Supplemental Materials

Supplemental Methods

Animals: Three- to four-months old male and female C57BL/6 (C57) mice were used in this study. The facility monitors and maintains temperature, humidity, and a 12 h light/dark cycle. A maximum of 5 mice were housed in a cage with an individual ventilating system and irradiated bedding (1/8-inch Bed O's Cobs, The Anderson, Maumee, OH). Sterilized food (PicoLab Rodent diet 5053, LabDiet, St. Louis, MO) and water were freely accessible in their cages. Experiments were initiated in 3-4-month-old male/female C57BL/6 mice (Jackson Laboratories, Bar Harbor, ME).

Transient middle cerebral artery occlusion (MCAO): According to our published studies [1,2], mice were anesthetized with a mixture of isoflurane/oxygen/nitrogen and a 6-0 Teflon-coated black monofilament surgical suture (Doccol, Redland, CA) was inserted into the exposed external carotid artery, advanced into the internal carotid artery, and wedged into the Circle of Willis to obstruct the origin of MCA. The filament was left in place during a 30 min ischemic period and then withdrawn. Cerebral blood flow (CBF) was measured prior to stroke, during the occlusion period, and 10 min after reperfusion by Laser-Doppler flowmetry (Periflux System 5010; Perimed, Järfälla, Sweden). Animals exhibiting greater than 80% reduction of pre-ischemic baseline CBF during MCAO and CBF greater than 80% of baseline blood flow by 10 min of reperfusion were included in the study. Body temperature was maintained at $37 \pm 0.5°C$ during the entire surgical procedure via a rectal probe connected to a thermocoupler-regulated heating water coil in the surgical board. Mice were then placed in a recovery cage, where their body temperatures were maintained at $37 \pm 0.5°C$ until they regained consciousness and resumed activity. The mice were then returned to their home cages with their cage mates. Warm saline was administered subcutaneously to prevent dehydration during the acute phase. Softened food and hydrogel (Clear H_2O) were given during the first week of recovery. Mice typically started to regain body weight around days 3-5 and continued to recover from stroke.

Tissue collection and total RNA extraction: Mice were randomly assigned to 10 different post-stroke survival times (pre-stroke [naïve], acute [1h, 3h, 6h, 1d, 3d], subacute [1w, 2w], recovery [1m, 2m, 6m]), and their brains were collected and stored at -80°C for RNA extraction. The brain block containing the entire infarct region (+3.1mm to -4.1mm from bregma) was cryosectioned, cut in half and collected for contralateral and ipsilateral hemispheres according to a method described previously[1]. Total RNA was extracted using Tri reagent (MRC, OH). After homogenization of brain tissue in 1 ml of Tri reagent, 240 µl of chloroform was added, mixed, homogenized, and then centrifuged at 10,000 rpm for 10 min at 4°C. The upper layer was transferred into a clean tube and 2 volumes of 100% cold ethanol was added. The mixture was kept in -20°C for at least 1 h to precipitate RNA and centrifuged at 10,000 rpm for 10 min at 4°C. The precipitate was dried for 10 min at room temperature and then resolved in diethyl pyrocarbonate-treated water. The RNA concentration and purity were determined by measuring the absorbance at 260nm and 280nm. The RNA was stored at -80°C until RNA seq analysis.

RNA-seq data generation: Strand-specific RNA-seq libraries were prepared from 500 ng RNA using KAPA stranded mRNA-Seq Kit (KAPA Biosystems). The libraries were amplified by twelve-cycle PCR. Sequencing was performed on Illumina HiSeq®2000 (Illumina) by multiplexed single-read run with 33 cycles. The resulting FASTQ files were analyzed via FastQC to ensure sufficient data quality. The reads were mapped to the mouse genome (mm10) using commercial

software ArrayStudio (OmicSoft) with two mismatches allowed. In our samples, 83%-90% of the reads were uniquely mapped.

Differential gene expression analysis: Gene expressions were derived from raw sequencing reads using the OmicSoft ArrayStudio RNASeq analysis pipeline (Qiagen Inc). For each gene, reads uniquely mapped to the exons were identified and counted. The resulting read counts were summarized at the gene level as raw expression. Genes were flagged as "absent" or "present" in each sample using an empirical minimum raw read count of 10. For a comparison between two groups of samples, we excluded genes that were not flagged as "present" in at least 75% of the samples of the higher expressing group. For differential gene expression analyses using the DESeq2 package[3], the raw read counts across samples were first normalized to adjust for the variation in sequencing depth. The dispersion of the expression was estimated by sharing information across genes with similar expression levels. Tests for differential expression were based on an expression model employing the negative binomial distribution. Independent group comparisons were used to identify differentially expressed genes for the post- versus pre-treatment groups, while paired comparisons were used to identify differentially expressed genes for ipsilateral versus contralateral hemispheres for every animal within each time point. The statistical significance level (p-value) of the differential expressions were assessed using the Wald test. The fold change was computed as the effect size of the treatment, reflecting the difference in the expression between the two groups. Significantly differentially expressed genes were identified using the criteria of i) fold changes greater than 1.5 and ii) p-values less than 0.05.

Gene expression profiles: The profiles were derived from raw sequencing reads using OmicSoft ArrayStudio RNASeq analysis pipeline (Qiagen Inc). Read counts were normalized using DESeq2.0 package. Differential gene expressions were identified using DESeq2 package[3] with a cutoff threshold ≥ 1.5 change and *p* value at 0.05.

Heat map: For each gene in each sample, the normalized read count was further normalized against the mean of all control samples followed by a log (base 2) transformation. Genes were organized by a hierarchical clustering algorithm using Euclidean distance (L2 norm) and an average linkage algorithm using Partek software (https://www.partek.com/). Gene expressions were derived from raw sequencing reads using OmicSoft ArrayStudio RNASeq analysis pipeline .

Clustering analysis: For each gene, DESeq2.0 normalized read counts of each sample were further normalized against the mean of the control samples (without the MCAO procedure). The normalized values in each biological replicate group were then averaged for each gene to produce a matrix of size m * n, with m being the number of significantly perturbed genes in either the ipsilateral or contralateral brain, and n being the 11 time points, including the pre-MCAO (or baseline/naive) group. The values of each gene across all time points were further normalized to a standard deviation of 1 and each value was then subtracted by the value of the control samples. The Davies-Bouldin method[4] was used to estimate the number of K clusters. The K-means method, based on Pearson dissimilarity, was used to cluster the genes using Partek software (St. Louis, Missouri)[5].

Pathway analysis: Significant genes identified from each time point were subjected to canonical pathway analysis using Ingenuity Pathway Analysis software (Qiagen, Redwood, California). Gene clusters identified from clustering analysis were subjected to Pathway Enrichment Analysis using NextBio (Illumina, Cupertino, California). In the NextBio Pathway Enrichment Analysis, genes were ranked by the Pearson correlation of the expression pattern of

each gene in the cluster with the average pattern of the cluster. The results obtained by NextBio were further organized into MSigDB Reactome categories [6].

Isolation of brain immune cells: Mice were anesthetized with isoflurane and pentobarbital and then perfused with ice-cold, heparinized phosphate-buffered saline (PBS) to remove blood. Brains were removed and the hemispheres were separated and placed into ice-cold Hanks' balanced salt solution (HBSS, Life Technologies, Grand Island, NY) without Ca^{2+} and Mg^{2+}. The tissue was enzymatically and mechanically dissociated with MACS Neural Tissue Dissociation Kits with Papain (Miltenyi Biotec, Bergische Gladbach, Germany). The dissociated tissue was used to obtain brain homogenates or isolated brain immune cells. Brain immune cells were isolated according to a previously described method[7]. Cells were centrifuged by discontinuous Percoll PLUS (GE Healthcare, Sweden) gradients and collected from the 37-70% interphases.

Flow cytometry analysis: Single cells (0.5-1×10^5) were pre-incubated with mouse BD Fc Block (anti-CD16/CD32, ≤ 1 µg/10^6 cells in 100 µl, BD Biosciences) , then incubated with 10% FBS in PBS at 4°C for 15 minutes, and stained with antibodies against CD11b (PE-Cy7 rat anti-mouse CD11b, 1:400, 552850) and CD45 (PE rat anti-mouse CD45, 1:1000, 553081) in 1% FBS in PBS at 4 °C for 1 h. After washing with PBS, cells were immediately analyzed (Miltenyi Biotec, San Diego, CA). Unstained cells and stained cells with the corresponding isotype controls (PE-Cy7 rat IgG2b, κ isotype control, 552849; PE rat IgG2b) were used for negative controls. Antibodies and isotype controls used for flow cytometry were purchased from BD Bioscience or Miltenyi Biotec.

