.P0C7T5	0.0298442	0.141917	0.210293	0.833583	-0.31477	0.392421	-0.80213	0.423468	-0.08325	0.113972	-0.73042	0.466024
FYCO1.Q9BQS8	-0.03017	0.143869	-0.2097	0.833986	-0.33495	0.386725	-0.86612	0.387125	-0.0371	0.112681	-0.32926	0.742195
SCP2.P22307	-0.042444	0.202496	-0.20961	0.83406	0.103361	0.497164	0.207901	0.835443	-0.194	0.147497	-1.3153	0.189381
UBE2E1.C9J2P0	-0.026025	0.124156	-0.20962	0.83408	-0.06057	0.303871	-0.19932	0.842186	0.043917	0.094346	0.465485	0.642026
CPE.P16870	0.0301594	0.143952	0.209509	0.834135	0.017413	0.367384	0.047397	0.962228	0.050817	0.109253	0.465134	0.642162
PROS1.P07225	-0.018656	0.089037	-0.20954	0.834136	0.199052	0.240327	0.828252	0.408331	0.15536	0.070314	2.209525	0.02806
TSFM.P43897	-0.034153	0.163163	-0.20932	0.834284	0.544082	0.402229	1.352666	0.177148	0.056353	0.119966	0.46974	0.638871
CBL.P22681	-0.050852	0.243059	-0.20922	0.834365	0.156712	0.612096	0.256025	0.798101	-0.14355	0.181925	-0.78907	0.430676
ARHGEF11.O15085	-0.043826	0.209462	-0.20923	0.834423	0.912571	0.54108	1.686573	0.093553	-0.10427	0.166871	-0.62488	0.532902
ADAL.Q6DHV7	0.0343456	0.164655	0.208591	0.834902	-0.08127	0.437208	-0.18589	0.85273	-0.12568	0.132326	-0.94974	0.343444
BCL2L1.Q5QP56	0.0235308	0.112851	0.208513	0.834925	0.706708	0.425032	1.662715	0.097543	0.019444	0.12172	0.15974	0.873207
NPC1.O15118	0.0291853	0.140012	0.208449	0.834963	0.182203	0.353907	0.514831	0.607038	0.012661	0.105324	0.120215	0.904391
DAGLA.Q9Y4D2	-0.050915	0.244387	-0.20834	0.835051	-0.09876	0.584871	-0.16885	0.866024	-0.29857	0.173168	-1.72416	0.085675
CLDN12.P56749	0.0291756	0.140255	0.208018	0.835356	0.296334	0.391953	0.756044	0.450606	0.141491	0.118467	1.194347	0.233905
HBG2.P69892	0.0060601	0.029152	0.207879	0.835419	0.007325	0.078961	0.092762	0.926164	0.011254	0.022854	0.492411	0.62284
ZMAT4.Q9H898	-0.020311	0.097782	-0.20772	0.835542	-0.28431	0.226423	-1.25565	0.21028	-0.02907	0.067764	-0.42892	0.668308
DOPEY1.Q5JWR5	0.0300952	0.144962	0.207607	0.835637	-0.63682	0.393763	-1.61728	0.107017	0.112922	0.121029	0.933018	0.351666
GDAP1L1.Q96MZ0	0.0576877	0.278104	0.207432	0.835756	0.427105	0.725911	0.58837	0.556712	-0.08094	0.216017	-0.37468	0.708154
WDR36.A0A0A0MTB8	-0.043014	0.207829	-0.20697	0.836132	1.730499	0.542575	3.189421	0.001599	0.032263	0.159687	0.202041	0.840041
COMTD1.Q86VU5	0.0297816	0.143971	0.206858	0.836207	0.204461	0.371063	0.551016	0.58203	0.102131	0.11048	0.924438	0.355996
SSBP4.Q9BWG4	0.026859	0.129897	0.206772	0.836301	0.369011	0.371328	0.993762	0.321392	-0.09846	0.111122	-0.88608	0.376506
C1S.P09871	0.0187186	0.090634	0.206529	0.836461	0.395656	0.230564	1.716036	0.087154	0.104665	0.068657	1.524468	0.128411
SDAD1.Q9NVU7	0.0286429	0.138761	0.206418	0.836571	-0.26109	0.365844	-0.71367	0.476128	-0.20137	0.105532	-1.90818	0.057572
RAB26.Q9ULW5	-0.029367	0.142399	-0.20623	0.836721	-0.52877	0.367214	-1.43996	0.15117	0.152239	0.10937	1.391963	0.165211
TNFAIP8L3.Q5GJ75	-0.033257	0.162043	-0.20523	0.837472	-0.15754	0.401458	-0.39241	0.695021	0.065122	0.119399	0.545417	0.585859
COPS8.Q99627	-0.076578	0.373161	-0.20521	0.837488	-0.18712	0.946104	-0.19778	0.843343	0.512574	0.279957	1.830899	0.068075
HSD17B4.P51659	0.0483876	0.235899	0.20512	0.837561	-0.09114	0.585457	-0.15567	0.876395	0.029667	0.174162	0.170343	0.864852
OVCA2.Q8WZ82	-0.022511	0.109758	-0.2051	0.837582	-0.11176	0.278772	-0.40088	0.688804	-0.01502	0.080508	-0.18659	0.852113
UROS.P10746	0.038332	0.187015	0.204968	0.83768	0.196279	0.495018	0.396509	0.692002	0.003545	0.147296	0.024065	0.980816

DYNC1L12.O43237	-0.044972	0.219609	-0.20478	0.837826	0.279715	0.595368	0.469818	0.638815	-0.01816	0.177171	-0.10253	0.918404
AGFG1.P52594	-0.045338	0.221455	-0.20473	0.837867	0.396075	0.555184	0.713413	0.476127	-0.39361	0.163774	-2.40336	0.016832
RPL37A.P61513	-0.040677	0.19879	-0.20462	0.837951	-0.51404	0.52261	-0.9836	0.326081	0.280123	0.154895	1.808473	0.071502
GNB1L.Q9BYB4	-0.029333	0.143363	-0.20461	0.837972	-0.01783	0.332292	-0.05366	0.95724	0.280356	0.09545	2.937194	0.003583
GPI.A0A0A0MTS2	-0.040638	0.198754	-0.20446	0.838074	0.725302	0.489753	1.480955	0.139634	0.167684	0.145897	1.149335	0.251304
CALML3.P27482	-0.006161	0.030191	-0.20408	0.838389	-0.08431	0.080438	-1.04809	0.295543	0.023988	0.023669	1.013458	0.311759
HLA.B.Q29836	0.0073609	0.036075	0.204045	0.838432	-0.09232	0.09894	-0.93312	0.351774	0.060867	0.027976	2.175717	0.030632
DKK3.F6SYF8	0.0208736	0.102356	0.203932	0.838489	0.438269	0.278842	1.571749	0.117029	0.091949	0.083116	1.106271	0.269467
SRF.P11831	0.0224098	0.10995	0.203819	0.838605	-0.3365	0.290988	-1.15639	0.248706	-0.15469	0.087386	-1.77021	0.077999
LRMP.Q12912	-0.022018	0.108195	-0.2035	0.838831	-0.51136	0.283645	-1.80283	0.072463	0.11396	0.082084	1.388334	0.166112
ZNF622.Q969S3	-0.028486	0.139978	-0.2035	0.838843	0.250622	0.334831	0.748502	0.454847	-0.05064	0.098316	-0.51504	0.606972
NOP2.P46087	0.0296692	0.145995	0.203221	0.839048	0.127168	0.37542	0.338736	0.735049	0.31379	0.109641	2.861977	0.004511
SUCLG2.Q96I99	0.0371489	0.183498	0.202448	0.839648	-0.14049	0.52065	-0.26983	0.787467	-0.00298	0.154902	-0.01924	0.984666
MCF2L.O15068.9	-0.051872	0.256276	-0.20241	0.83968	0.404991	0.617903	0.655428	0.512678	0.372515	0.182722	2.038698	0.042328
VAMP5.O95183	0.022508	0.111336	0.202163	0.839871	0.336818	0.283321	1.188818	0.235421	-0.16213	0.083972	-1.93074	0.054426
KXD1.M0QY77	0.0304511	0.150634	0.202152	0.839881	-0.16202	0.375217	-0.4318	0.666192	0.22009	0.111829	1.968092	0.049966
SLC7A11.Q9UPY5	-0.022506	0.111352	-0.20211	0.839912	-0.31182	0.289953	-1.07542	0.283046	-0.08912	0.085905	-1.03746	0.300352
SKIV2L2.P42285	-0.039473	0.195353	-0.20206	0.839952	0.388364	0.473509	0.820183	0.412742	0.151241	0.140752	1.074525	0.283423
UBXN10.Q96LJ8	0.0287796	0.142468	0.202008	0.840011	0.590688	0.385111	1.533814	0.12631	-0.10189	0.11661	-0.87372	0.383089
RAB6B.Q9NRW1	-0.029564	0.146484	-0.20182	0.840135	0.459081	0.365461	1.256171	0.21	0.194182	0.108435	1.790765	0.074307
ENDOG.Q14249	0.0192439	0.095371	0.20178	0.840182	0.252279	0.238111	1.059503	0.290321	-0.12209	0.06997	-1.74486	0.082151
APOA1BP.Q8NCW5	0.0381333	0.189318	0.201425	0.840448	0.443959	0.481097	0.922806	0.356826	0.298271	0.14231	2.095927	0.036899
HHATL.Q9HCP6	-0.023094	0.115041	-0.20075	0.840977	-0.10538	0.296836	-0.35502	0.722815	0.012867	0.088319	0.145689	0.884262
ELAC2.Q9BQ52	0.0257971	0.128753	0.200361	0.841285	-0.06195	0.337764	-0.18342	0.854601	-0.10415	0.097559	-1.06755	0.286636
FOCAD.Q5VW36	0.0340948	0.170273	0.200236	0.841377	-0.6031	0.465252	-1.29629	0.195839	0.293656	0.137773	2.131449	0.033838
HECTD4.F8VWT9	0.0856077	0.427978	0.200028	0.841539	-0.51759	1.129028	-0.45844	0.64696	0.61265	0.334173	1.833334	0.067712
FAHD2A.Q96GK7	0.0320992	0.1608	0.199622	0.841856	-0.27412	0.381178	-0.71914	0.472596	-0.06696	0.113424	-0.59038	0.555363
CMC2.Q9NRP2	-0.026657	0.133707	-0.19937	0.842056	-0.23119	0.361585	-0.63937	0.523053	0.055837	0.107589	0.518981	0.604145
RALB.P11234	0.0511161	0.256856	0.199007	0.842338	-0.5526	0.628277	-0.87954	0.379789	-0.10276	0.187043	-0.54941	0.583117
NDUFA7.O95182	-0.034014	0.170974	-0.19894	0.842387	0.441223	0.448132	0.984582	0.325597	0.044762	0.133495	0.335308	0.73762
DIABLO.Q9NR28	0.0378821	0.190486	0.198871	0.842444	0.173669	0.478107	0.363242	0.716672	-0.29931	0.141239	-2.11916	0.034872
TLN2.HOYMT1	0.0316191	0.159255	0.198544	0.842766	0.126091	0.463107	0.272272	0.785755	0.291374	0.126814	2.297655	0.022845
ABL1.P00519	-0.03024	0.152426	-0.19839	0.842825	-0.47337	0.405794	-1.16653	0.244374	0.009497	0.11921	0.07967	0.936556
C15orf40.Q8WUR7	0.0251408	0.126762	0.19833	0.842867	-0.13247	0.318625	-0.41574	0.677886	-0.02738	0.094799	-0.28882	0.772909

LONP1.K7EKE6	0.0421497	0.212765	0.198104	0.843043	0.597077	0.538583	1.108607	0.268459	0.066213	0.160492	0.412561	0.680214
KPTN.Q9Y664	0.0251412	0.126899	0.198119	0.84307	-0.14136	0.302908	-0.46668	0.641188	0.016362	0.086054	0.190134	0.849379
RELL1.Q8IUW5	0.0202565	0.102349	0.197915	0.843199	-0.2609	0.273588	-0.95363	0.341105	-0.06333	0.079952	-0.79206	0.429004
PSMB7.Q99436	-0.044537	0.22515	-0.19781	0.843274	0.009394	0.559947	0.016776	0.986626	0.16595	0.166308	0.997848	0.319131
TRAPPC2L.H3BP13	-0.062596	0.317956	-0.19687	0.844009	-0.3744	0.801167	-0.46732	0.640602	0.393415	0.237368	1.657406	0.098449
MRVI1.HOYI08	0.0217397	0.110454	0.196821	0.844047	-0.14949	0.284948	-0.52464	0.600209	-0.22621	0.083826	-2.69864	0.007344
GLB1.P16278	0.0349353	0.177865	0.196414	0.844365	0.201939	0.503958	0.400706	0.688913	0.300386	0.148984	2.016237	0.044637
MYH1.P12882	0.006666	0.033932	0.196452	0.844384	0.02545	0.093798	0.271328	0.786433	-0.02347	0.024832	-0.94525	0.345732
VIM.P08670	0.0127875	0.065125	0.196353	0.844413	0.049465	0.160569	0.308063	0.758242	-0.04602	0.047702	-0.96476	0.335415
RRAGD.Q9NQL2	-0.032008	0.163035	-0.19632	0.844439	-0.02152	0.407072	-0.05288	0.957865	-0.26891	0.119223	-2.25549	0.024823
OXNAD1.Q96HP4	0.0226119	0.115305	0.196105	0.844613	0.0894	0.303192	0.294864	0.768314	0.121633	0.089067	1.365644	0.173135
TSSC4.Q9Y5U2	0.0300194	0.153267	0.195863	0.844805	0.431634	0.413753	1.043217	0.297754	-0.18003	0.119961	-1.50075	0.134554
TCF20.Q9UGU0	0.0296114	0.15134	0.195661	0.844968	-0.30993	0.401764	-0.77142	0.441147	-0.19002	0.117325	-1.61963	0.106506
COL6A2.P12110	0.0070328	0.035949	0.195634	0.844975	0.022391	0.091954	0.243498	0.807781	-0.03691	0.027277	-1.35305	0.177025
SPNS1.Q9H2V7	-0.026255	0.134312	-0.19548	0.845124	0.199	0.369279	0.538889	0.59048	-0.10217	0.110642	-0.92347	0.35672
X0.P01779	-0.008905	0.045611	-0.19523	0.845291	0.099703	0.134774	0.739778	0.459995	0.031464	0.040089	0.784865	0.433132
PISD.Q9UG56	0.0214944	0.110197	0.195054	0.845429	0.498844	0.283767	1.757935	0.079745	-0.19602	0.084102	-2.33079	0.020405
FGG.P02679	-0.007761	0.039807	-0.19496	0.8455	0.077979	0.099471	0.783938	0.433675	0.060323	0.029421	2.050324	0.041174
VSTM2B.A6NLU5	0.0227444	0.116685	0.194921	0.845537	-0.20154	0.311647	-0.6467	0.518332	0.102518	0.093438	1.097182	0.27346
PDIA3.H7BZJ3	0.0475234	0.244247	0.194571	0.845807	-1.36912	0.587955	-2.32861	0.020522	0.238976	0.175907	1.358539	0.175281
FSCN1.Q16658	0.039385	0.202582	0.194416	0.845929	-0.34382	0.504291	-0.68178	0.495887	0.258356	0.149411	1.729159	0.084776
EMD.P50402	-0.063839	0.328509	-0.19433	0.845995	-0.4392	0.850995	-0.5161	0.606151	-0.55853	0.25127	-2.22281	0.026949
FEN1.P39748	0.016414	0.084642	0.193922	0.846315	-0.12355	0.198411	-0.62271	0.533935	0.009075	0.059059	0.153657	0.87798
PA2G4.Q9UQ80	-0.056563	0.291752	-0.19387	0.846353	-0.10332	0.733746	-0.14081	0.888111	0.306238	0.217589	1.407412	0.160307
FAF2.Q96CS3	-0.071998	0.371769	-0.19366	0.846517	0.89323	1.005842	0.888042	0.375207	0.003219	0.299601	0.010743	0.991436
NCEH1.Q6PIU2	-0.046817	0.241802	-0.19362	0.846552	-0.26554	0.635162	-0.41806	0.676193	0.29444	0.188261	1.563998	0.118838
PRKAA2.P54646	-0.035973	0.185897	-0.19351	0.846637	0.264707	0.475493	0.556699	0.578135	0.157048	0.14124	1.11192	0.267034
MFGE8.Q08431	0.0126153	0.06537	0.192984	0.847053	-0.10927	0.17518	-0.62374	0.533283	-0.00249	0.052241	-0.04768	0.962001
AGRN.O00468.3	0.0405814	0.210327	0.192944	0.84708	-0.44075	0.533067	-0.82682	0.408976	0.310648	0.157769	1.969003	0.049843
MAP3K10.Q02779	-0.052409	0.271798	-0.19282	0.847176	0.024328	0.64927	0.03747	0.970135	-0.37491	0.191969	-1.95299	0.05172
SZT2.Q5T011	-0.030905	0.160299	-0.19279	0.847205	-0.30432	0.424714	-0.71652	0.474249	-0.06486	0.126409	-0.51308	0.608286
SLC6A8.P48029	-0.031491	0.163392	-0.19273	0.847254	-0.15531	0.489331	-0.31738	0.751182	-0.10455	0.147007	-0.71116	0.477559
KIFC3.Q9BVG8	-0.013162	0.068291	-0.19273	0.847277	0.001349	0.177743	0.007588	0.993952	0.033372	0.053223	0.627012	0.531293
HOOK3.HOYDM4	0.0248238	0.128984	0.192456	0.847462	-0.0098	0.307254	-0.03188	0.974586	0.03113	0.091386	0.340648	0.733599

ZNF318.Q5VUA4	0.0364177	0.189231	0.192451	0.847519	-0.29843	0.481788	-0.61943	0.536383	-0.07766	0.144414	-0.53778	0.591367
LRWD1.Q9UFC0	0.0308832	0.1608	0.192059	0.847786	-0.09624	0.387756	-0.24821	0.804165	0.096277	0.113005	0.851973	0.394999
NGB.Q9NPG2	-0.02916	0.151828	-0.19206	0.847818	-0.3499	0.350415	-0.99854	0.319194	0.226718	0.109279	2.074681	0.039265
ATG14.Q6ZNE5	-0.028929	0.150723	-0.19193	0.847881	-0.006	0.391851	-0.01532	0.987791	-0.02192	0.117291	-0.18686	0.851903
CCDC9.Q9Y3X0	0.0421455	0.21961	0.191911	0.847892	-0.57684	0.577501	-0.99886	0.318663	-0.27117	0.170644	-1.5891	0.113088
FAM3C.Q92520	-0.03856	0.201032	-0.19181	0.847967	-0.21636	0.514289	-0.4207	0.674265	-0.09691	0.152937	-0.63365	0.526777
C9orf89.Q96LW7.2	0.0266675	0.139049	0.191785	0.848003	0.330062	0.367302	0.89861	0.369705	-0.10521	0.107565	-0.97814	0.328926
ZNF384.Q8TF68	0.0337683	0.176259	0.191584	0.848222	0.153474	0.45072	0.340509	0.733928	0.060088	0.136418	0.440471	0.660202
SYNDIG1.Q9H7V2	0.0305159	0.159793	0.190971	0.848632	-0.30799	0.428438	-0.71886	0.472812	0.013227	0.126811	0.104307	0.916999
FKBP8.Q14318.2	-0.024795	0.129923	-0.19084	0.848729	-0.20234	0.323226	-0.62599	0.531793	0.046583	0.096699	0.481734	0.630344
PBLD.P30039	0.0200241	0.10511	0.190506	0.848989	0.04588	0.259956	0.176492	0.860023	-0.02308	0.077325	-0.29847	0.765542
SPRYD7.Q5W111	-0.046445	0.243829	-0.19048	0.849008	-0.04896	0.581026	-0.08426	0.932903	0.277033	0.172129	1.609447	0.108537
CLEC3B.E9PHK0	-0.016782	0.088129	-0.19043	0.849048	-0.09589	0.216902	-0.4421	0.658725	-0.01013	0.064542	-0.15688	0.875443
STOM.P27105	0.0206474	0.108886	0.189624	0.84968	0.1186	0.290859	0.407757	0.683733	-0.11302	0.08631	-1.30942	0.19136
AKT1S1.Q96B36	-0.019477	0.102805	-0.18945	0.84982	-0.08595	0.309128	-0.27805	0.781172	-0.16107	0.088759	-1.81475	0.070607
SHROOM1.A6NN40	0.0224178	0.118312	0.18948	0.849832	0.133474	0.311357	0.428685	0.668594	0.068139	0.087021	0.783012	0.434506
KAT6A.Q92794	-0.012467	0.065855	-0.18931	0.849949	0.005244	0.164796	0.031823	0.974639	0.064289	0.047084	1.365414	0.173365
X0.P01714	0.0079402	0.041989	0.189102	0.850095	0.196114	0.103305	1.898388	0.058648	-0.00617	0.030603	-0.20177	0.840238
LMBRD1.Q9NUN5	0.0265503	0.140637	0.188786	0.850337	-0.26323	0.369506	-0.71238	0.476766	-0.04894	0.109976	-0.44497	0.656654
ANO8.Q9HCE9.2	-0.041051	0.217753	-0.18852	0.850544	0.076901	0.58674	0.131064	0.89581	-0.47318	0.172468	-2.74357	0.006431
SERPIND1.P05546	0.0119796	0.063579	0.188422	0.850629	-0.27181	0.156581	-1.73588	0.083669	0.095144	0.046454	2.048104	0.041469
PFKFB2.O60825.2	-0.030883	0.163917	-0.18841	0.850634	0.222729	0.421105	0.528917	0.597242	-0.2137	0.124739	-1.7132	0.087676
PDCL3.Q9H2J4	0.0421397	0.223861	0.18824	0.850764	-0.66389	0.588698	-1.12772	0.260309	0.377793	0.174169	2.169115	0.030834
WLS.Q5T9L3	0.0270033	0.143517	0.188154	0.850835	-0.43474	0.368954	-1.17829	0.23963	0.105272	0.110257	0.95479	0.340466
PRDM11.A0A087WWZ6	-0.022197	0.117936	-0.18821	0.85084	-0.01121	0.315136	-0.03556	0.971673	0.065518	0.084283	0.777367	0.43798
TOR1B.O14657	-0.028178	0.150432	-0.18731	0.851532	-0.4645	0.361939	-1.28336	0.200802	0.134063	0.109017	1.229749	0.220187
C7orf50.Q9BRJ6	0.0350343	0.18719	0.187159	0.851691	0.030022	0.521764	0.05754	0.954186	0.149884	0.153985	0.973368	0.331813
SLC25A17.O43808	-0.0238	0.127486	-0.18668	0.852046	0.074186	0.29067	0.255223	0.798852	-0.14655	0.089122	-1.64433	0.101914
ITPK1.Q13572	-0.03871	0.2077	-0.18637	0.852228	0.075258	0.521993	0.144174	0.885457	-0.10061	0.155184	-0.64835	0.517236
USP39.Q53GS9	-0.03178	0.170784	-0.18608	0.852456	0.307256	0.411879	0.745985	0.456242	-0.04588	0.122609	-0.37419	0.708521
DUT.P33316	-0.039918	0.214861	-0.18579	0.852687	0.300194	0.527958	0.568594	0.570043	-0.05005	0.157114	-0.31853	0.7503
PRPF40A.O75400.3	0.0192628	0.103662	0.185822	0.852706	0.27168	0.265327	1.023946	0.307177	0.077793	0.075555	1.029618	0.304512
RIT2.Q99578	-0.030169	0.162443	-0.18572	0.852742	-1.15508	0.387114	-2.98383	0.003088	0.146522	0.11421	1.282922	0.20054
ABHD10.Q9NUJ1	-0.035373	0.190528	-0.18566	0.852787	0.421866	0.526556	0.801178	0.423642	-0.01376	0.156801	-0.08775	0.930134

KLC1.Q07866.3	0.0142752	0.076872	0.1857	0.852825	0.167645	0.217969	0.76912	0.443	-0.25019	0.06048	-4.13675	5.78E-05
USP14.P54578	0.0465791	0.252205	0.184688	0.853548	0.51222	0.671194	0.763147	0.445956	0.183578	0.199584	0.919802	0.358391
PPM1E.Q8WY54	0.0432001	0.233983	0.184629	0.853594	0.495815	0.597482	0.829842	0.407267	-0.24559	0.17739	-1.38446	0.167214
SLC29A1.Q99808	0.0213068	0.115492	0.184488	0.853712	-0.00342	0.316574	-0.01079	0.9914	0.114245	0.09465	1.207027	0.228437
PIGS.Q96S52	0.0382197	0.208312	0.183473	0.8545	-0.13875	0.490168	-0.28307	0.777315	0.038853	0.145818	0.266447	0.790072
FKBP10.Q96AY3	0.0228686	0.124676	0.183424	0.854565	-0.23172	0.330675	-0.70075	0.484197	-0.0926	0.089417	-1.03564	0.301509
SPATA2L.Q8IUW3	0.0177953	0.097133	0.183204	0.85474	0.015659	0.267878	0.058455	0.953439	-0.12211	0.075473	-1.61792	0.107101
KIAA1841.Q6NSI8	-0.038665	0.21149	-0.18282	0.855016	0.696587	0.565171	1.232523	0.218745	0.139977	0.167441	0.835978	0.403851
FRMD5.Q7Z6J6	0.0376527	0.206048	0.182737	0.855078	-0.27152	0.507886	-0.53461	0.593306	0.033034	0.151145	0.218559	0.827137
NDRG4.Q9ULP0	0.0167139	0.091576	0.182515	0.855278	0.274823	0.236741	1.160858	0.246946	0.054743	0.066714	0.820555	0.41278
SKAP2.O75563	0.0260701	0.142806	0.182556	0.855285	0.444227	0.360647	1.231748	0.219765	0.162183	0.103914	1.560741	0.120467
SPG7.Q9UQ90	-0.048334	0.264969	-0.18242	0.85533	0.648673	0.748163	0.867021	0.386601	-0.22894	0.222455	-1.02913	0.304219
CORO2B.Q9UQ03	-0.045691	0.250541	-0.18237	0.855365	0.054731	0.617909	0.088574	0.929477	-0.09508	0.18374	-0.51747	0.605198
ATF2.B8ZZU6	0.0269465	0.147766	0.18236	0.855377	0.089739	0.428253	0.209547	0.834165	-0.63134	0.123995	-5.09161	6.33E-07
NAA25.Q14CX7	0.0464968	0.255008	0.182335	0.855398	0.054027	0.675755	0.079951	0.936332	-0.04503	0.195691	-0.23013	0.818152
CYTH2.Q99418	0.0414086	0.227161	0.182288	0.85543	0.154405	0.546323	0.282625	0.777653	-0.13909	0.16235	-0.85671	0.392265
HERC1.Q15751	-0.069246	0.380876	-0.18181	0.855808	0.540254	1.087172	0.496936	0.619587	0.494003	0.322324	1.532626	0.126388
APC.P25054	-0.066303	0.365088	-0.18161	0.855963	-0.62127	0.966515	-0.6428	0.520831	-1.09527	0.280907	-3.89903	0.000118
BAIAP2L2.Q6UXY1	-0.027209	0.149902	-0.18151	0.856097	-0.14475	0.426155	-0.33967	0.7345	-0.20103	0.119381	-1.68391	0.093932
MTFMT.Q96DP5	-0.017576	0.097176	-0.18087	0.856549	-0.17651	0.266245	-0.66295	0.507885	-0.05563	0.08057	-0.69042	0.490477
GNA15.P30679	-0.027015	0.149436	-0.18078	0.856658	-0.54019	0.411571	-1.31251	0.190845	0.004571	0.123182	0.037111	0.970433
PUSL1.Q8N0Z8	-0.024742	0.136977	-0.18063	0.856748	0.79248	0.354175	2.23754	0.026158	0.094097	0.100931	0.932293	0.352111
PRX.Q9BXM0	0.0170592	0.094557	0.180412	0.856915	-0.6188	0.248013	-2.49502	0.013214	-0.05082	0.074281	-0.6841	0.494516
PAG1.Q9NWQ8	0.0382673	0.212315	0.180238	0.857038	-0.14087	0.517282	-0.27233	0.785553	-0.2954	0.152983	-1.93092	0.054404
UBQLN4.Q9NRR5	-0.031972	0.177402	-0.18023	0.857048	0.20725	0.506194	0.409429	0.682508	-0.14272	0.150406	-0.9489	0.343411
ITGB2.P05107	0.0195446	0.10859	0.179985	0.857237	-0.16923	0.276935	-0.61109	0.541587	0.188152	0.081737	2.30191	0.022003
FARP2.O94887	0.0318541	0.177159	0.179805	0.857388	0.874669	0.49077	1.782238	0.075834	-0.2882	0.144372	-1.99621	0.046915
NEU1.Q99519	0.0199252	0.110908	0.179656	0.857535	-0.69511	0.328601	-2.11535	0.035608	0.100903	0.101616	0.992984	0.321889
MVB12A.Q96EY5	0.018632	0.10383	0.179448	0.857707	0.405042	0.307988	1.315123	0.19007	0.203244	0.090272	2.25146	0.025514
RAB32.Q13637	0.0302932	0.169464	0.178759	0.858213	-0.23012	0.431638	-0.53313	0.594402	0.245645	0.124847	1.96757	0.050189
CYB5B.J3KNF8	0.0221147	0.123728	0.178737	0.858216	-0.11405	0.31558	-0.3614	0.718048	-0.0175	0.093894	-0.18637	0.852277
ACP1.P24666	-0.024494	0.137283	-0.17842	0.858466	-0.02424	0.348302	-0.06959	0.944568	0.129534	0.103353	1.253317	0.211035
PIK3R1.P27986	0.0699072	0.391842	0.178407	0.858475	0.317482	0.987241	0.321585	0.747984	0.992462	0.288276	3.442743	0.000655
SMG7.E9PD50	0.0349183	0.195807	0.17833	0.858544	0.47753	0.562634	0.848741	0.396769	-0.1051	0.162018	-0.64866	0.517101

TGFB2.P61812	0.02655	0.149103	0.178065	0.858799	0.31349	0.418596	0.748907	0.454854	0.225065	0.124674	1.805231	0.072647
ORC2.Q13416	-0.032237	0.181254	-0.17785	0.858923	-0.54714	0.475727	-1.15011	0.25116	-0.24277	0.14428	-1.68261	0.093656
RPL37.P61927	0.0192402	0.108367	0.177546	0.859151	-0.30023	0.277255	-1.08287	0.279707	-0.02878	0.082618	-0.34831	0.727847
COL2A1.P02458	-0.004329	0.024418	-0.1773	0.859344	-0.01962	0.062815	-0.31234	0.754992	-0.02361	0.018561	-1.27222	0.204251
SCOC.Q9UIL1	0.0162339	0.091582	0.177261	0.85939	0.06291	0.216795	0.290181	0.771915	-0.06697	0.06253	-1.07106	0.28516
RABEP2.Q9H5N1	0.0456949	0.258377	0.176853	0.859695	-0.02098	0.686454	-0.03056	0.975639	0.033523	0.204199	0.164168	0.869706
TMEM199.Q8N511	-0.013812	0.078171	-0.1767	0.859818	-0.12412	0.214997	-0.57733	0.564138	0.090736	0.063784	1.422544	0.155874
PYURF.Q96I23	0.0093297	0.052837	0.176577	0.859916	0.255441	0.146142	1.747891	0.08153	-0.01734	0.043259	-0.40092	0.688769
MAFG.O15525	0.0265284	0.150305	0.176497	0.859994	-0.39577	0.38891	-1.01764	0.30987	0.007262	0.111357	0.065212	0.948059
AP4M1.O00189	0.0320595	0.181701	0.176441	0.860073	0.205128	0.447557	0.458329	0.647266	0.18587	0.134316	1.383825	0.168116
TRAPPC3.O43617	0.0512958	0.29092	0.176323	0.860111	0.420546	0.729396	0.576568	0.56465	0.202629	0.216794	0.934664	0.350689
EEF2.P13639	0.0427722	0.243787	0.175449	0.860797	-0.48072	0.614833	-0.78188	0.434883	0.53153	0.180576	2.94352	0.00349
RPL28.P46779	-0.027209	0.155187	-0.17533	0.86089	-0.35497	0.396277	-0.89577	0.371071	-0.10425	0.117889	-0.88434	0.377198
ALG9.Q9H6U8	0.0331438	0.189076	0.175294	0.860919	0.247168	0.472818	0.522756	0.601518	-0.30446	0.13965	-2.18014	0.029999
RUFY3.Q7L099.4	0.0247963	0.141836	0.174824	0.861327	0.31354	0.371377	0.844262	0.399522	0.034648	0.109962	0.315096	0.753014
TAC3.Q9UHF0	-0.018653	0.107115	-0.17414	0.861829	0.184523	0.29259	0.630654	0.528765	0.025961	0.085623	0.303202	0.761954
UPF2.Q9HAU5	0.0376637	0.216336	0.174098	0.861858	0.463186	0.562862	0.822912	0.411191	0.253836	0.167003	1.51995	0.129543
ANTXR2.P58335	-0.023956	0.137644	-0.17404	0.861948	0.81436	0.518341	1.571088	0.117835	0.199763	0.156668	1.275069	0.20385
SGCE.C9JR67	0.0325701	0.187287	0.173905	0.862013	-0.29245	0.484561	-0.60353	0.546622	-0.08012	0.144422	-0.55473	0.579497
PSMD13.Q9UNM6	-0.059973	0.345142	-0.17376	0.862122	-1.38699	0.85503	-1.62215	0.105788	0.162401	0.255267	0.636202	0.525114
PPP1R12C.Q9BZL4.3	-0.038419	0.221107	-0.17376	0.862128	0.358073	0.552756	0.647797	0.517596	-0.66207	0.160192	-4.13297	4.61E-05
HMG20A.Q9NP66	0.0364399	0.210128	0.173417	0.862414	-0.68433	0.528163	-1.29568	0.196367	-0.07321	0.149888	-0.48845	0.625691
DCTN4.Q9UJW0	0.0547363	0.315759	0.173348	0.862447	0.585552	0.871812	0.671649	0.502307	0.105963	0.259468	0.408385	0.683273
RRAGA.Q7L523	-0.034432	0.198812	-0.17319	0.862574	0.355687	0.506419	0.702358	0.482983	0.039847	0.150753	0.264321	0.791708
SIL1.Q9H173	0.0261491	0.150963	0.173215	0.862614	-0.46297	0.417822	-1.10805	0.269474	0.027279	0.122301	0.223045	0.823779
HM13.Q8TCT9.2	-0.032178	0.18613	-0.17288	0.862816	-0.38501	0.487395	-0.78995	0.430164	0.176462	0.144791	1.218741	0.223869
MRPL3.P09001	-0.021024	0.121964	-0.17238	0.863209	0.441153	0.307858	1.432976	0.152872	-0.11633	0.091647	-1.26932	0.20528
FAM195A.Q9BUT9	-0.018925	0.110478	-0.1713	0.864112	-0.1655	0.273203	-0.60576	0.54544	-0.13994	0.08953	-1.5631	0.119796
PTEN.P60484.2	-0.0531	0.31013	-0.17122	0.86412	0.489564	0.769484	0.636224	0.5251	0.102875	0.228983	0.449268	0.653553
CHN1.P15882	-0.035608	0.208724	-0.1706	0.864609	-0.18021	0.517997	-0.34789	0.728158	0.382551	0.152586	2.50712	0.012683
BTBD10.B7Z503	-0.033987	0.199461	-0.17039	0.864792	-0.2551	0.562304	-0.45367	0.650487	-0.1216	0.166203	-0.73162	0.465128
HSP90AA1.P07900	-0.027731	0.162839	-0.1703	0.864845	-0.50373	0.406115	-1.24037	0.215775	0.343958	0.119525	2.877694	0.004284
TGFBR3.Q03167	-0.02004	0.118195	-0.16955	0.865437	-0.11873	0.307837	-0.38568	0.700031	0.120005	0.089432	1.341862	0.180747
PPP2R2D.Q66LE6	0.0521377	0.307629	0.169482	0.865485	0.571686	0.733368	0.779535	0.436259	0.501201	0.216515	2.31486	0.021274

ELMOD2.Q8IZ81	-0.041571	0.245765	-0.16915	0.865748	-0.30595	0.611405	-0.50041	0.617143	-0.03566	0.181944	-0.196	0.844737
QRSL1.Q9H0R6	0.0312176	0.184691	0.169027	0.865844	-0.00796	0.460359	-0.01729	0.986218	0.29432	0.135925	2.165318	0.031126
AKAP7.O43687.2	0.0212995	0.126026	0.16901	0.865863	0.43413	0.313296	1.385686	0.16693	-0.03636	0.091876	-0.39573	0.692604
GAS6.Q14393.2	0.0220847	0.130709	0.168961	0.86592	0.320675	0.346639	0.925099	0.355876	-0.05551	0.104831	-0.52949	0.596975
FGF2.P09038.1	-0.027206	0.161498	-0.16846	0.866294	0.424667	0.445557	0.953115	0.341348	-0.00378	0.135277	-0.02792	0.977748
HLA.B.P18463	-0.004457	0.026468	-0.16839	0.866355	-0.11241	0.063504	-1.77017	0.077867	0.011511	0.018457	0.623636	0.533411
NOS1AP.O75052	0.0190631	0.113217	0.168376	0.866374	-0.40137	0.307326	-1.30601	0.19276	0.053818	0.090486	0.594766	0.552542
ZNRF2.Q8NHG8	-0.027602	0.164034	-0.16827	0.866437	-0.6139	0.429459	-1.42946	0.153878	-0.03655	0.12816	-0.28517	0.775708
SLC11A2.P49281.3	0.0240384	0.142957	0.168151	0.866554	-0.19651	0.350107	-0.56128	0.575168	0.132567	0.096744	1.370285	0.171976
RANBP10.Q6VN20	-0.024689	0.146856	-0.16812	0.866565	-0.64792	0.376111	-1.72269	0.086017	0.038799	0.115214	0.336754	0.736547
PEX1.O43933	-0.025481	0.151633	-0.16804	0.866618	0.279194	0.470593	0.593282	0.553425	-0.18711	0.139669	-1.33968	0.181332
FAM168A.Q92567	-0.025113	0.149574	-0.1679	0.866743	-0.41084	0.393868	-1.04309	0.297879	-0.33376	0.121073	-2.75666	0.006255
VAMP1.P23763	0.0189077	0.112713	0.16775	0.866847	0.377817	0.297237	1.271096	0.204647	-0.10935	0.088435	-1.23646	0.217222
PHACTR4.Q8IZ21	0.0280592	0.167239	0.167779	0.866851	0.096857	0.412032	0.235071	0.814356	-0.22984	0.132587	-1.73349	0.084309
THBS1.P07996	0.011447	0.068275	0.16766	0.866929	-0.20767	0.195037	-1.06477	0.287952	0.04476	0.057427	0.779432	0.436424
SLC25A19.Q9HC21	-0.029221	0.174311	-0.16764	0.866937	0.14173	0.476193	0.297632	0.766196	0.073081	0.138877	0.526226	0.59913
C4orf48.Q5BLP8	0.0297006	0.177289	0.167527	0.867072	0.110244	0.432754	0.254751	0.799205	0.351301	0.125305	2.803568	0.005605
MYO6.A0A0A0MRM8	-0.017165	0.102484	-0.16749	0.867114	0.019141	0.252084	0.07593	0.939566	-0.16454	0.07939	-2.0725	0.039756
STIP1.P31948	-0.036679	0.219179	-0.16735	0.867163	-0.36004	0.553868	-0.65004	0.516146	0.268975	0.164169	1.638401	0.102353
CCNK.O75909	-0.023105	0.138051	-0.16737	0.867182	-0.16991	0.352385	-0.48216	0.630204	0.063359	0.108007	0.586626	0.558097
PPP1R3D.O95685	-0.025475	0.152267	-0.1673	0.867198	0.220228	0.397458	0.554091	0.579916	-0.35066	0.116607	-3.0072	0.002852
PSMG3.Q9BT73	-0.019499	0.11656	-0.16729	0.867213	-0.06745	0.286209	-0.23566	0.813857	-0.05446	0.086158	-0.63211	0.527796
CYP2U1.Q7Z449	-0.02772	0.165669	-0.16732	0.867249	0.571045	0.457004	1.24954	0.213237	-0.07329	0.131088	-0.55912	0.576835
ISCA1.Q9BUE6	0.0356522	0.213211	0.167216	0.867267	-0.2231	0.562212	-0.39682	0.691774	0.12897	0.16713	0.771674	0.440896
KIAA1211.Q6ZU35	-0.033879	0.202834	-0.16703	0.867417	-0.30788	0.505131	-0.6095	0.542651	-0.50253	0.147825	-3.39951	0.000766
NDUFA6.P56556	-0.025639	0.153629	-0.16689	0.867524	0.562985	0.392479	1.434435	0.152456	0.041784	0.117118	0.356769	0.721507
INPP5F.Q9Y2H2	-0.042397	0.254115	-0.16684	0.867562	0.40111	0.615612	0.651562	0.515166	-0.31519	0.182383	-1.72817	0.084954
RRP9.O43818	0.0268583	0.161095	0.166724	0.867658	0.027699	0.416512	0.066503	0.947022	0.145568	0.124132	1.172687	0.241858
PREP.P48147	-0.042583	0.255462	-0.16669	0.867681	1.372068	0.633313	2.166495	0.031035	0.342027	0.188824	1.811359	0.071053
MARK2.Q7KZ17	-0.054986	0.329973	-0.16664	0.867721	-0.39687	0.843329	-0.4706	0.63826	-0.24558	0.250577	-0.98004	0.327828
C4orf3.Q8WVX3	0.0224753	0.134911	0.166594	0.86778	-0.6171	0.384534	-1.60479	0.1099	-0.55755	0.10298	-5.41418	1.53E-07
ERGIC1.Q969X5	0.0404955	0.243609	0.166232	0.868041	-0.42637	0.578855	-0.73658	0.461933	0.439372	0.170533	2.576457	0.010444
TRIM26.Q12899	0.02078	0.125132	0.166065	0.868173	-0.0905	0.347327	-0.26057	0.7946	0.065401	0.103268	0.633316	0.526994
COMMD10.D6RJ90	-0.054086	0.325765	-0.16603	0.868203	1.718929	0.860542	1.997494	0.046645	0.628597	0.255153	2.463612	0.014297