Immunostaining of brain tissue: The mice were perfused transcardially with 4% paraformaldehyde in 0.1 mol/L phosphate buffer. Brains were collected, post-fixed overnight, transferred into a 30% sucrose solution, and sectioned in a cryostat at a 30-µm thickness for the immunohistochemistry. Brain sections were washed in PBS solution at pH 7.4, and incubated with 1% bovine serum albumin and 5% normal goat serum for 1 hour at room temperature. The sections were then incubated with anti-rabbit Iba-1 (1:1000, Wako, Richmond, VA, 019-19741) and anti-chicken GFP (1:1,000, Aves Lab, Davis, CA, AB16901) overnight at 4°C. Sections were washed with PBS and then incubated with secondary antibodies conjugated with Alexa Fluor 488 goat anti-chicken IgG (1:2000, Life Technologies, A11039) or Alexa Fluor 594 goat anti-rabbit IgG (1:2000, Life Technologies, A11012) for 1 hour. After washing with PBS, the sections were mounted using Fluoroshield reagent with DAPI (Sigma-Aldrich, F6057) and examined under a laser scanning confocal microscope (Carl Zeiss, Thornwood, NY, USA).

Adoptive Transfer of Splenocytes: According to our previously published method[8], 13-week-old mice were anesthetized with isoflurane and an ~1 cm incision was made on the left side of the abdominal cavity under the rib cage. The spleen was removed by cutting the mesentery and connective tissue, and the splenic vessels were cauterized. As an analgesic, meloxicam (5 mg/kg, P.O.) was administered just prior to surgery, in addition to buprenorphine (0.5 mg/kg, S.C., every 12 h for first 48 h after surgery) and bupivacaine (0.1 ml of 0.25-0.5%, S.C., on incision site before incision). For the preparation of splenocytes, a spleen from GFP (green fluorescent protein positive) transgenic mice (Jackson lab C57BL/6-Tg(CAG-EGFP)1Osb/J) was excised and minced using scissors, then pipetted in ice-cold Hanks' balanced salt solution (Life Technologies) without Ca^{2+} and Mg^{2+}. The mixture passed through a 70 µm strainer and then centrifuged at 3,000 rpm for 10 minutes at 4°C to isolate splenocytes. Cells were centrifuged by discontinuous Percoll PLUS (GE Healthcare) gradients and collected from the 37–70% interphases. The mononuclear cells (1×10^7) were adoptively transferred into asplenic MCAO mice via the retroorbital venous sinus 1 day before sacrifice (2day after stroke for 3d survival and 59th day after stroke for 2m survival). Twenty-four hours after the cell transfer, the mice were sacrificed.

Whole brain imaging*:* Fixed adult mouse brains from GFP$^+$ MM cell injected animals were delipidated with a modified Adipo-Clear protocol[9]. Perfusion fixed brain samples were washed with B1n buffer (H$_2$O/0.1% Triton X-100/0.3 M glycine, pH 7), then transferred to a methanol gradient series (20%, 40%, 60%, 80%) in B1n buffer, 4 mL for each brain, 1 h for each step; then 100% methanol for 1 h; then overnight incubation in 2:1 mixture of DCM:methanol and a 1.5 h incubation in 100% DCM the following day; then 100% methanol for 1 h three times, and reverse methanol gradient series (80%, 60%, 40%, 20%) in B1n buffer, 30 min for each step. Samples were then washed in B1n buffer for 1 h and overnight. The above procedures were done at room temperature with rocking to complete delipidation. The delipidated samples were then blocked in PTxwH buffer (PBS/0.1% Triton X-100/0.05% Tween 20/2 μg/ml heparin) with 5% DMSO and 0.3M glycine for 3 h and overnight at 37°C, then washed with PTxwH for 1 h, 2 h, and overnight at room temperature. For staining, brain samples were incubated in primary antibody (Aves 1020; chicken anti-GFP, 1:5000) diluted in PTxwH for 14 days at 37°C. After primary antibody incubation, samples were washed in PTxwH for 1 h, 2 h, 4 h, overnight, then 1 d three times, and then incubated in secondary antibody (Jackson ImmunoResearch 703-606-155, Alexa Fluor 647 donkey-anti-chicken, 1:1000) diluted in PTxwH for 10 days. Samples were then washed in PTxwH for 1 h, 2 h, 4 h, overnight, then 1 d three times. Samples were finally washed in PBS for one day, then proceeded for clearing with iDISCO+[10]. Samples were dehydrated with methanol gradient with water, then 100% methanol, DCM/methanol mixture overnight, and 100% DCM for 1h twice the next day. Brains were finally cleared for 4 h in dibenzyl ether and then stored in a fresh tube of dibenzyl ether before imaging with a LaVision Ultramicroscope II lightsheet fluorescent microscope using 4x objective. Volume imaging datasets were processed using Imaris x64 software (version 8.0.1, Bitplane) to generate the whole brain perspective views and coronal fly-through scanning movies.

Data Availability*:* A complete list of 24,475 genes analyzed and described in this study (Figure 1) was deposited and available in NCBI Short Read Archive (SRS), accession number: PRJNA525413. Lists of genes for cluster analyses and immunity described in Figures 4,5 are available in supplementary table I. Other relevant data are presented within the article.

Supplemental Figures
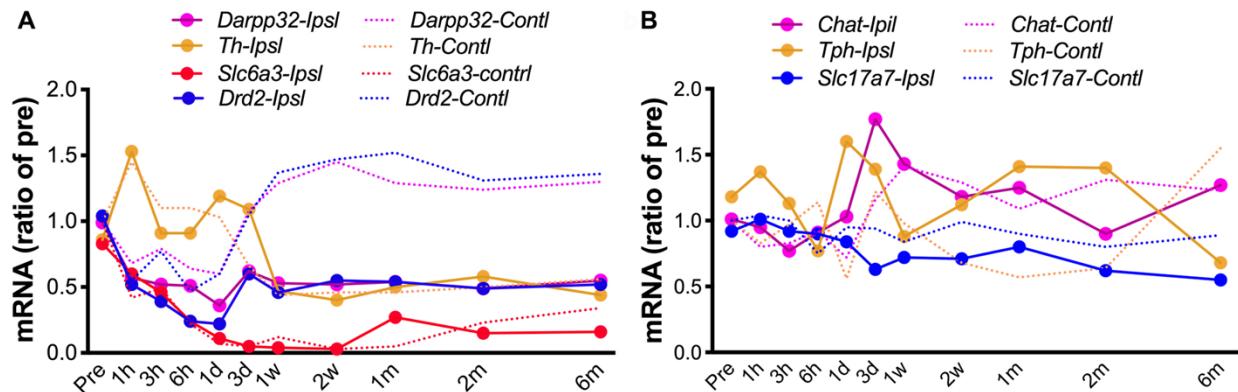
Supplemental Figure I. Neuronal maker gene expression across stroke stages. **A,** Markers forneurons in the striatum and substantia nigra. Ppp1r1a (Darpp32, striatal neurons) and Drd2 (dopamine receptor D2) are among the significantly perturbed genes in cluster 2. *Th* (tyrosine hydroxylase) and Slc6a3 (dopamine transporter) were downregulated in the ipsilateral hemisphere. **B,** Gene expression for cholinergic (*Chat*, choline acetyltransferase), serotonergic (*Tph1*) and glutaminergic (*Slc17a7*, vesicular glutamate transporter 1) markers. mRNA levels were expressed as ratios of pre-baseline values.
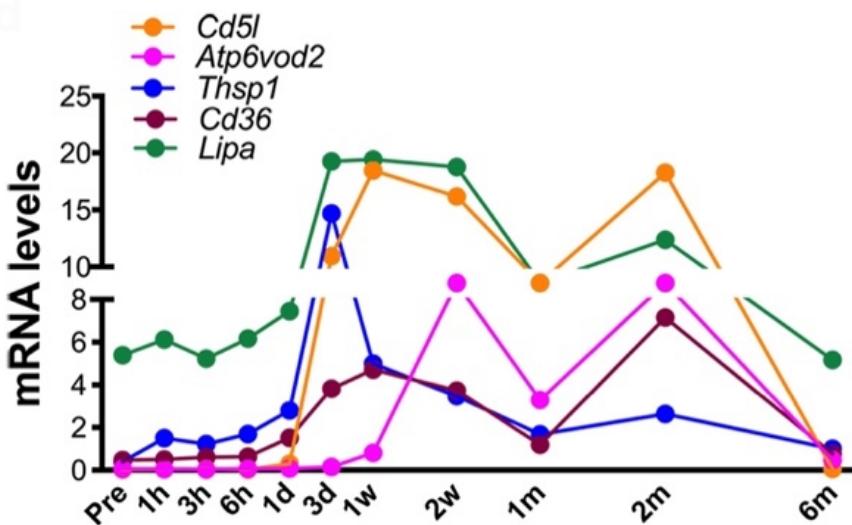
Supplemental Figure II. Expression profiles of selected M2 genes that showed biphasic gene profiles over time.

Video I. Video of cleared whole-brain imaging at 3 days post-stroke (related to Figure 6C). The movie shows the infiltrated GFP+ cells from cleared whole brain in 3 days after stroke. Two days after splenectomy, mice received GFP+ splenocytes and were sacrificed 24h after splenocyte infusions. GFP+ cells are infiltrated splenocytes.

Video II. Video of cleared whole-brain imaging at 2 month post-stroke (related to Figure 6C). The movie shows the infiltrated GFP+ cells from cleared whole brain in 2 month after stroke. Two days after splenectomy, mice received GFP+ splenocytes and were sacrificed 24h after splenocyte infusions. GFP+ cells are infiltrated splenocytes.

Supplementary Table I. A complete gene list by each cluster in the contralateral and ipsilateral hemisphere and the expression of innate immune, adaptive immune, M1, and M2, genes across time points in the ipsilateral stroked brain hemisphere. M1, M2, Adaptive and Innate immune gene lists were obtained from MSigDB (Broad Institute). They are:

MSigDB_C2_Coates_Macrophage_M1_vs_M2_UP,

MSigDB_C2_Coates_Macrophage_M1_vs_M2_DN,

MSigDB_REACTOME_ADAPTIVE_IMMUNE_SYSTEM,

MSigDB_REACTOME_INNATE_IMMUNE_SYSTEM from MSigDB (Broad Institute).

For each gene, the fold change was calculated for each post-stroke time point vs the pre-stroke value using DESeq normalized read counts and followed by log2 transformation.

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contralateral

Cluster	Column ID	pre	1h	3h	6h	1d	3d	1w	2w	1m	2m	6m
1	Gatm	0	0.191103	0.070277	-0.06283	-0.09936	0.996163	1.26282	1.85292	1.90691	2.06665	2.54689
1	Kcnv1	0	-2.51578	-1.84023	-0.85517	-0.80207	0.170031	0.285184	0.1131	0.389414	0.570068	0.14664
1	Exph5	0	-2.91195	-0.32798	0.33138	0.220907	0.377452	0.711151	0.197764	0.753415	0.096917	0.094705
1	Pcdhb9	0	0.919091	-0.10531	0.891479	1.13873	0.993246	1.41802	1.51902	2.06916	2.06662	3.45922
1	Fam84b	0	-1.8272	-0.33171	0.432388	0.231072	0.852132	0.872464	1.279	1.14099	1.53796	1.60243
1	Ddit4l	0	-2.92424	-1.68984	-0.6283	-0.82187	-0.40838	0.077634	0.355278	0.277899	0.25209	-0.18926
1	Il33	0	0.894417	1.21738	0.962553	-0.08168	1.20812	0.500835	2.12365	2.50728	1.98072	2.99392
1	Enpp2	0	-0.20342	0.668967	1.47336	2.25052	0.944486	1.84446	2.58093	2.23121	2.039	2.58333
1	Mme	0	-1.22861	-0.46009	-0.52533	-0.40691	-0.39686	1.69397	1.31351	1.39585	1.10835	1.01297
1	Kdr	0	-2.36392	-1.82575	-0.73765	-0.22614	-0.56331	0.313766	0.564858	0.895729	0.339632	0.01607
1	Adrb1	0	-2.14236	-1.32149	-0.64977	-0.43313	0.541904	-0.02028	0.748211	0.310133	1.05258	1.03285
1	Trim59	0	-0.7093	-1.09233	0.351907	0.107704	1.41663	0.919293	1.09801	1.57651	1.88278	1.68571
1	Slco1a4	0	-1.82115	-2.92757	-0.72641	0.299353	0.32907	0.2826	-0.34479	-0.3632	-0.21282	-0.40148
1	Arsg	0	0.962948	0.855773	1.00475	0.448568	0.909898	1.57117	2.66184	2.54903	1.85401	3.17051
1	Kl	0	-0.33619	0.563659	1.2895	1.84053	0.342648	1.49552	2.52188	2.27713	1.84517	2.34871
1	Isl1	0	-0.67595	-0.37904	-0.17928	0.209298	0.148906	1.91889	1.97492	1.1947	1.69728	1.58776
1	1500015O	0	0.897074	0.150305	1.67863	2.23729	0.738723	1.50386	2.621	2.40124	2.61159	2.58787
1	Spry2	0	-2.52333	-0.45882	-1.18699	-0.34155	0.230819	0.646529	0.71408	0.687711	0.527607	0.536689
1	Pygl	0	0.193712	1.03517	2.57787	1.83787	1.49189	1.03261	1.28997	1.55247	1.11046	3.54865
1	Pou3f4	0	-0.30852	0.368959	0.289927	-0.095	-0.48068	2.24417	1.48083	2.33025	1.18632	1.27679
1	Dusp6	0	-2.55181	-0.35691	-1.23279	-0.17791	0.64031	0.12384	0.181175	0.308591	0.842699	0.847311
1	Slc4a5	0	-0.26887	1.5833	2.50721	2.10975	1.00894	2.00898	2.48993	2.50796	1.57478	2.46256
1	Nqo1	0	-0.25995	-0.49795	1.46819	1.0153	0.07624	1.38965	1.63164	1.28066	2.49729	2.10997
1	Sostdc1	0	0.385715	0.582169	0.725607	0.614046	1.18083	1.7084	2.32418	2.31133	2.51241	2.88568
1	Ace	0	-0.295	1.10245	1.74539	1.53185	-0.22748	2.12344	2.14271	2.02815	0.898627	2.3646
1	F5	0	-0.52281	0.927339	1.46134	2.13007	0.643362	2.06953	2.34414	2.40961	1.56842	2.19099
1	Gli3	0	-2.72546	-1.01883	-1.20336	0.207523	-0.31248	0.454834	0.265593	0.710129	-0.23654	0.424015
1	1700040L0	0	1.97539	1.24497	1.61782	1.46055	1.18425	2.12225	2.6543	3.09485	2.61963	3.52446
1	Krt8	0	0.866651	0.177847	2.02472	2.75272	1.48044	1.00218	2.83475	1.61131	1.15872	2.76503
1	Ttr	0	0.433715	0.234411	1.62457	2.04034	0.522221	1.51967	2.55166	1.97868	2.35234	2.80506
1	Mfrp	0	0.876163	1.54969	1.89122	1.25536	0.198751	1.97694	3.51511	1.95684	1.30822	2.47015