HEXA.P06865	-0.023191	0.139717	-0.16599	0.868235	0.780441	0.349244	2.23466	0.026152	-0.03176	0.104712	-0.30331	0.761855
PLXNA2.O75051	0.0432836	0.262059	0.165168	0.868878	0.445778	0.656182	0.679352	0.497422	0.350426	0.194331	1.803241	0.072321
VWA5B2.Q8N398	0.0184339	0.111641	0.165117	0.868944	0.096851	0.291653	0.332076	0.740138	0.055649	0.088046	0.632047	0.527992
TMEM189.UBE2V1.I3L0A0	0.0625383	0.378999	0.165009	0.869003	-0.13435	0.958426	-0.14018	0.888607	0.260056	0.284741	0.913307	0.361791
SERPINA6.P08185	0.0147424	0.089428	0.164852	0.869164	-0.18766	0.214311	-0.87564	0.382315	0.044807	0.0658	0.680956	0.496716
SNX19.Q92543	-0.027741	0.168353	-0.16478	0.8692	-0.51183	0.422303	-1.21199	0.226659	0.097465	0.121146	0.80452	0.421861
MUL1.Q969V5	-0.034172	0.20767	-0.16455	0.869363	-0.3456	0.541263	-0.63851	0.523612	-0.08461	0.16105	-0.52537	0.5997
TMEM51.Q9NW97	0.0171499	0.104306	0.164419	0.869475	-0.07772	0.306843	-0.25327	0.800244	-0.31175	0.08695	-3.58538	0.000398
MICU1.F6XEV2	0.04021	0.244627	0.164373	0.869504	0.424057	0.619945	0.684023	0.494471	0.248525	0.184021	1.350521	0.177834
APOA4.P06727	0.007054	0.043	0.164048	0.869759	-0.0757	0.107665	-0.70311	0.482514	0.031066	0.032006	0.970636	0.332486
TRPM4.Q8TD43	0.0159978	0.09772	0.16371	0.870064	0.224702	0.289396	0.776453	0.438418	-0.00932	0.083865	-0.11112	0.911636
KIAA1467.A2RU67	-0.043565	0.266339	-0.16357	0.870136	-1.18241	0.72907	-1.6218	0.105863	0.366813	0.216805	1.691905	0.091669
RNF11.Q9Y3C5	-0.027326	0.16765	-0.16299	0.870593	-0.4443	0.436431	-1.01804	0.309506	0.159391	0.12996	1.226457	0.221018
LPHN2.B1ALU1	-0.034242	0.210314	-0.16281	0.87073	-0.03662	0.513555	-0.07131	0.943193	0.033467	0.152763	0.21908	0.826732
IGJ.P01591	-0.00595	0.036653	-0.16232	0.871118	0.077478	0.092643	0.836306	0.403627	0.03898	0.027502	1.41736	0.157382
CHMP6.Q96FZ7	-0.047648	0.293749	-0.16221	0.871209	1.211482	0.789351	1.534782	0.125857	0.024172	0.235704	0.102552	0.918385
COL23A1.Q86Y22	-0.002782	0.017194	-0.16178	0.871546	-0.03518	0.043595	-0.80704	0.420264	-0.01167	0.01291	-0.90406	0.36667
FLYWCH2.Q96CP2	0.0200747	0.124354	0.161432	0.871821	0.01215	0.316243	0.038419	0.969379	-0.20726	0.094702	-2.18854	0.029409
CELF5.Q8N6W0.2	0.0185538	0.114972	0.161378	0.871872	-0.32185	0.273222	-1.178	0.239835	0.108574	0.079372	1.367913	0.172477
CRTAC1.Q9NQ79	0.0282628	0.175526	0.161018	0.872144	-0.67471	0.468166	-1.44119	0.150541	0.290599	0.138759	2.094277	0.037047
LIMCH1.G5EA03	-0.006109	0.037914	-0.16112	0.872148	0.041282	0.096554	0.427549	0.669727	0.023677	0.023955	0.988385	0.324904
DCP1A.Q9NPI6	0.0282861	0.175818	0.160883	0.872259	0.373928	0.41045	0.91102	0.36308	-0.29489	0.119174	-2.47444	0.013946
PON2.J3QT77	0.0201501	0.125569	0.160471	0.872574	0.18823	0.339895	0.553789	0.580123	0.09789	0.10101	0.969118	0.333242
NDUFAB2.Q8N183	-0.030193	0.188181	-0.16045	0.872595	-0.2357	0.475266	-0.49594	0.620288	0.089729	0.141347	0.634811	0.52602
BRPF1.P55201	-0.035139	0.218943	-0.1605	0.872602	-0.56645	0.605549	-0.93542	0.350809	0.072983	0.182465	0.399984	0.689638
IQSEC3.Q9UPP2	-0.039867	0.248667	-0.16032	0.872693	0.166965	0.661276	0.25249	0.80083	-0.48705	0.194784	-2.50049	0.012918
C1orf123.Q9NWV4	-0.024688	0.154007	-0.16031	0.872704	0.548862	0.383627	1.430719	0.153518	0.083165	0.114401	0.726962	0.467798
C1orf50.Q9BV19	-0.026241	0.16398	-0.16003	0.872934	0.558744	0.412524	1.35445	0.176725	-0.20948	0.118373	-1.7697	0.077906
SH3GLB1.Q9Y371.2	-0.040926	0.255856	-0.15996	0.872979	0.350716	0.685882	0.511337	0.609479	-0.16185	0.203917	-0.7937	0.427978
CLSTN1.O94985.2	0.025101	0.156935	0.159946	0.872988	-0.26648	0.402888	-0.66144	0.508824	0.027686	0.119926	0.230857	0.817578
SPIRE2.Q8WWL2	0.0195363	0.122128	0.159967	0.872988	0.60677	0.324964	1.86719	0.063064	-0.00301	0.096264	-0.03128	0.975075
ISCA2.Q86U28	0.0421011	0.264258	0.159318	0.873482	0.655774	0.673694	0.9734	0.331113	-0.01823	0.200715	-0.09083	0.927686
OLA1.Q9NTK5	0.0359963	0.225959	0.159304	0.873493	-0.2377	0.576126	-0.41259	0.680193	0.304061	0.170562	1.782699	0.075614
RAPGEF3.O95398	0.0203406	0.127702	0.159282	0.873514	-0.01438	0.333733	-0.04309	0.965655	0.048076	0.100323	0.479215	0.632139

ZNF512B.Q96KM6	0.0213855	0.134303	0.159233	0.873553	-0.35321	0.345427	-1.02252	0.307382	-0.25397	0.100529	-2.52636	0.012054
CNOT6L.Q96LI5	0.0291806	0.183262	0.159229	0.873585	-0.07912	0.478308	-0.16541	0.868783	0.045436	0.144184	0.315124	0.75299
SCAMP2.O15127	0.0248788	0.156595	0.158874	0.873832	-0.69795	0.428527	-1.62872	0.104387	-0.30722	0.126829	-2.42233	0.015994
NOL3.H3BUN4	0.0269545	0.16985	0.158696	0.873972	0.153331	0.503233	0.304692	0.760806	-0.46174	0.147411	-3.13235	0.0019
MAP4K4.E7EN19	-0.035011	0.220844	-0.15853	0.8741	0.104303	0.605104	0.172372	0.863258	-0.64725	0.176223	-3.67289	0.000282
AMFR.Q9UKV5	0.0264496	0.167001	0.15838	0.874233	0.038058	0.437082	0.087072	0.93068	-0.09314	0.130104	-0.71588	0.4747
OPTN.Q96CV9.2	-0.013614	0.086357	-0.15765	0.874836	0.070211	0.276115	0.25428	0.799546	-0.03794	0.077891	-0.48712	0.626718
HYPK.Q9NX55	0.0306609	0.194615	0.157547	0.874877	-0.81844	0.478576	-1.71016	0.088236	-0.36752	0.141507	-2.59719	0.009847
PACSIN2.Q9UNF0.2	0.0330139	0.209833	0.157334	0.875045	0.814198	0.506835	1.606436	0.109196	0.220884	0.15088	1.46397	0.144215
PFDN6.O15212	-0.051886	0.330523	-0.15698	0.875321	0.997137	0.80531	1.238203	0.216578	0.310484	0.239509	1.296335	0.195824
DENND4C.R4GNB2	0.0390849	0.24921	0.156835	0.875437	0.428275	0.63169	0.677983	0.498288	-0.25548	0.187495	-1.3626	0.173999
ZYX.Q15942	-0.033264	0.212192	-0.15676	0.875495	-0.06143	0.549949	-0.11169	0.911138	-0.11651	0.163469	-0.71274	0.476541
GPC6.Q9Y625	-0.017138	0.109316	-0.15677	0.875537	-0.01157	0.307746	-0.03758	0.97006	0.057323	0.090151	0.635855	0.525683
GC.P02774	0.0083144	0.053213	0.156247	0.875901	-0.02685	0.128525	-0.20893	0.834636	0.071328	0.038021	1.876007	0.061594
SYT5.O00445	0.0222597	0.14281	0.155869	0.876199	-0.51553	0.346681	-1.48705	0.138019	-0.01328	0.103496	-0.12832	0.897978
MAP1A.E9PGC8	-0.031658	0.203531	-0.15555	0.876453	-0.06199	0.537668	-0.11529	0.908289	-0.11314	0.159821	-0.70792	0.479525
SNCG.O76070	0.0229645	0.147929	0.15524	0.876694	0.41032	0.3873	1.059438	0.290225	-0.48773	0.11205	-4.35275	1.83E-05
GLRX5.Q86SX6	-0.015235	0.098153	-0.15521	0.876715	-0.11338	0.252053	-0.44981	0.653161	0.090726	0.074829	1.212453	0.226262
RUFY3.Q7L099	0.0411026	0.265394	0.154874	0.876983	0.980641	0.673074	1.456959	0.14614	0.213749	0.200545	1.065842	0.287325
LYN.P07948.2	-0.02035	0.131909	-0.15427	0.87747	0.10293	0.339401	0.303268	0.76193	-0.17892	0.098434	-1.81766	0.070277
PTPLAD1.Q9P035	-0.035107	0.227707	-0.15418	0.877531	0.116882	0.627913	0.186144	0.852454	0.379165	0.185558	2.043377	0.04186
PIK3IP1.Q96FE7	0.0177099	0.115008	0.153988	0.877684	0.002742	0.314657	0.008713	0.993054	0.055838	0.094244	0.592484	0.553987
C8orf82.Q6P1X6	0.0274919	0.178715	0.153831	0.877804	0.380635	0.451765	0.84255	0.40013	0.024058	0.134539	0.178817	0.858198
MIB2.E9PD12	-0.030513	0.198532	-0.15369	0.877912	0.098243	0.499062	0.196854	0.84407	0.30869	0.147432	2.09377	0.037093
SERPING1.E9PGN7	-0.010348	0.067346	-0.15366	0.877941	0.23528	0.168236	1.398512	0.162959	0.028836	0.050178	0.574663	0.565936
CLDN5.D3DX19	-0.017325	0.112823	-0.15356	0.87803	-0.13981	0.290083	-0.48196	0.630237	0.147634	0.083311	1.772097	0.077541
PSME4.Q14997	-0.019952	0.129988	-0.15349	0.878086	-0.34577	0.362536	-0.95375	0.341147	-0.01615	0.103645	-0.15578	0.876336
MRPL32.Q9BYC8	-0.015947	0.104114	-0.15317	0.878325	-0.04902	0.249279	-0.19665	0.844229	-0.04736	0.074279	-0.63762	0.524199
UBTF.P17480	0.0246321	0.161225	0.152781	0.878632	0.052101	0.398854	0.130628	0.896155	-0.19655	0.118129	-1.6639	0.097144
NUTF2.P61970	0.0183602	0.120335	0.152576	0.878794	0.543699	0.336366	1.616389	0.107027	0.103542	0.100312	1.032206	0.30278
POLR2L.P62875	-0.025313	0.16591	-0.15257	0.878825	0.089398	0.409625	0.218245	0.82745	-0.00929	0.113397	-0.08196	0.934753
FRMPD3.Q5JV73	-0.013861	0.090892	-0.1525	0.87886	-0.2005	0.23421	-0.85606	0.392705	-0.0348	0.068312	-0.50938	0.610891
MCM6.Q14566	-0.01819	0.119283	-0.1525	0.878912	-0.0546	0.310224	-0.17599	0.860521	-0.08367	0.101582	-0.82367	0.411343
POMGNT2.Q8NAT1	-0.024218	0.158901	-0.15241	0.878926	-0.46303	0.37072	-1.249	0.212609	0.03657	0.11054	0.330827	0.740999

DGKE.P52429	0.0300073	0.197312	0.15208	0.879185	0.841907	0.503339	1.672644	0.095406	-0.12343	0.150245	-0.8215	0.411992
NEXN.Q0ZGT2.2	0.0184	0.120965	0.152111	0.879205	0.47808	0.329826	1.449491	0.148903	0.019256	0.107442	0.17922	0.857962
RPS7.P62081	-0.037024	0.243638	-0.15196	0.879276	-1.1467	0.731825	-1.56691	0.118156	-0.21391	0.218227	-0.9802	0.327753
CBFB.Q13951.2	0.0157589	0.103731	0.15192	0.879327	0.2479	0.295852	0.83792	0.402906	-0.07094	0.086886	-0.81645	0.41505
HNRNPCL3.P0DMR1	-0.007492	0.049464	-0.15147	0.879712	-0.01927	0.133133	-0.14474	0.885074	0.226365	0.035374	6.39927	1.21E-09
ERICH5.Q6P6B1	-0.020612	0.136117	-0.15143	0.879712	-0.28857	0.354454	-0.81413	0.416324	0.131898	0.107158	1.230883	0.219492
ADAM23.E7EWD3	0.0236861	0.156874	0.150988	0.880046	0.235874	0.389034	0.606307	0.544754	0.22702	0.115079	1.972729	0.049415
CYP27A1.Q02318	0.0182582	0.121027	0.15086	0.880146	-0.11552	0.306579	-0.3768	0.706581	-0.07118	0.091133	-0.78108	0.43535
MT.CO1.P00395	0.0181142	0.120523	0.150296	0.880615	-0.22843	0.312609	-0.73073	0.465722	0.003748	0.090623	0.041363	0.967044
SLC9A1.P19634	0.03111	0.207409	0.149994	0.88083	0.640717	0.512198	1.250918	0.211908	-0.13316	0.152567	-0.87282	0.383437
X0.P01623	-0.005337	0.035593	-0.14994	0.880872	0.030005	0.091133	0.329249	0.74219	0.024669	0.027079	0.911011	0.362997
NT5C3A.X6RM59	-0.034771	0.23196	-0.1499	0.880902	1.004674	0.579422	1.733923	0.083926	0.066656	0.17316	0.384935	0.700549
FIG4.Q92562	0.0295218	0.196977	0.149874	0.880924	0.025418	0.488564	0.052025	0.958542	-0.03766	0.145324	-0.25914	0.795698
TXLNA.P40222	-0.041588	0.277755	-0.14973	0.881039	-0.20604	0.741008	-0.27805	0.78116	-0.18203	0.220222	-0.82659	0.409105
BTRC.Q9Y297	-0.027762	0.185342	-0.14979	0.881043	0.109711	0.474243	0.23134	0.817332	0.082778	0.128117	0.646115	0.519087
XPNPEP3.Q9NQH7	0.022261	0.149297	0.149105	0.88153	0.33886	0.385671	0.878623	0.380286	-0.00127	0.114873	-0.01105	0.991192
TOR1AIP2.Q8NFQ8	-0.036811	0.246942	-0.14907	0.88156	-0.08612	0.64604	-0.13331	0.894037	-0.01481	0.192189	-0.07704	0.93864
PEX6.Q13608	0.0240982	0.161858	0.148885	0.881716	0.255593	0.397543	0.642932	0.520832	0.027044	0.120481	0.224465	0.822571
PPTC7.Q8NI37	-0.021659	0.145804	-0.14855	0.881972	0.139305	0.365582	0.38105	0.703427	-0.15616	0.108417	-1.44033	0.150783
COPS2.P61201	-0.042004	0.283246	-0.1483	0.882169	0.343021	0.730473	0.469588	0.63898	0.485595	0.215623	2.25205	0.025019
HMBOX1.D3DSU2	-0.022949	0.154875	-0.14818	0.882311	0.364181	0.362756	1.003927	0.316808	0.126021	0.107797	1.169058	0.243979
TPRG1L.Q5T0D9	0.0221678	0.150081	0.147706	0.882634	0.15776	0.372261	0.423789	0.672014	0.022725	0.110766	0.20516	0.837582
EPB41L2.O43491.3	-0.011538	0.078158	-0.14762	0.882725	0.142647	0.197956	0.720599	0.471921	-0.17822	0.056112	-3.17614	0.001707
SUGP2.Q8IX01	-0.02803	0.189987	-0.14754	0.882767	0.062308	0.4945	0.126001	0.899813	-0.12757	0.14693	-0.86824	0.385937
AAGAB.Q6PD74	0.0200009	0.135625	0.147473	0.88282	0.213531	0.354168	0.602907	0.547023	0.123815	0.105368	1.175068	0.240893
TENM3.Q9P273	-0.026235	0.17802	-0.14737	0.882896	0.409977	0.412401	0.99412	0.32094	-0.02506	0.122869	-0.20393	0.838542
PCBP1.Q15365	-0.04938	0.336719	-0.14665	0.883466	0.465099	0.80644	0.576731	0.564539	0.214525	0.239721	0.894896	0.371537
OCIAD1.Q9NX40	-0.037429	0.255308	-0.14661	0.883502	0.006962	0.644705	0.010799	0.991391	-0.61195	0.188613	-3.24448	0.001305
CA10.Q9NS85	-0.022567	0.153938	-0.1466	0.883533	-0.36916	0.360162	-1.02499	0.306488	0.0949	0.103603	0.916	0.360665
PCYT1A.P49585	0.036951	0.252647	0.146255	0.883778	0.138026	0.628458	0.219626	0.826307	-0.27211	0.18633	-1.46039	0.145196
ETFDH.Q16134	0.0306935	0.210098	0.146091	0.883908	0.531077	0.549356	0.966727	0.334434	0.116074	0.163537	0.709774	0.478378
MAP7D2.Q96T17	0.0299651	0.205578	0.145761	0.884169	0.086913	0.563283	0.154298	0.877475	-0.54409	0.164699	-3.30355	0.001066
CCPG1.Q9ULG6	-0.02169	0.148849	-0.14572	0.884225	-0.12289	0.382523	-0.32127	0.748299	0.117921	0.113947	1.034874	0.301824
RDH13.Q8NBN7	-0.016729	0.115093	-0.14535	0.884489	-0.10388	0.301507	-0.34452	0.73069	-0.12743	0.089418	-1.42516	0.155117

FMOD.Q06828	0.0053062	0.036577	0.145068	0.884727	-0.05464	0.092889	-0.58821	0.556899	-0.04606	0.027962	-1.64715	0.100727
TGM2.P21980	-0.011982	0.082671	-0.14494	0.884817	0.085057	0.203286	0.418412	0.675935	-0.06561	0.060376	-1.08673	0.278
C10orf32.Q96B45	0.0373377	0.258793	0.144276	0.88534	0.656722	0.660593	0.99414	0.32093	0.151871	0.196639	0.772338	0.440503
LRIG1.Q96JA1	-0.02176	0.151035	-0.14407	0.885499	-0.24398	0.370102	-0.65922	0.510242	-0.13429	0.109912	-1.22183	0.2227
EFNB1.P98172	0.0282088	0.195917	0.143984	0.885579	-0.91314	0.509005	-1.79398	0.073935	-0.13951	0.147031	-0.94883	0.343555
ANKRD16.Q6P6B7	0.0183182	0.127238	0.143967	0.885588	0.115069	0.329851	0.348852	0.727453	0.042116	0.097977	0.42986	0.667615
MTHFR.P42898.2	-0.018824	0.130759	-0.14396	0.885589	-0.27531	0.334442	-0.8232	0.411029	0.232485	0.09872	2.354986	0.019146
NADK2.Q4G0N4	-0.034656	0.240826	-0.14391	0.885633	-0.73867	0.641694	-1.15113	0.250565	0.043774	0.191284	0.228844	0.819141
TPM4.P67936	0.031742	0.220628	0.143871	0.88566	-0.2596	0.569082	-0.45617	0.64859	0.16602	0.169086	0.981871	0.326929
JUND.P17535	0.0142165	0.098918	0.14372	0.885783	-0.20419	0.251718	-0.81118	0.417936	-0.13587	0.073124	-1.8581	0.064179
TMEM181.Q9P2C4	-0.0209	0.145864	-0.14328	0.886126	-0.44524	0.371267	-1.19926	0.231397	0.038811	0.112026	0.346447	0.729256
COL12A1.Q99715	0.0058303	0.040912	0.14251	0.886734	0.052085	0.102963	0.505865	0.613311	-0.02755	0.030602	-0.9004	0.368608
CCT6B.Q92526	0.0130997	0.091925	0.142504	0.886778	-0.25594	0.214262	-1.19453	0.23375	-0.00101	0.066929	-0.01508	0.987985
TP53BP1.Q12888	-0.03066	0.21525	-0.14244	0.88679	0.050983	0.570486	0.089367	0.928848	-0.32968	0.168676	-1.95453	0.051537
SMARCA4.P51532	-0.024205	0.170189	-0.14223	0.886961	0.390103	0.475136	0.821034	0.412301	-0.11499	0.141948	-0.81008	0.418561
TTYH1.Q9H313.3	-0.020449	0.143838	-0.14216	0.887008	-0.20664	0.366736	-0.56345	0.573539	-0.15142	0.108814	-1.39157	0.16505
UPF3B.Q9BZ17	-0.025029	0.17636	-0.14192	0.8872	-0.09883	0.443592	-0.2228	0.823837	-0.11531	0.131809	-0.87486	0.38233
DCLK2.Q8N568	0.0214137	0.151373	0.141463	0.887611	-0.1502	0.412101	-0.36447	0.715963	-0.15833	0.128516	-1.23198	0.219657
CRIM1.Q9NZV1	-0.020355	0.144042	-0.14131	0.887704	-0.25974	0.381897	-0.68013	0.497145	0.019882	0.111249	0.178721	0.858323
PITHD1.Q9GZP4	0.0297382	0.210841	0.141046	0.88789	-0.47124	0.491323	-0.95912	0.338245	0.118533	0.146222	0.81064	0.418194
MTMR12.Q9C0I1	0.035009	0.248294	0.140998	0.887928	-0.15415	0.621566	-0.248	0.8043	-0.03926	0.18491	-0.21234	0.831978
ENTPD1.P49961	-0.022842	0.162542	-0.14053	0.888315	-0.25117	0.415416	-0.60463	0.546017	0.297748	0.115766	2.571985	0.010736
ABCF1.Q8NE71	-0.033501	0.238589	-0.14041	0.888391	0.419599	0.61179	0.685856	0.493317	0.087132	0.182067	0.478569	0.632582
ACAT1.P24752	0.0320148	0.228047	0.140387	0.88841	-0.37793	0.599882	-0.63001	0.529155	-0.19464	0.178226	-1.09209	0.27564
CD320.Q9NPF0	0.0225386	0.160531	0.140401	0.888427	0.418081	0.4359	0.959121	0.338639	0.126192	0.117582	1.073222	0.284446
C16orf45.H3BRF6	0.0123281	0.087889	0.14027	0.888525	0.093637	0.232457	0.402817	0.687462	-0.09458	0.067544	-1.40022	0.162814
ABCC4.O15439	0.0193474	0.138101	0.140096	0.888641	-0.00791	0.38335	-0.02063	0.983551	0.105861	0.114896	0.921367	0.357587
KCNT1.Q5JUK3.2	-0.027168	0.194089	-0.13998	0.888733	-0.42309	0.507391	-0.83385	0.405008	0.160141	0.150835	1.061697	0.2892
GABARAPL1.F5GZY7	0.028387	0.202817	0.139963	0.888745	-0.38673	0.512185	-0.75507	0.450783	0.060204	0.152468	0.394862	0.693216
CAV1.Q03135	-0.012576	0.08986	-0.13995	0.888757	-0.19306	0.224787	-0.85885	0.391086	-0.03566	0.066919	-0.53289	0.59449
PRKACB.P22694	-0.033703	0.240943	-0.13988	0.888812	-0.11177	0.590045	-0.18942	0.849889	0.143673	0.175348	0.81936	0.41321
PPIB.P23284	0.0319089	0.228537	0.139622	0.889014	-0.84816	0.566277	-1.49777	0.13521	0.235288	0.168537	1.396064	0.163694
ABHD17A.Q96GS6	0.0237393	0.170808	0.138982	0.889521	-0.1251	0.435813	-0.28706	0.774262	0.004144	0.131351	0.031546	0.974855
X0.F5H5P2	0.0286717	0.206497	0.138848	0.889625	0.722986	0.512717	1.410106	0.159511	-0.05517	0.152981	-0.3606	0.718642

MYL6B.P14649	0.0394088	0.283978	0.138774	0.889684	-0.79478	0.676552	-1.17475	0.240996	0.380226	0.20055	1.895911	0.058902
PCDHGB1.Q9Y5G3	0.0213797	0.154532	0.138352	0.890037	-0.36447	0.417048	-0.87394	0.383067	0.229025	0.129742	1.765225	0.078859
DCTN1.Q14203	0.0497864	0.359968	0.138308	0.890052	0.282832	0.990705	0.285486	0.775463	0.426949	0.293757	1.45341	0.147122
SEMA4B.Q9NPR2	-0.022597	0.163616	-0.13811	0.890214	-0.69436	0.446284	-1.55587	0.12086	-0.2249	0.131831	-1.70601	0.089108
COX6C.P09669	0.0181001	0.131118	0.138044	0.890261	0.162626	0.329115	0.494132	0.621563	-0.00163	0.097944	-0.01669	0.986697
MKKS.Q9HB66	-0.025612	0.18576	-0.13788	0.890393	0.966036	0.482388	2.002612	0.04609	-0.20322	0.143965	-1.41162	0.159063
FRRS1L.Q9P0K9	0.0253065	0.183742	0.137728	0.89051	-0.58248	0.461165	-1.26306	0.207518	0.099375	0.137425	0.723118	0.470153
AGTPBP1.Q9UPW5	0.0439871	0.319381	0.137726	0.890512	0.888183	0.865835	1.025811	0.30578	0.40579	0.256976	1.579097	0.115334
ZC3HAV1.Q7Z2W4	0.0140285	0.102118	0.137376	0.890803	-0.17973	0.270826	-0.66362	0.50755	-0.0884	0.0843	-1.04866	0.295355
OBSL1.A6NN50	0.0175135	0.12759	0.137263	0.890896	0.263036	0.340678	0.772095	0.440818	0.02845	0.103526	0.274814	0.783696
STX18.Q9P2W9	0.0348459	0.253981	0.137199	0.890928	-0.28839	0.653256	-0.44146	0.659185	-0.23546	0.193933	-1.21413	0.225622
CARS.P49589.3	0.0503362	0.367765	0.136871	0.891188	-0.25512	0.9386	-0.27181	0.785946	0.375864	0.278433	1.349926	0.178025
JPH3.Q8WXH2	-0.02647	0.193974	-0.13646	0.891513	-0.00653	0.469905	-0.0139	0.988917	-0.25209	0.139053	-1.81292	0.070811
ENG.P17813	0.0120296	0.088263	0.136292	0.891648	0.118209	0.227071	0.520579	0.60305	-0.0042	0.068653	-0.06123	0.951217
UPRT.Q96BW1	-0.010204	0.074898	-0.13623	0.891693	-0.03733	0.187926	-0.19863	0.842688	-0.00027	0.056351	-0.00478	0.996191
FAM155A.B1AL88	-0.019892	0.146258	-0.13601	0.891904	0.030222	0.383824	0.07874	0.937323	0.1949	0.097892	1.990971	0.047925
URM1.Q9BTM9	0.0187078	0.137663	0.135896	0.891964	-0.19912	0.374416	-0.53181	0.595288	-0.04446	0.108644	-0.4092	0.68271
EFNB2.P52799	-0.029484	0.217226	-0.13573	0.89209	-1.04147	0.536674	-1.94059	0.053214	0.057867	0.160584	0.360353	0.718829
CAPZA2.P47755	0.0517425	0.382993	0.1351	0.892586	-0.07201	0.938903	-0.07669	0.938917	0.702893	0.276442	2.542641	0.011488
TUBA8.Q9NY65	0.0177165	0.131305	0.134926	0.892724	0.569505	0.33014	1.725043	0.085516	0.091807	0.098543	0.931645	0.352245
IAH1.Q2TAA2	0.0158596	0.117722	0.134721	0.892886	-0.3402	0.291761	-1.16604	0.244496	0.01142	0.086981	0.131289	0.895632
PHRF1.F8WEF5	-0.011214	0.08331	-0.13461	0.893014	0.044956	0.244424	0.183925	0.854269	-0.04903	0.074641	-0.65689	0.512049
UTP11L.Q9Y3A2	-0.029654	0.220297	-0.13461	0.893015	-0.22098	0.613314	-0.3603	0.719048	0.245803	0.183657	1.338383	0.182469
C14orf159.Q7Z3D6.2	0.004194	0.031239	0.134257	0.893253	0.087991	0.081552	1.078956	0.281446	-0.01976	0.02428	-0.81384	0.416363
RAB27B.O00194	0.0107516	0.080233	0.134004	0.893453	-0.05268	0.20336	-0.25903	0.795783	0.013359	0.060498	0.220814	0.825383
WBSCR16.Q96151	0.0228591	0.170666	0.133941	0.893515	0.238035	0.422891	0.562876	0.574026	-0.02384	0.122841	-0.19405	0.846294
ARHGEF4.E7EV07	-0.013874	0.103672	-0.13382	0.89361	0.097153	0.268692	0.361579	0.717971	0.032054	0.082344	0.389266	0.697409
NDRG3.Q9UGV2.2	0.033184	0.248313	0.133638	0.893743	0.533477	0.592651	0.900154	0.368737	0.390917	0.175132	2.232134	0.02632
ADCK5.Q3MIX3	0.0236549	0.177003	0.133641	0.893745	0.575525	0.423858	1.357825	0.175612	0.236442	0.12258	1.928881	0.054756
SOD2.A0A0C4DFU2	-0.020218	0.15189	-0.13311	0.894161	-0.3907	0.394629	-0.99005	0.322924	0.159003	0.117233	1.356301	0.17599
YTHDF1.Q9BYJ9	0.042437	0.319419	0.132857	0.89436	-0.28597	0.815658	-0.3506	0.726126	-0.05713	0.24267	-0.23541	0.81405
GOT2.P00505	-0.015673	0.118573	-0.13218	0.894892	-0.02611	0.309076	-0.08447	0.932737	0.145493	0.091574	1.58881	0.113123
NUDT16.Q96DE0	0.0260002	0.197033	0.131959	0.89507	0.62431	0.594258	1.050571	0.294274	0.304554	0.176249	1.727976	0.084988
CARS2.Q9HA77	-0.016906	0.128122	-0.13195	0.895077	0.124003	0.345701	0.3587	0.720063	0.303804	0.101404	2.995987	0.002956

TCEAL5.Q5H9L2	-0.019062	0.144529	-0.13189	0.895123	-0.13994	0.366718	-0.38159	0.703023	-0.12965	0.108869	-1.19089	0.234608
TTC8.A0A0C4DGY3	-0.01319	0.100094	-0.13178	0.895232	0.13327	0.246552	0.540534	0.589352	-0.017	0.072	-0.23614	0.813533
PREPL.Q4J6C6	-0.024934	0.189409	-0.13164	0.895319	0.535974	0.475026	1.128305	0.260064	0.338642	0.140289	2.413879	0.016363
KIAA1324.Q6UXG2	0.0242269	0.184098	0.131598	0.895355	-0.05478	0.46698	-0.1173	0.906695	-0.08276	0.138842	-0.59606	0.551569
WIP11.Q5MNZ9	-0.019425	0.147987	-0.13126	0.895623	-1.01276	0.369298	-2.74238	0.006482	-0.02643	0.11202	-0.23593	0.813655
KIAA1244.Q5TH69	-0.041804	0.318852	-0.13111	0.895742	-0.84884	0.841521	-1.00869	0.313908	0.015478	0.250747	0.061728	0.950819
CELF1.E9PSH0	-0.014268	0.108882	-0.13104	0.895844	0.227801	0.304109	0.749076	0.454947	0.039403	0.079666	0.494606	0.621579
MPP1.Q00013	0.0293896	0.224794	0.13074	0.896033	1.673118	0.570255	2.933981	0.003596	0.164666	0.171726	0.958889	0.338362
NUBPL.Q8TB37	0.016444	0.125781	0.130735	0.896037	-0.07139	0.336143	-0.21239	0.831943	0.038059	0.099981	0.380661	0.703716
NAA15.A0A0B4J1W3	0.0468	0.358756	0.13045	0.896262	-0.89801	0.943321	-0.95196	0.341857	0.672306	0.278425	2.414675	0.016328
ABCA3.HOY3H2	0.027873	0.214888	0.129709	0.896848	0.535859	0.542317	0.988092	0.323878	0.30131	0.160675	1.875282	0.061694
SLU7.O95391	0.0142016	0.109819	0.129319	0.897174	0.08441	0.297866	0.283382	0.777132	0.02069	0.088676	0.233323	0.815713
LAMTOR3.Q9UHA4	-0.027284	0.211188	-0.12919	0.897262	-0.16184	0.548328	-0.29516	0.768093	-0.01739	0.157454	-0.11045	0.91213
ZNF346.Q9UL40	-0.020647	0.160079	-0.12898	0.89744	0.02261	0.434963	0.051981	0.958589	0.038005	0.124741	0.30467	0.760894
POLR2M.Q6EEV4	-0.018902	0.14666	-0.12889	0.897499	0.105978	0.393382	0.269403	0.787799	-0.52382	0.113193	-4.62761	5.44E-06
KCNAB1.Q14722.2	0.0262312	0.204131	0.128502	0.897805	0.616538	0.55666	1.107566	0.268946	-0.06262	0.162314	-0.38581	0.699914
SNX17.Q15036	0.0304022	0.237499	0.12801	0.898192	0.678413	0.642062	1.056616	0.29151	-0.00717	0.191345	-0.03748	0.970128
FSD1L.Q9BXM9	0.0297909	0.233104	0.127801	0.898358	0.118971	0.560921	0.2121	0.832168	0.383893	0.165446	2.32036	0.02097
SMCR8.Q8TEV9	-0.035448	0.277775	-0.12761	0.898507	0.683955	0.712052	0.96054	0.337532	-0.08025	0.212089	-0.3784	0.705393
KATNA1.O75449	0.0138452	0.108536	0.127563	0.898561	0.041707	0.300448	0.138818	0.88971	-0.10071	0.087696	-1.14842	0.251934
KCNMA1.Q5SVK0	0.0229388	0.180319	0.127212	0.898836	0.371191	0.458687	0.809247	0.41914	-0.15554	0.141548	-1.09884	0.272889
TRMT2A.Q8IZ69	-0.019226	0.152002	-0.12648	0.899406	-0.20018	0.364229	-0.5496	0.583037	0.103918	0.107372	0.967832	0.33397
RBP4.Q5VY30	0.0166413	0.131753	0.126307	0.899561	-0.3761	0.366857	-1.02519	0.306418	0.196731	0.109719	1.793051	0.074364
PECAM1.P16284	-0.008563	0.067778	-0.12633	0.899567	0.129681	0.156367	0.829337	0.40805	-0.01253	0.045844	-0.27322	0.78501
COLEC12.Q5KU26	-0.011857	0.094019	-0.12611	0.899703	-0.07736	0.239456	-0.32306	0.746911	-0.01692	0.071767	-0.2357	0.81385
CABLES2.Q9BTV7	-0.012408	0.098683	-0.12574	0.899991	0.317118	0.22687	1.397796	0.163203	0.034444	0.066579	0.517342	0.605297
FN3KRP.Q9HA64	0.0200984	0.160107	0.125531	0.900153	-0.37513	0.413315	-0.9076	0.364793	-0.12905	0.122899	-1.05007	0.294503
DIAPH1.O60610	-0.030279	0.241245	-0.12551	0.900169	0.671859	0.601829	1.116362	0.265132	0.094678	0.179312	0.528006	0.597873
NEDD8.MDP1.E9PL57	0.0428264	0.341951	0.125241	0.900382	-0.43919	0.857796	-0.512	0.609017	-0.04868	0.255272	-0.19069	0.848895
DNAJC6.O75061	0.0072906	0.058261	0.125136	0.900498	-0.0533	0.154821	-0.34425	0.731045	0.016074	0.043149	0.37251	0.709933
PAAF1.Q9BRP4	0.0152628	0.122102	0.125001	0.900573	-0.17589	0.31923	-0.55098	0.582041	0.184932	0.094429	1.958414	0.051078
PDXDC1.Q6P996	0.022174	0.177414	0.124985	0.900585	-0.11702	0.445554	-0.26263	0.79301	0.00724	0.132559	0.054616	0.95648
ADARB1.P78563	0.0198116	0.158776	0.124777	0.900753	0.343718	0.357956	0.960225	0.337734	-0.01091	0.10638	-0.1026	0.918351
SNAPC5.O75971	-0.015036	0.120504	-0.12478	0.900785	-0.45702	0.316571	-1.44365	0.150615	-0.04465	0.098178	-0.45476	0.649841

CDH12.P55289	-0.023321	0.18799	-0.12406	0.901333	0.744207	0.48223	1.543261	0.124022	0.029826	0.146345	0.203807	0.838668
EXOC8.Q8IYI6	-0.05182	0.418567	-0.1238	0.90152	-0.32214	1.015558	-0.3172	0.751304	-0.00177	0.302159	-0.00586	0.995327
A1BG.P04217	0.0077415	0.062794	0.123284	0.901932	0.02041	0.148766	0.137194	0.890967	0.090222	0.043959	2.052418	0.040968
KCNH7.Q9NS40	-0.015129	0.122887	-0.12311	0.902083	0.422317	0.310623	1.359581	0.175212	-0.02438	0.09605	-0.2538	0.799866
AARS.P49588	-0.032858	0.267543	-0.12282	0.902302	0.84239	0.716599	1.175539	0.240681	0.475376	0.211937	2.243004	0.025603
DCK.P27707	-0.021524	0.17572	-0.12249	0.902562	-0.76838	0.46653	-1.64702	0.100645	0.181212	0.135327	1.339065	0.181606
FMR1.Q06787.6	-0.011562	0.094535	-0.1223	0.902713	-0.13309	0.250143	-0.53206	0.595088	-0.33138	0.071297	-4.64792	5.06E-06
FABP6.P51161.2	0.0158924	0.130677	0.121616	0.903252	0.439409	0.326457	1.345994	0.179288	-0.01727	0.097394	-0.17733	0.859369
GRB2.P62993	0.0364934	0.300339	0.121507	0.903338	-0.07104	0.753619	-0.09426	0.924962	0.400559	0.223034	1.795951	0.073476
NT5DC1.Q5TFE4	0.0140058	0.115578	0.12118	0.903597	0.194339	0.297985	0.652176	0.514771	0.040608	0.088676	0.457939	0.647317
DSCR3.O14972	0.0248469	0.205712	0.120785	0.903909	0.193425	0.511954	0.377817	0.705825	0.177056	0.152	1.164842	0.244979
SDF2L1.Q9HCN8	0.0186915	0.155653	0.120085	0.904466	-0.18491	0.38524	-0.47998	0.631596	0.023121	0.114727	0.201535	0.84042
VWA5A.O00534	-0.024071	0.201124	-0.11968	0.904781	-0.0153	0.472964	-0.03234	0.97422	-0.15908	0.140408	-1.133	0.258088
INPPL1.O15357	-0.032229	0.270027	-0.11935	0.905042	0.454231	0.786177	0.577772	0.563837	-0.39971	0.232896	-1.71626	0.087114
MRPL12.P52815	-0.016367	0.137163	-0.11933	0.905063	-0.04702	0.356988	-0.13172	0.895288	-0.02559	0.106191	-0.24102	0.809697
UACA.H0YNH8	0.0086684	0.072684	0.119262	0.905115	-0.42525	0.184012	-2.311	0.021489	0.052772	0.055129	0.957248	0.339188
APMAP.Q9HDC9	0.0286724	0.241054	0.118946	0.905366	-0.9288	0.588914	-1.57714	0.115783	0.079516	0.175835	0.452219	0.651428
NAGA.P17050	0.012904	0.108706	0.118706	0.905557	0.49186	0.27643	1.779329	0.076208	-0.04419	0.080844	-0.54663	0.585043
MGRN1.O60291	-0.02935	0.24739	-0.11864	0.905609	0.145911	0.624278	0.233728	0.815351	0.258611	0.185146	1.396796	0.163474
MYCBP2.O75592.2	0.0431493	0.363751	0.118623	0.905621	-0.52954	0.935191	-0.56624	0.571643	-0.17483	0.27817	-0.62851	0.530131
NARS2.Q96159	-0.023208	0.195786	-0.11854	0.905687	0.066615	0.498909	0.133521	0.893868	0.037511	0.148406	0.252763	0.800619
DIMT1.Q9UNQ2	0.0201778	0.170215	0.118543	0.905711	0.379767	0.488168	0.777942	0.4375	0.235904	0.14248	1.655695	0.099314
UNKL.E9PDK2	0.014105	0.119172	0.118358	0.905875	-0.28865	0.302227	-0.95507	0.340946	0.118852	0.09121	1.303053	0.194383
CD74.P04233.2	-0.009531	0.081029	-0.11762	0.906414	-0.06739	0.209455	-0.32173	0.747884	0.047299	0.062372	0.758337	0.448855
GPSM1.Q86YR5	0.0310248	0.26385	0.117585	0.906443	1.597232	0.665133	2.401373	0.016922	0.227047	0.19928	1.139333	0.255444
FHL2.Q14192	-0.017247	0.1467	-0.11757	0.906457	-0.61125	0.402197	-1.51977	0.129615	0.138862	0.12005	1.156698	0.24831
NBR1.Q14596	0.0146095	0.124658	0.117197	0.906762	0.242262	0.348519	0.695119	0.487624	0.048433	0.102359	0.473172	0.636502
RIC3.Q7Z5B4	-0.016391	0.139938	-0.11713	0.906801	0.448841	0.37003	1.212984	0.226075	0.270385	0.110243	2.452617	0.014742
FAM131B.Q86XD5.3	-0.031848	0.272036	-0.11707	0.90685	0.682693	0.758228	0.90038	0.368617	0.0852	0.225802	0.37732	0.706194
IKBKAP.O95163	0.0269287	0.230767	0.116692	0.907151	0.484775	0.570359	0.849947	0.396011	0.24319	0.169307	1.43639	0.1519
RGS20.O76081.6	0.0201116	0.173112	0.116177	0.907559	-1.38336	0.438459	-3.15506	0.001762	-0.30294	0.13139	-2.30569	0.021788
FXYD1.O00168	0.0056008	0.048329	0.115888	0.907787	0.040927	0.130392	0.313873	0.753829	-0.17708	0.037469	-4.72593	3.48E-06
SPTAN1.Q13813.3	-0.0181	0.156379	-0.11575	0.907899	-0.2359	0.415426	-0.56785	0.57055	0.168493	0.123275	1.366801	0.172678
BICD2.Q8TD16.2	0.024711	0.213546	0.115717	0.907923	-0.16696	0.529379	-0.31538	0.752682	0.257144	0.156828	1.639658	0.102091