1	Sox21	0	-2.86217	-1.49339	-0.57629	-0.03899	-0.11495	0.106641	0.231443	-0.3091	0.087492	0.801306
1	Ntrk1	0	-1.42522	-0.77646	0.324259	-0.01175	-1.01935	1.12838	1.52191	1.06437	1.17284	0.950734
1	Kcnj13	0	0.229252	0.703962	0.679027	1.85701	0.888934	1.59535	2.42755	2.54542	2.4019	2.75177
1	Lhx8	0	-1.14974	-1.21371	-1.3066	0.345414	-0.34268	0.996037	1.01126	0.880586	1.18205	1.13517
1	Csrp2	0	0.925675	0.538769	1.13069	1.14805	0.130318	1.48209	2.23811	2.01852	2.63291	3.04756
1	Ascl1	0	-2.45317	-2.2428	-0.78338	-1.24362	0.08084	-0.31842	0.395502	-0.2404	0.58007	-0.71896
1	Kcne2	0	0.453947	0.646313	1.85199	2.44316	1.73188	1.92323	2.95643	2.39613	2.69232	2.63217
1	Clic6	0	0.370777	1.92853	2.21692	2.58544	0.89483	2.34614	2.95524	2.71713	1.76301	2.60385
1	Hyi	0	1.1887	-0.2039	2.29208	3.37809	1.92028	0.806654	1.27492	1.06957	1.1209	1.43888
1	Ecel1	0	0.936744	0.61123	0.905488	1.67995	-0.0938	2.22586	2.10505	2.44401	2.28686	2.66713
1	Tnfaip6	0	1.81998	0.705345	1.73337	0.118451	1.19739	0.201551	2.75774	1.67689	2.06404	2.74257
1	Klhl1	0	0.945842	1.28372	1.31269	0.895876	1.58263	3.15239	2.22313	2.74262	2.02939	3.11778
1	A230001M	0	0.926986	0.82484	-0.65857	0.594896	0.627176	1.13053	1.52192	2.43837	2.45702	2.24079
1	Zic3	0	2.31466	2.35681	3.26396	3.46711	2.81423	3.42212	2.99124	1.5084	2.33115	2.49613
1	Cldn5	0	-1.15085	-1.15881	0.83559	-0.63505	-1.01381	0.73721	0.953639	0.381168	1.66794	1.03504
1	Inmt	0	-0.71396	-0.84607	0.36676	0.640389	0.788347	0.879702	1.77932	1.93967	1.09534	2.15645
1	Enkur	0	1.97208	0.982739	2.90714	2.13397	2.27617	2.75109	1.8001	1.61266	3.71092	2.65099
1	Krt18	0	1.34973	1.74623	2.92471	2.02752	0.412376	1.87058	2.65913	2.41079	2.80815	2.96214
1	Abca1	0	-0.66968	1.65914	1.25768	2.01057	1.47868	3.21743	1.37608	1.54403	1.17867	1.22116
1	Stxbp3	0	1.59775	2.99317	3.87309	2.75998	1.58816	2.29621	1.57619	2.17422	2.01745	2.72984
1	Prlr	0	0.999539	2.06383	2.57067	2.95007	2.38868	3.13401	2.86202	2.8136	3.28645	2.78919
1	Serpind1	0	1.30204	0.310867	1.36212	-0.22368	0.725079	0.995461	1.21916	2.31211	1.92415	3.1181
1	Lbp	0	-0.44571	0.085888	0.922041	2.34838	0.235085	2.156	2.27148	1.49106	1.21862	1.71691
1	Barx2	0	-2.71016	-2.51882	-0.70284	-1.46361	-1.72987	-0.5055	-0.70461	-0.10867	0.315341	-0.72022
1	Ankrd55	0	2.03484	1.18157	1.33654	2.32545	2.35776	2.2557	2.56767	2.85017	3.00548	3.66113
1	Gbp2	0	-0.88674	0.076191	-0.79978	1.13084	0.879752	1.69418	2.28168	1.13784	1.05315	1.27547
1	Tfap2b	0	-0.1011	0.98279	0.780301	-0.4296	1.15231	1.88025	1.46847	1.91917	2.28155	2.54585
1	Vamp8	0	0.956977	0.279421	0.699668	1.40721	1.7927	1.71658	1.57349	1.62953	2.94533	3.25439
1	Rab29	0	0.117595	-1.15325	-0.56744	0.873788	1.5401	0.230566	1.28212	0.855039	2.32516	1.20818
1	Fat4	0	-3.25059	-0.93847	-0.01123	-0.29885	-0.03851	-0.21295	-0.74952	0.11188	0.488798	-0.42444
1	Gm5089	0	1.06748	-0.16504	0.034174	0.221206	-0.64775	2.06618	0.752592	1.43112	2.25211	1.90843
1	Col8a2	0	-0.12967	-0.06567	0.698803	1.73977	0.030296	1.2633	1.73497	2.08977	2.08885	2.44941
1	Otx2	0	1.59024	1.79449	2.1859	2.51942	1.76809	2.47078	3.51261	2.64094	3.3883	3.20063
1	Gpr149	0	0.165591	1.31688	1.16469	1.57731	1.35295	2.79026	3.0707	2.79498	1.40201	1.7031
1	C3	0	0.540493	1.2057	1.01572	3.17363	2.73349	2.24092	2.43717	1.97474	1.23893	2.53889

1	A430035B:	0	-0.2726	-0.59522	0.555577	1.05045	-0.47044	0.164979	0.157173	1.05234	2.98506	0.361667
1	Ifi27	0	1.02988	0.140064	1.21689	1.20352	2.30746	0.76954	1.45458	1.67348	3.42379	2.32238
1	Tmem72	0	-0.1962	0.897493	2.51938	2.02566	0.861114	1.8418	2.35225	2.28779	2.37838	2.27533
1	Dlk1	0	2.45634	2.14515	2.54602	2.10514	1.04656	3.51386	2.98165	2.42682	1.76361	3.22618
1	Gbp4	0	-0.26213	-0.69566	-0.54608	-0.06901	1.19362	0.141297	1.46731	2.10498	1.71556	1.39661
1	Aqp1	0	1.58008	1.76782	3.21758	1.34968	1.51406	1.76417	3.13432	2.90015	2.96516	2.79559
1	Cfap126	0	1.89151	0.126914	1.5828	2.36999	0.834284	1.4809	3.08857	1.64661	2.51171	2.58304
1	Mir6240	0	-0.51297	1.31922	0.402929	0.035743	-0.08478	0.101133	-1.75832	0.28896	2.24857	0.178984
1	Igip	0	1.79331	0.89311	1.39904	1.10252	2.59706	0.857981	1.2612	1.30504	3.66572	2.38231
1	Drc7	0	-0.02517	0.894364	0.458993	2.25101	0.971271	1.38448	2.33313	2.49826	1.91885	2.67026
1	Mamdc2	0	0.163513	-0.96338	0.004423	1.4198	1.00552	0.782843	2.15104	2.29825	1.64789	1.00923
1	Foxj1	0	2.2238	1.50466	2.43821	2.69701	1.05025	2.48815	3.22867	2.34694	2.68614	3.48506
1	Adamtsl4	0	-1.94282	-1.05722	0.814422	-0.75819	-0.38223	-0.76725	1.14109	0.616863	0.743906	0.966596
1	Nup43	0	1.30867	-1.22102	1.49805	0.395552	1.40566	2.16327	0.960951	0.408714	2.24837	0.933285
1	Cfap43	0	1.53731	2.42447	3.57396	2.94854	2.01489	3.02099	2.55144	2.95002	1.36004	2.62648
1	AW551984	0	2.7901	2.86695	3.26775	3.10842	3.41437	3.8336	3.32767	2.97254	2.5066	2.75939
1	Sncg	0	3.07869	1.00169	2.51068	2.7487	2.35481	2.64747	2.77647	1.72969	2.65304	3.47524
1	Nexn	0	-0.50282	-0.52838	-1.126	-0.30554	-0.13496	0.853988	0.554699	0.97153	2.57602	0.411534
1	Ttc21a	0	0.903648	1.81877	3.26845	3.02764	2.48596	2.80232	2.75818	2.62557	2.55789	2.92716
1	Gabrq	0	2.87171	2.78045	3.26163	3.60229	3.08685	3.64377	3.0034	2.93796	2.12382	2.54011
1	Scara5	0	1.17557	3.34252	3.03316	2.27435	1.50703	1.95233	2.46335	0.984712	1.61752	0.780882
1	Slc2a12	0	0.99863	2.59491	2.28771	1.62539	1.16652	2.5297	3.22163	2.45367	1.69882	3.28752
1	Abca4	0	-1.49844	1.05032	0.637709	1.48081	0.142615	1.02117	2.23594	1.29004	1.32437	1.49247
1	Folr1	0	0.074032	1.13716	1.55688	2.3598	0.553827	1.69079	2.54949	2.43429	1.55332	2.89356
1	Asb4	0	3.10091	0.915848	2.56481	3.03066	1.76893	3.07403	2.7565	2.01653	2.0258	2.94349
1	Fam183b	0	3.1558	1.36099	3.41179	3.07472	1.70136	2.50883	1.75148	1.9154	2.25752	3.02436
1	Fzd5	0	0.448826	-0.05814	0.216647	1.02678	1.15676	2.29723	2.52811	2.25931	2.0996	1.95006
1	Gng5	0	1.25975	-0.57282	0.606797	0.708185	1.458	1.39704	1.31635	1.81764	3.17358	1.85371
1	Cdkn1c	0	0.442543	0.147157	0.394406	0.866329	0.271515	1.78366	1.70328	1.72104	2.04307	3.12961
1	Mdfic	0	0.3741	1.2888	1.78424	1.17071	0.997219	2.86303	2.86322	2.52528	1.65208	2.71603
1	Frem2	0	-2.78426	-2.07109	-1.19381	-1.00438	-1.93425	-0.3202	-1.33019	0.029409	0.438584	-1.27673
1	Ankrd37	0	-0.31127	1.46692	2.77444	0.689006	1.69977	1.49875	2.03802	1.49949	2.66269	2.21523
1	1500012F(	0	0.371358	-0.31671	0.591538	0.714737	0.113012	2.47915	1.39738	1.60532	2.38666	2.10418
1	Cd24a	0	0.227897	-0.2474	0.919602	3.1951	1.47127	2.00828	1.21942	0.650877	0.439205	0.413003
1	Myb	0	-0.43147	2.21481	1.26089	1.65937	0.781138	1.67852	1.61926	2.06294	0.110153	2.66883

1	Gstt3	0	1.30453	1.23858	0.974063	0.838206	2.92669	2.10065	2.74925	1.85946	3.07807	2.63369
1	Iigp1	0	-1.2759	0.822675	-0.09192	-0.5627	1.27136	1.18961	1.93686	1.34705	1.61171	0.921124
1	Lrp2	0	1.43205	2.52393	3.00808	3.00731	2.37073	3.96975	2.06239	2.53808	2.33396	2.26199
1	Cldn2	0	-0.31809	-0.01879	0.92615	1.47107	0.759484	0.774244	2.88264	1.62355	2.19347	1.79985
1	Serpinb1b	0	3.04396	1.81224	1.65783	2.86711	2.6598	2.60951	2.32814	3.12347	2.23307	3.83108
1	Mboat1	0	0.440193	-0.32478	-0.57613	0.782596	1.63279	0.139037	1.94452	1.6458	2.41522	1.39174
1	3110001I2	0	1.21438	2.34739	2.19746	2.78178	2.86269	2.52988	1.95993	2.31284	3.59841	3.35695
1	Klk6	0	0.569308	0.6058	0.446282	0.526399	1.39711	-0.13688	1.86888	1.7922	2.87074	2.39961
1	Baiap3	0	2.80739	2.35563	2.88931	1.86482	2.05482	3.41802	3.6516	3.18274	2.75674	2.94372
1	Hcrtr2	0	-1.15442	0.6848	0.162232	0.983044	0.669143	1.93456	0.593827	2.0116	1.61137	2.09232
1	Ccdc180	0	0.148237	-0.39241	2.6141	2.30205	0.494995	1.72232	0.908189	-0.09044	1.11576	0.430047
1	Clk1	0	-0.7149	1.01738	1.76233	0.883428	1.59486	2.26687	0.357404	2.06334	2.45761	1.53527
1	Pter	0	1.05557	0.63813	1.44781	1.06339	2.24077	2.16157	2.6337	1.14271	1.71097	3.57276
1	Maats1	0	2.10446	0.285706	2.19056	3.09957	0.948167	2.80805	2.29643	2.28833	2.28762	2.12357
1	Parp12	0	1.42603	2.17408	2.01401	1.78082	3.74249	3.21105	2.71988	2.24653	2.8444	2.75416
1	Slc14a2	0	0.158578	1.56386	2.73322	2.38945	1.77523	2.65364	2.39463	2.77124	2.40315	2.60538
1	Scn9a	0	2.43583	2.41821	2.88311	3.27156	3.01251	3.72611	2.35755	2.51086	1.96105	1.44182
1	Gm15706	0	-0.88595	-0.94682	0.061985	-0.36473	1.48949	0.244243	0.770207	0.576451	2.33717	-0.47932
1	Postn	0	0.162592	-0.59043	0.161437	2.4457	1.18455	2.50134	0.617828	0.986064	0.934324	-0.09323
1	Sytl4	0	2.71681	2.44271	3.36426	3.33863	2.5871	3.40468	1.95469	1.83075	1.48926	2.39875
1	Tagln	0	0.705209	0.380562	-0.29061	0.431948	0.524583	1.85723	2.23996	1.98312	2.37129	2.16916
1	Irs4	0	2.60292	2.76955	2.9549	3.31297	2.53771	3.92458	3.03853	2.93213	1.99906	2.19385
1	Ppap2c	0	1.92047	0.026281	2.27887	1.33628	0.648116	1.30229	2.40906	2.48969	2.11427	2.87616
1	1700003M	0	1.09695	-0.04031	1.34404	2.11162	1.15087	1.44638	1.75758	2.00589	3.56267	1.0417
1	Zfp677	0	0.770618	1.20472	0.672969	2.71039	3.17066	1.72337	2.04973	2.3391	2.4828	2.53819
1	Six3os1	0	-1.20151	-0.24514	-0.9295	0.666679	-0.22084	2.14828	0.80582	1.05496	1.30966	0.80152
1	Rdh5	0	1.67573	1.34305	3.04279	1.78469	2.55202	2.45203	3.15591	2.62795	3.2896	3.1287
1	Tuft1	0	1.85014	0.929693	0.518528	1.75786	-0.46954	1.35201	3.00253	1.96616	1.70269	1.94602
1	Fbln5	0	1.54041	2.76951	2.55601	3.11203	0.697614	2.78341	2.44423	1.98439	2.74447	2.89505
1	Rgs22	0	2.10723	1.76555	1.90454	4.13356	2.16824	2.95248	2.43159	2.56913	2.38206	2.87386
1	Sema3b	0	0.38651	1.5686	0.143409	1.87863	-0.19526	2.0888	2.71126	1.57016	1.06837	2.20757
1	Casq2	0	-0.67864	0.760923	1.46152	2.43766	0.371989	1.38191	0.857217	1.11921	2.77185	0.636495
1	Zfp185	0	0.272058	2.37685	2.27203	2.68702	0.522755	2.35082	1.90827	2.37456	2.57214	2.26249
1	Steap4	0	0.213741	2.11542	1.75187	3.43084	0.824683	2.42466	2.08578	1.03937	1.60587	1.83043
1	Nek5	0	2.58188	1.02573	3.26104	2.79699	1.01246	2.50151	2.65874	2.64558	1.84006	2.69095