BBS1.Q8NFJ9	0.0267321	0.231283	0.115582	0.908035	0.46755	0.593391	0.787929	0.431396	0.325138	0.175545	1.852166	0.06504
MTRF1.O75570	-0.013958	0.120797	-0.11555	0.908082	0.633976	0.335812	1.887888	0.060519	0.166938	0.105833	1.577365	0.116324
PRELP.P51888	-0.003949	0.034239	-0.11534	0.90822	0.022512	0.08713	0.258373	0.796291	-0.02495	0.025884	-0.96374	0.335928
RPL18A.Q02543	0.0204984	0.178186	0.11504	0.908459	-0.03896	0.456739	-0.0853	0.932075	0.096959	0.135762	0.714182	0.475652
TMEFF1.Q8IYR6	-0.012936	0.112461	-0.11503	0.90847	-0.03495	0.302788	-0.11543	0.908177	0.041235	0.090847	0.453893	0.650229
XRCC6BP1.Q9Y6H3	-0.014512	0.1263	-0.1149	0.908593	-0.14012	0.33182	-0.42229	0.673259	-0.00235	0.100202	-0.02348	0.98129
ACYP1.G3V2U7	0.0148096	0.128925	0.11487	0.908594	0.121468	0.312414	0.388805	0.697687	0.069152	0.092877	0.744556	0.457104
UPF3A.Q9H1J1	0.0119383	0.103997	0.114794	0.908666	0.014819	0.263718	0.056194	0.955232	-0.11879	0.079576	-1.49274	0.136755
PVALB.P20472	0.008003	0.069875	0.114533	0.908861	0.19394	0.175489	1.105139	0.269957	0.004147	0.052307	0.079277	0.936863
C11orf68.Q9H3H3.2	-0.037794	0.33052	-0.11435	0.909008	0.959386	0.80925	1.185525	0.236718	-0.0322	0.241276	-0.13347	0.893909
MT.CO2.P00403	-0.015947	0.139597	-0.11424	0.909095	-0.04315	0.375642	-0.11487	0.908622	0.060485	0.111696	0.541514	0.588542
MYH10.P35580.3	-0.018475	0.161905	-0.11411	0.909198	0.002	0.439337	0.004551	0.996372	0.250987	0.130128	1.928775	0.054696
LRP3.O75074	0.0061854	0.054234	0.11405	0.909262	0.057369	0.139158	0.412259	0.680549	0.020833	0.040853	0.509946	0.610598
CACNA1B.B1AQK6	0.0268621	0.235901	0.113871	0.909386	-0.12923	0.609997	-0.21185	0.832364	0.118173	0.181352	0.651624	0.515127
CSNK2A2.P19784	-0.03205	0.282312	-0.11353	0.909659	0.04024	0.783916	0.051332	0.959094	0.478631	0.231612	2.066517	0.03961
SYNPR.Q8TBG9.2	-0.011233	0.099048	-0.11341	0.909754	-0.19352	0.255036	-0.75881	0.448543	0.072712	0.075827	0.958918	0.338348
SMIM12.Q96EX1	-0.015834	0.139635	-0.11339	0.909763	-0.0602	0.353983	-0.17008	0.865059	-0.44153	0.102279	-4.31687	2.13E-05
ZNF638.Q14966	0.0248459	0.219434	0.113227	0.909896	0.214582	0.532617	0.402882	0.687313	-0.24407	0.157878	-1.54592	0.123144
VPS11.A0A087WXL6	-0.045086	0.398253	-0.11321	0.90991	-0.46065	1.005633	-0.45807	0.647225	0.477814	0.298026	1.603261	0.109895
EXOSC3.Q9NQT5	0.0159711	0.141417	0.112936	0.910136	0.396248	0.366595	1.08089	0.280752	0.207063	0.110386	1.875814	0.061806
FAM171A1.Q5VUB5	-0.028143	0.2497	-0.11271	0.910308	-0.47191	0.639834	-0.73754	0.461349	-0.18578	0.190214	-0.97667	0.329496
PIK3C2A.O00443	-0.02694	0.239238	-0.11261	0.910387	-1.30007	0.582571	-2.2316	0.026356	-0.29321	0.173895	-1.68615	0.092774
PAK6.Q9NQU5	0.009413	0.083776	0.11236	0.910585	-0.11869	0.216225	-0.54892	0.583474	-0.01761	0.064227	-0.2742	0.784124
MRPL4.Q9BYD3	-0.014006	0.124982	-0.11206	0.910819	0.283156	0.336085	0.842515	0.400149	0.005963	0.100093	0.059574	0.952534
PRKCSH.K7ELL7	0.0302549	0.271076	0.111611	0.911177	-0.84043	0.715876	-1.17398	0.241303	0.214968	0.213084	1.008844	0.313836
PKIG.Q9Y2B9	-0.012237	0.10994	-0.11131	0.911417	0.446875	0.303429	1.472751	0.141833	-0.24549	0.0895	-2.74293	0.006444
MDP1.Q86V88	0.0094774	0.085133	0.111324	0.91143	0.03045	0.276337	0.110192	0.912369	0.027408	0.078849	0.347596	0.728513
DAD1.F5GXX5	0.0166537	0.150141	0.11092	0.911724	-0.33751	0.379834	-0.88856	0.374928	0.09512	0.113009	0.841707	0.400601
SHMT2.P34897	-0.013555	0.122405	-0.11074	0.911866	0.028465	0.328736	0.08659	0.931053	0.064622	0.097725	0.661264	0.508934
MYOF.Q9NZM1	-0.011679	0.105893	-0.11029	0.912225	-0.19331	0.272069	-0.71052	0.477931	0.032887	0.081419	0.403919	0.686558
AMPD3.Q01432	-0.013548	0.122867	-0.11027	0.912241	-0.26669	0.309874	-0.86065	0.390097	-0.09046	0.092149	-0.98172	0.327005
SLAIN2.Q9P270	-0.017895	0.162422	-0.11017	0.912315	-0.88585	0.430349	-2.05844	0.040383	-0.10989	0.128742	-0.85358	0.393995
PSMD7.P51665	0.0335094	0.30451	0.110044	0.912419	0.030594	0.78149	0.039149	0.968797	0.448133	0.231082	1.939276	0.053375
AP1G1.O43747	-0.029495	0.268056	-0.11003	0.912426	-0.39423	0.651314	-0.60529	0.545432	0.299759	0.19312	1.552194	0.121636

BEGAIN.Q9BUH8	0.0166037	0.151067	0.109909	0.912528	-0.39745	0.397895	-0.99887	0.318685	-0.093	0.117793	-0.7895	0.430463
RSRC1.Q96IZ7	-0.015624	0.142171	-0.1099	0.912547	0.331474	0.33349	0.993956	0.321213	-0.08254	0.100152	-0.82414	0.410651
SERGEF.Q9UGK8	-0.015295	0.139205	-0.10987	0.912556	0.43315	0.355617	1.218025	0.224194	0.038573	0.106143	0.363409	0.716562
IL6ST.P40189	-0.020026	0.182898	-0.1095	0.912855	-0.61374	0.42231	-1.4533	0.147179	-0.06045	0.126244	-0.47883	0.632406
MAPT.P10636.4	-0.010378	0.094823	-0.10944	0.912894	0.11804	0.24408	0.483611	0.629003	-0.17743	0.071935	-2.46649	0.014185
MOCS3.O95396	-0.019967	0.182713	-0.10928	0.913026	0.133062	0.477863	0.278453	0.78085	-0.16202	0.141876	-1.14198	0.254342
PDXP.Q96GD0	0.0329766	0.302727	0.108932	0.9133	-0.37565	0.735831	-0.51051	0.610054	0.039323	0.218977	0.179575	0.857604
LRPAP1.P30533	-0.023939	0.221149	-0.10825	0.913842	-0.24756	0.551825	-0.44863	0.654014	-0.14578	0.164003	-0.88886	0.374768
BICD1.Q96G01	0.0256668	0.237178	0.108218	0.913866	-0.55912	0.635512	-0.8798	0.379651	0.210303	0.188912	1.113232	0.266471
ELAVL4.B1APY8	-0.026888	0.248687	-0.10812	0.913944	-0.44838	0.657141	-0.68232	0.495545	0.137223	0.195479	0.701981	0.483218
TPBG.Q13641	-0.01357	0.12652	-0.10726	0.914629	-0.52188	0.331484	-1.57437	0.116421	-0.25223	0.097962	-2.57476	0.010495
CRTC1.Q6UUUV9	-0.012566	0.117271	-0.10716	0.914706	0.38069	0.304024	1.252172	0.211451	-0.18507	0.090059	-2.05504	0.040713
SNF8.Q96H20	0.0261744	0.24467	0.106979	0.914849	1.156173	0.617097	1.873569	0.061931	-0.08327	0.184551	-0.45119	0.652169
ABHD8.Q96I13	-0.014772	0.138114	-0.10696	0.914902	0.48686	0.36131	1.347483	0.179587	-0.00961	0.119363	-0.08048	0.935952
ADI1.Q9BV57	0.0074723	0.07021	0.106429	0.915288	0.102183	0.174269	0.586354	0.558102	-0.12828	0.049589	-2.58675	0.010184
FBXL15.Q9H469	0.0094163	0.088737	0.106115	0.915533	-0.12737	0.222244	-0.57309	0.566999	0.023791	0.066135	0.359731	0.719293
ARHGAP12.Q8IWW6	0.0283822	0.267816	0.105976	0.915643	-0.33014	0.670369	-0.49248	0.622731	0.18114	0.199236	0.909173	0.363965
DYSF.O75923	0.0149282	0.141107	0.105793	0.915789	0.254537	0.366895	0.69376	0.488352	-0.01334	0.109227	-0.12211	0.902894
TPP1.O14773	0.0130682	0.124377	0.105069	0.916363	0.391189	0.32442	1.205811	0.22881	-0.0177	0.09673	-0.18296	0.854949
BCCIP.Q9P287	-0.016343	0.155572	-0.10505	0.916384	0.425329	0.383912	1.107882	0.268874	0.052748	0.113212	0.465919	0.64164
CARTPT.Q16568	0.0045664	0.043497	0.104982	0.916432	0.113931	0.117071	0.973179	0.331223	-0.00871	0.034876	-0.24978	0.802923
HDAC1.Q13547	-0.018204	0.173374	-0.105	0.916448	-0.91894	0.466001	-1.97197	0.050111	-0.05671	0.141031	-0.40211	0.688073
NRP2.O60462	-0.014481	0.138122	-0.10485	0.916541	-0.59812	0.356001	-1.68012	0.093975	0.014051	0.105635	0.133014	0.894271
ZFYVE26.Q68DK2	0.0166921	0.159262	0.104809	0.916572	-0.233	0.41086	-0.56711	0.571069	0.14373	0.124775	1.151917	0.250291
SERPINH1.P50454	0.0083603	0.080317	0.104091	0.917138	-0.21985	0.214832	-1.02336	0.306934	0.114202	0.063687	1.793163	0.073922
C9orf72.Q96LT7	0.0223197	0.214628	0.103992	0.917217	-0.457	0.521822	-0.87577	0.381833	0.125769	0.155261	0.810053	0.418531
GAD1.Q99259	0.0173396	0.166989	0.103837	0.91734	0.577393	0.440681	1.31023	0.191088	-0.14632	0.131194	-1.11526	0.265604
GEMIN6.Q8WXD5	0.0206004	0.19837	0.103848	0.917373	-0.47801	0.481219	-0.99333	0.322109	0.116987	0.14707	0.795449	0.427577
YTHDC1.J3QR07	-0.01692	0.163159	-0.1037	0.917448	-0.61025	0.407763	-1.49658	0.135521	-0.02194	0.121733	-0.18022	0.857101
EVI5.O60447.2	0.0218882	0.211097	0.103688	0.917458	-0.26971	0.542785	-0.49691	0.619607	0.010269	0.161532	0.063571	0.949353
SLC37A4.U3KQS2	0.017517	0.169574	0.1033	0.917786	0.466532	0.468045	0.996768	0.320046	0.124053	0.134353	0.923332	0.356914
SDSL.Q96GA7	-0.013851	0.135247	-0.10241	0.918469	0.367163	0.346405	1.059923	0.290005	-0.1939	0.102647	-1.88903	0.05982
OXSM.Q9NWU1	-0.018654	0.182247	-0.10235	0.918517	0.198571	0.50103	0.396326	0.692137	0.007734	0.149085	0.051876	0.958661
ATG16L1.E7EVC7	-0.023923	0.234073	-0.1022	0.918637	0.190201	0.595919	0.319172	0.749811	0.366577	0.176078	2.081902	0.038171

PUS7.Q96PZ0	0.017038	0.166644	0.102242	0.918643	-0.0702	0.478395	-0.14673	0.883525	0.315679	0.140823	2.241672	0.026349
NECAB3.Q96P71	0.0054403	0.053366	0.101943	0.918846	0.024625	0.142729	0.172532	0.863141	0.013803	0.042611	0.323928	0.746228
HSPA1L.P34931	0.004857	0.047656	0.101918	0.918862	-0.09743	0.121475	-0.80204	0.423144	0.045637	0.036081	1.26484	0.206879
SH3BP1.Q9Y3L3	-0.017654	0.17366	-0.10166	0.91907	-0.52782	0.483593	-1.09145	0.275925	0.167514	0.143822	1.164729	0.245024
MED10.Q9BTT4	0.0154432	0.152473	0.101285	0.919387	-0.16639	0.38939	-0.42731	0.669593	0.068556	0.118733	0.577394	0.564298
PDCD11.Q14690	-0.017471	0.172713	-0.10115	0.919475	0.359736	0.431901	0.832913	0.405633	-0.0085	0.13002	-0.06541	0.947896
CTGF.P29279	-0.011069	0.109539	-0.10105	0.919558	0.413936	0.264408	1.565523	0.118586	0.071302	0.078984	0.902742	0.367436
RNF214.Q8ND24	-0.038201	0.379075	-0.10077	0.919771	0.279703	0.944719	0.29607	0.767375	-0.5458	0.279362	-1.95373	0.051632
AGAP3.Q96P47	0.020206	0.201528	0.100264	0.920175	-0.2031	0.463082	-0.43859	0.661268	0.121142	0.137629	0.880206	0.37943
MAPK9.P45984.2	0.018938	0.189086	0.100155	0.92029	-0.08252	0.527675	-0.15639	0.875907	0.113643	0.157174	0.723039	0.470611
PPHLN1.F8W0Q9	-0.014996	0.14997	-0.1	0.920398	-0.26051	0.378744	-0.68783	0.492193	-0.10663	0.112453	-0.94826	0.343904
RAB11FIP2.Q7L804.2	0.0249504	0.249846	0.099863	0.920493	-0.13369	0.616548	-0.21683	0.828483	-0.27669	0.182752	-1.51405	0.131032
ADORA1.A0A087X173	0.0122249	0.122662	0.099663	0.920653	-0.0919	0.309253	-0.29717	0.766543	0.052137	0.092675	0.562583	0.574138
TM9SF4.A0A0C4DFM1	0.0243762	0.244947	0.099516	0.920768	0.732837	0.611082	1.199245	0.231349	-0.05827	0.182177	-0.31984	0.749305
NDRG1.Q92597	-0.010325	0.103808	-0.09946	0.920809	0.216703	0.272828	0.794282	0.427639	-0.04242	0.081208	-0.52231	0.601825
SPARCL1.Q14515	0.0144945	0.145774	0.099431	0.920835	0.244421	0.382318	0.639312	0.523092	-0.02045	0.113802	-0.17974	0.857475
TOR1AIP1.Q5JTV8	0.0300554	0.302302	0.099422	0.920843	-0.47467	0.781256	-0.60758	0.543912	-0.40191	0.231425	-1.73666	0.083441
DHX30.Q7L2E3.2	-0.021131	0.212953	-0.09923	0.920995	0.564178	0.530816	1.062851	0.288677	0.080607	0.15813	0.509752	0.610588
PORCN.Q9H237	-0.009305	0.09449	-0.09847	0.9216	-0.04487	0.244959	-0.18315	0.854804	-0.00283	0.072475	-0.03901	0.968911
KCNK4.Q9NYG8	-0.011699	0.118848	-0.09844	0.921631	-0.5853	0.295675	-1.97955	0.048851	0.067123	0.082348	0.815112	0.415784
RGS19.P49795	0.0129534	0.131621	0.098414	0.921657	-0.3873	0.408441	-0.94824	0.344035	-0.00469	0.127858	-0.0367	0.970753
GSTZ1.O43708	0.0061445	0.06258	0.098186	0.921824	-0.09734	0.15546	-0.62613	0.531688	-0.08734	0.046009	-1.89833	0.058581
GAB2.Q9UQC2	-0.02236	0.2288	-0.09773	0.922189	0.151692	0.592548	0.256	0.79812	-0.52188	0.173781	-3.0031	0.00289
SEH1L.Q96EE3.1	0.0234879	0.241548	0.097239	0.922575	0.569841	0.632991	0.900236	0.368693	0.159351	0.188332	0.846116	0.398141
DHRS7.Q9Y394	0.019201	0.197711	0.097116	0.922673	0.090438	0.528773	0.171034	0.864308	-0.01768	0.157305	-0.1124	0.910576
EIF3I.Q13347	-0.030192	0.311881	-0.09681	0.922919	-0.63225	0.789513	-0.80081	0.423856	0.305652	0.234467	1.303603	0.193336
ANKRD65.E5RJM6	0.0161593	0.166945	0.096794	0.92293	0.619443	0.415562	1.490614	0.137113	-0.09284	0.125369	-0.74056	0.459538
CTSC.P53634	0.0086716	0.089578	0.096805	0.92294	0.063323	0.22552	0.280786	0.779154	0.073593	0.066648	1.104219	0.270774
TPM1.P09493	-0.015788	0.163379	-0.09663	0.923057	0.03513	0.422741	0.0831	0.933826	-0.10913	0.125606	-0.86883	0.385615
ITIH3.Q06033	0.0070464	0.072953	0.096588	0.923095	0.197841	0.182181	1.085956	0.278388	0.06407	0.054516	1.175261	0.240841
IRF3.Q14653	-0.019055	0.197923	-0.09627	0.923354	0.434235	0.549557	0.790154	0.430228	0.560939	0.154092	3.640292	0.000334
SEP15.A0A0B4J1S4	-0.021102	0.219239	-0.09625	0.923359	-0.36752	0.562814	-0.65301	0.514234	-0.03632	0.16753	-0.21678	0.828526
METTL5.B8ZZC8	-0.013508	0.140701	-0.09601	0.923584	0.398448	0.362289	1.099807	0.272962	0.042508	0.109396	0.388567	0.69808
SPTLC1.O15269	0.0161099	0.168432	0.095646	0.92384	-0.1496	0.44888	-0.33328	0.73915	0.04087	0.133538	0.306053	0.75977

PPP2R1A.P30153	-0.025866	0.270943	-0.09547	0.923981	-0.12089	0.696412	-0.1736	0.862296	0.199822	0.206869	0.965932	0.334831
ANKRD39.Q53RE8	0.0161247	0.169083	0.095366	0.924088	0.313589	0.414174	0.757142	0.449851	-0.04329	0.129769	-0.33358	0.739043
TTC37.Q6PGP7	-0.019786	0.208281	-0.095	0.924356	-0.32785	0.53131	-0.61706	0.53765	0.023587	0.158147	0.149148	0.881534
ANPEP.P15144	0.0119384	0.125939	0.094795	0.924516	0.215798	0.311773	0.692164	0.489352	0.112276	0.092599	1.21249	0.226248
CACNA1A.O00555.4	0.0245488	0.259283	0.094679	0.924607	0.548202	0.659742	0.830933	0.406651	0.09283	0.196409	0.472636	0.636806
C2orf88.Q9BSF0	-0.012717	0.134966	-0.09422	0.92497	0.154708	0.3594	0.43046	0.667173	-0.0174	0.104634	-0.1663	0.868037
BSG.P35613	0.0192501	0.204882	0.093957	0.925181	0.943611	0.555466	1.698772	0.090365	-0.10955	0.165892	-0.66039	0.509496
SEMA4A.Q9H3S1	0.0113391	0.121376	0.093421	0.925607	-0.1012	0.297381	-0.34031	0.733861	0.104826	0.089068	1.17692	0.240145
DCLK1.Q5VZY9	0.0109755	0.11768	0.093265	0.925749	0.480467	0.320521	1.499016	0.135386	-0.03556	0.091022	-0.39065	0.696454
GGACT.Q9BVM4	-0.010443	0.112087	-0.09317	0.925807	0.062857	0.28042	0.224152	0.822786	0.121727	0.08314	1.464119	0.144175
ASMTL.O95671	-0.009269	0.099648	-0.09302	0.925928	-0.0995	0.252713	-0.39371	0.694063	0.03016	0.075177	0.401193	0.688555
GFOD1.Q9NXC2	-0.025313	0.272411	-0.09292	0.926002	-0.54795	0.673688	-0.81336	0.416636	0.364951	0.19955	1.828868	0.06838
MDGA1.Q8NFP4	-0.011797	0.127074	-0.09284	0.926081	-0.2623	0.322301	-0.81385	0.416495	0.179699	0.100376	1.790254	0.074604
PTPRF.H0Y4H1	0.0114284	0.123111	0.09283	0.926086	-0.12542	0.3213	-0.39034	0.696624	0.041878	0.091244	0.458965	0.646668
FOXO3.O43524	0.0122896	0.132527	0.092733	0.926159	0.188987	0.328879	0.57464	0.566019	-0.26056	0.096745	-2.69327	0.007523
CHP1.Q99653	0.0222321	0.240106	0.092593	0.926264	0.396161	0.62866	0.630167	0.52905	-0.17015	0.186885	-0.91046	0.363285
DPH5.Q9H2P9	0.0184036	0.198967	0.092496	0.926342	-0.85109	0.540402	-1.57492	0.116312	0.100083	0.161675	0.619038	0.536353
RNF126.Q9BV68.2	0.0156149	0.16966	0.092036	0.926706	-0.01342	0.502918	-0.02669	0.978728	0.136902	0.15059	0.909102	0.364016
TMEM70.Q9BUB7	-0.011922	0.130001	-0.09171	0.926971	0.513607	0.301646	1.702679	0.089689	-0.04135	0.090842	-0.45514	0.649347
ENO2.P09104	0.0106187	0.115915	0.091608	0.927046	0.173202	0.309981	0.558749	0.576736	0.349483	0.0901	3.87884	0.000128
PDCD6IP.F8WDK9	-0.017758	0.194107	-0.09149	0.927142	0.12115	0.479215	0.25281	0.800582	0.152611	0.142309	1.072394	0.284377
IGSF8.Q969P0	0.0201596	0.220478	0.091436	0.927183	0.054473	0.603691	0.090234	0.92816	0.028025	0.179583	0.156058	0.876089
NKIRAS2.Q9NYR9	-0.01246	0.136354	-0.09138	0.927239	0.154122	0.391612	0.393557	0.694242	0.037029	0.11327	0.326912	0.744007
FAM162B.Q5T6X4	-0.00938	0.102755	-0.09129	0.927305	0.044931	0.279312	0.160864	0.872316	-0.04854	0.080998	-0.59931	0.549452
SAP130.Q9H0E3	-0.01705	0.18739	-0.09099	0.927549	-0.18867	0.461419	-0.40889	0.682984	0.057609	0.131309	0.438729	0.661249
NSA2.O95478	-0.016217	0.178635	-0.09078	0.927745	-0.72769	0.44214	-1.64585	0.101946	-0.0096	0.13005	-0.0738	0.94127
EDC3.Q96F86	-0.02141	0.236492	-0.09053	0.927902	-0.5744	0.590406	-0.97289	0.331368	-0.10015	0.175811	-0.56964	0.569334
STMN4.Q9H169	0.0134347	0.148493	0.090474	0.927948	0.003526	0.374726	0.00941	0.992498	0.119944	0.108845	1.101972	0.271366
PET100.A0A0A0MSK2	-0.011339	0.125661	-0.09024	0.928137	0.307144	0.328937	0.933747	0.351173	-0.08139	0.098755	-0.82416	0.410494
FAM120A.Q9NZB2	0.0269223	0.298607	0.09016	0.928196	-1.00611	0.780166	-1.28961	0.198148	-1.05705	0.22483	-4.70155	3.89E-06
EDEM3.Q9BZQ6	-0.010522	0.116904	-0.09	0.92835	0.273551	0.319837	0.855281	0.393659	0.042123	0.092377	0.455988	0.649009
EIF3J.O75822	-0.024968	0.278873	-0.08953	0.928694	0.013322	0.757473	0.017588	0.985979	-0.34015	0.224505	-1.51513	0.130758
WDR13.A0A087X091	0.0145325	0.162824	0.089253	0.928928	-0.601	0.490849	-1.22442	0.222075	-0.22603	0.148919	-1.51783	0.13046
DHX38.Q92620	0.0114753	0.129107	0.088883	0.929212	-0.11744	0.342717	-0.34266	0.732091	0.097667	0.101084	0.966187	0.334729

UTP18.Q9Y5J1	-0.015193	0.171742	-0.08846	0.929577	-0.26912	0.45604	-0.59012	0.55592	0.026215	0.130399	0.201037	0.840917
OAS3.Q9Y6K5	-0.005909	0.067096	-0.08807	0.929861	-0.11824	0.171996	-0.68743	0.492362	0.030757	0.050169	0.613067	0.540314
NAT10.Q9H0A0	0.0197347	0.224919	0.087741	0.930118	-0.25414	0.608309	-0.41779	0.676401	0.164005	0.179467	0.913842	0.361534
CRABP2.P29373	-0.007486	0.085621	-0.08743	0.930367	-0.09863	0.205535	-0.47989	0.631652	0.103917	0.061423	1.691818	0.091702
GTF2B.Q00403	-0.011866	0.136359	-0.08702	0.930691	-0.24742	0.366428	-0.67521	0.500043	0.10835	0.108912	0.994837	0.320591
BAD.Q92934	-0.013059	0.150068	-0.08702	0.930692	-0.51457	0.379846	-1.35467	0.176585	-0.17602	0.113656	-1.54872	0.122547
GABRG1.Q8N1C3	0.0176212	0.202435	0.087046	0.930698	-0.16727	0.52969	-0.31579	0.752549	-0.38144	0.154847	-2.46334	0.014761
TBC1D25.Q3MII6	0.0128347	0.147662	0.086919	0.930775	0.448345	0.36091	1.242264	0.215205	0.028147	0.108932	0.258395	0.796296
TYRO3.Q06418	-0.020621	0.237832	-0.0867	0.930941	-0.05583	0.589643	-0.09469	0.924621	0.016453	0.175408	0.093796	0.925332
LRRC14.Q15048	0.0142246	0.164721	0.086356	0.931218	0.058588	0.440979	0.132859	0.894391	0.187558	0.130754	1.43443	0.152458
APOA1.P02647	0.0037652	0.043626	0.086305	0.931258	0.074494	0.105253	0.707757	0.479628	0.025344	0.031303	0.809616	0.418782
GNPTG.Q9UJJ9	-0.011035	0.128153	-0.08611	0.931425	-0.37718	0.304315	-1.23944	0.216379	-0.03942	0.093218	-0.42292	0.672729
PGK1.P00558	-0.017962	0.209987	-0.08554	0.931868	0.728148	0.523636	1.390561	0.165356	0.15447	0.156011	0.990125	0.322885
CDK5R2.Q13319	-0.010053	0.117862	-0.0853	0.932086	-0.24523	0.315574	-0.77711	0.438104	-0.10499	0.093898	-1.11813	0.264985
PANK4.Q9NVE7	0.0226426	0.266246	0.085044	0.93226	0.797546	0.659945	1.208504	0.227774	0.593116	0.193879	3.059206	0.002413
MECR.Q9BV79	-0.016957	0.199399	-0.08504	0.932261	0.100202	0.522142	0.191906	0.847942	-0.30967	0.154338	-2.00643	0.045679
RPS11.P62280	-0.026606	0.31286	-0.08504	0.932262	-1.84086	0.798433	-2.30559	0.021793	-0.02245	0.239544	-0.09373	0.925382
COA5.Q86WW8	-0.011189	0.131637	-0.085	0.932295	-0.03572	0.317912	-0.11235	0.910616	-0.28452	0.093184	-3.05325	0.00246
GMPPB.Q9Y5P6	0.0164538	0.193629	0.084976	0.932314	0.348411	0.505718	0.688943	0.491375	0.363527	0.149135	2.437575	0.015348
IFITM10.A6NMD0	0.0108403	0.127692	0.084894	0.932399	0.284493	0.293414	0.969595	0.333391	-0.08159	0.087346	-0.9341	0.35135
HLA.E.P13747	-0.008068	0.095426	-0.08454	0.932662	0.137619	0.244796	0.56218	0.574429	-0.05828	0.075033	-0.77679	0.437918
THUMPD3.Q9BV44	-0.015732	0.186245	-0.08447	0.932718	-0.5937	0.48471	-1.22487	0.221587	0.056619	0.14348	0.394613	0.693409
MRPS11.P82912	-0.010554	0.125431	-0.08414	0.932975	0.413374	0.316941	1.304262	0.193112	0.031867	0.094525	0.337131	0.736246
SEC24A.O95486	0.020967	0.249797	0.083936	0.93314	0.249905	0.634842	0.393648	0.694111	0.132959	0.188751	0.704415	0.481703
C20orf27.Q9GZN8	0.014855	0.17761	0.083639	0.933377	0.0457	0.466705	0.09792	0.922059	0.051656	0.138808	0.37214	0.710043
ADH1B.P00325	0.0039447	0.04717	0.083626	0.933387	-0.27578	0.115291	-2.39204	0.01735	-0.01094	0.034607	-0.31606	0.752166
LRRFIP2.H7C3N9	0.01487	0.179036	0.083056	0.933844	0.43091	0.452228	0.952861	0.341474	0.229416	0.137867	1.664034	0.097212
PWP1.Q13610	0.0170276	0.205058	0.083038	0.933856	-0.40444	0.506481	-0.79852	0.425227	-0.02207	0.146393	-0.15077	0.880267
FAM129A.Q9BZQ8	-0.007563	0.091177	-0.08295	0.93393	0.203151	0.231748	0.876601	0.381447	0.015695	0.068915	0.227744	0.82001
MYT1L.Q9UL68	-0.009952	0.120276	-0.08275	0.934104	-0.02856	0.335605	-0.08511	0.932256	-0.18908	0.097473	-1.93986	0.053775
CCDC43.Q96MW1	-0.01876	0.227224	-0.08256	0.934232	-0.24158	0.559111	-0.43208	0.665984	-0.28228	0.165601	-1.70459	0.089273
MT1E.P04732	0.0041913	0.050862	0.082405	0.934357	-0.01094	0.133941	-0.08167	0.934966	0.052114	0.039735	1.311536	0.190647
JAM2.P57087	0.0128151	0.15631	0.081985	0.934691	-0.63059	0.39978	-1.57733	0.115739	-0.04668	0.119374	-0.39107	0.696013
FAHD1.Q6P587	0.0097257	0.119116	0.081649	0.934959	0.039391	0.298117	0.132134	0.894964	-0.01852	0.088681	-0.20888	0.834681

RAB24.Q969Q5	-0.023025	0.282174	-0.0816	0.934997	0.345456	0.736712	0.468916	0.639459	0.464872	0.217641	2.135956	0.033466
URGCP.Q8TCY9	-0.015523	0.191001	-0.08127	0.935259	0.976614	0.507654	1.923779	0.055354	0.266598	0.150845	1.767368	0.078211
HNRNPD.Q14103.3	-0.010191	0.125514	-0.08119	0.935321	0.131484	0.324488	0.405204	0.685607	-0.26277	0.095395	-2.75453	0.006225
HSPA13.P48723	-0.018696	0.23045	-0.08113	0.935373	-0.51038	0.57578	-0.88642	0.37608	0.517068	0.168968	3.060147	0.002406
UBXN2B.Q14CS0	-0.012572	0.155477	-0.08086	0.935584	-0.1365	0.368932	-0.36998	0.71165	0.064118	0.109715	0.584406	0.559372
PLEKHO1.Q53GL0	0.010783	0.133439	0.080808	0.935626	-0.45428	0.359493	-1.26367	0.207299	-0.36054	0.105244	-3.42576	0.000696
CDK18.Q07002	0.0139182	0.172556	0.080659	0.935745	-0.49995	0.432954	-1.15475	0.249083	0.135438	0.128843	1.051179	0.293995
CTBS.Q01459	0.0079218	0.098411	0.080497	0.935881	-0.37866	0.258891	-1.46261	0.144805	-0.03385	0.078598	-0.43069	0.667057
CYC1.P08574	0.0176742	0.22001	0.080334	0.936004	0.247863	0.587597	0.421825	0.673445	0.025593	0.174844	0.146378	0.883718
HCFC1.P51610	-0.008354	0.104462	-0.07997	0.936304	-0.37811	0.267644	-1.41275	0.159088	0.014781	0.081656	0.181022	0.85651
ST8SIA3.O43173	0.0108381	0.135726	0.079853	0.936386	0.075786	0.328095	0.230988	0.817476	-0.08357	0.097495	-0.85715	0.392022
HSPA12B.Q96MM6	-0.017549	0.219893	-0.07981	0.936421	-0.49129	0.535422	-0.91757	0.359555	0.036572	0.159481	0.229316	0.818775
MTOR.P42345	-0.036823	0.46269	-0.07959	0.936599	0.615555	1.226036	0.502069	0.615975	-0.46956	0.363896	-1.29037	0.197883
SELENBP1.Q13228	0.0096989	0.12208	0.079447	0.936709	0.540088	0.301562	1.790967	0.074274	0.163095	0.089695	1.818327	0.069979
COQ10A.Q96MF6	0.0125505	0.158462	0.079202	0.936906	0.262976	0.43722	0.601474	0.547997	-0.08557	0.128766	-0.66451	0.506899
RNF5.Q99942	-0.010418	0.131784	-0.07905	0.937027	-0.21169	0.375676	-0.5635	0.573541	-0.02398	0.11179	-0.21455	0.830277
PPP1R8.Q12972	0.0096616	0.122335	0.078977	0.937083	0.167296	0.331969	0.503952	0.614663	-0.10551	0.098734	-1.06864	0.286086
KRT16.P08779	0.0028105	0.03576	0.078594	0.937391	0.094301	0.092282	1.021874	0.307735	0.000251	0.027909	0.008986	0.992837
DIP2C.Q9Y2E4	-0.023079	0.293751	-0.07857	0.937408	-0.49866	0.809989	-0.61564	0.538584	0.304455	0.240484	1.266012	0.206459
FBXW9.Q5XUX1.3	0.0164384	0.209502	0.078464	0.937493	-0.83827	0.556064	-1.50751	0.132805	-0.0947	0.163491	-0.57921	0.562915
ASIC2.Q16515	0.0118454	0.151327	0.078277	0.937641	-0.41877	0.384168	-1.09007	0.276598	-0.16014	0.109681	-1.46007	0.145365
MTIF3.Q9H2K0	0.0145954	0.187048	0.07803	0.937835	1.60406	0.47249	3.394909	0.000776	-0.00355	0.143146	-0.02479	0.980242
PDLIM1.O00151	-0.006867	0.088096	-0.07795	0.937902	-0.05222	0.220244	-0.23712	0.812732	0.001419	0.065593	0.021636	0.982753
FRMD8.Q9BZ67	0.0111583	0.143387	0.07782	0.938004	-0.19472	0.386945	-0.50323	0.615183	-0.11	0.115331	-0.95378	0.340991
PPP2CA.P67775	0.0072606	0.093365	0.077766	0.938045	-0.42247	0.25857	-1.63387	0.103302	0.113073	0.076983	1.468802	0.1429
RGS7BP.Q6MZT1	0.0110726	0.143	0.077431	0.938312	-0.28508	0.368258	-0.77414	0.43944	-0.05041	0.109619	-0.45985	0.645943
XXYL1.Q8NBI6	-0.01245	0.160838	-0.07741	0.938355	-0.00451	0.494427	-0.00913	0.992726	0.167238	0.144086	1.160683	0.24737
STARD3NL.O95772	0.0133577	0.172866	0.077272	0.938439	-0.39734	0.43549	-0.9124	0.362296	-0.20449	0.13014	-1.57128	0.117179
RASD1.Q9Y272	-0.012838	0.166412	-0.07715	0.938565	-0.30598	0.407474	-0.75093	0.453748	0.250155	0.135004	1.852936	0.065646
DPP7.Q9UHL4	0.0056077	0.073265	0.07654	0.93902	0.27103	0.1816	1.492455	0.136597	-0.10121	0.053911	-1.87736	0.061407
FLT1.P17948.2	0.0054492	0.071218	0.076515	0.939068	0.031136	0.176292	0.176617	0.86003	-0.07797	0.055553	-1.40347	0.162392
CCDC22.O60826	-0.026951	0.352786	-0.07639	0.939136	1.84174	0.970869	1.897002	0.058757	0.508824	0.289047	1.760354	0.079334
CSRP1.E9PND2	0.005316	0.069809	0.07615	0.939345	0.010907	0.183759	0.059355	0.952726	0.027796	0.053634	0.518256	0.604833
TTC28.Q96AY4	-0.011456	0.15072	-0.07601	0.939461	-0.31785	0.406474	-0.78198	0.435139	0.10525	0.12475	0.843683	0.399839

RNASET2.D6RHI9	-0.007554	0.099587	-0.07586	0.939564	0.281977	0.253782	1.111098	0.267387	0.146978	0.075184	1.954911	0.051492
USP4.Q13107	-0.017318	0.228695	-0.07573	0.939667	-0.48914	0.582729	-0.83939	0.401897	-0.07935	0.17349	-0.45738	0.647715
ARID1B.Q8NFD5	-0.012493	0.165571	-0.07546	0.939885	-0.48306	0.445445	-1.08445	0.279103	0.140605	0.131454	1.069608	0.28572
DDB1.Q16531	0.0295218	0.39228	0.075257	0.94004	1.915687	1.005951	1.904354	0.05779	0.144694	0.300886	0.480892	0.630933
TMEM173.Q86WV6	0.0087633	0.116802	0.075027	0.940238	-0.02115	0.286846	-0.07375	0.941284	-0.05133	0.087001	-0.59004	0.555804
ELP5.Q8TE02	0.0075487	0.100696	0.074966	0.94028	0.265533	0.26708	0.994209	0.32111	-0.03524	0.077777	-0.45309	0.650885
DLC1.Q96QB1	0.0086733	0.115762	0.074923	0.940313	-0.14135	0.293173	-0.48213	0.630147	0.100521	0.084683	1.187036	0.236363
CDC26.Q8NHZ8	-0.012101	0.161786	-0.0748	0.940406	-0.46505	0.422584	-1.1005	0.272006	-0.38128	0.123189	-3.09507	0.002155
C14orf169.Q9H6W3	-0.013668	0.183296	-0.07457	0.940599	1.267481	0.498768	2.541224	0.011711	0.147509	0.151158	0.975859	0.330168
NLN.Q9BYT8	-0.008833	0.119249	-0.07407	0.940986	0.173011	0.304702	0.567805	0.570578	-0.13082	0.090386	-1.4474	0.148795
EGLN1.Q9GZT9	0.0171721	0.232029	0.074009	0.941033	0.948912	0.615322	1.542139	0.12406	-0.60685	0.180487	-3.36229	0.00087
CYB561.F5H757	0.0085296	0.115329	0.073959	0.941077	0.239408	0.320073	0.74798	0.45514	0.089638	0.092873	0.965171	0.335346
PTPRS.G8JL96	0.0097439	0.131822	0.073917	0.941115	-0.49268	0.348471	-1.41383	0.158707	-0.11381	0.103419	-1.10048	0.272225
PPP4C.P60510	-0.015937	0.216718	-0.07354	0.941406	-0.67923	0.533867	-1.27228	0.204227	0.096007	0.159137	0.6033	0.54675
ICMT.O60725	-0.012329	0.167635	-0.07355	0.941408	-0.13479	0.402637	-0.33476	0.738092	0.032274	0.119311	0.270502	0.786999
JAK2.O60674	-0.011564	0.157601	-0.07337	0.941544	0.259542	0.435582	0.595851	0.55181	0.034623	0.123451	0.280461	0.779354
ARHGAP31.Q2M1Z3	0.0103031	0.140833	0.073158	0.941728	0.54678	0.349333	1.56521	0.11918	0.075901	0.107097	0.708718	0.479359
ABCD2.Q9UBJ2	-0.013143	0.179762	-0.07311	0.941746	0.158351	0.448764	0.35286	0.724433	-0.16147	0.133211	-1.21214	0.22638
ABRACL.Q9P1F3	0.0056744	0.077689	0.073039	0.941821	-0.05187	0.222735	-0.23286	0.816111	-0.06742	0.066158	-1.01901	0.309447
FUK.Q8N0W3	0.0144639	0.198209	0.072973	0.941856	-0.08129	0.509717	-0.15949	0.87339	-0.15623	0.151378	-1.03208	0.302838
VWA7.Q9Y334	-0.007918	0.109301	-0.07244	0.942279	-0.12933	0.269563	-0.47977	0.631727	0.025571	0.080207	0.318819	0.750078
COPS4.Q9BT78	-0.029318	0.405675	-0.07227	0.942417	0.566882	0.99746	0.568326	0.570225	0.585864	0.295011	1.985909	0.047924
LANCL1.O43813	0.0160505	0.222172	0.072244	0.942437	-0.30229	0.544413	-0.55525	0.579123	0.124143	0.16188	0.766882	0.443735
TNPO2.O14787.2	0.0186659	0.259079	0.072047	0.942593	0.103833	0.683591	0.151893	0.87937	0.209461	0.203016	1.03175	0.302994
FAM162A.F8W7Q4	-0.010489	0.145939	-0.07188	0.94273	0.301302	0.382024	0.788699	0.430891	-0.16098	0.113391	-1.41966	0.156712
HSP90AB1.P08238	-0.011007	0.153503	-0.0717	0.942867	-0.65826	0.377782	-1.74243	0.082424	0.282988	0.111783	2.531589	0.011849
TXNRD2.Q9NNW7	0.0088521	0.123619	0.071608	0.942942	-0.35161	0.317552	-1.10724	0.269048	-0.00135	0.094653	-0.01425	0.988636
IST1.P53990.2	-0.022013	0.308889	-0.07127	0.943215	-0.78551	0.786811	-0.99835	0.318888	0.377256	0.233457	1.615957	0.107121
ARFGAP3.Q9NP61	-0.018168	0.255054	-0.07123	0.943241	-0.26118	0.61387	-0.42546	0.670796	0.030647	0.182661	0.16778	0.866866
ANK2.H0Y8Y2	-0.00762	0.107158	-0.07111	0.943341	0.30125	0.269391	1.118261	0.264344	-0.09146	0.081276	-1.12527	0.261368
KPNA4.O00629	-0.019981	0.281019	-0.0711	0.943345	0.025355	0.734673	0.034512	0.972491	-0.06098	0.218525	-0.27907	0.780381
KTI12.Q96EK9	0.0093038	0.130992	0.071025	0.943408	-0.01312	0.354723	-0.03699	0.970521	0.223958	0.106748	2.098007	0.036755
GNG13.Q9P2W3	0.006232	0.087886	0.07091	0.943497	0.075297	0.22641	0.332569	0.739685	0.058097	0.067284	0.863449	0.388558
SLC25A10.Q9UBX3	-0.011918	0.168093	-0.0709	0.943504	-0.01737	0.437517	-0.03971	0.968348	-0.00817	0.130153	-0.0628	0.949968