1	Plscr1	0	-0.61178	2.20774	0.836287	0.639016	0.759023	0.067317	1.65985	1.78468	1.25773	2.65739
1	Fam46a	0	0.820754	2.08128	1.14846	1.6194	3.0057	2.39756	1.43816	1.86851	3.20636	2.9807
1	Znf41-ps	0	-0.04328	-0.70808	1.72683	1.63668	1.61719	1.87561	1.69226	2.13975	2.26876	1.33211
1	Dnah10	0	0.780745	1.18907	2.22042	1.90683	0.975545	3.33052	2.52885	2.15379	3.01707	1.77868
1	Iqca	0	2.5349	2.14733	2.7282	3.07062	1.75402	2.4225	2.42918	0.691156	3.21804	2.83746
1	Rn4.5s	0	0.659979	1.24043	1.54341	2.13267	3.40203	1.7075	0.592992	2.06477	2.7473	1.00142
1	Tmem220	0	1.24943	2.94401	3.54297	2.61303	1.53945	2.21473	2.64551	2.92824	2.85784	2.67203
1	Atox1	0	-0.25355	-2.76096	-0.03507	-0.54175	-0.01249	-0.13349	1.11918	-0.00865	0.797651	0.517362
1	Ccdc122	0	1.44757	1.15257	2.02285	0.096009	1.64381	3.00111	1.69708	2.03587	2.84443	2.67551
1	Fbxo36	0	1.39898	2.08826	2.45698	2.06876	1.74102	1.38736	2.68865	1.66695	3.37813	3.58424
1	Spag16	0	1.98891	0.724653	1.93903	2.94595	1.90267	2.54076	2.66338	1.17265	3.04293	2.98057
1	Fam216b	0	0.785518	1.68635	1.16707	2.42321	2.80924	2.68616	2.62361	1.54388	2.96134	2.95837
1	Bok	0	3.13624	2.53563	2.44583	2.2583	1.46348	2.70706	3.34628	2.43707	3.08485	3.56208
1	C4b	0	-0.65043	0.216872	0.309103	1.52013	1.9387	2.43303	1.49758	1.26915	0.770304	2.28001
1	Vkorc1	0	1.71506	-0.09705	1.73761	0.55542	1.4227	1.87949	2.3931	0.926846	2.49699	2.90134
1	Mthfs	0	1.29845	-0.12317	0.943037	1.76976	0.418576	2.29768	1.88137	2.45272	2.76248	2.0398
1	Adgb	0	2.19122	1.52786	3.61791	3.2232	2.33527	3.34728	2.95792	2.57633	2.26546	2.52381
1	Igsf1	0	2.53221	1.03467	3.34392	2.52706	2.59283	1.83753	3.31677	2.92235	1.74401	2.05355
1	1700026D	0	1.39243	1.57997	2.83969	3.44985	1.80906	1.41294	2.88876	1.53622	0.771313	2.3325
1	Gm7120	0	2.03361	1.7044	0.467166	0.247066	1.45406	2.15961	1.76888	1.43861	3.01139	2.92665
1	Dnah6	0	1.2702	2.04071	2.77189	2.94345	1.78198	2.63329	3.74418	2.8338	2.74247	2.19897
1	Tnni1	0	1.57178	2.34978	2.43312	0.729836	0.942553	1.32787	2.43293	-0.07538	2.65033	2.23755
1	AF357355	0	0.072405	1.30522	2.23844	2.37093	2.8621	1.18635	0.43192	1.72503	1.95577	0.319859
1	Apod	0	0.267224	0.243704	0.995339	2.20977	1.0093	3.32172	0.392613	0.410624	1.49493	1.34517
1	Dnali1	0	2.23308	1.15525	2.63992	3.37559	1.84058	3.13225	3.32626	2.68165	2.08293	2.28435
1	Bbox1	0	2.56808	1.1564	3.65522	3.12026	1.66409	1.5459	2.73758	2.13542	2.22052	2.42085
1	Ccl21b	0	3.50962	2.24935	2.58879	2.80894	2.84867	3.27885	2.97572	2.47521	3.403	3.62173
1	Eno4	0	0.582667	1.18984	2.8264	2.54688	1.53646	3.05355	2.35245	2.98848	1.81708	2.02013
1	Nat2	0	2.51729	2.33652	0.526482	2.44596	1.86655	3.25353	2.56529	2.82158	2.77805	2.56036
1	Ebf3	0	3.24671	2.03176	3.00221	2.69085	2.88149	3.41548	2.65517	3.00237	3.42697	3.54252
1	Calcr	0	3.15143	1.33769	3.31247	2.45618	1.24782	3.22642	1.74369	1.75839	2.37246	2.16011
1	Ak7	0	1.49388	0.86	3.00655	2.86575	2.15898	3.29574	2.97123	1.81319	2.1392	1.92636
1	Calml4	0	0.096631	-0.11758	1.64533	2.09013	1.04611	2.469	2.19797	2.37491	1.74855	2.1295
1	S100a11	0	1.3372	1.03715	2.58524	1.92805	1.40961	3.38335	2.89454	2.31217	2.34803	3.00508
1	Adgrv1	0	0.610774	2.72864	3.07403	1.85709	1.72404	2.41922	2.39632	0.852683	2.73609	2.46427

1	Ctxn2	0	2.56209	1.36391	1.90157	2.11929	2.26181	2.5161	2.24771	2.16832	3.63456	3.63996
1	Mlf1	0	2.22692	2.32713	1.78472	3.43007	3.12404	2.70035	1.57329	1.75616	3.19068	3.13968
1	Plcb2	0	1.7075	0.206178	1.96395	1.45189	1.25718	3.38458	2.88465	2.13906	1.38037	1.88125
1	Aldh3b1	0	1.71297	1.19154	0.239541	0.763616	0.947742	1.93335	2.75838	3.07344	2.39323	1.87752
1	Mmp11	0	1.6589	0.63097	0.635027	1.93009	2.13694	2.56644	2.59382	2.17941	2.73676	3.08776
1	Pabpc5	0	2.30863	3.57597	2.28027	3.2914	1.59337	3.24384	2.82102	2.86773	1.87861	2.49691
1	Spata18	0	2.63083	0.975442	3.15707	3.31818	2.37429	2.93223	3.01933	2.23189	2.69789	2.35908
1	Cdhr3	0	1.25166	1.5253	3.61964	3.1754	2.68735	2.68662	2.46843	1.92498	1.70522	1.84095
1	Rbm47	0	1.82574	3.09839	1.59461	2.02685	1.75921	2.98602	3.3951	3.01227	2.82786	3.03018
1	Dap	0	3.33023	2.6353	3.34809	2.83369	2.50413	3.28697	3.606	2.16191	3.12182	3.15476
1	Rbpms	0	1.92318	0.209468	1.51256	2.52066	2.54678	2.80332	2.18904	2.51503	1.11708	2.76329
1	Steap1	0	0.798484	1.91943	3.08754	2.94154	1.67616	2.29884	2.94811	2.93361	2.53939	2.73976
1	2610305D	0	1.10836	2.44293	2.62861	3.09528	2.57189	2.83619	2.6129	3.15758	3.00484	1.37404
1	Sntn	0	1.07957	-0.07831	1.89396	2.7567	2.543	2.07046	1.54639	2.27183	2.78729	1.86699
1	Ccdc153	0	1.70638	0.458801	2.60292	2.35477	1.35443	1.64978	1.4482	1.35072	2.97933	3.24924
1	Wdr63	0	1.59193	0.556537	1.15897	3.01614	2.67903	2.29531	2.69313	2.60041	2.77454	1.67734
1	Ddc	0	1.31634	1.51496	3.2293	2.98035	0.784372	2.51136	0.784075	0.828803	1.684	1.77925
1	Lhfpl5	0	1.90788	0.632384	2.51327	2.32009	0.795087	1.80706	2.35091	1.59189	2.70819	3.358
1	Ngb	0	1.82745	1.33077	2.3695	2.84945	0.743269	2.5592	2.30285	1.99466	1.96604	3.64163
1	Cartpt	0	0.437208	0.158116	0.23846	0.703206	-0.28312	0.526606	1.06679	2.14687	3.04176	1.40899
1	Rpl37rt	0	0.980061	0.052041	0.135425	1.65324	3.03771	0.590787	0.112281	-0.16707	1.80496	0.437195
1	Lrrc9	0	0.755321	2.26396	0.316289	2.92136	2.37984	2.20098	2.88841	1.32935	1.16051	1.64917
1	B3gnt9	0	0.67907	1.42633	0.220916	1.59205	1.9747	-0.43526	1.34233	1.35585	1.66474	3.09673
1	Pgr15l	0	2.46799	1.30006	2.11273	3.46201	2.4953	2.55861	2.95247	1.34161	1.91998	0.877387
1	Dynlrb2	0	3.01972	1.97211	2.76612	3.16951	2.59259	3.08872	3.12556	3.29972	3.59375	3.29625
1	Zfp429	0	0.294709	1.89143	2.61768	1.7985	2.92441	1.5845	2.22405	1.79652	3.28299	2.24019
1	Cfap57	0	2.7501	3.63216	2.76072	2.42266	2.87579	3.27495	3.25379	3.32968	3.23517	3.44566
1	Spef2	0	1.45993	2.04543	3.63643	1.81936	2.2715	3.5189	2.55597	2.52345	2.87371	2.26511
1	Hydin	0	1.36042	1.67684	3.81512	2.50168	2.49353	3.00371	2.52964	1.61728	2.75412	2.19958
1	Iqck	0	0.832461	2.83559	2.77408	3.27043	2.62168	1.85995	1.32185	1.94843	2.01554	2.93388
1	Upp1	0	1.40877	0.689039	0.683072	2.23399	2.27961	1.30173	3.0609	1.27296	1.69099	3.19208
1	Hdc	0	2.30769	1.45737	1.76068	3.01627	1.68385	3.5081	0.694279	1.63921	2.16034	2.63502
1	Gm2506	0	-0.29511	0.096776	-0.03985	1.59357	1.43079	0.6345	2.10919	2.5178	2.02832	1.43132
1	Cfap70	0	3.04795	1.28391	2.73619	3.45232	3.01451	2.31492	2.90628	2.38516	1.71216	2.92421
1	Cdr1	0	2.10445	2.82141	2.35159	2.65428	2.76292	3.79816	1.19051	2.67227	2.22432	2.96569

1	Erich2	0	2.09852	2.65608	1.49315	3.0184	2.38004	3.43153	2.9518	1.74445	3.46077	2.20218
1	AF357425	0	-0.03383	1.8206	2.19371	2.08129	2.01065	0.977485	0.006543	1.21052	2.90106	1.30606
1	Gm3258	0	2.5838	1.4227	2.77071	2.60881	0.355135	2.69888	2.148	3.03202	2.02346	2.2832
1	Tmem254a	0	-0.19701	-0.32389	1.96384	1.48648	0.454504	1.79332	1.87954	2.47916	1.11947	0.133878
1	Gpr50	0	2.87669	2.23158	2.86875	2.72613	2.20535	3.89539	3.3564	3.15895	2.15145	2.77696
1	4932438H	0	1.07903	2.06566	2.99927	2.38083	2.15457	2.85747	2.22609	2.59269	3.79568	1.91717
1	Lrrc23	0	3.02428	2.29587	3.10916	3.72167	2.18569	3.29055	1.91027	2.3698	2.78898	1.80041
1	Apobec1	0	0.546727	0.264935	-0.10715	0.928136	1.82102	2.92581	1.36752	1.60628	1.92212	2.39055
2	Drd1	0	-1.41282	-0.83483	-1.50043	-1.21425	-1.39051	0.698585	0.631095	0.719466	0.715469	0.700155
2	Rxrg	0	-1.31102	-1.20281	-1.58148	-1.16705	-1.35024	0.727542	0.71184	0.523711	0.671446	0.634932
2	Sh3rf2	0	-1.30078	-0.96019	-1.74985	-0.87538	-1.23971	0.579423	0.66186	0.897505	0.859629	0.55258
2	Pde10a	0	-1.38285	-0.69682	-1.43705	-1.08145	-1.51064	0.946982	0.832234	0.825815	0.531955	0.377925
2	Gpr37	0	-0.41681	-0.48459	-0.66283	-0.21455	0.689018	0.504746	1.71596	1.65377	1.56273	1.97081
2	Rasgrp2	0	-0.17819	-0.44313	-1.28665	-1.50071	-1.0788	0.441125	1.01705	0.884929	1.22557	1.09044
2	Tac1	0	-0.74682	-0.69114	-0.79783	-0.5895	-0.74183	1.08903	1.22063	1.13969	1.46635	1.41385
2	Gpr88	0	-1.47102	-0.99948	-1.78758	-1.36662	-1.49201	0.477046	0.487901	0.466964	0.722919	0.444047
2	Adora2a	0	-1.46729	-0.89377	-1.64628	-1.48812	-1.74871	0.333796	0.672882	0.450137	0.568806	0.354681
2	Rarb	0	-1.29947	-1.07932	-1.31996	-1.1699	-1.41947	0.6835	0.67627	0.652058	0.885871	0.728283
2	Drd2	0	-1.34642	-0.5241	-1.60327	-1.13355	-1.49333	0.615305	0.745561	0.807686	0.603929	0.707127
2	Stk26	0	-0.50581	-0.64943	-0.83231	-1.06177	-0.51982	0.72812	0.970887	1.39179	1.70059	1.21198
2	Pllp	0	-0.22386	-0.6852	-0.71518	-0.44761	0.490725	0.733021	1.79505	1.33373	1.73129	1.7285
2	Dach1	0	-1.44911	-0.82115	-1.63536	-0.92823	-0.96365	0.906222	0.604476	0.908751	0.805475	0.65811
2	Rgs9	0	-1.489	-0.56253	-1.69448	-1.23577	-1.84006	0.783153	0.505761	0.536456	0.534349	0.057699
2	Pthlh	0	-1.7999	-1.5643	-1.56157	-0.76503	-0.70161	0.316373	0.226253	0.852658	0.572885	0.862566
2	Ankrd63	0	-0.38759	-0.96211	-2.24386	-1.45464	-1.63501	0.189049	0.609145	0.550731	0.462753	0.289875
2	Slc35d3	0	-1.62925	-1.2093	-1.85853	-1.33714	-1.03461	0.483618	0.710268	0.411215	0.576387	0.400922
2	Pde1b	0	-1.48891	-0.79117	-1.72804	-1.36058	-1.50348	0.276455	0.75843	0.712534	0.450871	0.517225
2	Fgfrl1	0	-1.34596	-2.00232	-2.55251	-0.12949	0.436901	0.024793	0.106154	-0.38001	0.34553	-0.07821
2	Tek	0	-1.83822	-1.83625	-2.53617	-0.80731	-0.11466	0.401997	0.105376	0.231966	-0.09054	-0.28302
2	Ido1	0	-1.13471	-1.39628	-1.54637	-1.22484	-0.4694	0.52026	0.741798	0.548769	1.15643	0.756774
2	Scn4b	0	-1.0835	-0.53709	-1.41474	-1.48089	-1.64672	0.498928	0.740548	0.726911	0.838313	0.560658
2	2810459M	0	-1.4079	-1.84945	-1.54556	0.083465	0.298351	0.465578	0.917371	0.477285	0.481318	0.855055
2	Abca8a	0	0.113972	0.440578	-0.73516	0.20531	0.618938	-0.09175	0.779245	1.51795	1.41534	2.93543
2	Gpr6	0	-1.58126	-0.98958	-1.62185	-1.47299	-1.81164	0.240356	0.550444	0.535785	0.381259	0.457993
2	Itga5	0	-1.81085	-1.33956	-2.89416	-1.9054	-1.68383	-0.01184	-0.49298	0.072369	-0.09945	-0.59671