CHGB.P05060	-0.008705	0.1231	-0.07072	0.943651	0.110427	0.310545	0.355592	0.722388	0.010223	0.092399	0.110641	0.911973
C2orf43.B5MDU6	0.0105843	0.150029	0.070548	0.943787	-0.49995	0.373566	-1.33831	0.181843	0.067288	0.112026	0.600647	0.548544
TRIM46.Q7Z4K8	-0.015217	0.216093	-0.07042	0.943887	-0.65561	0.569765	-1.15067	0.250755	0.130858	0.169694	0.771141	0.441211
PSMD1.A0A087WW66	0.022182	0.316275	0.070135	0.944114	0.095628	0.81051	0.117984	0.906156	0.307145	0.240486	1.277186	0.202492
SYNGR1.B5MCD7	-0.010073	0.143676	-0.07011	0.944135	-0.79269	0.353025	-2.24542	0.025446	-0.01421	0.105866	-0.1342	0.893332
BLOC1S1.P78537	-0.01459	0.208192	-0.07008	0.944156	0.047018	0.512435	0.091754	0.926953	0.258616	0.151733	1.704416	0.089305
HECTD1.Q9ULT8	-0.025296	0.361038	-0.07006	0.944171	0.056249	0.918434	0.061244	0.951204	0.101111	0.273159	0.370156	0.711519
SULT1A1.P50225	-0.003518	0.050388	-0.06982	0.944366	-0.0031	0.13121	-0.02361	0.981176	0.014949	0.039024	0.38307	0.70193
RAB40C.Q96S21	-0.011463	0.164455	-0.0697	0.944457	-0.52894	0.43521	-1.21538	0.225178	0.164364	0.128506	1.279044	0.20187
TMEM145.Q8NBT3	-0.010156	0.146131	-0.0695	0.944618	-0.22583	0.404121	-0.55881	0.576693	0.00837	0.120279	0.06959	0.944565
BOD1L1.Q8NFC6	0.0115543	0.166606	0.069351	0.944741	-0.75824	0.43152	-1.75714	0.080011	-0.29412	0.13063	-2.25154	0.025144
X0.H3BN98	-0.015708	0.226689	-0.06929	0.944783	-0.32633	0.619414	-0.52684	0.598684	0.136298	0.184184	0.740009	0.459854
PNKD.Q8N490.2	0.0115566	0.167088	0.069164	0.944886	-0.85698	0.445185	-1.925	0.055144	-0.41925	0.131079	-3.19845	0.001525
PURG.Q9UJV8	0.0119424	0.172743	0.069134	0.94491	-0.4889	0.428715	-1.14039	0.255006	-0.13536	0.127571	-1.06105	0.289491
TACC1.O75410	-0.009237	0.133703	-0.06909	0.944961	-0.13229	0.354853	-0.3728	0.709668	-0.36104	0.102112	-3.53572	0.0005
ATP13A1.Q9HD20	0.0216121	0.313128	0.06902	0.945001	-1.2264	0.798347	-1.53617	0.125516	0.216981	0.238078	0.911386	0.3628
AP5S1.Q9NUS5	-0.010413	0.151195	-0.06887	0.945138	-0.21054	0.423482	-0.49715	0.619663	0.094775	0.123241	0.769023	0.442845
PICALM.H0YEY8	0.0113012	0.164246	0.068807	0.945184	0.186759	0.403629	0.462699	0.644061	-0.27612	0.118565	-2.32883	0.020824
C2CD5.Q86YS7.3	0.0237963	0.346548	0.068667	0.945282	0.408852	0.897696	0.455446	0.649107	0.651443	0.264563	2.462332	0.014347
TACC1.O75410.2	-0.020713	0.301695	-0.06866	0.945291	0.207366	0.760228	0.272768	0.785213	0.086288	0.226128	0.38159	0.703027
DNAJA4.Q8WW22	-0.010682	0.157803	-0.0677	0.946055	0.764145	0.397734	1.921247	0.055617	0.045735	0.118993	0.38435	0.700983
USP25.Q9UHP3	0.0199717	0.300622	0.066435	0.947058	-0.07838	0.732217	-0.10705	0.914818	0.219517	0.217468	1.009419	0.313561
DDX10.Q13206	-0.007271	0.110046	-0.06607	0.947372	-0.02118	0.311137	-0.06803	0.945845	0.055279	0.085317	0.647918	0.517961
MMAB.Q96EY8	0.0052076	0.0791	0.065836	0.947534	-0.19671	0.203833	-0.96508	0.335259	0.121759	0.060333	2.018131	0.044439
CAB39.Q9Y376	0.0141568	0.215061	0.065827	0.947542	0.299751	0.549034	0.54596	0.585486	0.156523	0.163164	0.959296	0.338157
IKBKB.O14920	-0.013515	0.205573	-0.06574	0.947611	0.552102	0.549593	1.004566	0.315929	0.270311	0.162206	1.666474	0.09668
POLB.P06746	-0.006588	0.100366	-0.06564	0.947705	-0.09087	0.237988	-0.38181	0.702978	-0.10203	0.073339	-1.39124	0.165598
UQCR10.Q9UDW1	0.0053536	0.081732	0.065501	0.947801	0.16199	0.22185	0.730182	0.465831	0.092385	0.065844	1.403079	0.161594
MAP9.Q49MG5	0.0098853	0.15145	0.065271	0.947984	-0.26673	0.37971	-0.70245	0.482927	-0.51624	0.109178	-4.72844	3.44E-06
PDE6D.O43924	-0.010331	0.158977	-0.06498	0.948214	1.046904	0.40581	2.579788	0.010346	-0.08933	0.121905	-0.73277	0.464253
TSC22D1.Q15714.2	-0.007615	0.117262	-0.06494	0.948246	0.496954	0.282845	1.756985	0.079908	-0.09893	0.084372	-1.17259	0.24186
ARPC4.P59998	0.0165228	0.255302	0.064719	0.948424	-1.0411	0.63523	-1.63893	0.102242	0.334978	0.188831	1.773957	0.077052
PGRMC1.O00264	0.0137425	0.213464	0.064379	0.948694	-0.42342	0.527563	-0.80259	0.422824	0.170465	0.156805	1.087116	0.27783
COMMD8.Q9NX08	-0.016791	0.261013	-0.06433	0.948734	-0.38236	0.668457	-0.572	0.567733	0.300488	0.198226	1.51589	0.130566

MEF2C.Q06413	-0.009432	0.146634	-0.06433	0.948736	-0.56162	0.390503	-1.4382	0.151403	-0.06839	0.116758	-0.58572	0.558497
RBMS1.F6Y5H0	-0.008285	0.129401	-0.06403	0.949004	-0.31464	0.318112	-0.98907	0.324286	0.069689	0.095005	0.733531	0.464427
ANP32E.Q9BT0	0.0057892	0.090899	0.063689	0.949243	0.007762	0.227861	0.034065	0.972847	-0.02573	0.067769	-0.37971	0.704421
CADPS2.F8W8P5	0.0083182	0.130703	0.063642	0.949282	0.230335	0.322009	0.715305	0.475002	-0.0087	0.096232	-0.09041	0.928021
SMG9.Q9H0W8	-0.010161	0.160403	-0.06335	0.949521	-0.31116	0.385634	-0.80689	0.420504	-0.14485	0.114079	-1.26976	0.20536
SYTL4.Q96C24	-0.004941	0.07807	-0.06329	0.949569	-0.0528	0.211679	-0.24945	0.803213	0.112396	0.06368	1.765012	0.078736
PIGG.E7EM50	-0.008139	0.129126	-0.06303	0.94978	-0.07652	0.319726	-0.23933	0.811083	0.072681	0.098383	0.738762	0.460873
PTPRC.P08575	-0.006683	0.106177	-0.06294	0.94984	-0.23126	0.266108	-0.86906	0.385489	0.136273	0.07888	1.727595	0.085057
PF4.P02776	-0.002751	0.043807	-0.06279	0.949959	0.109567	0.11683	0.937828	0.349108	0.018081	0.0346	0.522558	0.601678
WIPF3.A6NGB9	0.0073907	0.11779	0.062745	0.949995	0.313923	0.289075	1.085955	0.278343	-0.15854	0.085686	-1.85028	0.065224
HSPA1B.P08107	-0.008371	0.133707	-0.06261	0.950102	-0.15031	0.330475	-0.45483	0.649551	0.112166	0.098137	1.142955	0.253939
TOMM20.Q15388	0.0095784	0.153091	0.062567	0.950136	0.228668	0.394131	0.580182	0.562213	-0.39552	0.11514	-3.43514	0.000673
ST5.P78524	0.0087995	0.140787	0.062502	0.950192	-0.13059	0.391848	-0.33325	0.739207	-0.13435	0.115482	-1.16335	0.24574
KRR1.Q13601	-0.00731	0.117287	-0.06232	0.95034	0.256205	0.345739	0.741036	0.459462	-0.0074	0.101566	-0.07285	0.94199
VCIPI1.Q96JH7	0.022492	0.361778	0.062171	0.950451	2.295279	0.908203	2.527274	0.011992	-0.37223	0.272124	-1.36788	0.17234
NCK1.P16333	-0.019342	0.31123	-0.06215	0.95047	-0.16832	0.751979	-0.22384	0.82303	0.110323	0.223631	0.493324	0.622133
EMG1.Q92979	0.0123539	0.198738	0.062162	0.950476	-0.22286	0.551355	-0.40421	0.68654	0.060393	0.151467	0.39872	0.690575
GGCX.P38435	0.0068001	0.109518	0.062092	0.950522	0.171204	0.294549	0.581242	0.561627	-0.02616	0.087511	-0.29895	0.765239
NDUFB6.O95139	0.0128343	0.206909	0.062029	0.950565	-0.0203	0.548652	-0.03701	0.970502	0.002955	0.163215	0.018105	0.985567
X0.P01769	0.0027676	0.044767	0.061821	0.950735	0.106507	0.113918	0.934941	0.350676	0.022564	0.033335	0.676891	0.49907
SLC2A13.Q96QE2	-0.009042	0.146696	-0.06164	0.950876	-0.02781	0.355352	-0.07826	0.93767	0.002769	0.105712	0.02619	0.979122
STIM2.Q9P246.2	-0.012101	0.196729	-0.06151	0.950976	0.644865	0.494081	1.305182	0.192821	0.111157	0.148909	0.746477	0.455958
CAMK2G.Q5SWX3	0.0093399	0.151952	0.061466	0.951012	-0.15523	0.386008	-0.40215	0.687852	-0.05088	0.114824	-0.44313	0.65798
DDX18.Q9NVP1	0.0123452	0.201102	0.061388	0.951075	-0.75448	0.492131	-1.53308	0.126276	-0.02377	0.146948	-0.16174	0.871615
INPP5K.Q9BT40	-0.013625	0.222222	-0.06131	0.951133	-0.29107	0.53315	-0.54594	0.5855	-0.43791	0.156718	-2.79428	0.005525
TMED4.Q7Z7H5	-0.012132	0.198909	-0.06099	0.951391	-0.57181	0.488614	-1.17027	0.24279	0.093791	0.145577	0.644267	0.519879
COL1A2.A0A087WTA8	0.0012542	0.02077	0.060389	0.95187	-0.03987	0.053289	-0.74826	0.454872	-0.00946	0.015858	-0.5967	0.551143
CLIC2.O15247	0.0085586	0.141774	0.060368	0.951889	0.18598	0.371071	0.501197	0.616623	-0.1673	0.11068	-1.5116	0.131757
TMEM55A.Q8N4L2	0.009683	0.160725	0.060246	0.951984	-0.30834	0.422585	-0.72965	0.466152	-0.33554	0.124368	-2.69793	0.007359
GALNT16.Q8N4Z8	0.0094998	0.157773	0.060212	0.952012	0.043422	0.410166	0.105864	0.915763	0.149757	0.12133	1.234294	0.218079
VPS16.Q9H269	-0.021135	0.353046	-0.05987	0.952287	-0.36338	0.872101	-0.41667	0.677207	0.251111	0.259115	0.969111	0.333245
CDH2.P19022	0.0183785	0.307202	0.059825	0.952318	0.352377	0.803864	0.438354	0.661435	0.198605	0.238943	0.831179	0.406512
NCBP2.P52298	0.0109174	0.183665	0.059442	0.952624	-0.86636	0.42782	-2.02505	0.04373	0.039603	0.128792	0.307496	0.758675
HBG2.P69891	0.0013583	0.022938	0.059215	0.952804	0.068518	0.060545	1.131698	0.258636	-0.00435	0.018046	-0.24121	0.809548

ANKRD63.C9JTQ0	0.0080664	0.136409	0.059134	0.952877	-0.55671	0.35987	-1.54697	0.123252	-0.29964	0.103819	-2.88614	0.004273
CEP250.Q9BV73	-0.003958	0.067026	-0.05905	0.95294	0.009483	0.184208	0.05148	0.95898	0.039009	0.055955	0.697153	0.486298
ABCC10.Q5T3U5	0.005426	0.092461	0.058684	0.953254	-0.08783	0.229662	-0.38241	0.702703	0.040055	0.063674	0.629057	0.530282
RPA3.P35244	-0.008888	0.152267	-0.05837	0.953477	0.464137	0.384094	1.208393	0.227817	0.028061	0.114519	0.245036	0.80659
DVL2.O14641	0.0081945	0.14138	0.057961	0.953815	0.41348	0.355447	1.163265	0.246074	-0.19342	0.102878	-1.88006	0.061518
LRG1.P02750	-0.002765	0.047796	-0.05785	0.953893	0.227578	0.119177	1.909585	0.05711	0.036081	0.035602	1.013444	0.311638
EPHX2.P34913	0.0037095	0.064243	0.057741	0.953978	0.155209	0.166798	0.93052	0.352826	-0.05226	0.0496	-1.05369	0.292845
RPIA.P49247	-0.010927	0.190352	-0.0574	0.954247	0.888561	0.466128	1.90626	0.057541	-0.04383	0.139453	-0.3143	0.753501
CSPG4.Q6UVK1	-0.008937	0.15715	-0.05687	0.954672	-0.18418	0.415859	-0.4429	0.658146	-0.10569	0.123604	-0.8551	0.393156
CYBRD1.Q53TN4	-0.004921	0.087006	-0.05656	0.954917	0.012418	0.223587	0.05554	0.955744	-0.02748	0.066495	-0.41324	0.679718
MRTO4.Q9UKD2	-0.010968	0.194898	-0.05628	0.955145	0.091618	0.484517	0.189091	0.850153	0.265441	0.14158	1.874849	0.061815
PTPRE.P23469	-0.013542	0.241637	-0.05604	0.955328	0.747256	0.62707	1.191663	0.234305	0.352357	0.185895	1.895462	0.058961
SSR1.C9IZQ1	0.0113727	0.20463	0.055577	0.955701	-0.76296	0.628115	-1.21468	0.225412	0.39592	0.185942	2.12926	0.034021
ASPH.Q12797	-0.010785	0.194811	-0.05536	0.955872	0.094129	0.523136	0.179933	0.857323	0.354844	0.154321	2.299383	0.022148
UBXN1.Q04323	0.0114998	0.209031	0.055015	0.956148	-0.14816	0.525763	-0.2818	0.778288	-0.43446	0.154467	-2.81267	0.005227
DNMBP.Q6XZF7	0.0068673	0.12536	0.054781	0.956348	0.286846	0.333292	0.860646	0.390444	0.077428	0.100404	0.771159	0.441505
NT5C1A.Q9BXI3	0.0077447	0.142	0.05454	0.956527	0.145093	0.354229	0.409601	0.682389	0.125255	0.105347	1.188977	0.235383
TTC38.Q5R3I4	-0.004464	0.081991	-0.05445	0.956598	0.276267	0.218421	1.264839	0.206907	0.062537	0.064775	0.96545	0.335094
EXOG.Q9Y2C4	-0.005967	0.109726	-0.05439	0.95665	-0.09838	0.312633	-0.31468	0.753213	-0.10913	0.092811	-1.17584	0.240563
CBLN1.P23435	0.0045892	0.08438	0.054388	0.956662	-0.27249	0.20842	-1.30742	0.192676	-0.01598	0.058107	-0.27493	0.783677
LGALS9.O00182	0.0057061	0.105849	0.053908	0.957035	-0.22995	0.289481	-0.79435	0.427736	0.157776	0.086519	1.823605	0.069392
STX10.O60499	-0.010291	0.191144	-0.05384	0.957096	0.285742	0.49498	0.57728	0.564322	0.219349	0.145353	1.50908	0.132669
BOLA3.Q53S33	0.0077469	0.144187	0.053728	0.957173	0.169875	0.364792	0.465677	0.641773	-0.05902	0.108505	-0.5439	0.586903
CLASP2.E7EW49	-0.017294	0.32396	-0.05338	0.957447	0.982716	0.861225	1.141067	0.254723	-0.3423	0.256	-1.3371	0.18217
FBXO44.Q9H4M3.2	-0.006857	0.128949	-0.05317	0.957614	0.044977	0.342446	0.131342	0.895593	-0.27409	0.099899	-2.7437	0.006441
RARRES2.Q99969	0.0062491	0.117715	0.053087	0.95769	-0.35709	0.292893	-1.21917	0.22396	0.014958	0.083713	0.178686	0.858333
FUS.P35637	-0.006455	0.122216	-0.05281	0.9579	-0.0232	0.307307	-0.07549	0.939876	-0.27087	0.090116	-3.00586	0.002865
AP3M1.Q9Y2T2	-0.016066	0.304505	-0.05276	0.957947	-0.2652	0.751189	-0.35304	0.724332	0.553397	0.220681	2.507674	0.012734
APLP1.B7Z4G8	0.0075914	0.143998	0.052719	0.957977	0.630864	0.390877	1.613968	0.107552	0.119217	0.11657	1.022708	0.307243
VCP.P55072	-0.017008	0.322697	-0.05271	0.957987	-0.06609	0.803647	-0.08224	0.934508	0.537716	0.237115	2.267748	0.024033
PTGES2.Q9H7Z7	0.0122182	0.232129	0.052636	0.958043	-0.52816	0.608382	-0.86814	0.385992	0.14712	0.18101	0.812772	0.416973
ARMC9.A0A087X1I8	0.0097638	0.185923	0.052516	0.958139	0.599633	0.468758	1.279194	0.201785	0.015136	0.139812	0.108263	0.913857
CHCHD1.Q96BP2	-0.00521	0.099207	-0.05252	0.958139	0.34091	0.281917	1.209256	0.227549	-0.14155	0.084002	-1.68508	0.093049
CERK.Q8TCT0	-0.008361	0.15935	-0.05247	0.958185	0.045959	0.410903	0.111848	0.911043	0.139897	0.121042	1.155777	0.248993

ALDOB.P05062	-0.003328	0.063437	-0.05247	0.958193	-0.37331	0.174367	-2.14094	0.033648	0.055116	0.05554	0.992374	0.32237
C9orf91.Q5VZI3	-0.007602	0.146076	-0.05204	0.958531	-0.37071	0.420213	-0.8822	0.37883	0.148488	0.132321	1.122173	0.263267
MLEC.Q14165	-0.013161	0.255619	-0.05149	0.958958	-0.27964	0.673233	-0.41536	0.678163	0.058776	0.200303	0.293435	0.769386
TNK2.Q07912	-0.010778	0.209569	-0.05143	0.959004	0.28754	0.560961	0.512585	0.608633	0.07461	0.163613	0.456014	0.648722
KCNAB2.Q13303.3	0.005011	0.097531	0.051379	0.959045	0.154464	0.245046	0.630344	0.528969	0.009921	0.070032	0.141665	0.887443
MTCH1.Q9NZJ7	0.0122984	0.240426	0.051152	0.959224	0.097393	0.613526	0.158743	0.873975	-0.22831	0.182059	-1.25405	0.21077
TK2.E5KNQ5	0.0103132	0.202421	0.050949	0.959386	-0.57206	0.522448	-1.09495	0.274388	0.180961	0.15538	1.164634	0.245063
SNRPD2.P62316	-0.007847	0.154035	-0.05094	0.959393	0.417413	0.387867	1.076174	0.282686	-0.14825	0.115292	-1.2859	0.199437
MT.ND5.P03915	0.0067239	0.132215	0.050856	0.959461	0.299515	0.363454	0.824079	0.410528	0.113789	0.108047	1.053151	0.293092
PID1.Q7Z2X4.4	-0.007789	0.153849	-0.05063	0.959648	0.237558	0.405088	0.586435	0.558142	-0.24449	0.121402	-2.01392	0.045148
PAPLN.O95428	-0.004688	0.093293	-0.05025	0.959943	0.154433	0.248348	0.621842	0.534518	-0.11449	0.073099	-1.56628	0.118336
NRBP1.Q9UHY1	-0.0097	0.193331	-0.05018	0.960002	-0.00502	0.503425	-0.00996	0.992056	0.182319	0.149402	1.22033	0.223267
MRPS18A.Q9NVS2	-0.006764	0.135133	-0.05005	0.960099	0.107867	0.335279	0.321723	0.747885	-0.01133	0.099931	-0.1134	0.90979
SLK.Q9H2G2	-0.007839	0.156655	-0.05004	0.960124	-0.18062	0.432882	-0.41726	0.676935	0.155254	0.125437	1.23771	0.21726
ADRA2A.P08913	-0.006651	0.133292	-0.0499	0.960222	0.108745	0.416076	0.261357	0.793993	0.099049	0.123939	0.799175	0.424811
RABGGTB.P53611	-0.010574	0.213117	-0.04962	0.960447	0.040887	0.544728	0.075059	0.940216	0.163076	0.161784	1.007988	0.314246
UCKL1.Q9NWZ5	0.0104121	0.211859	0.049146	0.960823	-0.34529	0.528698	-0.65309	0.514205	0.05927	0.153954	0.384983	0.700526
ATP8A1.Q9Y2Q0	-0.006635	0.135046	-0.04913	0.960836	-0.32131	0.350705	-0.91619	0.360279	0.147906	0.104131	1.420381	0.156502
BIN3.Q9NQY0	0.0065895	0.135178	0.048747	0.961144	-0.44604	0.383869	-1.16196	0.246332	-0.09873	0.112236	-0.87969	0.379854
PYCR1.Q53H96	-0.006011	0.124169	-0.04841	0.961408	-0.10404	0.317161	-0.32805	0.743098	-0.12758	0.094088	-1.35599	0.17609
MVK.Q03426	0.005997	0.124102	0.048323	0.961478	-0.01133	0.304755	-0.03719	0.970357	-0.09485	0.090499	-1.04808	0.29542
IARS.P41252	0.0121222	0.252861	0.04794	0.961783	-0.32276	0.693492	-0.46542	0.641961	-0.30069	0.205666	-1.46202	0.144749
MYH14.Q7Z406.5	-0.008012	0.167458	-0.04785	0.961863	-0.403	0.43529	-0.92581	0.355457	-0.02533	0.129666	-0.19532	0.845307
PLTP.P55058	-0.005047	0.106386	-0.04744	0.962186	0.019747	0.282384	0.06993	0.944305	-0.00292	0.081809	-0.03569	0.971555
RAB4A.P20338	0.015205	0.324618	0.04684	0.962659	0.533631	0.772798	0.690518	0.490385	0.112581	0.229982	0.48952	0.62482
ZC3H6.P61129	0.0067945	0.14552	0.046691	0.962787	0.274571	0.33065	0.830398	0.40728	-0.07613	0.095459	-0.79751	0.426079
IPO13.O94829	0.0077713	0.166686	0.046622	0.962833	0.216799	0.387993	0.558769	0.576735	-0.0504	0.114959	-0.43838	0.661424
SPECC1L.Q69YQ0	0.0138663	0.297505	0.046609	0.962844	-0.95174	0.750629	-1.26792	0.205778	0.157713	0.223698	0.705025	0.481324
FAM188B.Q4G0A6	-0.006855	0.147041	-0.04662	0.962855	-0.12996	0.434958	-0.29879	0.765483	-0.05665	0.128581	-0.44061	0.660083
FUBP1.Q96AE4.2	0.0057703	0.124327	0.046412	0.963009	0.118858	0.329706	0.360497	0.718841	0.031741	0.098188	0.323263	0.746821
ATP5C1.P36542	0.0020487	0.044131	0.046424	0.963009	0.135744	0.104905	1.293971	0.197705	0.057014	0.0327	1.743561	0.083326
EXOC2.Q96KP1	0.0202913	0.437431	0.046387	0.96302	-0.16159	1.108985	-0.14571	0.884246	0.078845	0.329884	0.239007	0.811258
USO1.O60763	0.0179686	0.389293	0.046157	0.963203	-0.105	0.99441	-0.10559	0.915974	0.716258	0.293014	2.444446	0.015064
CPNE8.Q86YQ8	0.0082607	0.179038	0.046139	0.963218	0.516092	0.44372	1.163104	0.245682	0.077665	0.132213	0.587425	0.557346

MMS19.Q96T76	0.0147791	0.320929	0.046051	0.963288	-0.7376	0.80907	-0.91166	0.362656	0.365896	0.240109	1.523875	0.128559
COL3A1.P02461	-0.001393	0.030553	-0.04559	0.963661	-0.0758	0.075981	-0.99766	0.31952	-0.01259	0.022097	-0.56965	0.569487
C5.P01031	0.0030526	0.067515	0.045213	0.963956	-0.00913	0.164514	-0.05553	0.955755	0.120521	0.048534	2.483233	0.013562
AKR7A3.O95154	0.0042021	0.0934	0.04499	0.964134	-0.08065	0.259227	-0.31112	0.755928	0.048464	0.07541	0.642679	0.520928
TANC2.J3KTM5	0.0072592	0.161394	0.044978	0.964143	0.151586	0.385615	0.393101	0.694524	-0.30708	0.114481	-2.68233	0.007716
ADPRHL1.Q8NDY3	0.0044447	0.100103	0.044402	0.964602	0.052861	0.243848	0.216781	0.828522	-0.1436	0.072086	-1.99203	0.047244
MAF1.E9PSH4	0.0069789	0.158465	0.044041	0.964898	0.131087	0.411217	0.318779	0.750211	-0.02308	0.126226	-0.18285	0.855092
WDR3.Q9UNX4	0.0083575	0.190498	0.043872	0.965036	0.26877	0.491992	0.546289	0.585508	0.271514	0.156649	1.733268	0.08467
PRMT2.P55345	-0.005329	0.121813	-0.04375	0.965127	-0.27087	0.298424	-0.90765	0.364874	-0.01058	0.088759	-0.11923	0.905181
ATP7A.Q04656	0.0078804	0.18049	0.043661	0.965199	-0.32911	0.484137	-0.67979	0.497341	-0.05149	0.141764	-0.36321	0.716793
MYO1F.O00160	-0.005521	0.127885	-0.04317	0.965591	0.077577	0.331829	0.233786	0.815375	0.106441	0.100375	1.060432	0.290143
SAA2.SAA4.A0A096LPE2	0.0019954	0.046722	0.042708	0.965952	0.041381	0.116887	0.354022	0.723571	0.040903	0.034449	1.187348	0.23603
PDAP1.Q13442	0.0104697	0.245971	0.042565	0.966065	0.20883	0.719448	0.290265	0.771808	-0.48456	0.212276	-2.2827	0.023125
SLC12A6.Q9UHW9.3	-0.011365	0.268571	-0.04232	0.966263	0.083495	0.681202	0.122571	0.902527	0.151302	0.202468	0.747286	0.455458
PDCD5.O14737	-0.009906	0.234111	-0.04231	0.966265	-0.12863	0.622655	-0.20659	0.836468	-0.24866	0.184703	-1.34628	0.179197
CHD2.O14647	0.0072445	0.173123	0.041846	0.966638	0.133948	0.42551	0.314794	0.75313	0.045191	0.126576	0.357024	0.721317
CSTA.P01040	-0.002879	0.06886	-0.04181	0.966679	-0.19216	0.179344	-1.07145	0.28532	0.046058	0.054586	0.843772	0.399853
SNN.O75324	-0.003961	0.095431	-0.04151	0.966911	0.145073	0.258672	0.560836	0.575361	-0.15219	0.079549	-1.91317	0.056753
RAB23.Q9ULC3	0.0089563	0.21596	0.041472	0.966936	0.129635	0.507358	0.255509	0.798499	-0.06018	0.150907	-0.39881	0.690305
NDUFB1.O75438	-0.005902	0.142591	-0.04139	0.967003	0.038984	0.357331	0.109097	0.913196	0.031575	0.106286	0.297078	0.766606
AP1M1.Q9BXS5	0.0151281	0.365888	0.041346	0.967036	-0.26034	0.888227	-0.2931	0.769643	0.485619	0.262825	1.847689	0.0656
C19orf70.A0A0B4J2A5	-0.004557	0.110454	-0.04125	0.967109	0.04816	0.312749	0.153989	0.877719	-0.0786	0.092934	-0.84572	0.39836
GRAMD1A.Q96CP6	-0.006129	0.148888	-0.04116	0.967181	-0.1057	0.364217	-0.29022	0.771842	0.126328	0.108125	1.168349	0.243564
RNF113A.O15541	-0.005879	0.142778	-0.04118	0.967183	-0.18312	0.380861	-0.48081	0.63126	-0.29493	0.115623	-2.55082	0.011619
TMEM9.Q9P0T7	0.0054569	0.133476	0.040883	0.967407	0.214534	0.341354	0.628479	0.530212	0.025707	0.100399	0.256048	0.798105
UNC80.Q8N2C7	0.0084268	0.207033	0.040703	0.967549	-0.15867	0.562723	-0.28196	0.778162	-0.0186	0.167418	-0.11107	0.911633
MFI2.P08582	-0.004955	0.121801	-0.04068	0.967565	-0.1662	0.326304	-0.50933	0.610881	0.068116	0.097033	0.701983	0.483216
ACOT11.Q8WXI4.2	-0.00318	0.078532	-0.04049	0.967718	-0.26955	0.203709	-1.32319	0.186747	0.015976	0.060764	0.262914	0.792792
PTPN11.Q06124	0.0054386	0.134778	0.040352	0.967831	0.093926	0.349165	0.269001	0.788139	0.10473	0.098105	1.067526	0.28671
SLC16A1.P53985	0.0041998	0.105238	0.039908	0.968182	0.658814	0.277826	2.371318	0.018336	-0.12844	0.083075	-1.54606	0.123109
PIP4K2A.P48426	-0.003215	0.081954	-0.03923	0.968724	-0.10151	0.217241	-0.46728	0.640631	0.061268	0.064554	0.94909	0.343314
SERPIN9.P50453	0.0037843	0.096726	0.039124	0.968807	0.038289	0.257808	0.148515	0.882033	-0.30031	0.074775	-4.01622	7.43E-05
FBXO38.Q6PIJ6	0.0073623	0.188389	0.03908	0.968845	0.169403	0.498712	0.33968	0.734376	0.02857	0.150358	0.190014	0.849448
BLOC1S5.Q8TDH9	-0.005791	0.148935	-0.03888	0.969008	-0.2368	0.408832	-0.5792	0.563076	0.022031	0.119133	0.184924	0.853468

BTBD11.A6QL63	0.0067668	0.174741	0.038725	0.969125	0.115669	0.434529	0.266195	0.790266	-0.01912	0.129275	-0.1479	0.882519
PCNXL3.Q9H6A9	-0.00465	0.120182	-0.03869	0.969157	0.01248	0.30216	0.041303	0.967087	-0.17698	0.087356	-2.02598	0.043796
FHL3.Q13643	0.0056848	0.147156	0.038631	0.969201	-0.93461	0.415389	-2.24997	0.025193	0.031793	0.125583	0.253165	0.800318
TPM3.P06753.3	-0.010834	0.280614	-0.03861	0.969217	0.654543	0.712053	0.919233	0.358689	-0.01988	0.212109	-0.09374	0.925377
LIG3.P49916	-0.007441	0.194821	-0.0382	0.969548	0.424227	0.477465	0.888498	0.375014	-0.03956	0.13845	-0.28572	0.7753
ROMO1.P60602	-0.004825	0.126624	-0.03811	0.969626	0.16397	0.305048	0.537524	0.591497	-0.03198	0.088901	-0.35974	0.719419
UNC45A.Q9H3U1	-0.007767	0.204178	-0.03804	0.969672	-0.85997	0.538163	-1.59797	0.111069	0.057609	0.160719	0.358445	0.720254
ADD1.E7ENY0	0.0044996	0.118676	0.037915	0.96977	0.355392	0.288401	1.232282	0.218778	-0.40469	0.082876	-4.88315	1.68E-06
ZFYVE27.Q5T4F4	0.0053141	0.140242	0.037893	0.969789	-0.18032	0.354805	-0.50822	0.611679	-0.14122	0.104148	-1.35598	0.176135
CACNA2D2.Q9NY47	0.0079577	0.210766	0.037756	0.969897	0.456659	0.555573	0.821959	0.411732	0.067997	0.165408	0.411088	0.681292
GRIA4.P48058	-0.007047	0.187418	-0.0376	0.970021	0.002471	0.473299	0.005221	0.995838	-0.07791	0.140729	-0.55364	0.580223
APOL2.J3KQL8	0.0042597	0.113403	0.037563	0.970051	0.394736	0.289394	1.364006	0.173555	-0.04197	0.086315	-0.48622	0.627155
PCYT1B.Q9Y5K3	0.0075085	0.200096	0.037524	0.970087	-0.9477	0.497667	-1.9043	0.058088	0.026177	0.155973	0.167829	0.866862
CYTH1.Q15438	-0.008898	0.242883	-0.03663	0.970792	0.46098	0.612861	0.752178	0.452515	0.372145	0.181253	2.053174	0.040895
FAM84A.Q96KN4	-0.004175	0.114986	-0.03631	0.97105	-0.00539	0.283373	-0.01901	0.984846	0.109263	0.085806	1.273374	0.203953
ACLY.P53396	-0.009564	0.263582	-0.03628	0.971071	-0.6742	0.680472	-0.99079	0.322563	0.465825	0.201015	2.317363	0.021135
KDEL2.Q7Z4H8	0.0049139	0.136788	0.035923	0.971362	-0.40772	0.362588	-1.12447	0.26192	0.068933	0.103208	0.667905	0.504826
LARS2.Q15031	-0.005771	0.161059	-0.03583	0.971431	0.206764	0.39959	0.51744	0.605218	0.081462	0.118832	0.685522	0.493527
CBLN2.Q8IU8	0.0039116	0.109186	0.035825	0.971436	0.314682	0.277995	1.131969	0.258522	-0.0826	0.082737	-0.9984	0.318862
ARL8B.Q9NVJ2	-0.007304	0.204464	-0.03572	0.971517	-0.12054	0.50846	-0.23707	0.812761	0.070406	0.151219	0.465594	0.641833
PIP5K1B.O14986	-0.005592	0.158414	-0.0353	0.971853	1.220886	0.401489	3.040894	0.00256	0.097684	0.121077	0.806791	0.420405
RSRC2.Q7L4I2	-0.004257	0.120666	-0.03528	0.971872	-0.35202	0.302983	-1.16186	0.246305	-0.05799	0.088614	-0.65444	0.513376
SPATA20.Q8TB22	-0.002849	0.082553	-0.03451	0.972482	0.222869	0.218681	1.019152	0.308926	-0.01714	0.065155	-0.26306	0.792676
XO.U3KQK5	0.0063134	0.184126	0.034288	0.972661	0.47232	0.490941	0.962071	0.336764	0.010774	0.146263	0.073661	0.941327
GPS1.Q13098.7	-0.010464	0.305404	-0.03426	0.972681	0.237451	0.754731	0.314616	0.753265	0.204704	0.224254	0.912822	0.362045
IGHV4.34.A0A0A0MS12	0.0012246	0.035863	0.034146	0.972775	0.084398	0.090921	0.928257	0.35402	0.005322	0.02689	0.197906	0.843253
UFD1L.Q92890.1	-0.008791	0.257509	-0.03414	0.97278	-0.08722	0.683057	-0.1277	0.898472	-0.61705	0.200158	-3.0828	0.002235
CFD.P00746	0.0034359	0.101594	0.033819	0.973046	-0.18731	0.239745	-0.78128	0.435762	0.008062	0.067222	0.119928	0.904687
PDZD11.Q5EBL8	-0.007275	0.216121	-0.03366	0.973159	0.265932	0.558298	0.476327	0.634177	-0.411	0.164497	-2.49851	0.012989
SLC16A7.O60669	-0.00459	0.136654	-0.03359	0.97322	-0.17395	0.365257	-0.47624	0.634239	-0.04078	0.108673	-0.37523	0.707746
KCNA3.P22001	-0.004529	0.135558	-0.03341	0.973362	0.523199	0.349304	1.497834	0.135194	-0.03438	0.104269	-0.32969	0.74186
KCNK9.Q9NPC2	0.0059917	0.179294	0.033418	0.973367	-0.97929	0.490776	-1.9954	0.047729	0.031976	0.160997	0.198611	0.842824
RALA.P11233	-0.008225	0.247161	-0.03328	0.973465	0.391202	0.627814	0.623117	0.533666	-0.09517	0.186802	-0.50944	0.610803
PIK3R2.O00459	0.0062853	0.192143	0.032712	0.973918	0.723776	0.492321	1.470131	0.142554	0.154914	0.147977	1.046879	0.295981

EXOSC6.Q5RKV6	-0.00432	0.132106	-0.0327	0.973929	0.181722	0.382629	0.47493	0.635192	0.039289	0.112385	0.349591	0.726897
NUDT14.Q095848	-0.005848	0.1803	-0.03243	0.974138	-0.07586	0.449926	-0.1686	0.866217	-0.00852	0.13385	-0.06363	0.949307
MYH10.P35580.5	-0.010094	0.311991	-0.03235	0.974204	-0.67005	0.798055	-0.8396	0.401778	0.144783	0.237535	0.609525	0.542623
CUX1.P39880.3	-0.004901	0.151879	-0.03227	0.974269	0.071456	0.406309	0.175866	0.860521	-0.05172	0.118502	-0.43649	0.662806
CNTN4.Q8IWV2	0.0062311	0.19503	0.031949	0.974525	-0.00024	0.482893	-0.0005	0.999601	0.134719	0.143448	0.939147	0.348387
RPAP1.Q9BWH6	0.0057735	0.181085	0.031883	0.974578	0.39998	0.467719	0.855173	0.393116	0.005876	0.139302	0.042183	0.96638
FAM57B.Q71RH2	-0.002623	0.082492	-0.03179	0.974659	-0.36815	0.305819	-1.20382	0.230362	0.017775	0.083904	0.211849	0.832483
ZNHIT2.Q9UHR6	-0.003235	0.102363	-0.0316	0.974805	0.093723	0.289273	0.323993	0.746251	-0.01508	0.087984	-0.17134	0.864112
DLG5.Q8TDM6	-0.003262	0.103267	-0.03159	0.974815	-0.27174	0.290241	-0.93624	0.349942	0.028453	0.087357	0.325711	0.744882
DDX28.Q9NUL7	0.0022078	0.070622	0.031263	0.975073	0.174497	0.188883	0.923836	0.356356	-0.0036	0.055674	-0.06473	0.948434
SLC35F6.Q8N357	-0.004597	0.150703	-0.0305	0.975679	-0.4219	0.425166	-0.99232	0.321817	-0.26783	0.125763	-2.12962	0.03399
PTPRU.Q92729	0.0042789	0.140553	0.030443	0.975726	0.646975	0.361354	1.790419	0.074388	-0.00129	0.108649	-0.01189	0.990521
SRRM1.A9Z1X7	0.0048987	0.161515	0.03033	0.975816	0.170778	0.386034	0.44239	0.658523	-0.09747	0.114942	-0.84799	0.397113
BAG5.Q9UL15	-0.008108	0.26747	-0.03031	0.975829	1.473529	0.686703	2.145804	0.032665	0.385976	0.204623	1.886283	0.060191
PRPSAP1.Q14558.2	-0.008158	0.269398	-0.03028	0.975854	0.423527	0.700853	0.604303	0.546084	0.270283	0.208048	1.299133	0.194864
MRPS26.Q9BYN8	-0.005003	0.166636	-0.03002	0.976061	0.77407	0.41128	1.882097	0.060759	-0.1923	0.12256	-1.56904	0.117658
SESN3.P58005	0.0040226	0.134088	0.03	0.976081	0.224126	0.33958	0.660009	0.509826	-0.07672	0.099079	-0.77433	0.439429
APIP.Q96GX9	-0.001771	0.059085	-0.02998	0.976095	-0.0947	0.150484	-0.62932	0.529609	0.007955	0.044894	0.177199	0.85947
EFTUD1.Q7Z2Z2	-0.007912	0.265993	-0.02974	0.976283	-0.35263	0.671354	-0.52525	0.599788	0.431528	0.198296	2.17618	0.030297
HDAC6.Q9UBN7	-0.005661	0.190814	-0.02967	0.976344	0.222955	0.486138	0.458625	0.646825	-0.07585	0.144602	-0.52457	0.600257
POLR2M.P0CAP2	0.0048234	0.163163	0.029562	0.976429	0.792852	0.460627	1.721245	0.086266	-0.11129	0.139956	-0.79518	0.427155
C9orf16.Q9BUW7	0.0033155	0.11216	0.029561	0.976429	-0.02498	0.297277	-0.08403	0.933088	0.001749	0.088635	0.019733	0.98427
TMEM63C.Q9P1W3	0.0047308	0.16091	0.0294	0.976557	0.111146	0.447593	0.248318	0.804053	0.301	0.132062	2.279224	0.023333
PEX16.Q9Y5Y5	0.0055712	0.18963	0.029379	0.976578	-0.72971	0.533749	-1.36714	0.172906	-0.21704	0.166773	-1.30142	0.194404
NOLC1.A0A0A0MRM9	0.0041911	0.143043	0.0293	0.976637	-0.43647	0.396926	-1.09963	0.272347	-0.60917	0.113137	-5.38436	1.44E-07
AKAP6.Q13023	0.0036104	0.125844	0.02869	0.977124	-0.19159	0.323692	-0.59188	0.554372	-0.05489	0.097155	-0.565	0.57249
PRKCD.Q05655	-0.003163	0.111648	-0.02833	0.977408	-0.08902	0.295035	-0.30174	0.763051	0.065302	0.087702	0.744589	0.457084
TFG.Q92734	0.0087188	0.310977	0.028037	0.977644	1.181393	0.810569	1.457486	0.145995	-0.13463	0.241834	-0.5567	0.578131
VPS9D1.Q9Y2B5	-0.005538	0.198197	-0.02794	0.97772	-1.02258	0.511823	-1.99792	0.046598	0.208582	0.152777	1.36527	0.173158
MOXD1.Q6UVY6	-0.0024	0.087445	-0.02745	0.978113	0.159465	0.232115	0.687011	0.492589	-0.04426	0.069057	-0.64092	0.522045
C10orf54.Q9H7M9	-0.002886	0.105261	-0.02742	0.978137	0.048241	0.265191	0.181909	0.855778	0.09429	0.080052	1.177864	0.239788
MKLN1.Q9UL63	-0.006133	0.225076	-0.02725	0.978275	-0.59976	0.567311	-1.05719	0.291415	0.369538	0.162496	2.274133	0.023783
HRG.P04196	0.0021086	0.07757	0.027183	0.978325	-0.24533	0.190183	-1.28994	0.198057	0.090334	0.056594	1.59617	0.111497
COX6A1.P12074	0.0020189	0.074775	0.026999	0.978473	-0.29561	0.198009	-1.49289	0.136679	-0.03498	0.060145	-0.58161	0.561335

ANKLE2.Q86XL3	-0.005744	0.213849	-0.02686	0.978581	-0.59405	0.578888	-1.02619	0.305617	0.410005	0.172451	2.377513	0.018046
CCDC6.Q16204	0.0061991	0.232674	0.026643	0.978755	-0.18915	0.577598	-0.32748	0.743525	0.182935	0.171541	1.066424	0.287062
MYO5B.Q9ULV0	-0.002222	0.083386	-0.02664	0.978756	-0.07007	0.219923	-0.31862	0.750263	-0.0245	0.064296	-0.38105	0.703467
MYO1C.O00159.3	0.003165	0.119967	0.026383	0.978971	-0.53622	0.309117	-1.73469	0.084526	-0.01816	0.090585	-0.20046	0.841354
ANO4.Q32M45	0.0034013	0.130454	0.026072	0.979214	0.17595	0.373515	0.471067	0.638062	0.027971	0.103422	0.27045	0.787068
PPP2R4.Q15257	-0.004992	0.192746	-0.0259	0.979349	0.525127	0.480661	1.092511	0.275457	0.123627	0.143091	0.863976	0.388269
LPIN2.Q92539	-0.005436	0.212309	-0.02561	0.979582	0.455159	0.528346	0.86148	0.38964	-0.12367	0.157205	-0.78668	0.432068
GBP2.P32456	-0.002002	0.078404	-0.02554	0.979638	0.223458	0.193889	1.152504	0.25016	0.096849	0.055972	1.730308	0.084748
CDK2AP1.O14519	0.0028363	0.111385	0.025464	0.9797	-0.21197	0.367928	-0.57613	0.565115	-0.54966	0.098364	-5.58805	6.75E-08
NEK1.Q96PY6.3	0.0030153	0.118829	0.025375	0.979768	-0.76199	0.326285	-2.33536	0.020286	0.055996	0.098512	0.568413	0.570245
C2orf72.A6NCS6	-0.002692	0.106639	-0.02525	0.979868	-0.4181	0.279097	-1.49804	0.13514	-0.2365	0.082237	-2.87584	0.004309
RPSA.P08865	-0.005025	0.200634	-0.02505	0.980029	-0.4108	0.494146	-0.83133	0.406429	0.073943	0.147103	0.502657	0.615562
CST3.P01034	-0.002356	0.09413	-0.02503	0.98004	0.368484	0.249121	1.479138	0.140119	-0.06046	0.074291	-0.81383	0.416366
PDIA3.P30101	-0.007747	0.310485	-0.02495	0.980103	-2.27122	0.779314	-2.91438	0.003823	0.255636	0.234538	1.089955	0.276579
CRBN.Q96SW2	0.0051131	0.205093	0.024931	0.98012	0.122356	0.534236	0.229029	0.818998	0.080852	0.158873	0.508909	0.611178
PSMB10.P40306	-0.002741	0.110546	-0.0248	0.980228	-0.43939	0.292807	-1.50061	0.134509	0.134754	0.086455	1.558654	0.120133
MIF4GD.A9UHW6.3	-0.003844	0.155353	-0.02474	0.980271	0.10355	0.396637	0.261071	0.794225	0.083435	0.114429	0.729147	0.466507
ASPCR1.Q9BZE9	0.0072285	0.293304	0.024645	0.980348	-0.14361	0.775065	-0.18529	0.85312	-0.20482	0.230287	-0.88943	0.374461
MAPK14.Q16539	0.0054105	0.221447	0.024432	0.980519	0.067101	0.576723	0.116348	0.907464	0.00975	0.168132	0.057993	0.953798
LPHN3.E7ESV6	0.0025938	0.107633	0.024099	0.980786	-0.08407	0.276191	-0.30439	0.761088	-0.0619	0.077691	-0.79678	0.426352
FGB.P02675	0.0009735	0.040739	0.023897	0.980944	0.070837	0.101655	0.696836	0.486428	0.067502	0.03002	2.248559	0.025243
FBXL18.Q96ME1.4	0.0045235	0.189916	0.023819	0.981007	-0.65476	0.509333	-1.28553	0.199566	0.02747	0.151913	0.180826	0.856622
AFAP1L2.Q8N4X5.4	0.0047915	0.203932	0.023496	0.981264	-0.55567	0.542475	-1.02433	0.306478	0.088071	0.161572	0.545085	0.586087
PLCH2.O75038.2	0.0034744	0.148061	0.023466	0.981288	0.007575	0.383425	0.019757	0.98425	-0.05097	0.114026	-0.44704	0.655161
RNF25.Q96BH1	0.0040603	0.177464	0.02288	0.981755	-0.13368	0.44781	-0.29852	0.765505	-0.15497	0.132944	-1.16572	0.244624
RHOT1.Q8IXI2.7	0.0069795	0.305297	0.022861	0.98177	0.273762	0.76595	0.357415	0.721025	0.092307	0.227843	0.405134	0.685659
SYNE1.Q8NF91	0.0078196	0.342629	0.022822	0.981801	1.094393	0.854524	1.280704	0.201255	-0.04584	0.254864	-0.17987	0.857373
EXOC5.O00471	0.0077065	0.338574	0.022762	0.981849	-0.04766	0.823017	-0.05791	0.953857	0.329652	0.244117	1.350385	0.177878
SDHC.Q99643	-0.002806	0.125585	-0.02234	0.982185	-0.3831	0.31559	-1.21391	0.226017	-0.09977	0.092073	-1.08358	0.279678
PLCB2.Q00722	-0.003786	0.169537	-0.02233	0.982199	-0.04989	0.428725	-0.11638	0.907465	0.224269	0.122886	1.825013	0.069447
C15orf27.Q2M3C6	0.0027842	0.127792	0.021787	0.982627	-0.07163	0.362109	-0.19782	0.843319	-0.0256	0.109144	-0.23457	0.814699
NENF.Q9UMX5	-0.004206	0.193391	-0.02175	0.982657	-0.61195	0.522048	-1.17221	0.242013	-0.21467	0.155166	-1.38351	0.167505
DGCR14.Q96DF8	-0.003291	0.155998	-0.02109	0.983182	-0.11522	0.411129	-0.28025	0.779532	0.212532	0.127021	1.6732	0.095613
NOS1.C9J5P6	-0.004879	0.232141	-0.02102	0.98324	-0.11496	0.583676	-0.19695	0.843993	-0.34749	0.172519	-2.0142	0.044853

NHP2.Q9NX24	0.0034621	0.165453	0.020925	0.983314	-0.23877	0.410261	-0.58199	0.560994	-0.01863	0.122107	-0.15255	0.878853
FITM2.Q8N6M3	0.0039735	0.191752	0.020722	0.983477	-0.83087	0.533226	-1.5582	0.120357	-0.25963	0.154053	-1.68534	0.093078
NLGN3.Q9NZ94	0.004745	0.229292	0.020694	0.983498	-0.83355	0.570175	-1.46192	0.144775	-0.38775	0.16877	-2.29749	0.022257
CRTC2.Q53ET0	0.0028334	0.137641	0.020586	0.98359	-0.072	0.363428	-0.19811	0.843175	-0.08494	0.103247	-0.82267	0.411759
AHSA1.O95433	-0.003536	0.172692	-0.02048	0.983671	0.088713	0.437163	0.202929	0.839323	0.235797	0.129366	1.822715	0.06931
KLHL4.Q9C0H6	0.0021262	0.104923	0.020264	0.983844	-0.05611	0.305069	-0.18392	0.85425	0.208192	0.090566	2.29878	0.022469
CPNE1.B0QZ18	-0.001491	0.073794	-0.02021	0.983887	0.224598	0.195026	1.151627	0.250362	0.084215	0.057944	1.453387	0.147128
ZDHC9.Q9Y397	0.0019623	0.097733	0.020079	0.98399	-0.17592	0.250453	-0.70241	0.483059	0.070151	0.071613	0.979594	0.328204
ANK2.D6R9U4	0.0026871	0.136119	0.019741	0.984258	0.126342	0.335139	0.376982	0.706445	0.100301	0.099558	1.00746	0.3145
CALCRL.Q16602	0.0023362	0.118702	0.019681	0.984309	-0.00455	0.3163	-0.0144	0.988528	0.137083	0.094641	1.448452	0.148908
SLC9B2.E9PE63	-0.003367	0.171871	-0.01959	0.984377	-0.33636	0.454322	-0.74035	0.459763	-0.10629	0.131396	-0.8089	0.419318
TRIM4.Q9C037	0.0031448	0.160594	0.019583	0.984385	0.718357	0.401095	1.790987	0.074399	0.103597	0.11954	0.866632	0.386902
RAPGEFL1.A0A087WVW6	-0.00228	0.119273	-0.01912	0.984758	0.895843	0.345624	2.591961	0.010068	-0.10572	0.105869	-0.99859	0.318898
PPP2R1B.P30154	-0.00226	0.121747	-0.01857	0.985198	0.529039	0.352286	1.501732	0.134767	0.059946	0.095653	0.6267	0.531581
BNIP3L.A0A087WVL5	-0.002892	0.156234	-0.01851	0.985242	-0.31259	0.410628	-0.76124	0.447154	-0.36491	0.123561	-2.95327	0.00341
SIDT2.Q8NBJ9	-0.003272	0.177324	-0.01845	0.985285	-0.16293	0.464035	-0.35113	0.725768	0.030642	0.140509	0.218077	0.827534
ZNFX1.Q9P2E3	-0.00392	0.213713	-0.01834	0.985375	0.248162	0.555825	0.446475	0.655571	0.07005	0.166827	0.419895	0.674858
COX5B.P10606	0.0031909	0.174918	0.018242	0.985453	0.340561	0.452798	0.752126	0.452546	0.041786	0.134801	0.30998	0.756784
PGAM5.Q96HS1	-0.003172	0.174609	-0.01816	0.985515	0.337937	0.495602	0.681871	0.49583	0.076745	0.147479	0.520378	0.603171
SNTB1.Q13884	0.002531	0.142118	0.017809	0.985798	-0.44295	0.360561	-1.2285	0.220192	-0.0862	0.10741	-0.80252	0.422868
HDHD2.Q9H0R4	-0.003526	0.198861	-0.01773	0.985861	0.622092	0.537645	1.157067	0.248136	0.239059	0.159709	1.496846	0.135451
KRT17.Q04695	0.0007249	0.042345	0.017119	0.986353	0.044925	0.113017	0.397507	0.691428	-0.01104	0.031094	-0.35505	0.722937
ADCY5.O95622	0.0054725	0.322185	0.016986	0.986455	1.303586	0.802591	1.624222	0.105345	-0.14378	0.239631	-0.60002	0.548933
SNUPN.O95149	0.0031292	0.184388	0.016971	0.986469	0.326209	0.499567	0.652985	0.514427	-0.14998	0.14628	-1.02531	0.306308
CPN2.P22792	-0.001718	0.101377	-0.01695	0.98649	-0.02223	0.274218	-0.08107	0.935474	0.191519	0.079871	2.397858	0.017449
WWC2.Q6AWC2	0.0015892	0.093971	0.016911	0.986521	-0.42711	0.277467	-1.5393	0.125838	-0.05997	0.073591	-0.81493	0.416403
MTSS1L.Q765P7	0.0029066	0.173235	0.016778	0.98662	-0.00394	0.442715	-0.0089	0.992901	-0.61791	0.126938	-4.86778	1.80E-06
TPM1.F5H7S3	0.004612	0.284256	0.016225	0.987061	0.054961	0.700183	0.078495	0.937485	0.229691	0.207885	1.104892	0.270063
PIK3C3.Q8NEB9	0.006257	0.38703	0.016167	0.987108	2.167941	0.966769	2.24246	0.025638	-0.03079	0.289915	-0.10619	0.9155
DCTN2.Q13561	-0.004765	0.29496	-0.01616	0.987117	0.337835	0.782959	0.431484	0.666416	-0.12702	0.232875	-0.54543	0.585847
NRBP2.Q9NSY0	-0.003853	0.246863	-0.01561	0.987553	-0.27882	0.598757	-0.46566	0.641785	-0.04157	0.178166	-0.23332	0.815671
FBXL4.Q9UKA2	-0.003198	0.209307	-0.01528	0.987819	0.780894	0.552772	1.412686	0.159022	0.01218	0.172219	0.070722	0.943677
CHMP3.Q9Y3E7	0.0030162	0.204215	0.01477	0.988222	-0.49121	0.487213	-1.0082	0.314146	0.361153	0.143718	2.512928	0.012481
RASAL2.H0Y638	-0.002372	0.162455	-0.0146	0.988361	-0.35255	0.473646	-0.74434	0.457659	-0.06105	0.139758	-0.43684	0.662761

SERBP1.Q8NC51	0.0024957	0.173862	0.014355	0.988553	-0.42235	0.493539	-0.85576	0.392789	-1.02484	0.134977	-7.59271	3.71E-13
TMEM160.Q9NX00	0.0023796	0.167627	0.014196	0.988679	0.333233	0.417716	0.797751	0.425626	-0.17085	0.124011	-1.37768	0.169297
DNAJB2.P25686	-0.002762	0.194761	-0.01418	0.988691	0.10987	0.483964	0.22702	0.820558	0.023224	0.143977	0.161301	0.871961
KARS.Q15046	0.0041739	0.294495	0.014173	0.988698	-0.70864	0.781052	-0.90729	0.364956	-0.46061	0.231182	-1.9924	0.047204
PIGX.H0Y2P9	-0.002503	0.178234	-0.01404	0.988806	-0.35018	0.445572	-0.78591	0.433063	0.373693	0.136116	2.745401	0.006722
PDPK1.O15530	0.003726	0.276043	0.013498	0.989236	-0.32635	0.707452	-0.4613	0.644904	0.480323	0.208752	2.300931	0.022059
CLYBL.Q8N0X4	-0.000784	0.058511	-0.01339	0.989321	-0.04332	0.151542	-0.28583	0.7752	-0.02322	0.045068	-0.51528	0.606726
GCA.P28676	0.0018929	0.141955	0.013334	0.989368	0.354099	0.359504	0.984965	0.325578	-0.10239	0.106613	-0.96042	0.337759
TPM3.P06753.6	0.0018786	0.141379	0.013287	0.989404	0.163152	0.381658	0.427483	0.669325	0.021409	0.113563	0.18852	0.850592
C3orf38.Q5JPI3	-0.002168	0.164781	-0.01316	0.989507	-0.48201	0.498523	-0.96687	0.334475	0.113834	0.143471	0.793429	0.428225
SCRN2.J3QL71	0.0016878	0.129425	0.013041	0.9896	0.281599	0.336305	0.837335	0.40305	-0.0398	0.100132	-0.39748	0.691286
DNM2.P50570	0.0017123	0.132549	0.012918	0.989699	0.055177	0.390523	0.141289	0.887758	-0.1307	0.113946	-1.14704	0.252482
MEGF10.Q96KG7	0.0014323	0.119361	0.012	0.990431	0.03005	0.305373	0.098406	0.921676	-0.13822	0.090111	-1.53394	0.126096
RCHY1.Q96PM5	0.0017572	0.149389	0.011763	0.99062	-0.23186	0.394388	-0.58789	0.557062	0.208197	0.115355	1.804826	0.072136
CMC1.Q7Z7K0	0.0013129	0.112887	0.01163	0.990725	0.474212	0.300373	1.578746	0.115414	0.03075	0.089697	0.342821	0.731965
GPD1L.Q8N335	-0.002605	0.2253	-0.01156	0.99078	0.561869	0.574812	0.977482	0.329093	0.17246	0.170979	1.008656	0.313926
SLFN5.Q08AF3	-0.001313	0.115602	-0.01136	0.990944	0.744881	0.332022	2.24347	0.026128	0.048012	0.092849	0.517104	0.60574
SLC43A3.Q8NBI5	0.0007234	0.06381	0.011337	0.99096	0.035942	0.165012	0.217815	0.827746	0.029276	0.048697	0.601193	0.54824
NFX1.Q12986	-0.00235	0.207571	-0.01132	0.990971	-0.45526	0.560576	-0.81212	0.417407	-0.09517	0.167906	-0.56679	0.571304
CWF19L1.Q69YN2	-0.001657	0.147212	-0.01126	0.991022	-0.10968	0.361123	-0.30373	0.761536	-0.00724	0.107443	-0.06735	0.94635
MATK.K7EQY5	0.0019426	0.1759	0.011044	0.991193	0.847305	0.444683	1.905412	0.057652	0.197176	0.132586	1.487161	0.137989
CCDC109B.Q9NWR8	-0.001235	0.112816	-0.01094	0.991275	0.101295	0.285813	0.35441	0.723427	0.060129	0.085086	0.706688	0.480631
CBR3.O75828	0.0013129	0.120056	0.010936	0.991279	-0.3208	0.321978	-0.99634	0.319863	-0.05645	0.095882	-0.5887	0.556488
SNRPB.P14678	-0.001661	0.152202	-0.01091	0.991296	0.390591	0.366812	1.064824	0.287784	0.136604	0.109044	1.252744	0.211243
C8B.P07358	0.0011282	0.103361	0.010916	0.991299	0.008018	0.254985	0.031445	0.974954	0.142482	0.081762	1.742649	0.083293
NDUFV2.E7EPT4	-0.001722	0.158177	-0.01088	0.991321	0.681161	0.419349	1.62433	0.105322	0.063128	0.125227	0.50411	0.614542
INTS3.Q68E01.2	-0.001677	0.161556	-0.01038	0.991724	-0.23846	0.398124	-0.59895	0.54965	-0.10269	0.119383	-0.86018	0.390362
ARHGAP10.A1A4S6	-0.001537	0.148641	-0.01034	0.991758	-0.07432	0.403528	-0.18417	0.854066	0.089459	0.125184	0.714626	0.475661
RAB3GAP1.Q15042	0.0018577	0.180489	0.010293	0.991796	-0.71746	0.478601	-1.49908	0.135861	0.317312	0.136945	2.317083	0.021791
CACNA1C.E9PDI6	0.0023943	0.238854	0.010024	0.992006	-0.03592	0.573361	-0.06265	0.950082	0.027351	0.170559	0.160364	0.872699
SIPA1L3.O60292	-0.001546	0.156815	-0.00986	0.992137	-0.34012	0.42428	-0.80164	0.423395	-0.10888	0.125288	-0.86907	0.385504
RAP1GDS1.P52306.4	-0.001993	0.204099	-0.00977	0.992211	0.313263	0.521967	0.600159	0.548839	-0.09391	0.155274	-0.6048	0.545751
SCYL1.Q96KG9	-0.003566	0.371426	-0.0096	0.992343	0.075264	0.924023	0.081453	0.935135	0.671081	0.272228	2.465143	0.014238
PLEKHA7.E9PKC0	0.0013039	0.137552	0.009479	0.99244	0.313691	0.374102	0.838518	0.402397	-0.33211	0.110037	-3.01813	0.002758

FGA.P02671	-0.000363	0.038349	-0.00945	0.992462	0.106682	0.098719	1.080667	0.280685	0.05168	0.029276	1.765293	0.078499
SCAMP3.O14828	-0.002428	0.259627	-0.00935	0.992542	-0.11475	0.66623	-0.17224	0.863363	0.062994	0.198169	0.317878	0.750791
CNN2.B4DDF4	-0.000984	0.109705	-0.00897	0.992852	-0.10541	0.262288	-0.40187	0.688158	-0.01241	0.081845	-0.15162	0.879622
KCND2.Q9NZV8	0.0016517	0.189856	0.0087	0.993062	-0.15637	0.459604	-0.34022	0.73392	-0.02473	0.136743	-0.18081	0.856631
SCAF1.Q9H7N4	-0.001647	0.191951	-0.00858	0.993157	-0.08465	0.437717	-0.19338	0.846791	-0.21412	0.129869	-1.64872	0.100246
SEPHS2.Q99611	-0.001767	0.207007	-0.00854	0.993192	1.046144	0.567585	1.84315	0.066441	-0.0814	0.170123	-0.47848	0.63271
VWF.P04275	-0.000582	0.071603	-0.00813	0.993514	-0.06619	0.187009	-0.35394	0.723625	-0.13432	0.055118	-2.43699	0.015372
NT5E.P21589	-0.000976	0.120569	-0.00809	0.993545	0.332274	0.321569	1.03329	0.302274	-0.10035	0.095656	-1.04911	0.294943
QARS.P47897	0.0022674	0.28269	0.008021	0.993604	0.417188	0.762796	0.54692	0.584827	-0.16975	0.226823	-0.74837	0.454804
CENPE.Q02224	0.0014611	0.185334	0.007884	0.993714	0.161888	0.470858	0.343814	0.731286	0.14905	0.148132	1.0062	0.315329
SSR3.C9JA28	0.0008363	0.106555	0.007848	0.993741	-0.1222	0.2684	-0.4553	0.649219	0.048282	0.079488	0.607419	0.544031
RDH14.Q9HBH5	0.0024193	0.311257	0.007773	0.993801	-0.27049	0.743292	-0.3639	0.716178	0.048753	0.221146	0.220458	0.825659
TIMM44.O43615	-0.001734	0.227153	-0.00763	0.993913	-0.47881	0.632221	-0.75735	0.449418	-0.00761	0.188248	-0.04045	0.967762
NAA16.Q6N069	0.0016486	0.218309	0.007551	0.993979	0.920578	0.54959	1.675028	0.095343	0.047488	0.157008	0.302456	0.762589
C17orf59.Q96GS4	0.0016352	0.228738	0.007149	0.994299	-0.31005	0.525746	-0.58974	0.555793	0.022384	0.156483	0.143042	0.88635
AURKAIP1.Q9NWT8	0.0010669	0.159846	0.006675	0.994679	0.49865	0.431671	1.155163	0.24943	-0.1565	0.12795	-1.22315	0.222742
CHTF8.P0CG12	0.0008401	0.130532	0.006436	0.994869	0.024607	0.346733	0.070967	0.943489	-0.47204	0.101123	-4.66801	5.32E-06
COQ6.G3XA86	-0.000832	0.132059	-0.0063	0.994978	0.243927	0.352364	0.69226	0.489292	-0.06439	0.104839	-0.61415	0.539567
MX1.P20591	-0.00028	0.044738	-0.00626	0.995008	-0.10546	0.115183	-0.91558	0.360598	0.03311	0.03426	0.966429	0.334583
SEPT10.Q9POV9	-0.000939	0.151279	-0.00621	0.995051	0.470921	0.41724	1.128658	0.259915	0.114684	0.124206	0.923338	0.356549
PPAP2B.O14495	-0.0008	0.133292	-0.006	0.995212	-0.59011	0.354193	-1.66608	0.096708	-0.08748	0.10572	-0.82747	0.40861
X0.P06313	0.0001753	0.031115	0.005632	0.995509	-0.04589	0.081111	-0.56572	0.572096	0.019736	0.022797	0.865738	0.38747
RPL13.P26373	-0.000955	0.171563	-0.00557	0.99556	-0.21423	0.427483	-0.50115	0.616623	-0.04672	0.127192	-0.3673	0.713647
MOSPD1.Q9UJG1	0.0007745	0.139852	0.005538	0.995584	0.043367	0.34525	0.12561	0.90015	0.143186	0.110496	1.295848	0.196327
PTPRZ1.P23471	0.0013932	0.269514	0.005169	0.995878	-0.61786	0.706077	-0.87506	0.382219	-0.21218	0.209959	-1.0106	0.312998
E2F4.Q16254	-0.000881	0.172182	-0.00512	0.995919	-0.26342	0.497692	-0.52929	0.597248	0.088416	0.140383	0.629815	0.529601
RIMS1.Q86UR5.8	0.0006743	0.133277	0.00506	0.995965	0.282201	0.362376	0.778752	0.436831	-0.15688	0.103901	-1.50992	0.132275
SNX4.O95219	-0.001481	0.295743	-0.00501	0.996007	-0.11486	0.793811	-0.1447	0.885042	-0.30336	0.235523	-1.28804	0.198693
CERS6.Q6ZMG9	0.0011434	0.237523	0.004814	0.996161	-0.54655	0.638946	-0.85539	0.393094	0.476896	0.181726	2.624253	0.009178
SAP30BP.Q9UHR5	-0.000699	0.154582	-0.00452	0.996396	-0.16122	0.399952	-0.4031	0.687187	-0.18072	0.118777	-1.5215	0.129267
TRIM9.Q9C026.5	-0.000571	0.128495	-0.00444	0.996457	-0.12345	0.311937	-0.39575	0.692572	-0.07115	0.092339	-0.77055	0.441576
STX17.P56962	-0.001189	0.269868	-0.00441	0.996487	-0.03991	0.676117	-0.05902	0.952971	-0.24686	0.200645	-1.23034	0.219504
SRXN1.Q9BYNO	-0.000762	0.173786	-0.00438	0.996504	0.288692	0.443241	0.65132	0.515323	-0.17167	0.131586	-1.3046	0.192998
IGLL5.A0A087WYR4	0.0001502	0.035579	0.004222	0.996633	0.157675	0.089762	1.756591	0.079975	0.008113	0.026831	0.302379	0.762566

YIPF3.Q9GZM5	0.0003687	0.099927	0.00369	0.997058	0.561192	0.256989	2.183723	0.030269	0.038794	0.075248	0.515553	0.606795
CPNE2.Q96FN4	-0.000707	0.195494	-0.00362	0.997115	0.527192	0.509948	1.033816	0.302028	-0.02673	0.151954	-0.17593	0.860461
PRKAB2.O43741	-0.000315	0.094575	-0.00334	0.99734	0.239412	0.21757	1.10039	0.272016	-0.00826	0.064848	-0.12732	0.898773
PPL.O60437	0.0003723	0.114066	0.003264	0.997397	0.120958	0.294426	0.410828	0.681516	-0.00224	0.088111	-0.0254	0.979755
ATP1B2.P14415	0.0005832	0.180102	0.003238	0.997418	-0.4864	0.457702	-1.0627	0.288747	0.06699	0.136353	0.491299	0.623563
RPL11.P62913	0.0008654	0.268673	0.003221	0.997431	-0.69758	0.677377	-1.02982	0.303895	0.376976	0.200713	1.878182	0.061295
RMND5A.Q9H871	-0.000676	0.213873	-0.00316	0.997479	0.02964	0.561485	0.052788	0.957935	0.24552	0.166449	1.475044	0.141216
FAM192A.Q9GZU8	-0.000438	0.144297	-0.00304	0.997579	-0.34959	0.380686	-0.9183	0.359173	-0.47786	0.110106	-4.34004	1.93E-05
MAN2B1.O00754	0.0003449	0.133786	0.002578	0.997945	0.200805	0.358411	0.560266	0.575794	0.073288	0.106335	0.689212	0.491321
CTSF.Q9UBX1	0.0003468	0.136423	0.002542	0.997973	0.288467	0.354199	0.814419	0.416068	-0.10323	0.104735	-0.98559	0.325151
RPS20.P60866	-0.000712	0.30641	-0.00232	0.998148	-1.25174	0.930292	-1.34553	0.179436	0.073766	0.277521	0.265804	0.790567
ELP4.Q96EB1	-0.000363	0.178441	-0.00203	0.998379	-0.02256	0.469143	-0.04809	0.961682	0.096999	0.135944	0.713521	0.47612
PRNP.A2A2V1	0.0003207	0.173062	0.001853	0.998522	0.125963	0.428538	0.293937	0.769003	-0.06103	0.127453	-0.47885	0.632383
NUDT9.Q9BW91	-0.00046	0.253463	-0.00182	0.998552	0.28223	0.678057	0.416233	0.677527	-0.20321	0.201436	-1.00881	0.313852
FOXK2.Q01167	-0.000265	0.156753	-0.00169	0.998653	-0.05585	0.398515	-0.14014	0.888649	-0.33154	0.117375	-2.82463	0.005065
CHRD1.Q9BU40.4	-0.000164	0.122031	-0.00135	0.998928	-0.24011	0.268721	-0.89352	0.372998	0.00691	0.082541	0.08372	0.93339
MAD2L1.Q13257	-0.0002	0.166196	-0.0012	0.99904	0.365817	0.373334	0.979865	0.32868	-0.01463	0.107205	-0.13645	0.891642
NAT14.Q8WUY8	0.0001875	0.182191	0.001029	0.999179	0.412873	0.464719	0.888436	0.375006	-0.02893	0.138858	-0.20833	0.835111
MBNL1.A0A0A0MQX8	0.0002228	0.217805	0.001023	0.999184	-1.02489	0.551944	-1.85688	0.064277	-0.20347	0.164699	-1.23538	0.217626
DNAJC16.Q9Y2G8	0.0001394	0.214066	0.000651	0.999481	-0.00538	0.566635	-0.00949	0.992433	0.297829	0.167713	1.775826	0.076743
DGKZ.Q13574.4	2.56E-05	0.046127	0.000555	0.999557	-0.02176	0.111577	-0.195	0.845575	-0.00585	0.033901	-0.17256	0.863156
LIN7A.O14910	-7.45E-05	0.231165	-0.00032	0.999743	0.293338	0.583787	0.502475	0.61569	0.009889	0.173736	0.056919	0.954646
EEP1.Q7L9B9	5.02E-05	0.157579	0.000318	0.999746	0.139075	0.383604	0.362548	0.717226	0.235439	0.109429	2.151526	0.032322
SRPK1.Q96SB4	-3.82E-05	0.124889	-0.00031	0.999756	-0.14533	0.311257	-0.4669	0.640912	-0.1816	0.090012	-2.01747	0.044546
C22orf39.Q6P5X5	-9.83E-06	0.099182	-9.91E-05	0.999921	-0.09044	0.256747	-0.35226	0.725066	0.084985	0.075472	1.126045	0.261671

Supplementary Table 18: Pathways downregulated in the brain in APOE E4 carriers

#category	term ID	term description	observed g	background	strength	false disco	matching proteins in your network (labels)
Reactome	HSA-112316	Neuronal System	42	409	0.73	1.91E-14	RAB3A, STX1A, KRAS, SYT1, GNB5, SLC1A1, GLRB, RASGRF2, PRKAR2B, CACNG8, SLC1A2, KCNMA1, NPTN, GNG3, GRIA2, DLGAP1, AP2A2, GRIN2A, HOMER1, PPFIA3, EPB41L1, PLCB1, EPB41L3, SHANK2, ACTN2, PRKACB, STXBP1, DLG3, RTN3, AKAP5, NSF, PICK1, LRRTM4, GABRA1, AP2M1, DBNL, GABRA2, SYT7, SIPA1L1, AP2B1, SHANK3, ARHGEF9
Reactome	HSA-112315	Transmission across Chemical Synapses	31	268	0.78	1.26E-11	RAB3A, STX1A, KRAS, SYT1, GNB5, SLC1A1, GLRB, RASGRF2, PRKAR2B, CACNG8, SLC1A2, NPTN, GNG3, GRIA2, AP2A2, GRIN2A, PPFIA3, EPB41L1, PLCB1, ACTN2, PRKACB, STXBP1, DLG3, AKAP5, NSF, PICK1, GABRA1, AP2M1, GABRA2, AP2B1, ARHGEF9
Reactome	HSA-6794361	Neurexins and neuroligins	15	56	1.15	2.40E-09	STX1A, SYT1, DLGAP1, GRIN2A, HOMER1, EPB41L1, EPB41L3, SHANK2, STXBP1, DLG3, LRRTM4, DBNL, SYT7, SIPA1L1, SHANK3
Reactome	HSA-112314	Neurotransmitter receptors and postsynaptic signal transmission	24	204	0.79	4.99E-09	KRAS, GNB5, GLRB, RASGRF2, PRKAR2B, CACNG8, NPTN, GNG3, GRIA2, AP2A2, GRIN2A, EPB41L1, PLCB1, ACTN2, PRKACB, DLG3, AKAP5, NSF, PICK1, GABRA1, AP2M1, GABRA2, AP2B1, ARHGEF9
Reactome	HSA-6794362	Protein-protein interactions at synapses	17	87	1.01	4.99E-09	STX1A, SYT1, DLGAP1, GRIN2A, HOMER1, PPFIA3, EPB41L1, EPB41L3, SHANK2, STXBP1, DLG3, RTN3, LRRTM4, DBNL, SYT7, SIPA1L1, SHANK3
Reactome	HSA-1428517	The citric acid (TCA) cycle and respiratory electron transport	20	177	0.77	3.55E-07	ATP5F1D, ATP5F1B, NNT, ATP5PO, ATP5PD, PDHB, MDH2, TMEM186, IDH2, DLST, ATP5F1C, FH, ATP5PB, SDHB, PDHA1, SUCLG1, ATP5F1A, OGDH, NDUFA3, PDK3
Reactome	HSA-9012999	RHO GTPase cycle	30	449	0.55	2.72E-06	CDC37, KALRN, NGEF, RASGRF2, DOCK3, PAK1, PREX2, ABI2, ABR, LETM1, ARHGAP32, BAIAP2, BASP1, PKN1, GIT2, PAK3, NCKAP1, GOPC, ARHGAP44, TFRC, WASF1, PLXNA1, DBN1, ACTN1, SLC4A7, DOCK4, VAPB, STMN2, HMOX2, ARHGEF9
Reactome	HSA-71406	Pyruvate metabolism and Citric Acid (TCA) cycle	11	54	1.03	8.65E-06	NNT, PDHB, MDH2, IDH2, DLST, FH, SDHB, PDHA1, SUCLG1, OGDH, PDK3
Reactome	HSA-399719	Trafficking of AMPA receptors	9	31	1.18	1.05E-05	CACNG8, GRIA2, AP2A2, EPB41L1, AKAP5, NSF, PICK1, AP2M1, AP2B1
Reactome	HSA-9013149	RAC1 GTPase cycle	18	183	0.71	1.05E-05	KALRN, NGEF, RASGRF2, DOCK3, PAK1, PREX2, ABI2, ABR, ARHGAP32, BAIAP2, PKN1, GIT2, PAK3, NCKAP1, ARHGAP44, TFRC, WASF1, DOCK4
Reactome	HSA-71403	Citric acid cycle (TCA cycle)	8	22	1.28	1.07E-05	NNT, MDH2, IDH2, DLST, FH, SDHB, SUCLG1, OGDH
Reactome	HSA-194315	Signaling by Rho GTPases	35	672	0.44	3.03E-05	CDC37, KALRN, YWHAH, NGEF, RASGRF2, DOCK3, PAK1, PREX2, ABI2, ABR, LETM1, ARHGAP32, BAIAP2, BASP1, PTK2, PKN1, GIT2, PAK3, NCKAP1, GOPC, YWHAB, ACTR2, ARHGAP44, TFRC, WASF1, EVL, PLXNA1, DBN1, ACTN1, SLC4A7, DOCK4, VAPB, STMN2, HMOX2, ARHGEF9

Reactome	HSA-163210	Formation of ATP by chemiosmotic coupling	7	18	1.31	4.40E-05	ATP5F1D, ATP5F1B, ATP5PO, ATP5PD, ATP5F1C, ATP5PB, ATP5F1A
Reactome	HSA-2029482	Regulation of actin dynamics for phagocytic cup formation	10	64	0.91	0.00016	PAK1, ABI2, BAIAP2, PTK2, NCKAP1, FCGR1A, ACTR2, WASF1, MYO5A, MYO10
Reactome	HSA-210500	Glutamate Neurotransmitter Release Cycle	7	24	1.19	0.00018	RAB3A, STX1A, SYT1, SLC1A1, SLC1A2, PPFIA3, STXBP1
Reactome	HSA-8856828	Clathrin-mediated endocytosis	14	145	0.71	0.00023	SYT1, GRK2, GRK3, AP2A2, SGIP1, DNM1, ACTR2, SH3GL2, TFRC, AP2M1, PIP5K1C, AP2B1, PACSIN1, NECAP1
Reactome	HSA-382551	Transport of small molecules	34	723	0.39	0.00028	SLC2A3, SLC30A3, ATP6V1E1, GNB5, SLC1A1, ATP4A, ATP2B3, ATP6V0A1, PRKAR2B, ATP6V1A, SLC1A2, GNG3, SLC27A4, EMB, LETM1, AP2A2, ATP6V1H, ATP2B2, PRKACB, SLC25A6, TFRC, STEAP2, NEDD4L, SLC39A10, SLC4A7, ATP2B1, SLC4A10, AP2M1, DMTN, PHB2, TPCN1, HMOX2, PHB, AP2B1
Reactome	HSA-162582	Signal Transduction	81	2540	0.22	0.0003	PLAT, TLES, CDC37, KALRN, YWHAH, ATP6V1E1, KRAS, GNB5, GNAO1, STRN, NGEF, ATP6V0A1, RASGRF2, PRKAR2B, MAPKAP1, DOCK3, ATP6V1A, PAK1, KHDRBS2, SST, PREX2, DGKI, GNG3, ABI2, ABR, LETM1, PRKCE, PDHB, ARHGAP32, GRK2, BAIAP2, GRK3, BASP1, AP2A2, PLCB1, PTK2, PKN1, PRICKLE1, KCTD6, LINGO1, GIT2, ATP6V1H, PAK3, NCKAP1, RGS7, ACTN2, GOPC, PRKACB, YWHAH, DNM1, DLG3, ACTR2, ARHGAP44, PDHA1, SH3GL2, PDE4A, TFRC, WASF1, EVL, PLXNA1, DBN1, ACTN1, PPP3CA, NEDD4L, DGKB, SLC4A7, GABRA1, AP2M1, HDAC9, DOCK4, VAPB, GFRA2, STMN2, PIP5K1C, HMOX2, PHB, PIP4K2B, PIP5K1A, PIP5K1B, PIP5K1C, PIP5K1D
Reactome	HSA-2029480	Fcgamma receptor (FCGR) dependent phagocytosis	11	89	0.81	0.0003	PAK1, ABI2, PRKCE, BAIAP2, PTK2, NCKAP1, FCGR1A, ACTR2, WASF1, MYO5A, MYO10
Reactome	HSA-416993	Trafficking of GluR2-containing AMPA receptors	6	17	1.27	0.00033	GRIA2, AP2A2, NSF, PICK1, AP2M1, AP2B1
Reactome	HSA-2682334	EPH-Ephrin signaling	11	92	0.8	0.00036	KALRN, NGEF, PAK1, EPHA4, AP2A2, PTK2, PAK3, DNM1, ACTR2, AP2M1, AP2B1
Reactome	HSA-8949613	Cristae formation	7	31	1.07	0.00055	ATP5F1D, ATP5F1B, ATP5PO, ATP5PD, ATP5F1C, ATP5PB, ATP5F1A
Reactome	HSA-422475	Axon guidance	27	551	0.41	0.0012	KALRN, RPS4Y1, KRAS, NGEF, PAK1, SCN2B, EPHA4, AP2A2, PTK2, ANK2, PAK3, PRKACB, DNM1, DLG3, ACTR2, SH3GL2, EVL, PLXNA1, AKAP5, ABLIM2, AP2M1, SEMA4D, MYO10, GFRA2, PIP5K1C, AP2B1, SHANK3
Reactome	HSA-9013404	RAC2 GTPase cycle	10	87	0.78	0.0012	DOCK3, PAK1, ABI2, ABR, ARHGAP32, GIT2, NCKAP1, TFRC, DOCK4, VAPB
Reactome	HSA-9662360	Sensory processing of sound by inner hair cells of the cochlea	9	68	0.84	0.0012	RAB3A, STX1A, SYP, KCNMA1, BSN, EPB41L1, EPB41L3, ATP2B2, ATP2B1

Reactome	HSA-177504	Retrograde neurotrophin signalling	5	14	1.27	0.0017	AP2A2, DNM1, SH3GL2, AP2M1, AP2B1
Reactome	HSA-182218	Nef Mediated CD8 Down-regulation	4	6	1.54	0.0018	AP2A2, ATP6V1H, AP2M1, AP2B1
Reactome	HSA-4420097	VEGFA-VEGFR2 Pathway	10	96	0.74	0.0022	KRAS, MAPKAP1, PAK1, ABI2, BAIAP2, PTK2, PAK3, NCKAP1, PRKACB, WASF1
Reactome	HSA-9658195	Leishmania infection	13	165	0.62	0.0022	GNB5, PRKAR2B, GNG3, ABI2, BAIAP2, PTK2, NCKAP1, FCGR1A, PRKACB, ACTR2, WASF1, MYO5A, MYO10
Reactome	HSA-9006934	Signaling by Receptor Tyrosine Kinases	25	521	0.4	0.0026	PLAT, CDC37, ATP6V1E1, KRAS, ATP6V0A1, MAPKAP1, DOCK3, ATP6V1A, PAK1, ABI2, PRKCE, BAIAP2, AP2A2, PTK2, ATP6V1H, PAK3, NCKAP1, PRKACB, YWHAB, DNM1, SH3GL2, WASF1, GABRA1, AP2M1, AP2B1
Reactome	HSA-264642	Acetylcholine Neurotransmitter Release Cycle	5	17	1.19	0.0029	RAB3A, STX1A, SYT1, PPFIA3, STXBP1
Reactome	HSA-9664422	FCGR3A-mediated phagocytosis	8	62	0.83	0.003	ABI2, BAIAP2, PTK2, NCKAP1, ACTR2, WASF1, MYO5A, MYO10
Reactome	HSA-1268020	Mitochondrial protein import	8	65	0.81	0.0033	TIMM13, ATP5F1B, TOMM70, HSPD1, SLC25A6, DNAJC19, ATP5F1A, TOMM6
Reactome	HSA-181429	Serotonin Neurotransmitter Release Cycle	5	18	1.16	0.0033	RAB3A, STX1A, SYT1, PPFIA3, STXBP1
Reactome	HSA-181430	Norepinephrine Neurotransmitter Release Cycle	5	18	1.16	0.0033	RAB3A, STX1A, SYT1, PPFIA3, STXBP1
Reactome	HSA-8856825	Cargo recognition for clathrin-mediated endocytosis	10	105	0.7	0.0033	SYT1, GRK2, GRK3, AP2A2, SGIP1, SH3GL2, TFRC, AP2M1, AP2B1, NECAP1
Reactome	HSA-917977	Transferrin endocytosis and recycling	6	31	1.01	0.0033	ATP6V1E1, ATP6V0A1, ATP6V1A, ATP6V1H, TFRC, STEAP2
Reactome	HSA-9013148	CDC42 GTPase cycle	12	154	0.61	0.0035	NGEF, RASGRF2, PAK1, PREX2, ABR, ARHGAP32, BAIAP2, GIT2, PAK3, ARHGAP44, TFRC, ARHGEF9
Reactome	HSA-167590	Nef Mediated CD4 Down-regulation	4	9	1.37	0.0037	AP2A2, ATP6V1H, AP2M1, AP2B1
Reactome	HSA-164938	Nef-mediates down modulation of cell surface receptors by recruiting them to clathrin adapters	5	20	1.12	0.0042	PACS1, AP2A2, ATP6V1H, AP2M1, AP2B1

Reactome	HSA-9609507	Protein localization	12	163	0.59	0.0054	TIMM13, ACOT8, STX1A, ATP5F1B, TOMM70, ACOX2, HSPD1, SLC25A6, DNAJC19, ATP5F1A, TOMM6, GET1
Reactome	HSA-5663213	RHO GTPases Activate WASPs and WAVEs	6	36	0.94	0.0055	ABI2, BAIAP2, PTK2, NCKAP1, ACTR2, WASF1
Reactome	HSA-9013423	RAC3 GTPase cycle	9	93	0.71	0.0056	PAK1, ABI2, ABR, ARHGAP32, BAIAP2, GIT2, NCKAP1, TFRC, WASF1
Reactome	HSA-212676	Dopamine Neurotransmitter Release Cycle	5	23	1.06	0.0067	RAB3A, STX1A, SYT1, PPFIA3, STXBP1
Reactome	HSA-422356	Regulation of insulin secretion	8	78	0.73	0.0088	STX1A, GNB5, PRKAR2B, GNG3, PLCB1, PRKACB, STXBP1, AKAP5
Reactome	HSA-8980692	RHOA GTPase cycle	11	148	0.59	0.0088	KALRN, NGEF, RASGRF2, PREX2, ABR, ARHGAP32, PKN1, ARHGAP44, TFRC, VAPB, HMOX2
Reactome	HSA-917937	Iron uptake and transport	7	58	0.8	0.0088	ATP6V1E1, ATP6V0A1, ATP6V1A, ATP6V1H, TFRC, STEAP2, HMOX2
Reactome	HSA-9013406	RHOQ GTPase cycle	7	59	0.79	0.0092	PAK1, ARHGAP32, GIT2, GOPC, TFRC, SLC4A7, ARHGEF9
Reactome	HSA-438064	Post NMDA receptor activation events	8	80	0.72	0.0096	KRAS, RASGRF2, PRKAR2B, GRIA2, GRIN2A, ACTN2, PRKACB, DLG3
Reactome	HSA-163200	Respiratory electron transport, ATP synthesis by chemiosmotic coupling, and heat production by uncoupling proteins.	10	127	0.62	0.01	ATP5F1D, ATP5F1B, ATP5PO, ATP5PD, TMEM186, ATP5F1C, ATP5PB, SDHB, ATP5F1A, NDUFA3
Reactome	HSA-199991	Membrane Trafficking	26	626	0.34	0.01	RAB3A, YWHAH, SYT1, GRK2, GRK3, AP2A2, ANK2, KIFAP3, SGIP1, YWHAB, DNMT1, DENND1A, ACTR2, SNX2, SH3GL2, TFRC, NSF, MYO5A, AP2M1, VPS52, PIP5K1C, NAPB, AP2B1, PACSIN1, ARFIP2, NECAP1
Reactome	HSA-111885	Opioid Signalling	8	90	0.67	0.0188	GNB5, PRKAR2B, GNG3, GRK2, PLCB1, PRKACB, PDE4A, PPP3CA
Reactome	HSA-1592230	Mitochondrial biogenesis	8	93	0.66	0.0226	ATP5F1D, ATP5F1B, ATP5PO, ATP5PD, IDH2, ATP5F1C, ATP5PB, ATP5F1A
Reactome	HSA-3858494	Beta-catenin independent WNT signaling	10	143	0.57	0.0226	KRAS, GNB5, GNAO1, GNG3, AP2A2, PLCB1, PRICKLE1, PPP3CA, AP2M1, AP2B1
Reactome	HSA-373760	L1CAM interactions	9	120	0.6	0.0249	PAK1, SCN2B, AP2A2, ANK2, DNMT1, DLG3, SH3GL2, AP2M1, AP2B1
Reactome	HSA-9013405	RHOD GTPase cycle	6	52	0.78	0.0249	ARHGAP32, PLXNA1, DBN1, ACTN1, SLC4A7, VAPB
Reactome	HSA-9013408	RHOG GTPase cycle	7	73	0.7	0.0249	KALRN, DOCK3, LETM1, ARHGAP32, TFRC, DOCK4, VAPB
Reactome	HSA-888590	GABA synthesis, release, reuptake and degradation	4	19	1.04	0.0265	RAB3A, STX1A, SYT1, STXBP1
Reactome	HSA-9013409	RHOJ GTPase cycle	6	54	0.77	0.0285	PAK1, ARHGAP32, GIT2, PAK3, TFRC, SLC4A7

Reactome	HSA-442982	Ras activation upon Ca ²⁺ influx through NMDA receptor	4	20	1.02	0.0305	KRAS, RASGRF2, ACTN2, DLG3
Reactome	HSA-438066	Unblocking of NMDA receptors, glutamate binding and activation	4	21	1	0.0352	GRIA2, GRIN2A, ACTN2, DLG3
Reactome	HSA-5621575	CD209 (DC-SIGN) signaling	4	21	1	0.0352	KRAS, PAK1, PAK3, PRKACB
Reactome	HSA-416482	G alpha (12/13) signalling events	7	80	0.66	0.0376	KALRN, GNB5, NGEF, RASGRF2, GNG3, ABR, ARHGEF9
Reactome	HSA-5205685	PINK1-PRKN Mediated Mitophagy	4	22	0.98	0.0394	TOMM70, ATG5, TOMM6, ATG12
Reactome	HSA-4086398	Ca ²⁺ pathway	6	60	0.72	0.0434	KRAS, GNB5, GNAO1, GNG3, PLCB1, PPP3CA
Reactome	HSA-977443	GABA receptor activation	6	60	0.72	0.0434	GNB5, NPTN, GNG3, GABRA1, GABRA2, ARHGEF9
Reactome	HSA-9620244	Long-term potentiation	4	23	0.96	0.0438	GRIA2, GRIN2A, ACTN2, DLG3
Reactome	HSA-168799	Neurotoxicity of clostridium toxins	3	10	1.2	0.0459	STX1B, STX1A, SYT1
Reactome	HSA-1430728	Metabolism	59	2092	0.17	0.0468	SLC2A3, XYLB, ATP5F1D, ACOT8, STX1A, RPS4Y1, MSMO1, VAC14, CYP46A1, GNB5, ATP5F1B, NNT, PRKAR2B, PLEKHA6, BHMT, AGPAT5, ATP5PO, GNG3, ATP5PD, GAA, PDHB, ACOX2, ISCU, OSBPL3, ACSS1, MDH2, TMEM186, IDH2, DLST, PLCB1, GGT7, PYCR2, ATP5F1C, FH, INPP5A, ATP5PB, PRKACB, STXBP1, SDHB, PDHA1, BPHL, MTMR6, FDX2, SUCLG1, AKAP5, GATM, ATP5F1A, OGDH, MTRR, NAT8L, VAPB, NDUFA3, ALDH6A1, PIP5K1C, HMOX2, PRKAR2B, PDE4A, PPP3CA
Reactome	HSA-180024	DARPP-32 events	4	24	0.94	0.0479	PRKAR2B, PRKACB, PDE4A, PPP3CA
Reactome	HSA-381676	Glucagon-like Peptide-1 (GLP1) regulates insulin secretion	5	42	0.8	0.0491	GNB5, PRKAR2B, GNG3, PRKACB, AKAP5
Reactome	HSA-109582	Hemostasis	23	607	0.3	0.0498	PLAT, ACTN4, KRAS, GNB5, ATP2B3, PRKAR2B, DOCK3, KCNMA1, DGKI, GNG3, PRKCE, PTK2, ATP2B2, KIFAP3, ACTN2, PRKACB, HABP4, ACTN1, PICK1, DGKB, ATP2B1, DOCK4, CD99L2

Supplementary Table 19: Pathways upregulated with brain BHBA

#category	term ID	term description	observed gene count	background gene count	strength	false discovery rate	matching proteins in your network (labels)
Reactome	HSA-5368286	Mitochondrial translation initiation	14	88	1.41	3.99E-12	MRPS10, MRPS35, MRPS7, MRPS25, PTC3, MTIF2, MRPS5, MRPS31, MRPS23, MRPS15, MTIF3, MRPS6, MRPS22,
Reactome	HSA-5389840	Mitochondrial translation elongation	12	88	1.35	7.81E-10	MRPS10, MRPS35, MRPS7, MRPS25, PTC3, MRPS5, MRPS31, MRPS23, MRPS15, MRPS6, MRPS22, MRPS27
Reactome	HSA-5419276	Mitochondrial translation termination	12	88	1.35	7.81E-10	MRPS10, MRPS35, MRPS7, MRPS25, PTC3, MRPS5, MRPS31, MRPS23, MRPS15, MRPS6, MRPS22, MRPS27
Reactome	HSA-392499	Metabolism of proteins	28	1917	0.38	0.0049	ARF5, MRPS10, MRPS35, MRPS7, NUP85, CUL9, MRPS25, PTC3, AXIN1, MTIF2, TUBB4A, MRPS5, COMMD10, VCPIP1, MRPS31, MRPS23, RNF123, KLHL22, PSMF1, ZBTB16, UCHL5, MRPS15, MTIF3, MRPS6, MRPS22, MRPS27, VDAC3, NUB1

Supplementary Table 20: Pathways downregulated by brain BHBA

#category	term ID	term description	observed gene count	background gene count	strength	false discovery rate	matching proteins in your network (labels)
Reactome	HSA-191273	Cholesterol biosynthesis	6	27	1.48	0.00029	MSMO1, SC5D, HMGCS1, DHCR7, FDPS, PLPP6
Reactome	HSA-1430728	Metabolism	36	2092	0.37	0.0012	SLC25A1, PSMA3, TTR, GSTM5, MSMO1, SC5D, DARS1, PECC, PIK3C2A, RPS11, KPNB1, BDH2, ADH1B, GSTM1, HMGCS1, AACCS, RPS2, RPS3A, AKS, DHCR7, FDPS, MAPKAPK2, SCD, PSMB9, NEU1, RDH11, PLPP6, CHKB, PSMC2, PRXL2B, RPS13, SLC44A2, SLC25A16, EPHX1, ALDOB, MTHFD1
Reactome	HSA-168249	Innate Immune System	23	1041	0.48	0.0021	PSMA3, TTR, KRT1, BST2, ARPC1A, SRP14, C1orf35, KPNB1, S100A1, CRK, SYNGR1, TMEM179B, C6orf120, MAPKAPK2, SIKE1, CNPY3, PSMB9, NEU1, SERPINB1, PSMC2, ATP11A, SLC44A2, CYFIP1
Reactome	HSA-6798695	Neutrophil degranulation	15	476	0.63	0.0021	TTR, KRT1, BST2, SRP14, C1orf35, KPNB1, SYNGR1, TMEM179B, C6orf120, NEU1, SERPINB1, PSMC2, ATP11A, SLC44A2, CYFIP1
Reactome	HSA-1655829	Regulation of cholesterol biosynthesis by SREBP (SREBF)	6	55	1.17	0.0025	SC5D, KPNB1, HMGCS1, DHCR7, FDPS, SCD
Reactome	HSA-168256	Immune System	33	1979	0.36	0.0025	RBX1, PSMA3, TTR, KRT1, BST2, ARPC1A, SRP14, PML, C1orf35, KPNB1, S100A1, SEC61A2, PDIA3, CRK, LILRB1, SYNGR1, TMEM179B, C6orf120, CDC16, ENAH, PTPN14, MAPKAPK2, SIKE1, CNPY3, PSMB9, NEU1, SERPINB1, CD99, PSMC2, ATP11A, CDC27, SLC44A2, CYFIP1
Reactome	HSA-376176	Signaling by ROBO receptors	10	215	0.8	0.0025	RBX1, PSMA3, RPS11, NCBP2, RPS2, RPS3A, ENAH, PSMB9, PSMC2, RPS13
Reactome	HSA-556833	Metabolism of lipids	18	739	0.52	0.0025	SLC25A1, MSMO1, SC5D, PECC, PIK3C2A, KPNB1, BDH2, HMGCS1, AACCS, DHCR7, FDPS, MAPKAPK2, SCD, NEU1, PLPP6, CHKB, PRXL2B, SLC44A2
Reactome	HSA-9010553	Regulation of expression of SLITs and ephrins	9	169	0.86	0.0025	RBX1, PSMA3, RPS11, NCBP2, RPS2, RPS3A, PSMB9, PSMC2, RPS13
Reactome	HSA-9692914	SARS-CoV-1-host interactions	7	95	1	0.0025	BST2, RPS11, KPNB1, RPS2, RPS3A, SIKE1, RPS13
Reactome	HSA-1799339	SRP-dependent cotranslational protein targeting to membrane	7	110	0.94	0.0048	SPCS2, SRP14, RPS11, SEC61A2, RPS2, RPS3A, RPS13
Reactome	HSA-2426168	Activation of gene expression by SREBF	5	42	1.21	0.0048	SC5D, HMGCS1, DHCR7, FDPS, SCD
Reactome	HSA-8957322	Metabolism of steroids	8	153	0.85	0.0048	MSMO1, SC5D, KPNB1, HMGCS1, DHCR7, FDPS, SCD, PLPP6
Reactome	HSA-9754678	SARS-CoV-2 modulates host translation	5	49	1.14	0.0075	RPS11, GEMIN4, RPS2, RPS3A, RPS13
Reactome	HSA-1236974	ER-Phagosome pathway	6	89	0.96	0.0106	PSMA3, S100A1, SEC61A2, PDIA3, PSMB9, PSMC2
Reactome	HSA-69052	Switching of origins to a post-replicative	6	91	0.95	0.0112	RBX1, PSMA3, CDC16, PSMB9, PSMC2, CDC27
Reactome	HSA-174084	Autodegradation of Cdh1 by	5	63	1.03	0.0178	PSMA3, CDC16, PSMB9, PSMC2, CDC27
Reactome	HSA-5663205	Infectious disease	18	917	0.43	0.0197	RBX1, PSMA3, BST2, ARPC1A, PML, RPS11, KPNB1, CRK, GEMIN4, NCBP2, GTF2F2, RPS2, RPS3A, SIKE1, PSMB9, PSMC2, RPS13, CYFIP1
Reactome	HSA-174154	APC/C:Cdc20 mediated degradation of	5	67	1.01	0.0199	PSMA3, CDC16, PSMB9, PSMC2, CDC27
Reactome	HSA-69306	DNA Replication	7	156	0.79	0.0206	RBX1, PSMA3, KPNB1, CDC16, PSMB9, PSMC2, CDC27
Reactome	HSA-9735869	SARS-CoV-1 modulates host translation	4	36	1.18	0.0206	RPS11, RPS2, RPS3A, RPS13
Reactome	HSA-68867	Assembly of the pre-replicative complex	6	111	0.87	0.021	PSMA3, KPNB1, CDC16, PSMB9, PSMC2, CDC27
Reactome	HSA-174178	APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1	5	73	0.97	0.023	PSMA3, CDC16, PSMB9, PSMC2, CDC27
Reactome	HSA-174184	Cdc20:Phospho-APC/C mediated degradation of Cyclin A	5	72	0.97	0.023	PSMA3, CDC16, PSMB9, PSMC2, CDC27

Reactome	HSA-69017	CDK-mediated phosphorylation and removal of Cdc6	5	72	0.97	0.023	PSMA3, CDC16, PSMB9, PSMC2, CDC27
Reactome	HSA-1643685	Disease	26	1702	0.32	0.0237	RBX1, PSMA3, TTR, BST2, ARPC1A, PML, RPS11, KPNB1, S100A1, CRK, GEMIN4, NCBP2, GTF2F2, RPS2, RPS3A, CDC16, ZC3HC1, SIKE1, PSMB9, NEU1, PSMC2, ERLIN1, CDC27, RPS13, CYFIP1, ALDOB
Reactome	HSA-72766	Translation	9	290	0.62	0.0249	SPCS2, DARS1, SRP14, RPS11, SEC61A2, RPS2, RPS3A, EIF2B4, RPS13
Reactome	HSA-9675108	Nervous system development	13	575	0.49	0.0259	RBX1, PSMA3, ARPC1A, RPS11, PRX, NCBP2, RPS2, RPS3A, MYH10, ENAH, PSMB9, PSMC2, RPS13
Reactome	HSA-176408	Regulation of APC/C activators between G1/S and early anaphase	5	80	0.93	0.026	PSMA3, CDC16, PSMB9, PSMC2, CDC27
Reactome	HSA-72695	Formation of the ternary complex, and subsequently, the 43S complex	4	51	1.03	0.0409	RPS11, RPS2, RPS3A, RPS13
Reactome	HSA-9762114	GSK3B and BTRC:CUL1-mediated-degradation of NFE2L2	4	51	1.03	0.0409	RBX1, PSMA3, PSMB9, PSMC2
Reactome	HSA-180585	Vif-mediated degradation of APOBEC3G	4	53	1.01	0.0434	RBX1, PSMA3, PSMB9, PSMC2
Reactome	HSA-422475	Axon guidance	12	551	0.47	0.0434	RBX1, PSMA3, ARPC1A, RPS11, NCBP2, RPS2, RPS3A, MYH10, ENAH, PSMB9, PSMC2, RPS13
Reactome	HSA-6807047	Cholesterol biosynthesis via	2	4	1.83	0.0434	SC5D, DHCR7
Reactome	HSA-6807062	Cholesterol biosynthesis via lathosterol	2	4	1.83	0.0434	SC5D, DHCR7
Reactome	HSA-8854050	FBXL7 down-regulates AURKA during mitotic entry and in early mitosis	4	54	1	0.0434	RBX1, PSMA3, PSMB9, PSMC2
Reactome	HSA-8953854	Metabolism of RNA	14	705	0.43	0.0434	PSMA3, SF3B6, TRNT1, RPS11, GEMIN4, NCBP2, GTF2F2, RPS2, RPS3A, MAPKAPK2, PSMB9, PSMC2, RPS13, CNOT9
Reactome	HSA-9604323	Negative regulation of NOTCH4	4	53	1.01	0.0434	RBX1, PSMA3, PSMB9, PSMC2
Reactome	HSA-975956	Nonsense Mediated Decay (NMD) independent of the Exon Junction	5	94	0.86	0.0434	RPS11, NCBP2, RPS2, RPS3A, RPS13
Reactome	HSA-4641258	Degradation of DVL	4	56	0.99	0.0452	RBX1, PSMA3, PSMB9, PSMC2

Supplementary Table 21: Pathways upregulated with brain valine

#category	term ID	term description	observed gene count	background gene count	strength	false discovery rate	matching proteins in your network (labels)
Reactome	HSA-168256	Immune System	138	1979	0.34	1.80E-14	MYH9, RBX1, PSMA3, CHGA, LBP, CSK, PSMA2, C5, DUSP3, VTN, TTR, SEC61A1, C3, VASP, KRT1, NUP210, CHI3L1, ITGAV, PSMA6, HERC2, CYBA, BLMH, ANAPC5, A1BG, ACTR3, C6, PIK3CA, TUBB4A, PSMB6, DYNC1L1, CCT8, KPNB1, UBR1, FBXO27, NCSTN, APEH, RICTOR, SEC61A2, RAB24, FGB, GLB1, EEF2, UBA6, LILRB1, TCP1, TRAF7, CPN2, DYNC1L1, PKM, NPEPPS, ATP11B, HSPA5, EIF4A2, CUL1, FBXO21, RNF123, HSP90AA1, FGG, UBA1, RNF41, PLD1, POLR2K, KPNA1, PDPK1, MAP2K3, FBXO2, HP, DYNC1H1, IGF2R, VCP, UBA3, CAPZA2, CD47, C4BPA, DYNLT1, CFH, DHX9, KPNA5, HRNR, CD58, ACTR1A, PSMA7, PGM1, HSP90AB1, VAV2, HECTD3, PPIE, UBR2, PSMB2, GSN, UBR4, KCNAB2, NUP160, CYBB, RPS6KA3, ARIH1, ATP8A1, DNM2, SIPA1, PROS1, CFI, CAMK2B, TAX1BP1, ITGB2, ROCK1, SAR1B, CD14, ARPC1B, IDH1, ANAPC7, C4A, ERAP2, HNRNP, CAPZB, AAMP, STXB2, TICAM2, DERA, PSMD6, PPIA, FLNB, KLHL5, MIB2, PIK3R1, DOCK2, TRIM3, RPS6KA1, HSPA8, NUP37, ITGAX, ACLY, SARM1, IRF3, CYFIP1, ATP6AP2, SAMHD1, MYD88, PIK3CB
Reactome	HSA-392499	Metabolism of proteins	134	1917	0.34	2.57E-14	SERPIND1, EIF3D, RBX1, PSMA3, EEF1A2, EIF3E, TBCB, PSMA2, TTR, SEC61A1, H4C6, SSR1, C3, EIF2S3, NUP210, H3-3B, APC5, EIF2S1, CAR52, CCT7, PSMA6, HERC2, AARS1, CSNK2A2, RPL8, TUBB4A, GFM1, USO1, VCAN, IDE, EIF2B2, PSMB6, DYNC1L1, COMMD10, CCT6A, USP15, NGLY1, OTULIN, CCT8, TRAPPC10, FBXO27, NCSTN, CCT3, RPN1, PIGX, APEH, SEC61A2, COPS2, LEO1, NANP, COPS6, RAB24, GLB1, LAMB2, TADA3, TSPAN5, EEF2, PLG, GMPPB, TNKS, UBA6, MSRA, SSR4, TCP1, DYNC11, EIF4A2, CUL1, FBXO21, RNF123, COPB2, TMED9, FGG, UBA1, SENP8, SMAD4, B3GLCT, BABAM2, FBXO2, AP3M1, DYNC1H1, CHM, GMPPA, ITIH2, VCP, DNMT1, EIF2B3, ETF1, UBA3, CAPZA2, CTR9, RAB13, ACTR1A, PSMA7, FPGT, PPA1, PSMB2, GSN, NUP160, GNB1, RBBP7, RPS6, TRAPPC9, RPL24, PROS1, CCT4, RABGGTA, PDIA6, SAR1B, DPAGT1, COPS7B, TARS1, COMMD5, C4A, ACTL6A, GSPT1, CAPZB, RANGAP1, PSMD6, RAB9A, KLHL5, COPS4, PGM3, EIF2B4, ALG11, HSPA8, CALU, COPS7A, NUP37, SRP54, ATP6AP2, PTP4A2, KNG1, EIF2B5,
Reactome	HSA-168249	Innate Immune System	91	1041	0.44	2.82E-14	MYH9, PSMA3, CHGA, LBP, PSMA2, C5, DUSP3, VTN, TTR, C3, KRT1, CHI3L1, ITGAV, PSMA6, CYBA, A1BG, ACTR3, C6, PIK3CA, PSMB6, DYNC1L1, CCT8, KPNB1, NCSTN, APEH, RAB24, FGB, GLB1, EEF2, CPN2, PKM, ATP11B, CUL1, HSP90AA1, FGG, PLD1, POLR2K, PDPK1, MAP2K3, HP, DYNC1H1, IGF2R, VCP, UBA3, CAPZA2, CD47, C4BPA, DYNLT1, CFH, DHX9, HRNR, CD58, PSMA7, PGM1, HSP90AB1, VAV2, PPIE, PSMB2, GSN, UBR4, KCNAB2, CYBB, RPS6KA3, ATP8A1, DNM2, PROS1, CFI, TAX1BP1, ITGB2, ROCK1, CD14, ARPC1B, IDH1, C4A, AAMP, TICAM2, DERA, PSMD6, PPIA, PIK3R1, DOCK2, RPS6KA1, HSPA8, ITGAX, ACLY, SARM1, IRF3, CYFIP1, ATP6AP2, MYD88, PIK3CB

Reactome	HSA-6798695	Neutrophil degranulation	50	476	0.52	1.11E-09	PSMA2, TTR, C3, KRT1, CHI3L1, ITGAV, CYBA, A1BG, DYNC1L1, CCT8, KPNB1, NCSTN, APEH, RAB24, GLB1, EEF2, PKM, ATP11B, HSP90AA1, PLD1, HP, DYNC1H1, IGF2R, VCP, CD47, DYNLT1, HRNR, CD58, PGM1, HSP90AB1, PPIE, GSN, UBR4, KCNAB2, CYBB, ATP8A1, ITGB2, ROCK1, CD14, IDH1, TICAM2, DERA, PSMD6, PPIA, DOCK2, HSPA8, ITGAX, ACLY, CYFIP1, ATG6AP2
Reactome	HSA-983169	Class I MHC mediated antigen processing & presentation	41	376	0.53	3.29E-08	RBX1, PSMA3, PSMA2, SEC61A1, ITGAV, PSMA6, HERC2, CYBA, BLMH, ANAPC5, PSMB6, UBR1, FBXO27, SEC61A2, FGB, UBA6, TRAF7, NPEPPS, HSPA5, CUL1, FBXO21, RNF123, FGG, UBA1, RNF41, FBXO2, UBA3, PSMA7, HECTD3, UBR2, PSMB2, UBR4, CYBB, SAR1B, CD14, ANAPC7, ERAP2, PSMD6, KLHL5, MIR2, MYD88
Reactome	HSA-1280218	Adaptive Immune System	61	758	0.4	8.00E-08	RBX1, PSMA3, CSK, PSMA2, SEC61A1, C3, VASP, ITGAV, PSMA6, HERC2, CYBA, BLMH, ANAPC5, PIK3CA, TUBB4A, PSMB6, DYNC1L1, UBR1, FBXO27, RICTOR, SEC61A2, FGB, UBA6, LILRB1, TRAF7, DYNC11, NPEPPS, HSPA5, CUL1, FBXO21, RNF123, FGG, UBA1, RNF41, PDPK1, FBXO2, DYNC1H1, UBA3, CAPZ2, ACTR1A, PSMA7, HECTD3, UBR2, PSMB2, UBR4, CYBB, DNMT2, SIPA1, ITGB2, SAR1B, CD14, ANAPC7, ERAP2, CAPZB, PSMD6, PPIA, KLHL5, MIB2, NIK2B1, MYD88, NIK2C
Reactome	HSA-1643685	Disease	102	1702	0.27	4.68E-07	SNRPD3, MYH9, RBX1, PSMA3, CSK, VPS18, PSMA2, MSH2, TTR, H4C6, C3, FNTB, NUP210, H3-3B, MNAT1, PSMA6, CYBA, ANAPC5, RPL8, PRDX1, MAP2K2, ACTR3, CHMP3, PIK3CA, TUBB4A, VCAN, PSMB6, DYNC1L1, ATP1B3, KPNB1, ADCY9, NCSTN, CAPN2, RPN1, RICTOR, POLR2G, FGB, GLB1, EEF2, VPS41, TNKS, DYNC11, MVB12A, CUL1, JAG2, HSP90AA1, VPS39, FGG, SMAD4, POLR2K, B3GLCT, KPNA1, PDPK1, MAP2K3, UVRAG, DYNC1H1, VCP, DNMT1, KPNA5, PSMA7, PGM1, GNAS, ENTPD1, HSP90AB1, VAV2, PSMB2, APBB1IP, NUP160, GNB1, RAD50, GALT, AGRN, RBBP7, RPS6, PRKAR1A, RPL24, CAMK2B, ROCK1, KDM1A, XPO1, SAR1B, CD14, DPAGT1, ARPC1B, IDH1, ANAPC7, RANGAP1, RFC5, GBE1, PSMD6, PPIA, MIB2, PIK3R1, DOCK2, ALG11, MMAB, NUP37, IRF3, CYFIP1, SLC33A1, MYD88, PIK3CB
Reactome	HSA-9716542	Signaling by Rho GTPases, Miro GTPases and RHOBTB3	55	688	0.4	6.13E-07	MYH9, TXNL1, CSK, PFN2, H4C6, EMC3, H3-3B, KIDINS220, CCT7, CYBA, ACTR3, PIK3CA, TUBB4A, ANLN, DYNC1L1, CCT6A, TIAM1, ARHGAP17, CKB, COPS2, DYNC11, HSP90AA1, MPP7, PLD1, PDPK1, DYNC1H1, SEMA4F, ANKLE2, PLXNB1, VCP, HSP90AB1, VAV2, RCC2, SPEN, NUP160, CYBB, ROCK1, KDM1A, XPO1, CHN1, ARPC1B, SPATA13, CAPZB, RANGAP1, MTMR1, NISCH, RAB9A, COPS4, PIK3R1, DOCK2, ARHGEF10, MCF2L, ARHGEF28, NUP37, CYFIP1
Reactome	HSA-194315	Signaling by Rho GTPases	54	672	0.4	6.50E-07	MYH9, TXNL1, CSK, PFN2, H4C6, EMC3, H3-3B, KIDINS220, CCT7, CYBA, ACTR3, PIK3CA, TUBB4A, ANLN, DYNC1L1, CCT6A, TIAM1, ARHGAP17, CKB, COPS2, DYNC11, HSP90AA1, MPP7, PLD1, PDPK1, DYNC1H1, SEMA4F, ANKLE2, PLXNB1, VCP, HSP90AB1, VAV2, RCC2, SPEN, NUP160, CYBB, ROCK1, KDM1A, XPO1, CHN1, ARPC1B, SPATA13, CAPZB, RANGAP1, MTMR1, NISCH, COPS4, PIK3R1, DOCK2, ARHGEF10, MCF2L, ARHGEF28, NUP37, CYFIP1

Reactome	HSA-597592	Post-translational protein modification	88	1405	0.29	7.49E-07	SERPIND1, RBX1, PSMA3, PSMA2, H4C6, C3, NUP210, PSMA6, HERC2, TUBB4A, USO1, VCAN, IDE, PSMB6, DYNC11L1, COMMD10, USP15, NGLY1, OTULIN, TRAPPC10, FBXO27, RPN1, PIGX, COPS2, LEO1, NANP, COPS6, RAB24, GLB1, LAMB2, TADA3, EEF2, GMPPB, TNKS, UBA6, DYNC111, CUL1, FBXO21, RNF123, COPB2, TMED9, FGG, UBA1, SENP8, SMAD4, B3GLCT, BABAM2, FBXO2, DYNC1H1, CHM, GMPPA, ITIH2, VCP, DNMT1, UBA3, CAPZA2, CTR9, RAB13, ACTR1A, PSMA7, FPGT, PSMB2, NUP160, RBBP7, TRAPPC9, PROS1, RABGGTA, PDIA6, SAR1B, DPAGT1, COPS7B, COMMD5, C4A, ACTL6A, CAPZB, RANGAP1, PSMD6, RAB9A, KLHL5, COPS4, PGM3, ALG11, HSPA8, CALU, COPS7A,
Reactome	HSA-5663205	Infectious disease	65	917	0.35	1.30E-06	SNRPD3, MYH9, RBX1, PSMA3, VPS18, PSMA2, H4C6, C3, FNTB, NUP210, MNAT1, PSMA6, CYBA, RPL8, MAP2K2, ACTR3, CHMP3, TUBB4A, PSMB6, DYNC111, ATP1B3, KPNB1, ADCY9, RPN1, POLR2G, EEF2, VPS41, DYNC111, MVB12A, HSP90AA1, VPS39, SMAD4, POLR2K, KPNA1, PDPK1, MAP2K3, UVRAG, DYNC1H1, VCP, KPNA5, PSMA7, GNAS, ENTPD1, HSP90AB1, VAV2, PSMB2, NUP160, GNB1, AGRN, RBBP7, RPS6, PRKAR1A, RPL24, ROCK1, KDM1A, XPO1, SAR1B, ARPC1B, RANGAP1, PSMD6, PPIA, DOCK2, NUP37, RPL8, CYBA,
Reactome	HSA-8953897	Cellular responses to stimuli	56	760	0.36	4.20E-06	RBX1, PSMA3, PSMA2, H4C6, SSR1, EIF2S3, NUP210, H3-3B, EIF2S1, PSMA6, CYBA, ANAPC5, CSNK2A2, RPL8, PRDX1, TUBB4A, PSMB6, DYNC111, HSPA13, HIF1AN, H1-4, DYNC111, HSPA5, CUL1, HSP90AA1, MAP2K3, DYNC1H1, VCP, MAP3K5, CAPZA2, ACTR1A, EXTL2, PSMA7, HSP90AB1, PSMB2, HSPA14, NUP160, CYBB, RAD50, RPS6KA3, DNAJA1, MT1M, RBBP7, RPS6, RPL24, CAMK2B, XPO1, PDIA6, BLVRA, IDH1, ANAPC7, CAPZB, PSMD6, RPS6KA1, HSPA8, NUP37
Reactome	HSA-109582	Hemostasis	48	607	0.39	5.35E-06	APOH, SERPIND1, CSK, H3-3B, GYPC, ITGAV, A1BG, PIK3CA, TUBB4A, ENDOD1, ESAM, ATP1B3, ABHD6, ANXA5, DAGLB, FGB, PLG, A2M, HSPA5, FGG, PDPK1, ATP2A3, CAPZA2, CD47, CD58, GNAS, VAV2, APBB1IP, GNB1, PRKAR1A, DGKA, PROS1, ITGB2, KDM1A, ITGA6, CAPZB, AAMP, STXB2, PPIA, WDR1, PIK3R1, DOCK2, CALU, ITGAX, SLC7A6, PPIL2, KNG1, PIK3CB
Reactome	HSA-2262752	Cellular responses to stress	55	747	0.36	5.35E-06	RBX1, PSMA3, PSMA2, H4C6, SSR1, EIF2S3, NUP210, H3-3B, EIF2S1, PSMA6, CYBA, ANAPC5, CSNK2A2, RPL8, PRDX1, TUBB4A, PSMB6, DYNC111, HSPA13, HIF1AN, H1-4, DYNC111, HSPA5, CUL1, HSP90AA1, MAP2K3, DYNC1H1, VCP, MAP3K5, CAPZA2, ACTR1A, EXTL2, PSMA7, HSP90AB1, PSMB2, HSPA14, NUP160, CYBB, RAD50, RPS6KA3, DNAJA1, RBBP7, RPS6, RPL24, CAMK2B, XPO1, PDIA6, BLVRA, IDH1, ANAPC7, CAPZB, PSMD6, RPS6KA1, HSPA8, NUP37
Reactome	HSA-9612973	Autophagy	21	148	0.65	9.90E-06	GFAP, CSNK2A2, CHMP3, TUBB4A, DYNC111, ATG3, WIPI2, DYNC111, MVB12A, HSP90AA1, ATG101, UVRAG, WDR45, DYNC1H1, VCP, HSP90AB1, MAP1LC3A, ATG16L1, ATG4B, ATG9A, HSPA8
Reactome	HSA-422475	Axon guidance	44	551	0.4	1.37E-05	MYH9, RBX1, PSMA3, PSMA2, PFN2, VASP, ITGAV, PSMA6, SEMA7A, CSNK2A2, RPL8, MAP2K2, ACTR3, LHX4, PIK3CA, TUBB4A, PSMB6, TIAM1, NCSTN, EPHB3, UNC5B, HSP90AA1, PLXNB1, ETF1, PSMA7, MAGOH, HSP90AB1, VAV2, PSMB2, AGRN, RPS6KA3, RPS6, DNMT2, RPL24, ROCK1, ARPC1B, GSPT1, NELL1, PSMD6, PIK3R1, RPS6KA1, HSPA8, ARHGGEF2, PIK3CB

Reactome	HSA-9675108	Nervous system development	45	575	0.39	1.57E-05	MYH9, RBX1, PSMA3, PSMA2, PFN2, VASP, ITGAV, PSMA6, SEMA7A, CSNK2A2, RPL8, MAP2K2, ACTR3, LHX4, PIK3CA, TUBB4A, PSMB6, TIAM1, NCSTN, EPHB3, UNC5B, HSP90AA1, PLXNB1, ETF1, PSMA7, MAGOH, HSP90AB1, VAV2, PSMB2, AGRN, RPS6KA3, RPS6, DNMT2, RPL24, ROCK1, ARPC1B, GSPT1, LAMA2, NELL2, PSMD6, PIK3R1, RPS6KA1, HSP90A, ARHGGEF28, PIK3CB
Reactome	HSA-162582	Signal Transduction	128	2540	0.2	2.43E-05	MYH9, RBX1, PSMA3, TXNL1, CSK, PSMA2, C5, DUSP3, PFN2, EEPD1, H4C6, EMC3, C3, FNTB, GFAP, H3-3B, KIDINS220, CCT7, ITGAV, PSMA6, CYBA, CSNK2A2, MAP2K2, ACTR3, VPS26A, PIK3CA, TUBB4A, ANLN, IDE, PSMB6, DYNC1L1, CCT6A, USP15, FER, OTULIN, TIAM1, ARHGAP17, ADCY9, NCSTN, MEMO1, ABHD6, RICTOR, DAGLB, CKB, COPS2, LEO1, POLR2G, FASN, FGB, LAMB2, PLG, TNKS, DYNC1I1, CUL1, JAG2, ALDH1A3, RASA3, HSP90AA1, FGG, MPP7, SMAD4, RNF41, PLD1, POLR2K, PDPK1, DYNC1H1, SEMA4F, ANKLE2, TRIM33, PLXNB1, VCP, ATP2A3, USF1, HTR1B, PSMA7, GNAS, HSP90AB1, VAV2, PSMB2, RCC2, SPEN, APBB1IP, NUP160, CYBB, GNB1, RPS6KA3, RBBP7, RPS6, RDH11, DNMT2, PRKAR1A, DGKA, CAMK2B, CCK, TAX1BP1, ROCK1, KDM1A, XPO1, CHN1, ARPC1B, SPATA13, LAMA2, HNRNPF, CAPZB, RANGAP1, AAMP, MTMR1, NISCH, PSMD6, RAB9A, COPS4, MIB2, PIK3R1, DOCK2, ARHGFEF10, RPS6KA1, MCF2L, GRM4, ARHGFEF28, ACVR1B, NUP37, CAB39L, CYFIP1, NEFL, KNG1, DYNC2H1, MYD88, PIK3CB
Reactome	HSA-72766	Translation	29	290	0.5	2.94E-05	EIF3D, EIF1A2, EIF3E, SEC61A1, SSR1, EIF2S3, EIF2S1, CARS2, AARS1, RPL8, GFM1, EIF2B2, RPN1, APEH, SEC61A2, EEF2, SSR4, EIF4A2, EIF2B3, ETF1, PPA1, RPS6, RPL24, TARS1, GSPT1, EIF2B4, SRP54, EIF2B5, EIF3L
Reactome	HSA-76002	Platelet activation, signaling and aggregation	27	260	0.51	3.67E-05	APOH, CSK, A1BG, PIK3CA, ENDOD1, ABHD6, ANXA5, DAGLB, FGB, PLG, A2M, HSPA5, FGG, PDPK1, VAV2, APBB1IP, GNB1, DGKA, PROS1, AAMP, STXB2, PPIA, WDR1, PIK3R1, CALL, KNG1, PIK3CB
Reactome	HSA-1430728	Metabolism	109	2092	0.21	4.59E-05	PSMA3, ACOT8, PON1, PSMA2, TTR, MED28, CIAO3, ACSS2, NUP210, EEFSEC, PSMA6, ARG2, HACD3, LPCAT2, CSNK2A2, RPL8, BBOX1, PIK3CA, GPAT3, CAD, VCAN, SCAP, SORD, PSMB6, ENOPH1, GGPS1, CA2, THTPA, KPNB1, ADCY9, ADH5, PGAM2, CKB, GPD1, MAT2A, FASN, DTYMK, GLB1, GLUL, PHYKPL, UGT8, NAXD, PKM, ENO3, CNDP2, PGP, ABCC5, HSP90AA1, STARD10, ISYNA1, PLD1, SERINC1, PPCDC, PITPNM1, FDPS, MIGA2, RPE, PTGS1, ACAT2, NAXE, ELOVL4, GOT1, PI4K2A, PSMA7, PGM1, GNAS, ENTPD1, HSP90AB1, PPA1, PSMB2, MTHFR, PSAT1, NMNAT1, NUP160, GNB1, ESD, GALT, AGRN, RPS6, PFKP, RDH11, DNMT2, CERS6, PRKAR1A, RPL24, DDHD2, SAR1B, BLVRA, IDH1, MTMR10, CPS1, GBE1, MTMR1, DERA, CIAO1, PSMD6, NUDT5, PIK3R1, ENO2, MMAB, NUP37, GMPR2, PHKG2, ACLY, MED22, PHGDH, SAMHD1, PANK4, PIK3CB
Reactome	HSA-9012999	RHO GTPase cycle	37	449	0.41	5.26E-05	TXNL1, CSK, EMC3, KIDINS220, CCT7, CYBA, PIK3CA, ANLN, CCT6A, TIAM1, ARHGAP17, CKB, COPS2, HSP90AA1, MPP7, PLD1, SEMA4F, ANKLE2, PLXNB1, VCP, HSP90AB1, VAV2, SPEN, CYBB, ROCK1, CHN1, SPATA13, CAPZB, MTMR1, NISCH, COPS4, PIK3R1, DOCK2, ARHGFEF10, MCF2L, ARHGFEF28, CYFIP1
Reactome	HSA-983168	Antigen processing: Ubiquitination & Proteasome degradation	29	303	0.48	5.59E-05	RBX1, PSMA3, PSMA2, PSMA6, HERC2, BLMH, ANAPC5, PSMB6, UBR1, FBXO27, UBA6, TRAF7, NPEPPS, CUL1, FBXO21, RNF123, UBA1, RNF41, FBXO2, UBA3, PSMA7, HECTD3, UBR2, PSMB2, UBR4, ANAPC7, PSMD6, KLHL5, MIB2

Reactome	HSA-5653656	Vesicle-mediated transport	47	666	0.34	9.35E-05	GOLGA5, RALGAPA2, MYH9, TBC1D17, DNASE2, SORT1, STX6, RALGAPB, ACTR3, CHMP3, TUBB4A, USO1, HPX, DYNC1L11, TRAPPC10, COPS2, COPS6, DYNC1L1, MVB12A, COPB2, TMED9, HSP90AA1, TRAPPC11, HP, DYNC1H1, IGF2R, CHM, CAPZA2, RAB13, ACTR1A, RABGEF1, DNMT2, TRAPPC9, SAR1B, COPS7B, CYTH1, CAPZB, TRAPPC13, RAB3GAP1, RAB9A, COPS4, HSPA8, HPR, C2CD5, PAFAH1B3, COPS7A, TRC1D15
Reactome	HSA-1236975	Antigen processing-Cross presentation	16	105	0.68	9.39E-05	PSMA3, PSMA2, SEC61A1, ITGAV, PSMA6, CYBA, PSMB6, SEC61A2, FGB, FGG, PSMA7, PSMB2, CYBB, CD14, PSMD6, MYD88
Reactome	HSA-1632852	Macroautophagy	18	133	0.63	9.39E-05	CSNK2A2, CHMP3, TUBB4A, DYNC1L11, ATG3, WIPI2, DYNC1I1, HSP90AA1, ATG101, UVRAG, WDR45, DYNC1H1, VCP, MAP1LC3A, ATG16L1, ATG4B, ATG9A, HSPA8
Reactome	HSA-68882	Mitotic Anaphase	24	232	0.51	0.00013	PSMA3, PSMA2, PSMA6, ANAPC5, CHMP3, TUBB4A, PSMB6, DYNC1L11, KPNB1, PDS5B, DYNC1I1, SPAST, TNPO1, DYNC1H1, ANKLE2, PSMA7, PSMB2, RCC2, NUP160, XPO1, ANAPC7, RANGAP1, PSMD6, NUP37
Reactome	HSA-72731	Recycling of eIF2:GDP	6	8	1.37	0.00016	EIF2S3, EIF2S1, EIF2B2, EIF2B3, EIF2B4, EIF2B5
Reactome	HSA-68886	M Phase	32	382	0.42	0.00017	PSMA3, PSMA2, H4C6, NUP210, H3-3B, PSMA6, ANAPC5, CSNK2A2, CHMP3, TUBB4A, USO1, PSMB6, DYNC1L11, KPNB1, PDS5B, DYNC1I1, SPAST, HSP90AA1, TNPO1, DYNC1H1, ANKLE2, ACTR1A, PSMA7, PSMB2, RCC2, NUP160, XPO1, ANAPC7, PPP2R2D, RANGAP1, PSMD6, NUP37
Reactome	HSA-162909	Host Interactions of HIV factors	17	129	0.62	0.00021	RBX1, PSMA3, PSMA2, NUP210, PSMA6, PSMB6, KPNB1, KPNA1, PSMA7, PSMB2, NUP160, XPO1, RANGAP1, PSMD6, PPIA, DOCK2, NUP37
Reactome	HSA-69278	Cell Cycle, Mitotic	39	526	0.37	0.00021	RBX1, PSMA3, PSMA2, H4C6, NUP210, H3-3B, MNAT1, PSMA6, ANAPC5, CSNK2A2, CHMP3, TUBB4A, USO1, PSMB6, DYNC1L11, KPNB1, PDS5B, DYNC1I1, SPAST, CUL1, HSP90AA1, TNPO1, DYNC1H1, ANKLE2, ACTR1A, PSMA7, HSP90AB1, PSMB2, RCC2, NUP160, RFC1, LCMT1, XPO1, ANAPC7, PPP2R2D, RANGAP1, RFC5, PSMD6, NUP37
Reactome	HSA-8951664	Neddylaton	24	242	0.49	0.00021	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, COMMD10, FBXO27, COPS2, COPS6, CUL1, FBXO21, SENP8, FBXO2, VCP, UBA3, PSMA7, PSMB2, RBBP7, COPS7B, COMMD5, PSMD6, KLHL5, COPS4, COPS7A
Reactome	HSA-1640170	Cell Cycle	45	658	0.33	0.00024	RBX1, PSMA3, PSMA2, H4C6, NUP210, H3-3B, MNAT1, PSMA6, HERC2, ANAPC5, CSNK2A2, CHMP3, TUBB4A, USO1, PSMB6, DYNC1L11, KPNB1, POLR2G, PDS5B, DYNC1I1, SPAST, CUL1, HSP90AA1, TNPO1, POLR2K, BABAM2, DYNC1H1, ANKLE2, ACTR1A, PSMA7, HSP90AB1, PSMB2, RCC2, NUP160, RAD50, RBBP7, RFC1, LCMT1, XPO1, ANAPC7, PPP2R2D, RANGAP1, RFC5, PSMD6, NUP37
Reactome	HSA-6781823	Formation of TC-NER Pre-Incision Complex	11	53	0.81	0.00025	AQR, RBX1, MNAT1, COPS2, POLR2G, COPS6, POLR2K, PPIE, COPS7B, COPS4, COPS7A
Reactome	HSA-6781827	Transcription-Coupled Nucleotide Excision Repair (TC-NER)	13	78	0.72	0.00027	AQR, RBX1, MNAT1, COPS2, POLR2G, COPS6, POLR2K, PPIE, RFC1, COPS7B, RFC5, COPS4, COPS7A
Reactome	HSA-8953854	Metabolism of RNA	47	705	0.32	0.00027	AQR, SNRPD3, PSMA3, CSTF1, PSMA2, WDR77, TRNT1, NOL11, NUP210, MNAT1, PSMA6, RPL8, PSMB6, UTP15, CPSF2, POLR2G, PRMT5, CNOT1, EIF4A2, TNPO1, DHX15, PRPF4B, POLR2K, TYW5, ETF1, HEATR1, DHX9, HBS1L, PSMA7, MAGOH, PPIE, PSMB2, NUP160, RPS6, NOP2, FAM50A, RPL24, XPO1, GSP11, HNRNPF, PUS7, PSMD6, HSPA8, NUP37, LIPF1, CPSE1, PPII2

Reactome	HSA-199991	Membrane Trafficking	43	626	0.33	0.00031	GOLGA5, RALGAPA2, MYH9, TBC1D17, DNASE2, SORT1, STX6, RALGAPB, ACTR3, CHMP3, TUBB4A, USO1, DYNC1L1, TRAPPC10, COPS2, COPS6, DYNC111, MVB12A, COPB2, TMED9, TRAPPC11, DYNC1H1, IGF2R, CHM, CAPZA2, RAB13, ACTR1A, RABGEF1, DNMT2, TRAPPC9, SAR1B, COPS7B, CYTH1, CAPZB, TRAPPC13, RAB3GAP1, RAB9A, COPS4, HSPA8, C2CD5, PAFAH1B3, COPS7A, TBC1D15
Reactome	HSA-3371497	HSP90 chaperone cycle for steroid hormone receptors (SHR) in the presence of ligand	11	55	0.8	0.00031	TUBB4A, DYNC1L1, DYNC111, HSP90AA1, DYNC1H1, CAPZA2, ACTR1A, HSP90AB1, DNAJA1, CAPZB, HSPA8
Reactome	HSA-390450	Folding of actin by CCT/TriC	6	10	1.27	0.00031	CCT7, CCT6A, CCT8, CCT3, TCP1, CCT4
Reactome	HSA-9706574	RHOBTB GTPase Cycle	9	35	0.91	0.00037	TXNL1, CCT7, CCT6A, COPS2, HSP90AA1, HSP90AB1, SPEN, ROCK1, COPS4
Reactome	HSA-69306	DNA Replication	18	156	0.56	0.00044	RBX1, PSMA3, PSMA2, H4C6, H3-3B, PSMA6, ANAPC5, PSMB6, KPNA1, CUL1, KPNA1, PSMA7, PSMB2, KPNA6, RFC1, ANAPC7, RFC5, PSMD6
Reactome	HSA-162906	HIV Infection	22	229	0.48	0.00064	RBX1, PSMA3, PSMA2, NUP210, MNAT1, PSMA6, CHMP3, PSMB6, KPNA1, POLR2G, MVB12A, POLR2K, KPNA1, PSMA7, PSMB2, NUP160, XPO1, RANGAP1, PSMD6, PPIA, DOCK2, NUP37
Reactome	HSA-977606	Regulation of Complement cascade	10	49	0.81	0.00064	C5, VTN, C3, C6, CPN2, C4BPA, CFH, PROS1, CFI, C4A
Reactome	HSA-1236974	ER-Phagosome pathway	13	89	0.66	0.0008	PSMA3, PSMA2, SEC61A1, PSMA6, PSMB6, SEC61A2, FGB, FGG, PSMA7, PSMB2, CD14, PSMD6, MYD88
Reactome	HSA-5663202	Diseases of signal transduction by growth factor receptors and second messengers	32	430	0.37	0.001	MYH9, RBX1, PSMA3, CSK, PSMA2, PSMA6, MAP2K2, PIK3CA, PSMB6, NCSTN, RICTOR, POLR2G, FGB, TNKS, CUL1, JAG2, HSP90AA1, FGG, SMAD4, POLR2K, PDPK1, VCP, PSMA7, PSMB2, APBB1IP, RPS6, PRKAR1A, CAMK2B, PSMD6, MIB2, PIK3R1, PIK3CB
Reactome	HSA-202733	Cell surface interactions at the vascular wall	16	139	0.56	0.0013	GYPC, ITGAV, PIK3CA, ESAM, ATP1B3, CD47, CD58, PROS1, ITGB2, ITGA6, PPIA, PIK3R1, ITGAX, SLC7A6, PPIL2, PIK3CB
Reactome	HSA-2467813	Separation of Sister Chromatids	19	189	0.5	0.0013	PSMA3, PSMA2, PSMA6, ANAPC5, TUBB4A, PSMB6, DYNC1L1, PDSSB, DYNC111, DYNC1H1, PSMA7, PSMB2, RCC2, NUP160, XPO1, ANAPC7, RANGAP1, PSMD6, NUP37
Reactome	HSA-5696398	Nucleotide Excision Repair	14	109	0.6	0.0013	AQR, RBX1, MNAT1, COPS2, POLR2G, COPS6, POLR2K, PPIE, RFC1, COPS7B, ACTL6A, RFC5, COPS4, COPS7A
Reactome	HSA-114608	Platelet degranulation	15	126	0.57	0.0015	APOH, A1BG, ENDOD1, ANXA5, FGB, PLG, A2M, HSPA5, FGG, PROS1, STXB2, PPIA, WDR1, CALU, KNG1
Reactome	HSA-382551	Transport of small molecules	45	723	0.29	0.0015	SLC7A2, OSTM1, PSMA3, PSMA2, EIF2S3, EIF2S1, SLC38A2, LRRC8A, PSMA6, CLCN3, SLC6A15, PSMB6, SLC4A3, CA2, ATP1B3, AZGP1, ADCY9, NGB, SLC03A1, ATP11B, A2M, CUL1, ABCC5, VCP, ATP2A3, SLC6A9, LRRC8C, PSMA7, GNAS, PSMB2, GNB1, ASPH, SLC5A3, SLC39A14, ATP8A2, ATP8A1, CLCN7, PRKAR1A, CAMK2B, SAR1B, PSMD6, ATP2C1, SLC38A1, SLC7A6, SLC33A1
Reactome	HSA-5610787	Hedgehog off state	14	111	0.6	0.0015	RBX1, PSMA3, PSMA2, PSMA6, TUBB4A, PSMB6, ADCY9, CUL1, PSMA7, GNAS, PSMB2, PRKAR1A, PSMD6, DYNC2H1
Reactome	HSA-68867	Assembly of the pre-replicative complex	14	111	0.6	0.0015	PSMA3, PSMA2, H4C6, H3-3B, PSMA6, ANAPC5, PSMB6, KPNA1, KPNA1, PSMA7, PSMB2, KPNA6, ANAPC7, PSMD6
Reactome	HSA-202403	TCR signaling	14	114	0.59	0.0018	PSMA3, CSK, PSMA2, VASP, PSMA6, PIK3CA, PSMB6, CUL1, PDPK1, PSMA7, PSMB2, PSMD6, PIK3R1, PIK3CB
Reactome	HSA-389960	Formation of tubulin folding intermediates by CCT/TriC	7	25	0.94	0.0019	CCT7, TUBB4A, CCT6A, CCT8, CCT3, TCP1, CCT4

Reactome	HSA-389957	Prefoldin mediated transfer of substrate to CCT/TriC	7	27	0.91	0.0027	CCT7, TUBB4A, CCT6A, CCT8, CCT3, TCP1, CCT4
Reactome	HSA-194138	Signaling by VEGF	13	105	0.59	0.0029	ITGAV, CYBA, PIK3CA, RICTOR, HSP90AA1, PDPK1, VAV2, CYBB, ROCK1, AAMP, PIK3R1, CYFIP1, PIK3CB
Reactome	HSA-6814122	Cooperation of PDCL (PhLP1) and TRIC/CCT in G-protein beta folding	8	38	0.82	0.0029	CCT7, CSNK2A2, CCT6A, CCT8, CCT3, TCP1, GNB1, CCT4
Reactome	HSA-9755511	KEAP1-NFE2L2 pathway	13	105	0.59	0.0029	RBX1, PSMA3, PSMA2, PSMA6, CSNK2A2, PRDX1, PSMB6, CUL1, VCP, PSMA7, PSMB2, IDH1, PSMD6
Reactome	HSA-9759194	Nuclear events mediated by NFE2L2	11	77	0.65	0.0031	RBX1, PSMA3, PSMA2, PSMA6, PRDX1, PSMB6, CUL1, PSMA7, PSMB2, IDH1, PSMD6
Reactome	HSA-166016	Toll Like Receptor 4 (TLR4) Cascade	15	139	0.53	0.0032	LBP, DUSP3, FGB, CUL1, FGG, MAP2K3, RPS6KA3, DNM2, ITGB2, CD14, TICAM2, RPS6KA1, SARM1, IRF3, MYD88
Reactome	HSA-202424	Downstream TCR signaling	12	92	0.61	0.0032	PSMA3, PSMA2, PSMA6, PIK3CA, PSMB6, CUL1, PDPK1, PSMA7, PSMB2, PSMD6, PIK3R1, PIK3CB
Reactome	HSA-9762114	GSK3B and BTRC:CUL1-mediated-degradation of NFE2L2	9	51	0.74	0.0032	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6
Reactome	HSA-446203	Asparagine N-linked glycosylation	24	304	0.39	0.0033	TUBB4A, USO1, DYNC1L1, NGLY1, TRAPPC10, RPN1, NANP, GLB1, GMPBB, DYNC111, COPB2, TMED9, DYNC1H1, GMPPA, VCP, CAPZA2, ACTR1A, FPGT, TRAPPC9, SAR1B, DPAGT1, CAPZB, PGM3, ALG11
Reactome	HSA-6811436	COPI-independent Golgi-to-ER retrograde traffic	9	52	0.73	0.0034	TUBB4A, DYNC1L1, DYNC111, DYNC1H1, CAPZA2, ACTR1A, CAPZB, RAB3GAP1, PAFAH1B3
Reactome	HSA-9604323	Negative regulation of NOTCH4 signaling	9	53	0.73	0.0039	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6
Reactome	HSA-4420097	VEGFA-VEGFR2 Pathway	12	96	0.59	0.0043	ITGAV, CYBA, PIK3CA, RICTOR, HSP90AA1, PDPK1, VAV2, CYBB, ROCK1, PIK3R1, CYFIP1, PIK3CB
Reactome	HSA-69620	Cell Cycle Checkpoints	22	272	0.4	0.0043	PSMA3, PSMA2, H4C6, PSMA6, HERC2, ANAPC5, PSMB6, DYNC1L1, DYNC111, BABAM2, DYNC1H1, PSMA7, PSMB2, RCC2, NUP160, RAD50, XPO1, ANAPC7, RANGAP1, RFC5, PSMD6, NUP37
Reactome	HSA-8854050	FBXL7 down-regulates AURKA during mitotic entry and in early mitosis	9	54	0.72	0.0043	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6
Reactome	HSA-1266738	Developmental Biology	59	1108	0.22	0.0045	MYH9, RBX1, PSMA3, PSMA2, MED28, PFN2, H4C6, VASP, KRT9, KRT1, H3-3B, ITGAV, PSMA6, SEMA7A, CSNK2A2, RPL8, MAP2K2, ACTR3, LHX4, PIK3CA, TUBB4A, ADAM23, PSMB6, DSC2, TIAM1, NCSTN, POLR2G, EPHB3, UNC5B, HSP90AA1, SMAD4, POLR2K, TRIM33, PLXNB1, ETF1, PSMA7, MAGOH, HSP90AB1, VAV2, PSMB2, AGRN, RPS6KA3, RBBP7, RPS6, DNM2, RPL24, ROCK1, ARPC1B, GSPT1, LAMA2, NELL2, PSMD6, PIK3R1, RPS6KA1, HSPA8, ARHGAP28, ACYB1B, MED22, PIK3CB
Reactome	HSA-5358351	Signaling by Hedgehog	15	147	0.5	0.0049	RBX1, PSMA3, PSMA2, PSMA6, TUBB4A, PSMB6, ADCY9, CUL1, VCP, PSMA7, GNAS, PSMB2, PRKAR1A, PSMD6, DYNC2H1
Reactome	HSA-5357801	Programmed Cell Death	18	206	0.44	0.0064	PSMA3, PSMA2, PSMA6, CHMP3, PSMB6, KPNB1, H1-4, UNC5B, HSP90AA1, KPNA1, PSMA7, PSMB2, GSN, ROCK1, CD14, TICAM2, PSMD6, DAPK3
Reactome	HSA-5676590	NIK-->noncanonical NF-kB signaling	9	58	0.69	0.0064	PSMA3, PSMA2, PSMA6, PSMB6, CUL1, UBA3, PSMA7, PSMB2, PSMD6
Reactome	HSA-72737	Cap-dependent Translation Initiation	13	118	0.54	0.0064	EIF3D, EIF3E, EIF2S3, EIF2S1, RPL8, EIF2B2, EIF4A2, EIF2B3, RPS6, RPL24, EIF2B4, EIF2B5, EIF3L
Reactome	HSA-9013404	RAC2 GTPase cycle	11	87	0.6	0.0064	CYBA, PIK3CA, TIAM1, ARHGAP17, MPP7, ANKLE2, VAV2, CYBB, PIK3R1, DOCK2, CYFIP1
Reactome	HSA-9013422	RHOBTB1 GTPase cycle	6	23	0.91	0.0064	TXNL1, CCT7, COPS2, SPEN, ROCK1, COPS4

Reactome	HSA-5607761	Dectin-1 mediated noncanonical NF-kB signaling	9	59	0.68	0.0066	PSMA3, PSMA2, PSMA6, PSMB6, CUL1, UBA3, PSMA7, PSMB2, PSMD6
Reactome	HSA-5610780	Degradation of GLI1 by the proteasome	9	59	0.68	0.0066	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6
Reactome	HSA-5610783	Degradation of GLI2 by the proteasome	9	59	0.68	0.0066	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6
Reactome	HSA-5610785	GLI3 is processed to GLI3R by the proteasome	9	59	0.68	0.0066	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6
Reactome	HSA-69239	Synthesis of DNA	13	120	0.53	0.0067	RBX1, PSMA3, PSMA2, PSMA6, ANAPC5, PSMB6, CUL1, PSMA7, PSMB2, RFC1, ANAPC7, RFC5, PSMD6
Reactome	HSA-1169408	ISG15 antiviral mechanism	10	74	0.63	0.0069	NUP210, KPNB1, EIF4A2, KPNA1, KPNA5, NUP160, ARIH1, FLNB, NUP37, IRF3
Reactome	HSA-2029480	Fcgamma receptor (FCGR) dependent phagocytosis	11	89	0.59	0.0069	MYH9, ACTR3, PIK3CA, HSP90AA1, PLD1, HSP90AB1, VAV2, ARPC1B, PIK3R1, CYFIP1, PIK3CB
Reactome	HSA-3371556	Cellular response to heat stress	11	89	0.59	0.0069	NUP210, HSPA13, HSPA5, HSP90AA1, VCP, HSP90AB1, HSPA14, NUP160, CAMK2B, HSPA8, NUP37
Reactome	HSA-9006934	Signaling by Receptor Tyrosine Kinases	33	521	0.3	0.007	CSK, DUSP3, GFAP, KIDINS220, ITGAV, CYBA, MAP2K2, PIK3CA, IDE, FER, TIAM1, NCSTN, MEMO1, RICTOR, POLR2G, LAMB2, PLG, HSP90AA1, RNF41, POLR2K, PDPK1, VAV2, CYBB, RPS6KA3, DNMT2, ROCK1, LAMA2, HNRNPF, AAMP, PIK3R1, RPS6KA1, CYFIP1, PIK3CB
Reactome	HSA-1280215	Cytokine Signaling in Immune system	41	706	0.26	0.0075	RBX1, PSMA3, LBP, CSK, PSMA2, DUSP3, NUP210, PSMA6, PIK3CA, PSMB6, KPNB1, TCP1, EIF4A2, CUL1, HSP90AA1, KPNA1, MAP2K3, UBA3, KPNA5, PSMA7, PSMB2, NUP160, RPS6KA3, ARIH1, CAMK2B, ITGB2, HNRNPF, STXB2, PSMD6, PPIA, FLNB, PIK3R1, TRIM3, RPS6KA1, HSPA8, NUP37, ITGAX, IRF3, SAMHD1, MYD88, PIK3CB
Reactome	HSA-109581	Apoptosis	16	175	0.46	0.0076	PSMA3, PSMA2, PSMA6, PSMB6, KPNB1, H1-4, UNC5B, KPNA1, PSMA7, PSMB2, GSN, ROCK1, CD14, TICAM2, PSMD6, DAPK3
Reactome	HSA-69052	Switching of origins to a post-replicative state	11	91	0.58	0.0078	RBX1, PSMA3, PSMA2, PSMA6, ANAPC5, PSMB6, CUL1, PSMA7, PSMB2, ANAPC7, PSMD6
Reactome	HSA-69275	G2/M Transition	17	195	0.44	0.0082	RBX1, PSMA3, PSMA2, MNAT1, PSMA6, TUBB4A, PSMB6, CUL1, HSP90AA1, DYNC1H1, ACTR1A, PSMA7, HSP90AB1, PSMB2, LCMT1, XPO1, PSMD6
Reactome	HSA-8852276	The role of GTSE1 in G2/M progression after G2 checkpoint	10	77	0.61	0.0085	PSMA3, PSMA2, PSMA6, TUBB4A, PSMB6, HSP90AA1, PSMA7, HSP90AB1, PSMB2, PSMD6
Reactome	HSA-376176	Signaling by ROBO receptors	18	215	0.42	0.0086	RBX1, PSMA3, PSMA2, PFN2, VASP, PSMA6, RPL8, LHX4, PSMB6, ETF1, PSMA7, MAGOH, PSMB2, RPS6, RPL24, GSPT1, NELL2, PSMD6
Reactome	HSA-174084	Autodegradation of Cdh1 by Cdh1:APC/C	9	63	0.65	0.0087	PSMA3, PSMA2, PSMA6, ANAPC5, PSMB6, PSMA7, PSMB2, ANAPC7, PSMD6
Reactome	HSA-69242	S Phase	15	162	0.46	0.0095	RBX1, PSMA3, PSMA2, MNAT1, PSMA6, ANAPC5, PSMB6, PDS5B, CUL1, PSMA7, PSMB2, RFC1, ANAPC7, RFC5, PSMD6
Reactome	HSA-5696394	DNA Damage Recognition in GG-NER	7	38	0.76	0.0097	RBX1, COPS2, COPS6, COPS7B, ACTL6A, COPS4, COPS7A
Reactome	HSA-176408	Regulation of APC/C activators between G1/S and early anaphase	10	80	0.59	0.0104	PSMA3, PSMA2, PSMA6, ANAPC5, PSMB6, CUL1, PSMA7, PSMB2, ANAPC7, PSMD6
Reactome	HSA-390471	Association of TriC/CCT with target proteins during biosynthesis	7	39	0.75	0.0108	CCT7, CCT6A, CCT8, CCT3, TCP1, AP3M1, CCT4
Reactome	HSA-9013149	RAC1 GTPase cycle	16	183	0.44	0.0108	CYBA, PIK3CA, TIAM1, ARHGAP17, MPP7, PLD1, VAV2, CYBB, CHN1, SPATA13, NISCH, PIK3R1, DOCK2, ARHGEF10, MCF2L, CYFIP1

Reactome	HSA-9013694	Signaling by NOTCH4	10	81	0.59	0.011	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, NCSTN, CUL1, PSMA7, PSMB2, PSMD6
Reactome	HSA-391251	Protein folding	11	97	0.55	0.0112	TBCB, CCT7, CSNK2A2, TUBB4A, CCT6A, CCT8, CCT3, TCP1, AP3M1, GNB1, CCT4
Reactome	HSA-2454202	Fc epsilon receptor (FCER1) signaling	13	131	0.49	0.0116	PSMA3, PSMA2, PSMA6, PIK3CA, PSMB6, CUL1, PDPK1, PSMA7, VAV2, PSMB2, PSMD6, PIK3R1, PIK3CB
Reactome	HSA-174154	APC/C:Cdc20 mediated degradation of Securin	9	67	0.62	0.0117	PSMA3, PSMA2, PSMA6, ANAPC5, PSMB6, PSMA7, PSMB2, ANAPC7, PSMD6
Reactome	HSA-180585	Vif-mediated degradation of APOBEC3G	8	53	0.67	0.0117	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, PSMA7, PSMB2, PSMD6
Reactome	HSA-5658442	Regulation of RAS by GAPs	9	67	0.62	0.0117	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, RASA3, PSMA7, PSMB2, PSMD6
Reactome	HSA-9679506	SARS-CoV Infections	27	411	0.31	0.0118	SNRPD3, RBX1, VPS18, FNTB, NUP210, CHMP3, ATP1B3, KPMB1, RPN1, VPS41, HSP90AA1, VPS39, SMAD4, PDPK1, UVRAG, VCP, HSP90AB1, NUP160, AGRN, RBBP7, RPS6, ROCK1, KDM1A, SAR1B, PPIA, NUP37, IRF3
Reactome	HSA-5696399	Global Genome Nucleotide Excision Repair (GG-NER)	10	83	0.58	0.0122	RBX1, MNAT1, COPS2, COPS6, RFC1, COPS7B, ACTL6A, RFC5, COPS4, COPS7A
Reactome	HSA-8948751	Regulation of PTEN stability and activity	9	68	0.62	0.0122	PSMA3, PSMA2, PSMA6, CSNK2A2, PSMB6, TNKS, PSMA7, PSMB2, PSMD6
Reactome	HSA-174113	SCF-beta-TrCP mediated degradation of Emi1	8	54	0.67	0.0124	PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6
Reactome	HSA-450408	AUF1 (hnRNP D0) binds and destabilizes mRNA	8	54	0.67	0.0124	PSMA3, PSMA2, PSMA6, PSMB6, PSMA7, PSMB2, PSMD6, HSPA8
Reactome	HSA-4641257	Degradation of AXIN	8	54	0.67	0.0124	PSMA3, PSMA2, PSMA6, PSMB6, TNKS, PSMA7, PSMB2, PSMD6
Reactome	HSA-9010553	Regulation of expression of SLITs and ROBOs	15	169	0.44	0.0124	RBX1, PSMA3, PSMA2, PSMA6, RPL8, LHX4, PSMB6, ETF1, PSMA7, MAGOH, PSMB2, RPS6, RPL24, GSPT1, PSMD6
Reactome	HSA-5362768	Hh mutants are degraded by ERAD	8	55	0.66	0.0133	PSMA3, PSMA2, PSMA6, PSMB6, VCP, PSMA7, PSMB2, PSMD6
Reactome	HSA-68949	Orc1 removal from chromatin	9	70	0.6	0.014	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6
Reactome	HSA-382556	ABC-family proteins mediated transport	11	102	0.53	0.0144	PSMA3, PSMA2, EIF2S3, EIF2S1, PSMA6, PSMB6, ABCC5, VCP, PSMA7, PSMB2, PSMD6
Reactome	HSA-450531	Regulation of mRNA stability by proteins that bind AU-rich elements	10	86	0.56	0.0145	PSMA3, PSMA2, PSMA6, PSMB6, TNPO1, PSMA7, PSMB2, XPO1, PSMD6, HSPA8
Reactome	HSA-4641258	Degradation of DVL	8	56	0.65	0.0145	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, PSMA7, PSMB2, PSMD6
Reactome	HSA-195258	RHO GTPase Effectors	21	292	0.35	0.0147	MYH9, PFN2, H4C6, H3-3B, CYBA, ACTR3, TUBB4A, DYNC1L1, DYNC1I1, PDPK1, DYNC1H1, RCC2, NUP160, CYBB, ROCK1, KDM1A, XPO1, ARPC1B, RANGAP1, NUP37, CYFIP1
Reactome	HSA-71387	Metabolism of carbohydrates	21	292	0.35	0.0147	NUP210, VCAN, SORD, PGAM2, GLB1, PKM, ENO3, PGP, ABCC5, RPE, GOT1, PGM1, NUP160, GALT, AGRN, PFKP, GBE1, DERA, ENO2, NUP37, PHKG2
Reactome	HSA-1234174	Cellular response to hypoxia	9	72	0.59	0.0157	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, HIF1AN, PSMA7, PSMB2, PSMD6
Reactome	HSA-174184	Cdc20:Phospho-APC/C mediated degradation of Cyclin A	9	72	0.59	0.0157	PSMA3, PSMA2, PSMA6, ANAPC5, PSMB6, PSMA7, PSMB2, ANAPC7, PSMD6
Reactome	HSA-69017	CDK-mediated phosphorylation and removal of Cdc6	9	72	0.59	0.0157	PSMA3, PSMA2, PSMA6, ANAPC5, PSMB6, PSMA7, PSMB2, ANAPC7, PSMD6
Reactome	HSA-70171	Glycolysis	9	72	0.59	0.0157	NUP210, PGAM2, PKM, ENO3, PGP, NUP160, PFKP, ENO2, NUP37

Reactome	HSA-8939902	Regulation of RUNX2 expression and activity	9	72	0.59	0.0157	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6
Reactome	HSA-9711123	Cellular response to chemical stress	16	195	0.41	0.0157	RBX1, PSMA3, PSMA2, PSMA6, CYBA, CSNK2A2, PRDX1, PSMB6, CUL1, VCP, PSMA7, PSMB2, CYBB, BLVRA, IDH1, PSMD6
Reactome	HSA-9754560	SARS-CoV-2 modulates autophagy	4	11	1.06	0.0161	VPS18, VPS41, VPS39, UVRAG
Reactome	HSA-174178	APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1	9	73	0.59	0.0162	PSMA3, PSMA2, PSMA6, ANAPC5, PSMB6, PSMA7, PSMB2, ANAPC7, PSMD6
Reactome	HSA-5673001	RAF/MAP kinase cascade	20	277	0.35	0.0166	RBX1, PSMA3, CSK, PSMA2, FNTB, PSMA6, MAP2K2, PIK3CA, PSMB6, FGB, RASA3, FGG, PSMA7, PSMB2, APBB1IP, CAMK2B, PSMD6, PIK3R1, NEFL, PIK3CB
Reactome	HSA-187577	SCF(Skp2)-mediated degradation of p27/p21	8	59	0.63	0.0173	PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6
Reactome	HSA-2995410	Nuclear Envelope (NE) Reassembly	9	74	0.58	0.0173	CHMP3, TUBB4A, KPNB1, SPAST, TNPO1, ANKLE2, NUP160, RANGAP1, NUP37
Reactome	HSA-1474244	Extracellular matrix organization	21	300	0.34	0.0177	PLOD1, VTN, TTR, CAPN7, ITGAV, VCAN, NCSTN, CAPN2, FGB, LAMB2, PLG, PHYKPL, A2M, FBLN1, FGG, CD47, AGRN, ITGB2, ITGA6, LAMA2, ITGAX
Reactome	HSA-390466	Chaperonin-mediated protein folding	10	91	0.54	0.0184	CCT7, CSNK2A2, TUBB4A, CCT6A, CCT8, CCT3, TCP1, AP3M1, GNB1, CCT4
Reactome	HSA-5678895	Defective CFTR causes cystic fibrosis	8	60	0.62	0.0184	PSMA3, PSMA2, PSMA6, PSMB6, VCP, PSMA7, PSMB2, PSMD6
Reactome	HSA-70326	Glucose metabolism	10	91	0.54	0.0184	NUP210, PGAM2, PKM, ENO3, PGP, GOT1, NUP160, PFKF, ENO2, NUP37
Reactome	HSA-6811442	Intra-Golgi and retrograde Golgi-to-ER traffic	16	201	0.4	0.0192	GOLGA5, STX6, TUBB4A, DYNC1L1, DYNC111, COPB2, TMED9, DYNC1H1, IGF2R, CAPZA2, ACTR1A, CYTH1, CAPZB, RAB3GAP1, RAB9A, PAFAH1B3
Reactome	HSA-5689603	UCH proteinases	10	93	0.53	0.0205	PSMA3, PSMA2, PSMA6, PSMB6, USP15, SENP8, PSMA7, PSMB2, ACTL6A, PSMD6
Reactome	HSA-9013418	RHOBTB2 GTPase cycle	5	23	0.83	0.0231	TXNL1, CCT7, CCT6A, HSP90AA1, HSP90AB1
Reactome	HSA-1236978	Cross-presentation of soluble exogenous antigens (endosomes)	7	49	0.65	0.0247	PSMA3, PSMA2, PSMA6, PSMB6, PSMA7, PSMB2, PSMD6
Reactome	HSA-211733	Regulation of activated PAK-2p34 by proteasome mediated degradation	7	49	0.65	0.0247	PSMA3, PSMA2, PSMA6, PSMB6, PSMA7, PSMB2, PSMD6
Reactome	HSA-5607764	CLEC7A (Dectin-1) signaling	10	96	0.51	0.0248	PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PDPK1, UBA3, PSMA7, PSMB2, PSMD6
Reactome	HSA-1234176	Oxygen-dependent proline hydroxylation of Hypoxia-inducible Factor Alpha	8	64	0.59	0.025	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, PSMA7, PSMB2, PSMD6
Reactome	HSA-5358346	Hedgehog ligand biogenesis	8	64	0.59	0.025	PSMA3, PSMA2, PSMA6, PSMB6, VCP, PSMA7, PSMB2, PSMD6
Reactome	HSA-6782210	Gap-filling DNA repair synthesis and ligation in TC-NER	8	64	0.59	0.025	AQR, RBX1, MNAT1, POLR2G, POLR2K, PPIE, RFC1, RFC5
Reactome	HSA-1168372	Downstream signaling events of B Cell Receptor (BCR)	9	80	0.55	0.0251	PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6, PPIA
Reactome	HSA-9663891	Selective autophagy	9	80	0.55	0.0251	CSNK2A2, TUBB4A, DYNC1L1, DYNC111, HSP90AA1, DYNC1H1, VCP, MAP1LC3A, HSPA8
Reactome	HSA-350562	Regulation of ornithine decarboxylase (ODC)	7	50	0.64	0.0261	PSMA3, PSMA2, PSMA6, PSMB6, PSMA7, PSMB2, PSMD6
Reactome	HSA-6782135	Dual incision in TC-NER	8	65	0.59	0.0263	AQR, RBX1, MNAT1, POLR2G, POLR2K, PPIE, RFC1, RFC5

Reactome	HSA-8939236	RUNX1 regulates transcription of genes involved in differentiation of HSCs	10	98	0.5	0.0271	PSMA3, PSMA2, H4C6, H3-3B, MNAT1, PSMA6, PSMB6, PSMA7, PSMB2, PSMD6
Reactome	HSA-177243	Interactions of Rev with host cellular proteins	6	37	0.71	0.0278	NUP210, KPNB1, NUP160, XPO1, RANGAP1, NUP37
Reactome	HSA-1169091	Activation of NF-kappaB in B cells	8	66	0.58	0.0281	PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6
Reactome	HSA-180534	Vpu mediated degradation of CD4	7	51	0.63	0.0281	PSMA3, PSMA2, PSMA6, PSMB6, PSMA7, PSMB2, PSMD6
Reactome	HSA-195253	Degradation of beta-catenin by the destruction complex	9	82	0.54	0.0281	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6
Reactome	HSA-199977	ER to Golgi Anterograde Transport	13	154	0.42	0.0281	TUBB4A, USO1, DYNC1L1, TRAPPC10, DYNC111, COPB2, TMED9, DYNC1H1, CAPZA2, ACTR1A, TRAPPC9, SAR1B, CAPZB
Reactome	HSA-210991	Basigin interactions	5	25	0.8	0.0281	ATP1B3, ITGA6, PPIA, SLC7A6, PPIL2
Reactome	HSA-2871837	FCERI mediated NF-kB activation	9	82	0.54	0.0281	PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PDPK1, PSMA7, PSMB2, PSMD6
Reactome	HSA-349425	Autodegradation of the E3 ubiquitin ligase COP1	7	51	0.63	0.0281	PSMA3, PSMA2, PSMA6, PSMB6, PSMA7, PSMB2, PSMD6
Reactome	HSA-5336415	Uptake and function of diphtheria toxin	3	6	1.19	0.0281	EEF2, HSP90AA1, HSP90AB1
Reactome	HSA-69202	Cyclin E associated events during G1/S transition	9	82	0.54	0.0281	PSMA3, PSMA2, MNAT1, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6
Reactome	HSA-69601	Ubiquitin Mediated Degradation of Phosphorylated Cdc25A	7	51	0.63	0.0281	PSMA3, PSMA2, PSMA6, PSMB6, PSMA7, PSMB2, PSMD6
Reactome	HSA-75815	Ubiquitin-dependent degradation of Cyclin D	7	51	0.63	0.0281	PSMA3, PSMA2, PSMA6, PSMB6, PSMA7, PSMB2, PSMD6
Reactome	HSA-168255	Influenza Infection	13	155	0.42	0.0289	NUP210, RPL8, KPNB1, POLR2G, HSP90AA1, POLR2K, KPNA1, KPNA5, NUP160, RPS6, RPL24, XPO1, NUP37
Reactome	HSA-6807878	COPI-mediated anterograde transport	10	101	0.49	0.0301	TUBB4A, USO1, DYNC1L1, DYNC111, COPB2, TMED9, DYNC1H1, CAPZA2, ACTR1A, CAPZB
Reactome	HSA-69656	Cyclin A:Cdk2-associated events at S phase entry	9	84	0.53	0.0301	PSMA3, PSMA2, MNAT1, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6
Reactome	HSA-5683057	MAPK family signaling cascades	21	322	0.31	0.0311	RBX1, PSMA3, CSK, PSMA2, FNTB, PSMA6, MAP2K2, PIK3CA, PSMB6, FGB, RASA3, FGG, PSMA7, PSMB2, APBB1IP, CAMK2B, XPO1, PSMD6, PIK3R1, NEFL, PIK3CB
Reactome	HSA-8941858	Regulation of RUNX3 expression and activity	7	53	0.62	0.0311	PSMA3, PSMA2, PSMA6, PSMB6, PSMA7, PSMB2, PSMD6
Reactome	HSA-140877	Formation of Fibrin Clot (Clotting Cascade)	6	39	0.68	0.0314	SERPIND1, FGB, A2M, FGG, PROS1, KNG1
Reactome	HSA-216083	Integrin cell surface interactions	9	85	0.52	0.0315	VTN, ITGAV, FGB, FGG, CD47, AGRN, ITGB2, ITGA6, ITGAX
Reactome	HSA-72203	Processing of Capped Intron-Containing Pre-mRNA	19	281	0.33	0.033	AQR, SNRPD3, CSTF1, NUP210, CPSF2, POLR2G, DHX15, PRPF4B, POLR2K, DHX9, MAGOH, PPIE, NUP160, FAM50A, HNRNPF, HSPA8, NUP37, CPSF1, PPIL2
Reactome	HSA-9007101	Rab regulation of trafficking	11	121	0.45	0.0332	TBC1D17, TRAPPC10, TRAPPC11, CHM, RAB13, RABGEF1, TRAPPC9, TRAPPC13, RAB3GAP1, RAB9A, TBC1D15
Reactome	HSA-9725370	Signaling by ALK fusions and activated point mutants	7	54	0.61	0.0332	MYH9, RBX1, PIK3CA, CUL1, RPS6, PRKAR1A, PIK3R1
Reactome	HSA-354192	Integrin signaling	5	27	0.76	0.0342	CSK, FGB, FGG, PDPK1, APBB1IP
Reactome	HSA-9615933	Postmitotic nuclear pore complex (NPC) reformation	5	27	0.76	0.0342	KPNB1, TNPO1, NUP160, RANGAP1, NUP37

Reactome	HSA-936837	Ion transport by P-type ATPases	7	55	0.6	0.0355	ATP1B3, ATP11B, ATP2A3, ATP8A2, ATP8A1, CAMK2B, ATP2C1
Reactome	HSA-174577	Activation of C3 and C5	3	7	1.13	0.0357	C5, C3, C4A
Reactome	HSA-444257	RSK activation	3	7	1.13	0.0357	PDPK1, RPS6KA3, RPS6KA1
Reactome	HSA-9006925	Intracellular signaling by second messengers	20	306	0.31	0.0357	PSMA3, PSMA2, PSMA6, CSNK2A2, PIK3CA, PSMB6, ADCY9, RICTOR, TNKS, PDPK1, PSMA7, PSMB2, RBBP7, PRKAR1A, CAMK2B, KDM1A, PSMD6, PIK3R1, MYD88, PIK3CB
Reactome	HSA-168276	NS1 Mediated Effects on Host Pathways	6	41	0.66	0.0366	NUP210, KPNB1, KPNA1, KPNA5, NUP160, NUP37
Reactome	HSA-9656223	Signaling by RAF1 mutants	6	41	0.66	0.0366	CSK, MAP2K2, FGB, FGG, APBB1IP, CAMK2B
Reactome	HSA-381426	Regulation of Insulin-like Growth Factor (IGF) transport and uptake by Insulin-like Growth Factor Binding Proteins (IGFBPs)	11	124	0.44	0.0371	SERPIND1, C3, VCAN, LAMB2, PLG, FGG, ITIH2, PDIA6, C4A, CALU, KNG1
Reactome	HSA-442742	CREB1 phosphorylation through NMDA receptor-mediated activation of RAS signaling	5	28	0.75	0.0373	PDPK1, RPS6KA3, CAMK2B, RPS6KA1, NEFL
Reactome	HSA-8876198	RAB GEFs exchange GTP for GDP on RABS	9	89	0.5	0.0384	TRAPPC10, TRAPPC11, CHM, RAB13, RABGEF1, TRAPPC9, TRAPPC13, RAB3GAP1, RAB9A
Reactome	HSA-73894	DNA Repair	20	310	0.31	0.0393	AQR, RBX1, MSH2, H4C6, MNAT1, HERC2, COPS2, POLR2G, COPS6, POLR2K, BABAM2, VCP, PPIE, RAD50, RFC1, COPS7B, ACTL6A, RFC5, COPS4, COPS7A
Reactome	HSA-8957275	Post-translational protein phosphorylation	10	107	0.47	0.0393	SERPIND1, C3, VCAN, LAMB2, FGG, ITIH2, PDIA6, C4A, CALU, KNG1
Reactome	HSA-157118	Signaling by NOTCH	15	204	0.36	0.0394	RBX1, PSMA3, PSMA2, H4C6, H3-3B, PSMA6, PSMB6, NCSTN, CUL1, JAG2, ATP2A3, PSMA7, PSMB2, PSMD6, MIB2
Reactome	HSA-3928662	EPHB-mediated forward signaling	6	42	0.65	0.0394	ACTR3, TIAM1, EPHB3, ROCK1, ARPC1B, ARHGEF28
Reactome	HSA-5602498	MyD88 deficiency (TLR2/4)	4	17	0.87	0.0394	FGB, FGG, CD14, MYD88
Reactome	HSA-9013408	RHO GTPase cycle	8	73	0.54	0.0394	MPP7, PLD1, ANKLE2, VAV2, PIK3R1, DOCK2, MCF2L, CYFIP1
Reactome	HSA-936964	Activation of IRF3/IRF7 mediated by TBK1/IKK epsilon	4	17	0.87	0.0394	CD14, TICAM2, SARM1, IRF3
Reactome	HSA-9609646	HCMV Infection	11	126	0.44	0.0394	H4C6, NUP210, CHMP3, TUBB4A, DYNC1L11, DYNC111, MVB12A, DYNC1H1, NUP160, RBBP7, NUP37
Reactome	HSA-9646399	Aggrephagy	6	42	0.65	0.0394	TUBB4A, DYNC1L11, DYNC111, HSP90AA1, DYNC1H1, VCP
Reactome	HSA-9696264	RND3 GTPase cycle	6	42	0.65	0.0394	TXNL1, CKB, SEMA4F, ROCK1, NISCH, PIK3R1
Reactome	HSA-5339562	Uptake and actions of bacterial toxins	5	29	0.73	0.04	MAP2K2, EEF2, HSP90AA1, MAP2K3, HSP90AB1
Reactome	HSA-9658195	Leishmania infection	13	165	0.39	0.04	MYH9, C3, CYBA, ACTR3, ADCY9, GNAS, ENTPD1, HSP90AB1, VAV2, GNB1, PRKAR1A, ARPC1B, CYFIP1
Reactome	HSA-112382	Formation of RNA Pol II elongation complex	7	58	0.58	0.0414	MNAT1, IWS1, LEO1, POLR2G, SUPT6H, POLR2K, CTR9
Reactome	HSA-72649	Translation initiation complex formation	7	58	0.58	0.0414	EIF3D, EIF3E, EIF2S3, EIF2S1, EIF4A2, RPS6, EIF3L
Reactome	HSA-72702	Ribosomal scanning and start codon recognition	7	58	0.58	0.0414	EIF3D, EIF3E, EIF2S3, EIF2S1, EIF4A2, RPS6, EIF3L

Reactome	HSA-1236973	Cross-presentation of particulate exogenous antigens (phagosomes)	3	8	1.07	0.0425	ITGAV, CYBA, CYBB
Reactome	HSA-2682334	EPH-Ephrin signaling	9	92	0.49	0.0429	MYH9, ACTR3, TIAM1, NCSTN, EPHB3, VAV2, ROCK1, ARPC1B, ARHGEF28
Reactome	HSA-196854	Metabolism of vitamins and cofactors	14	188	0.37	0.0439	TTR, THTPA, FASN, NAXD, HSP90AA1, PPCDC, NAXE, MTHFR, NMNAT1, AGRN, RDH11, IDH1, MMAB, PANK4
Reactome	HSA-3000171	Non-integrin membrane-ECM interactions	7	59	0.57	0.0439	VTN, TTR, ITGAV, LAMB2, AGRN, ITGA6, LAMA2
Reactome	HSA-449147	Signaling by Interleukins	26	453	0.25	0.0439	RBX1, PSMA3, LBP, PSMA2, DUSP3, PSMA6, PIK3CA, PSMB6, TCP1, CUL1, HSP90AA1, MAP2K3, PSMA7, PSMB2, RPS6KA3, ITGB2, HNRNPF, STXBP2, PSMD6, PPIA, PIK3R1, RPS6KA1, HSPA8, ITGAX, MYD88, PIK3CB
Reactome	HSA-5603041	IRAK4 deficiency (TLR2/4)	4	18	0.84	0.0439	FGB, FGG, CD14, MYD88
Reactome	HSA-162587	HIV Life Cycle	12	149	0.4	0.0446	NUP210, MNAT1, CHMP3, POLR2G, MVB12A, POLR2K, KPNA1, NUP160, XPO1, RANGAP1, PPIA, NUP37
Reactome	HSA-69481	G2/M Checkpoints	12	149	0.4	0.0446	PSMA3, PSMA2, H4C6, PSMA6, HERC2, PSMB6, BABAM2, PSMA7, PSMB2, RAD50, RFC5, PSMD6
Reactome	HSA-69618	Mitotic Spindle Checkpoint	10	111	0.45	0.0446	ANAPC5, DYNC1L1, DYNC1I1, DYNC1H1, RCC2, NUP160, XPO1, ANAPC7, RANGAP1, NUP37
Reactome	HSA-9020702	Interleukin-1 signaling	10	111	0.45	0.0446	RBX1, PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6, MYD88
Reactome	HSA-1483257	Phospholipid metabolism	15	210	0.35	0.045	LPCAT2, CSNK2A2, PIK3CA, GPAT3, GPD1, STARD10, PLD1, PITPNM1, MIGA2, PI4K2A, DDHD2, MTMR10, MTMR1, PIK3R1, PIK3CB
Reactome	HSA-6802946	Signaling by moderate kinase activity BRAF mutants	6	45	0.62	0.0472	CSK, MAP2K2, FGB, FGG, APBB1P, CAMK2B
Reactome	HSA-6802955	Paradoxical activation of RAF signaling by kinase inactive BRAF	6	45	0.62	0.0472	CSK, MAP2K2, FGB, FGG, APBB1P, CAMK2B
Reactome	HSA-9649948	Signaling downstream of RAS mutants	6	45	0.62	0.0472	CSK, MAP2K2, FGB, FGG, APBB1P, CAMK2B
Reactome	HSA-983705	Signaling by the B Cell Receptor (BCR)	10	113	0.44	0.0479	PSMA3, PSMA2, PSMA6, PSMB6, CUL1, PSMA7, PSMB2, PSMD6, PPIA, PIK3R1
Reactome	HSA-2730905	Role of LAT2/NTAL/LAB on calcium mobilization	4	19	0.82	0.0489	PIK3CA, PDPK1, PIK3R1, PIK3CB
Reactome	HSA-446193	Biosynthesis of the N-glycan precursor (dolichol lipid-linked oligosaccharide, LLO) and transfer to a nascent protein	8	78	0.51	0.0496	NANP, GLB1, GMPPB, GMPPA, FPGT, DPAGT1, PGM3, ALG11

Supplementary Table 22: Pathways downregulated with high brain valine

#category	term ID	term description	observed	background	strength	false disco	matching proteins in your network (labels)
Reactome	HSA-72203	Processing of Capped Intron-Containing Pre-mRNA	37	281	0.57	2.48E-07	PNN, PRPF19, SNRPC, FUS, SNRPA1, PPIG, WBP11, ACIN1, NUP35, SRRM2, SART1, HNRNPD, PRPF3, NUP98, GCFC2, SF3B2, CSTF2T, FIP1L1, NUP50, NUP214, CHTOP, RBMX, SRSF11, RNF113A, CDC5L, SF1, CWC27, GTF2F1, POM121, CSTF2, IK, POLDIP3, SRSF12, ALYREF, NUP153, SNW1, CWC15
Reactome	HSA-112316	Neuronal System	41	409	0.45	1.94E-05	CACNG3, KCNMB4, PRKCG, GABRA4, SLC1A3, CACNG8, SLC1A2, NRG1, SHANK1, KCNJ3, SYN1, CACNG2, GRM5, HCN1, DLGAP1, KCND3, GRIN2A, GNAL, MAPT, ADCY2, SHANK2, NLGN3, EPB41L2, MYO6, GNG5, PRKACB, KCNB1, DLGAP3, DLGAP4, DLG3, RTN3, AKAP5, CREB1, GABRA2, GRIA1, SYT7, SIPA1L1, KCNJ6, GRIA3, SHANK3, DLGAP2
Reactome	HSA-6794361	Neurexins and neuroligins	14	56	0.84	7.29E-05	SHANK1, GRM5, DLGAP1, GRIN2A, SHANK2, NLGN3, EPB41L2, DLGAP3, DLGAP4, DLG3, SYT7, SIPA1L1, SHANK3, DLGAP2
Reactome	HSA-6794362	Protein-protein interactions at synapses	17	87	0.74	7.29E-05	SHANK1, GRM5, DLGAP1, GRIN2A, SHANK2, NLGN3, EPB41L2, DLGAP3, DLGAP4, DLG3, RTN3, GRIA1, SYT7, SIPA1L1, GRIA3, SHANK3, DLGAP2
Reactome	HSA-72163	mRNA Splicing - Major Pathway	26	203	0.55	7.29E-05	PNN, PRPF19, SNRPC, FUS, SNRPA1, PPIG, WBP11, ACIN1, SRRM2, SART1, HNRNPD, PRPF3, GCFC2, SF3B2, RBMX, SRSF11, RNF113A, CDC5L, SF1, CWC27, GTF2F1, IK, SRSF12, ALYREF, SNW1, CWC15
Reactome	HSA-162587	HIV Life Cycle	18	149	0.53	0.0064	CCNT2, RPS27A, NUP35, NUP98, NUP50, NUP214, NELFE, NMT2, PSIP1, GTF2F1, POM121, ELOA, RANBP1, TCEA1, NUP153, NMT1, TAF15, CHMP4A
Reactome	HSA-162599	Late Phase of HIV Life Cycle	17	136	0.54	0.0064	CCNT2, RPS27A, NUP35, NUP98, NUP50, NUP214, NELFE, NMT2, GTF2F1, POM121, ELOA, RANBP1, TCEA1, NUP153, NMT1, TAF15, CHMP4A
Reactome	HSA-112314	Neurotransmitter receptors and postsynaptic signal transmission	21	204	0.46	0.0085	CACNG3, PRKCG, GABRA4, CACNG8, NRG1, KCNJ3, CACNG2, GRIN2A, GNAL, MAPT, ADCY2, MYO6, GNG5, PRKACB, DLG3, AKAP5, CREB1, GABRA2, GRIA1, KCNJ6, GRIA3
Reactome	HSA-8953854	Metabolism of RNA	48	705	0.28	0.0085	PNN, PRPF19, SNRPC, FUS, SNRPA1, PPIG, WBP11, ACIN1, RPS27A, NUP35, SRRM2, SART1, HNRNPD, PRPF3, NUP98, GCFC2, SF3B2, CSTF2T, FIP1L1, NUP50, NUP214, ADAR, CHTOP, PSMD4, RBMX, SRSF11, RNF113A, CDC5L, SF1, CWC27, GTF2F1, POM121, KHSRP, CSTF2, EIF4B, IK, POLDIP3, SRSF12, EIF4G1, ALYREF, RPL26L1, RPS25, TNKS1BP1, NUP153, SNW1, CWC15, DCP1A, RPS10

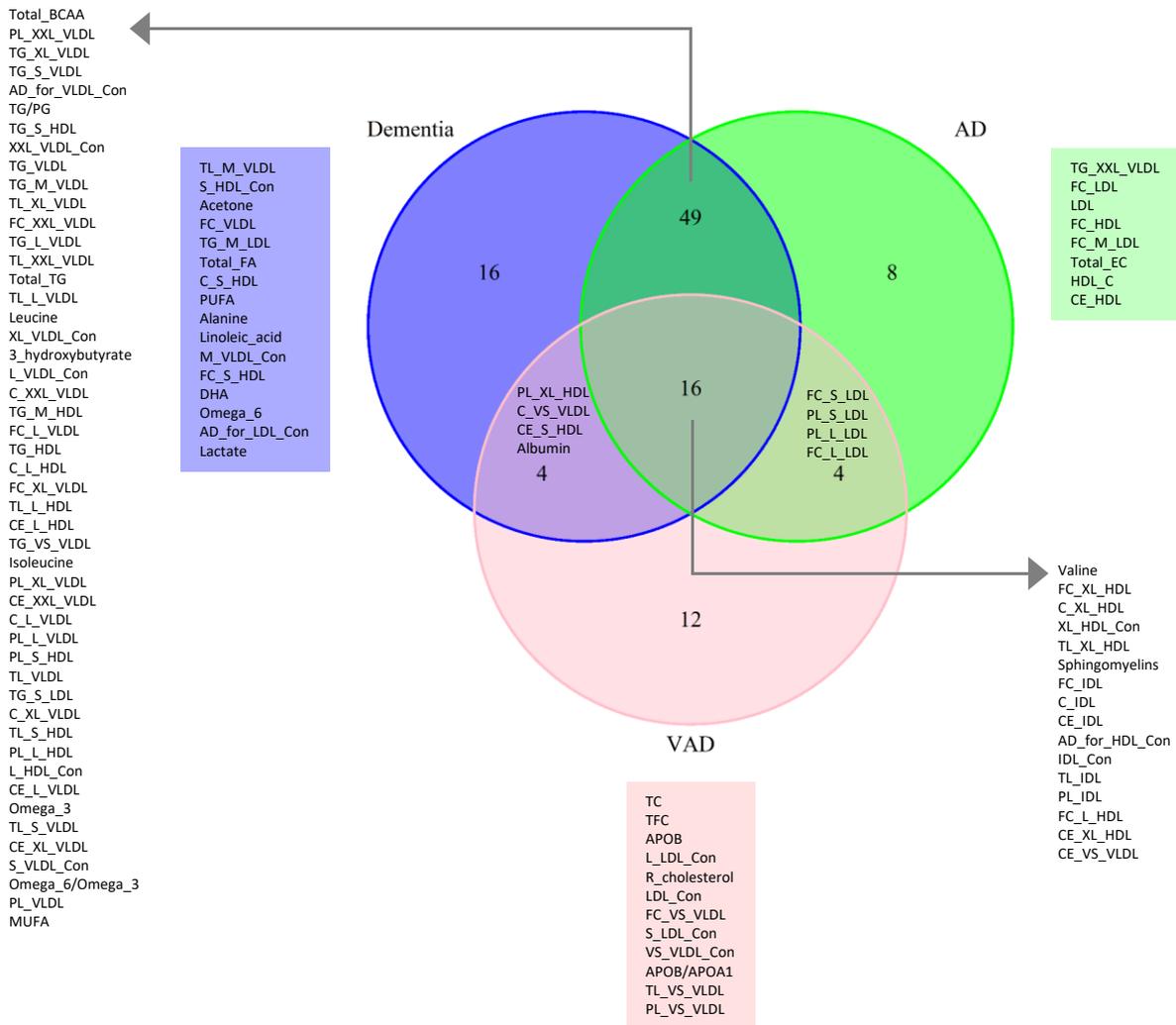
Reactome	HSA-9012999	RHO GTPase cycle	35	449	0.34	0.0085	WASL, TEX2, FARP2, LAMTOR1, GJA1, MSI2, RHOC, ARHGAP32, BAIAP2, ARHGAP33, WASF3, CDC42EP4, ITSN2, ADD3, ARHGEF26, SPTBN1, ARHGEF2, SLK, EMD, ZNF512B, MYO6, RBMX, ACBD5, NHS, PKP4, PICALM, DBN1, CAPZB, DOCK4, VAPB, ARFGAP2, TJP2, PCDH7, TWF1, FARP1
Reactome	HSA-399719	Trafficking of AMPA receptors	8	31	0.86	0.0088	CACNG3, PRKCG, CACNG8, CACNG2, MYO6, AKAP5, GRIA1, GRIA3
Reactome	HSA-8856828	Clathrin-mediated endocytosis	17	145	0.52	0.0088	WASL, SH3GL1, RPS27A, GRK2, ARFGAP1, UBQLN2, ITSN2, SGIP1, CTTN, PICALM, SH3KBP1, AAK1, AGFG1, SNAP91, EPN1, STON2, NECAP1
Reactome	HSA-8856825	Cargo recognition for clathrin-mediated endocytosis	14	105	0.57	0.0095	SH3GL1, RPS27A, GRK2, UBQLN2, ITSN2, SGIP1, PICALM, SH3KBP1, AAK1, AGFG1, SNAP91, EPN1, STON2, NECAP1
Reactome	HSA-112315	Transmission across Chemical Synapses	24	268	0.4	0.0118	CACNG3, PRKCG, GABRA4, SLC1A3, CACNG8, SLC1A2, NRG1, KCNJ3, SYN1, CACNG2, GRIN2A, GNAL, MAPT, ADCY2, MYO6, GNG5, PRKACB, DLG3, AKAP5, CREB1, GABRA2, GRIA1, KCNJ6, GRIA3
Reactome	HSA-194315	Signaling by Rho GTPases	44	672	0.26	0.0223	WASL, CDKN1B, TEX2, TAOK1, CLASP1, FARP2, LAMTOR1, GJA1, MSI2, RHOC, ARHGAP32, NUP98, BAIAP2, ARHGAP33, WASF3, CDC42EP4, ITSN2, ADD3, ARHGEF26, SPTBN1, ARHGEF2, SLK, EMD, ZNF512B, MYO6, RBMX, ACBD5, CTTN, NHS, PKP4, PPP1R12B, PICALM, DBN1, MYH11, PPP1R12A, CAPZB, DOCK4, KLC1, VAPB, ARFGAP2, TJP2, PCDH7, TWF1, FARP1
Reactome	HSA-159231	Transport of Mature mRNA Derived from an Intronless Transcript	8	42	0.73	0.0345	NUP35, NUP98, FIP1L1, NUP50, NUP214, POM121, ALYREF, NUP153
Reactome	HSA-72202	Transport of Mature Transcript to Cytoplasm	11	82	0.57	0.0387	NUP35, NUP98, FIP1L1, NUP50, NUP214, CHTOP, SRSF11, POM121, POLDIP3, ALYREF, NUP153
Reactome	HSA-162906	HIV Infection	20	229	0.39	0.0442	CCNT2, RPS27A, NUP35, NUP98, PACS1, NUP50, NUP214, PSMD4, NELFE, NMT2, PSIP1, GTF2F1, POM121, ELOA, RANBP1, TCEA1, NUP153, NMT1, TAF15, CHMP4A
Reactome	HSA-180910	Vpr-mediated nuclear import of PICs	7	34	0.76	0.0453	NUP35, NUP98, NUP50, NUP214, PSIP1, POM121, NUP153
Reactome	HSA-159227	Transport of the SLBP independent Mature mRNA	7	35	0.75	0.0487	NUP35, NUP98, NUP50, NUP214, POM121, ALYREF, NUP153
Reactome	HSA-159236	Transport of Mature mRNA derived from an Intron-Containing Transcript	10	73	0.58	0.0487	NUP35, NUP98, NUP50, NUP214, CHTOP, SRSF11, POM121, POLDIP3, ALYREF, NUP153
Reactome	HSA-165054	Rev-mediated nuclear export of HIV RNA	7	35	0.75	0.0487	NUP35, NUP98, NUP50, NUP214, POM121, RANBP1, NUP153

Reactome	HSA-199991	Membrane Trafficking	40	626	0.25	0.0487	TSC2, WASL, PREB, SH3GL1, RPS27A, GJA1, SH3D19, TPD52L1, GRK2, ARFGAP1, AP3S1, SEC16A, DTNBP1, UBQLN2, ITSN2, TJP1, SPTBN1, DENND4B, MYO6, GBF1, SGIP1, DENND1A, CTTN, PICALM, SH3KBP1, AAK1, AGFG1, DENND6B, SNAP91, CAPZB, EPN1, KLC1, GRIA1, TPD52, CLINT1, AREGAP2, KIF1A, STON2, CHMP4A, NECAP1
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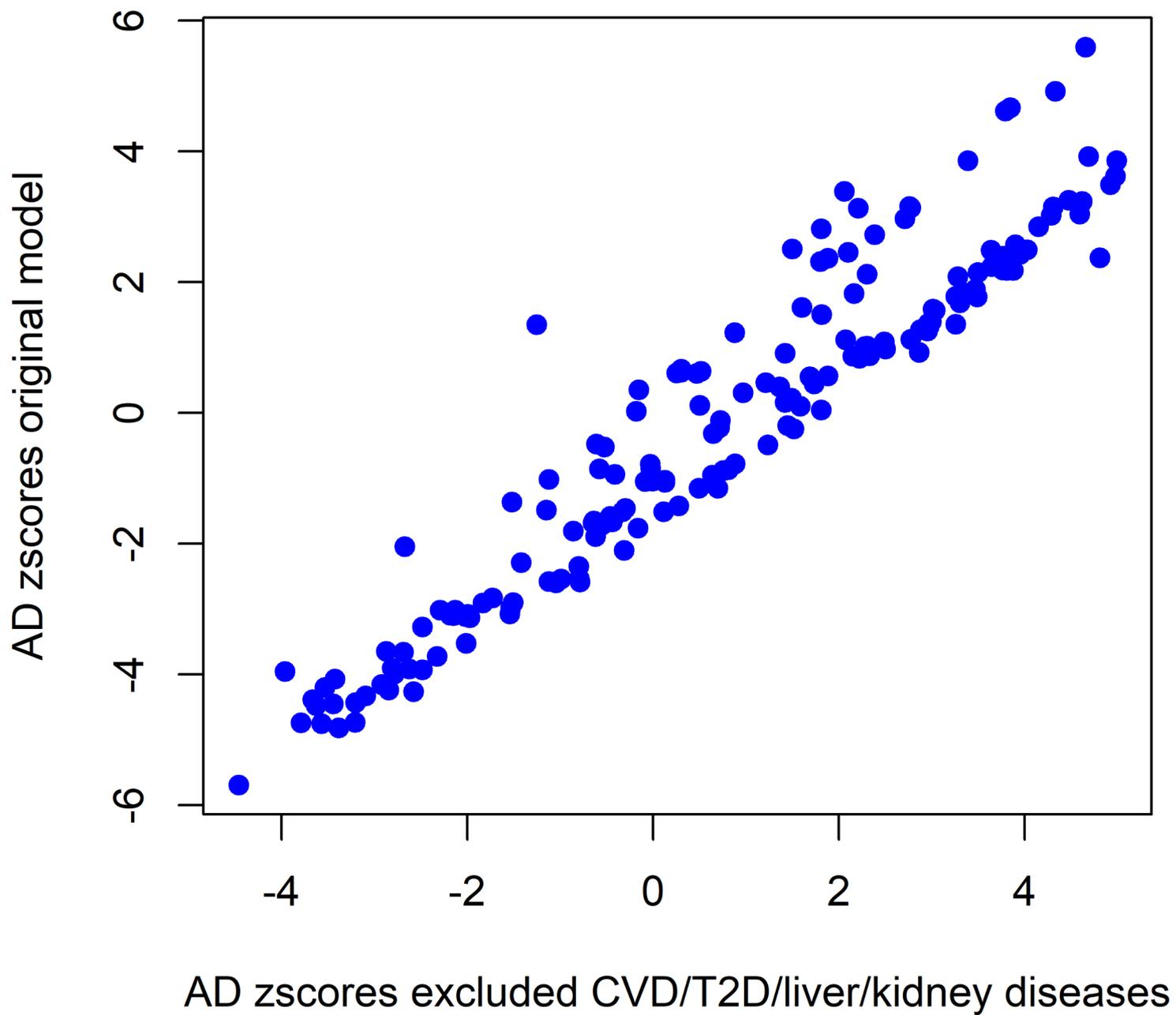
Supplementary Table 23: BHBA and BCAA transporters and other membrane transporters in the brain in AD pathology

protein	MCI				BRAAK				CERAD				AD				APOE				protein	ID	BBB/MT transport activity
	Beta	SE	Tval	Pval																			
SLC13A5.Q86YT5	-1.2107	0.5741	-2.1089	0.034956	-0.1156	0.2594	-0.4457	0.655997	-0.2367	0.2430	-0.9741	0.330466	-1.7500	0.5662	-3.0906	0.001997	0.1215	0.0936	1.2980	0.194896	SLC13A5	Q86YT5	Citrate transporter, regulation of citrate in the brain
SLC16A1.P53985	-0.6214	0.5844	-1.0632	0.287701	-0.5583	0.2935	-1.9024	0.057684	-0.0532	0.2760	-0.1927	0.847253	0.3942	0.5959	0.6616	0.508241	0.0042	0.1052	0.0399	0.968182	SLC16A1	P53985	MCT1
SLC16A2.P36021	-1.2360	0.9205	-1.3428	0.179341	-0.4299	0.4379	-0.9816	0.326763	-0.1078	0.4109	-0.2623	0.793167	-1.7223	0.9256	-1.8607	0.062782	-0.0362	0.1580	-0.2291	0.818923	SLC16A2	P36021	MCT7
SLC16A7.O60669	-1.6319	0.7915	-2.0619	0.039221	-0.7230	0.3805	-1.9003	0.057962	-0.5124	0.3572	-1.4346	0.152015	-1.3455	0.7954	-1.6914	0.090753	-0.0046	0.1367	-0.0336	0.97322	SLC16A7	O60669	MCT2
SLC22A18.Q96B11	-0.1630	0.7334	-0.2223	0.824089	-0.5456	0.3756	-1.4524	0.147607	-0.8449	0.3494	-2.4183	0.016287	-2.5081	0.8705	-2.8811	0.003962	-0.0911	0.1287	-0.7075	0.479864	SLC22A18	Q96B11	AAT
SLC22A23.C9J4Z0	-3.2204	1.4955	-2.1534	0.031287	-2.4454	0.6567	-3.7241	0.000218	-1.9049	0.6181	-3.0817	0.002171	-7.6075	1.6365	-4.6487	3.34E-06	-0.4559	0.2387	-1.9102	0.056678	SLC22A23	C9J4Z0	ion transport
SLC25A11.Q02978	-1.3122	1.1619	-1.1294	0.258738	-1.3227	0.5389	-2.4544	0.014449	-1.2877	0.5049	-2.5502	0.011058	-4.2457	1.1536	-3.6803	0.000233	-0.3408	0.1932	-1.7641	0.078328	SLC25A11	Q02978	Mitochondrial carrier/oxoglutarate, protects from cytotoxicity by modulating glutathione levels in
SLC25A13.Q9UJS0	-0.6732	0.9998	-0.6733	0.500762	-0.4744	0.4728	-1.0034	0.316145	-0.1370	0.4436	-0.3089	0.757541	-2.7810	0.9904	-2.8079	0.004986	0.4805	0.1687	2.8476	0.004584	SLC25A13	Q9UJS0	Mitochondrial carrier/glutamate
SLC25A16.P16260	-0.7035	0.7628	-0.9222	0.356418	-0.1455	0.3440	-0.4231	0.672532	-0.6127	0.3243	-1.8892	0.059783	-2.4158	0.7789	-3.1014	0.001926	-0.1658	0.1319	-1.2566	0.20984	SLC25A16	P16260	Mitochondrial carrier/CoA transport
SLC25A27.O95847	-0.8117	0.9259	-0.8766	0.380682	-1.2144	0.4250	-2.8576	0.004444	-1.3389	0.3971	-3.3715	0.000805	-3.9916	1.0581	-3.7724	0.000162	-0.3002	0.1536	-1.9549	0.051149	SLC25A27	O95847	mitochondrial anion carrier
SLC25A29.Q8N8R3	1.9417	1.0645	1.8241	0.068141	0.8756	0.4791	1.8275	0.068264	1.0825	0.4507	2.4019	0.016698	2.7842	0.9835	2.8308	0.004643	0.1310	0.1738	0.7534	0.451582	SLC25A29	Q8N8R3	Mitochondrial carrier/acylcarnitine
SLC25A33.Q985K2	-0.3200	0.7128	-0.4490	0.653421	-0.3708	0.3572	-1.0383	0.299742	-0.7204	0.3392	-2.1240	0.034268	-2.6350	0.8650	-3.0462	0.002318	-0.1287	0.1292	-0.9959	0.319868	SLC25A33	Q985K2	Mitochondrial pyrimidine transport
SLC25A36.Q96CQ1	-1.3709	1.0227	-1.3405	0.180099	-0.2116	0.4829	-0.4381	0.66148	-0.9123	0.4509	-2.0233	0.043572	-5.3561	1.1568	-4.6302	3.65E-06	-0.0469	0.1737	-0.2700	0.787305	SLC25A36	Q96CQ1	mitochondrial pyrimidine importer/hypoglycemia
SLC25A4.P12235	-1.2389	0.7591	-1.6320	0.102678	-0.7083	0.3502	-2.0227	0.043626	-0.5043	0.3288	-1.5336	0.125757	-3.1486	0.8437	-3.7321	0.00019	-0.0912	0.1267	-0.7203	0.47169	SLC25A4	P12235	mitochondrial adenine transporter
SLC25A46.Q96AG3	-1.2844	1.3472	-0.9534	0.340368	-2.0028	0.6385	-3.1366	0.001809	-2.2315	0.5961	-3.7432	0.000203	-8.5298	1.6963	-5.0285	4.94E-07	-0.4315	0.2314	-1.8651	0.062754	SLC25A46	Q96AG3	Mitochondrial membrane
SLC25A6.P12236	-0.8619	0.8922	-0.9661	0.333995	-0.9160	0.4283	-2.1384	0.032961	-1.4025	0.3985	-3.5196	0.000471	-3.2149	0.9412	-3.4159	0.000636	-0.3637	0.1551	-2.3454	0.019391	SLC25A6	P12236	Mitochondrial carrier/ADP import/ATP export
SLC35A4.L0R6Q1	-0.5584	1.0429	-0.5354	0.592351	-0.4238	0.5049	-0.8393	0.401721	-1.1701	0.4708	-2.4852	0.013282	-3.1081	1.0725	-2.8980	0.003755	-0.2167	0.1793	-1.2086	0.227419	SLC35A4	L0R6Q1	carbohydrate transport
SLC38A2.Q96QD8	0.4519	0.3399	1.3294	0.183723	0.2459	0.1479	1.6624	0.097053	0.5480	0.1369	4.0043	7.15E-05	1.4218	0.3236	4.3935	1.12E-05	0.0827	0.0535	1.5454	0.122868	SLC38A2	Q96QD8	NAAT/glutamate
SLC39A10.Q9ULF5	-1.3216	1.0202	-1.2955	0.195149	-1.0828	0.4757	-2.2760	0.023261	-1.3559	0.4442	-3.0528	0.002387	-3.0809	1.0414	-2.9584	0.003092	-0.3841	0.1710	-2.2460	0.025134	SLC39A10	Q9ULF5	Zinc transporter
SLC39A12.Q504Y0	0.5496	0.5970	0.9207	0.357189	0.7437	0.2787	2.6690	0.007861	0.7896	0.2634	2.9980	0.002855	1.8879	0.6008	3.1425	0.001675	0.1427	0.1015	1.4062	0.160312	SLC39A12	Q504Y0	Zinc transporter
SLC43A2.Q8N370	-0.8749	1.0514	-0.8321	0.405341	-0.2174	0.4890	-0.4446	0.656783	-0.0827	0.4585	-0.1805	0.856859	-1.4976	0.9600	-1.5599	0.118773	-0.0522	0.1756	-0.2974	0.766295	SLC43A2	Q8N370	LAT4
SLC4A10.C9J240	-0.3393	0.3976	-0.8534	0.393453	-0.3618	0.1842	-1.9646	0.050137	-0.5255	0.1722	-3.0515	0.002425	-1.6030	0.4316	-3.7141	0.000204	-0.2037	0.0677	-3.0073	0.002797	SLC4A10	C9J240	sodium bicarbonate transporter/maintain pH, interacts with MAPT (https://string-db.org/cgi/network?taskId=bMK8hbqA68PZ&sessionId=
SLC4A3.P48751	0.2753	0.9090	0.3029	0.761957	-0.1425	0.4336	-0.3287	0.742506	0.2541	0.4064	0.6253	0.532079	2.6455	0.9019	2.9333	0.003354	0.1488	0.1567	0.9498	0.342659	SLC4A3	P48751	anion exchanger
SLC4A8.Q2Y0W8	-1.0911	0.8352	-1.3065	0.191397	-0.8305	0.4169	-1.9920	0.046908	-1.5484	0.3862	-4.0090	7.02E-05	-3.6342	0.9982	-3.6408	0.000272	-0.2485	0.1499	-1.6576	0.098018	SLC4A8	Q2Y0W8	(https://string-db.org/cgi/network?taskId=bMK8hbqA68PZ&sessionId=
SLC5A3.P53794	0.2121	0.4285	0.4949	0.620642	0.3194	0.1967	1.6239	0.105035	0.4042	0.1841	2.1950	0.028634	1.4862	0.4195	3.5431	0.000395	0.0486	0.0702	0.6918	0.489384	SLC5A3	P53794	myo-inositol transporter
SLC6A15.Q9H2J7	0.5608	0.8111	0.6915	0.48928	0.3317	0.4022	0.8245	0.410042	0.5424	0.3765	1.4404	0.150383	3.2074	0.8939	3.5879	0.000333	0.2602	0.1438	1.8094	0.070979	SLC6A15	Q9H2J7	Valine transporter
SLC6A7.Q99884	2.0128	0.7799	2.5808	0.009858	0.7688	0.3315	2.3195	0.020808	0.2307	0.3165	0.7289	0.466459	2.3927	0.7678	3.1164	0.001831	-0.1630	0.1198	-1.3604	0.174371	SLC6A7	Q99884	Brain specific proline transporter
SLC7A14.Q8TBB6	0.8091	0.9155	0.8837	0.376854	0.5222	0.4185	1.2476	0.212766	0.2265	0.3928	0.5765	0.564516	2.9717	0.8886	3.3442	0.000825	0.0428	0.1506	0.2840	0.776533	SLC7A14	Q8TBB6	AAT transport
SLC7A3.Q8WY07	0.1009	0.5523	0.1827	0.855008	0.3675	0.2708	1.3569	0.175798	0.2812	0.2577	1.0908	0.276199	2.7183	0.7287	3.7300	0.000191	-0.0491	0.0921	-0.5327	0.594594	SLC7A3	Q8WY07	AAT/lysine/arginine/ornithine
SLC7A5.Q01650	-1.3608	1.1638	-1.1692	0.242305	-2.4226	0.5519	-4.3894	1.38E-05	-2.1213	0.5186	-4.0904	5.01E-05	-3.6137	1.2381	-2.9189	0.003513	-0.2309	0.2021	-1.1427	0.253714	SLC7A5	Q01650	LAT1
SLC7A8.Q9UHI5	-0.5582	0.7318	-0.7627	0.445641	-0.6053	0.3429	-1.7654	0.078097	-0.9261	0.3198	-2.8962	0.003941	-1.9090	0.7539	-2.5320	0.011343	-0.0450	0.1239	-0.3634	0.716423	SLC7A8	Q9UHI5	LAT2
SLC9A1.P19634	-1.4888	1.2808	-1.1624	0.245077	-0.9635	0.5639	-1.7086	0.088146	-1.1410	0.5277	-2.1621	0.03108	-3.8106	1.1743	-3.2450	0.001175	0.0311	0.2074	0.1500	0.88083	SLC9A1	P19634	AAT transport, regulation of pH

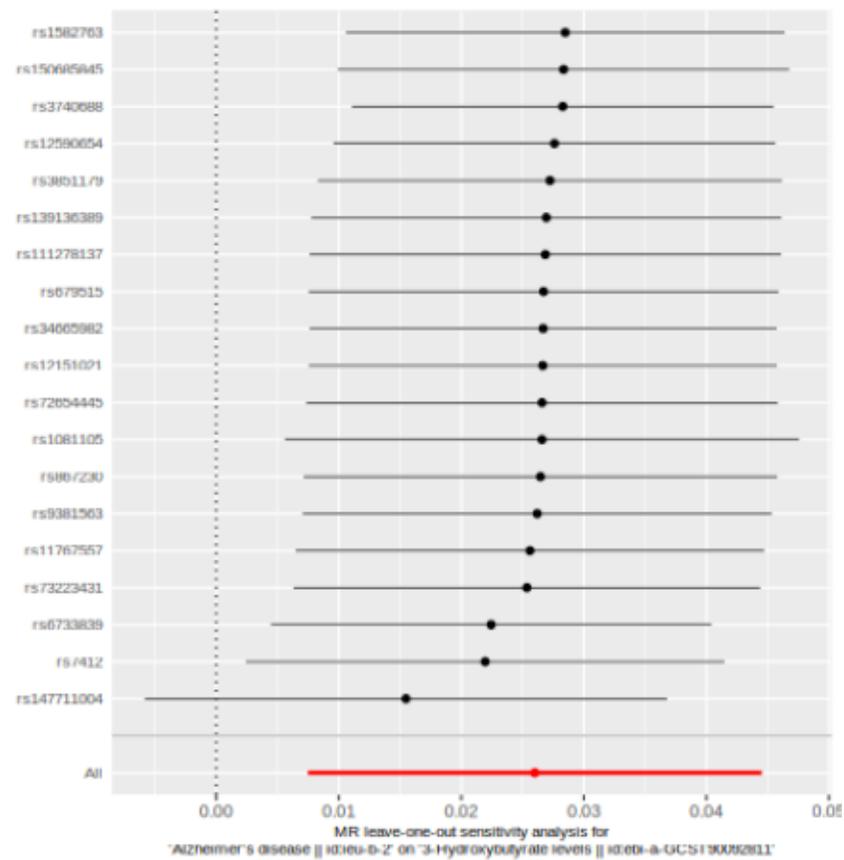
Supplementary Figure 1



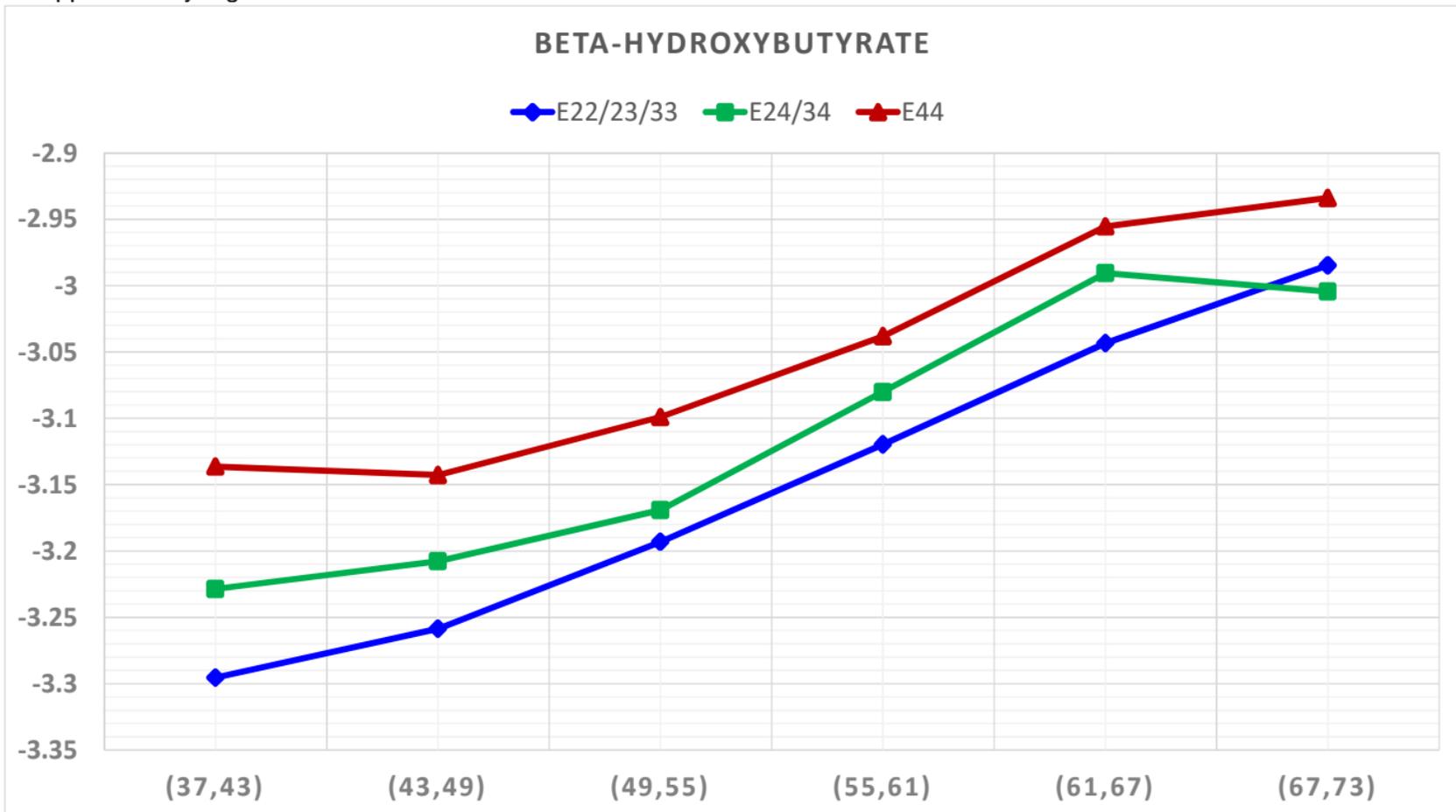
Supplementary Figure 2



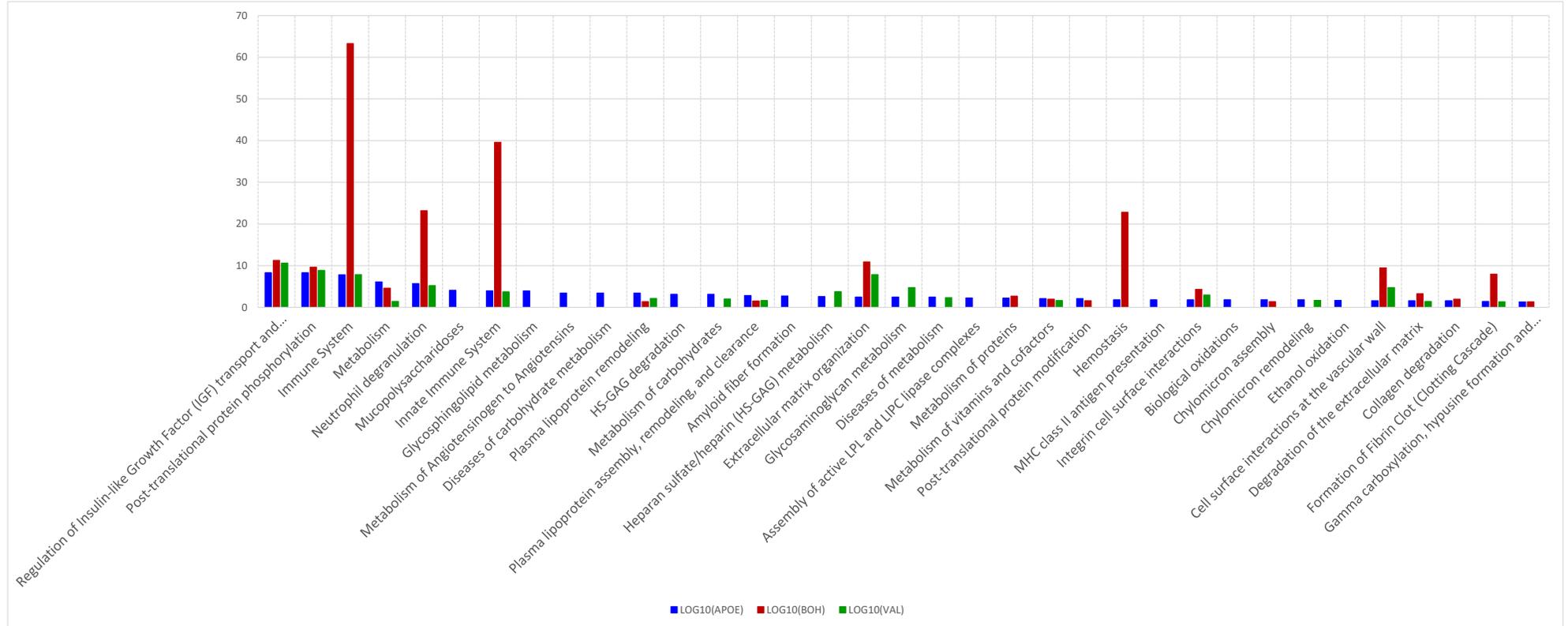
Supplementary Figure 3



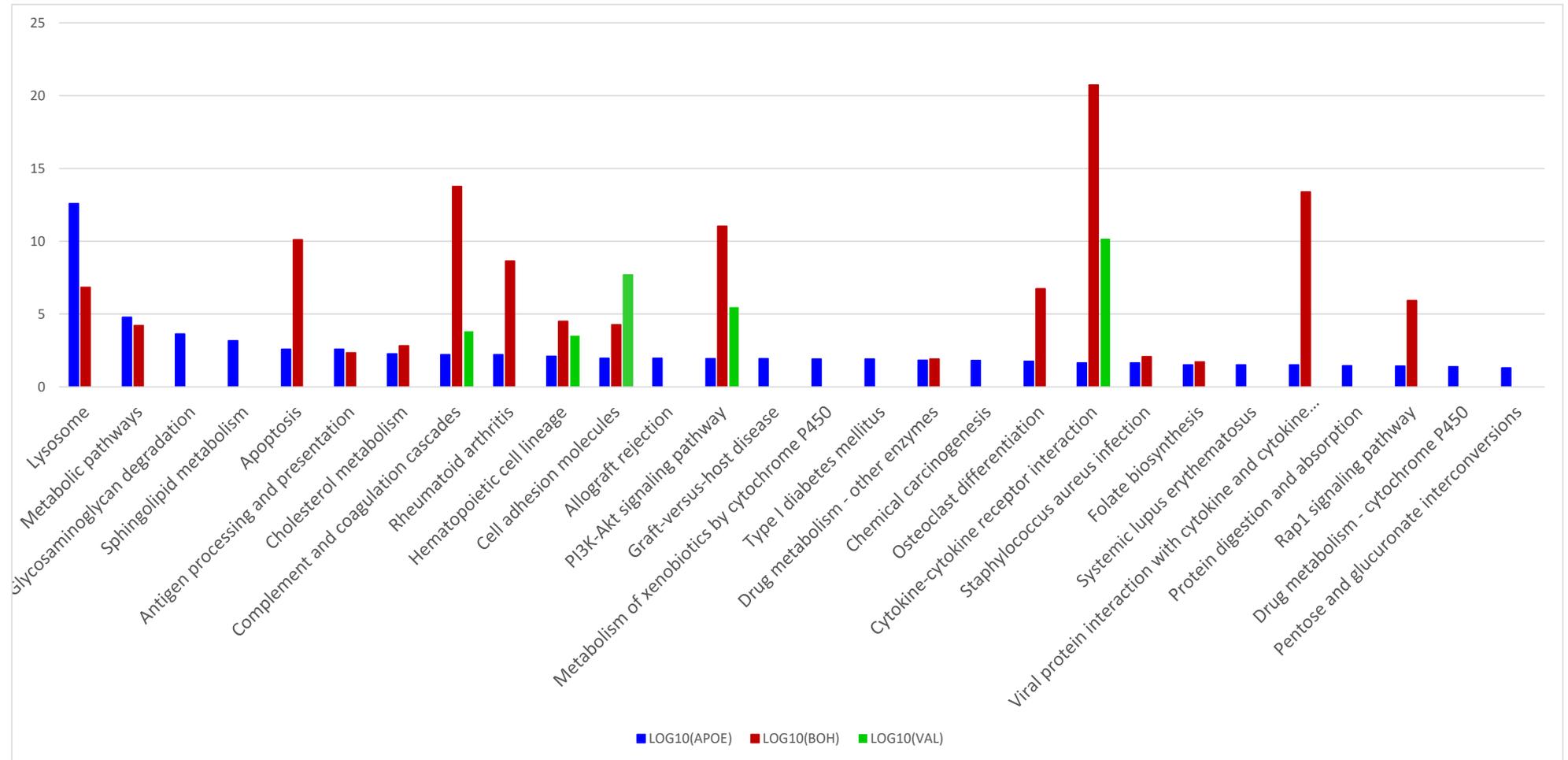
Supplementary Figure 4



Supplementary Figure 5



Supplementary Figure 6



Supplementary Figure 7