2	H2-Aa	0	-0.13131	-0.34761	-1.88494	-0.10014	0.264935	0.082648	1.29016	1.26234	1.31261	1.47923
2	Asic4	0	-1.03774	-0.69014	-1.23586	-1.83875	-2.45879	0.013624	0.624935	0.169175	0.333813	0.269995
2	Ppp1r1b	0	-1.32385	-0.75882	-1.35097	-1.53862	-1.94674	0.431458	0.722274	0.383162	0.450769	0.588359
2	Cdc42ep2	0	-1.67854	-2.05181	-0.48903	-1.47295	-0.94756	-0.14889	0.52299	-0.26938	0.926324	0.759776
2	Serpinb1a	0	-0.61735	-0.99561	-0.27667	-0.76267	0.416677	0.303659	1.18873	1.53363	1.27192	1.94424
2	Gpr52	0	-2.08614	-0.76614	-0.59063	-0.78857	-1.20595	1.0058	0.596541	0.984758	0.52159	0.558292
2	Cd4	0	-1.59758	-0.62302	-1.54719	-1.73777	-1.69964	0.289616	0.780697	0.338444	0.459953	0.268879
2	Cckbr	0	-2.65481	-2.50507	-1.25033	-1.4279	-0.30665	-0.8094	-0.39087	0.077701	0.032893	-0.05047
2	Arpp21	0	-2.43138	-1.6312	-2.26124	-1.69412	-1.43678	0.138129	-0.17554	0.093114	-0.14866	-0.279
2	Bche	0	-1.08042	-0.16495	-1.14613	-0.58607	0.294277	1.03617	1.26718	1.14614	1.38176	1.55007
2	Clspn	0	-1.6722	-1.28565	-1.80901	-1.9247	-1.17812	0.441178	0.024045	0.283545	0.677559	0.170012
2	Slc5a7	0	-0.93364	-0.68451	-0.87264	-0.10512	0.211431	1.68829	1.21617	1.28749	1.04386	1.60298
2	Rpe65	0	0.226287	0.156333	0.450806	-1.62483	0.888013	-0.07778	0.840753	1.80774	1.4945	1.82729
2	Opalin	0	-0.63135	-0.80492	-1.2654	-0.76698	0.065117	0.179252	1.28772	1.19815	1.30633	1.52498
2	Penk	0	-1.67261	-1.42499	-2.1251	-1.21984	-1.40154	0.298965	0.367083	0.216559	0.63687	0.12879
2	Gprin3	0	-1.72467	-0.27793	-0.83577	-0.87944	-1.20833	1.44395	0.50311	1.095	0.505275	0.536909
2	Ogn	0	-0.22473	-0.30282	-1.548	-0.81787	0.536465	1.54756	0.990455	1.0531	1.11092	1.44661
2	Gadd45b	0	1.44855	-0.84112	-1.29667	-1.88618	-0.83367	-0.42562	0.242296	-0.0915	0.223801	1.19509
2	Gng11	0	-0.63633	-0.80152	-0.58569	-1.03857	0.589023	-0.27702	0.682583	0.659369	2.07921	1.52361
2	Ier5l	0	1.02405	-1.58123	-1.51739	-2.03209	-1.20025	-0.73073	-0.07794	-0.41783	-0.79837	0.958647
2	Pcdhga8	0	-1.1571	-0.88443	-0.27743	-1.46708	-0.3682	-0.2537	0.603982	1.10317	0.171467	1.96655
2	Actn2	0	-1.78824	-1.02992	-1.90233	-1.81257	-2.04406	0.350035	0.268704	0.185778	0.131207	-0.23803
2	Rem2	0	-0.13981	-0.91083	-1.25036	-1.55644	-1.09842	0.311027	1.00822	1.03949	0.852599	1.04056
2	Insc	0	-1.2882	-2.17308	-1.7319	-1.0587	-0.57949	-0.12632	0.292429	0.448698	0.602162	0.785321
2	Egr1	0	-1.52052	-0.58618	-1.89891	-0.44616	0.432249	0.355724	0.650025	0.772076	0.770003	1.27209
2	Slc10a4	0	-1.26609	-0.13308	-0.9122	-0.83411	-0.35496	0.459904	1.50717	0.592438	0.996048	1.79144
2	Serpina9	0	-1.02191	-0.87079	-2.06788	-1.2844	-2.02785	0.226929	0.353312	0.332757	0.565231	0.42139
2	Col6a2	0	-1.81543	-0.09668	-1.76449	-2.7284	-2.3214	-0.21478	-0.71069	0.098973	-1.32544	-0.54854
2	H2-Q1	0	-0.18883	-1.3378	-1.06466	-1.34392	-0.6907	0.279769	0.9101	0.89134	1.74596	0.202156
2	Lrrc10b	0	-1.18143	0.164876	-1.33658	-1.33663	-1.86602	0.572416	1.06221	0.445874	0.244471	0.644596
2	Gng7	0	-1.79844	-0.95522	-1.88647	-1.79618	-1.98505	0.217877	0.4224	0.201718	0.014133	0.045115
2	Klf10	0	0.553362	-1.28595	-1.78775	-0.88464	0.269823	-0.88954	-0.39141	0.119177	1.00875	1.5159
2	2810001G	0	0.241096	-1.05417	-0.36974	-0.07999	-0.17409	1.31724	0.759383	0.647837	1.97356	2.17102
2	Slc22a8	0	-2.06829	-2.62393	-2.35195	-1.42668	-0.90333	-1.46519	-0.26372	0.119909	-0.03569	-0.46941
2	Mob3b	0	-2.5617	-2.17062	-1.83656	-0.61877	-0.03946	-0.40424	-0.36347	0.057673	0.214654	0.031626

2	Aebp1	0	-1.04034	-0.93344	-1.23896	-2.11212	-1.3555	-0.09306	0.835365	0.765077	0.113705	0.764723
2	Ano2	0	-2.19599	-0.31968	-0.59312	-1.18939	-1.50748	0.216506	0.816955	0.707565	0.192344	0.801234
2	Gas1	0	-1.09938	-1.85955	-1.35128	-1.79792	-0.04522	0.296148	0.530135	0.37513	0.327621	0.942557
2	Egr4	0	-0.83054	-0.31147	-1.86823	-0.77857	-0.05967	0.423863	1.10638	0.449319	0.556227	1.79423
2	Sertad1	0	0.231704	-1.79949	-1.71769	-1.92684	-0.87013	-0.41634	-0.04892	-0.22031	0.082812	1.30087
2	Thbs4	0	0.36472	1.07139	1.33484	-1.77528	-1.64516	0.203254	0.917819	0.55589	0.050067	0.111715
2	Gm715	0	1.07134	0.067511	-0.41198	-1.33475	-0.04878	0.826688	1.98233	1.41566	1.75617	0.706229
2	Tcea3	0	-0.79296	-0.564	-1.73855	0.490282	0.624263	0.943122	1.47222	0.963594	0.73033	1.42449
2	Itm2a	0	-1.18671	-1.7325	-2.29253	-0.80012	0.492957	-0.33981	0.386343	0.46102	0.593976	0.351854
2	Tmem51	0	-0.02235	-1.59572	-0.9156	-0.17275	-1.27032	0.616049	1.58149	0.629982	0.558383	1.18937
2	Thbs1	0	0.442566	0.448972	-0.68461	-0.11622	-0.05808	1.88019	1.66553	1.84818	1.77679	1.97185
2	Egr2	0	-1.78164	-0.57652	-1.60528	-0.28692	0.513391	0.290405	0.577102	0.604453	0.893477	1.41055
2	Gata3	0	0.182787	0.298915	-0.76661	-1.1753	-0.23678	1.31107	1.01931	1.66714	1.65251	1.51844
2	Fam78a	0	0.223957	-0.26146	-2.38951	-1.82951	-1.64603	-2.1575	-1.22141	-0.53975	-0.19632	0.35514
2	Ntng2	0	-1.3167	-0.55364	-2.36671	-3.4352	-1.954	-2.50915	-1.66375	-2.38853	-2.82137	-2.30032
2	Asb11	0	-1.43246	-0.61364	-0.58448	-0.49002	-0.96497	0.826263	0.292527	0.30126	1.27254	1.89826
2	Klf4	0	0.718727	-1.51144	-2.62003	-0.86973	-1.18821	-1.4216	-1.35424	-1.0377	-0.22798	0.615211
2	Rab7b	0	-1.54936	-2.12474	-2.46403	-1.79989	-0.27642	0.314251	-0.50483	-0.83896	0.480591	-0.56381
2	C030029H	0	-0.18785	-0.95803	-1.33455	-0.93237	0.468483	-1.06296	0.192339	0.18524	1.9341	1.12462
2	ND3	0	0.668589	-0.61057	-0.45337	-0.29132	0.378461	1.02954	0.979254	0.901495	2.48728	2.10594
2	Dusp10	0	-0.5794	-1.1448	-2.96196	-0.26124	-1.2367	0.611175	0.652754	-0.2541	-0.62724	-0.26381
2	Baz1a	0	-1.31932	-2.29913	-1.08583	-0.9636	-1.01016	0.390649	-1.38633	0.578721	0.719603	0.402162
2	Slc22a6	0	-1.6108	-2.10314	-2.44519	-1.89461	-1.64145	-0.78926	-0.00836	0.054334	-0.66316	0.364956
2	Lrrc75a	0	0.400017	-1.10486	-2.59255	-0.59675	0.384214	-0.2806	-0.14366	0.368312	0.998087	0.694341
2	Olfr287	0	-0.63257	0.22535	-1.12403	-3.34587	-0.69367	0.199314	-0.24145	-0.38666	-0.49746	-0.04198
2	Fos	0	-0.33056	-0.2658	-1.73579	-0.21943	0.744643	0.395546	0.944031	0.671875	1.63374	1.79989
2	Fxyd1	0	0.129112	-0.73095	-0.08098	-0.42653	0.761603	0.457077	1.67005	0.372895	1.25382	2.71647
2	Nr4a1	0	-0.6078	-0.09013	-1.43159	-0.40593	0.722126	0.582254	1.0585	0.8371	1.60037	1.94295
2	Dmkn	0	0.922968	0.14634	0.325516	-0.83066	0.34315	1.47419	1.29867	0.586843	2.23959	2.53463
2	Rtn4rl2	0	0.874019	-0.4916	-2.05929	-1.32674	-2.44057	-1.56074	-0.62358	-0.98215	-1.99295	-0.30439
2	Slc9a2	0	-1.55606	-0.73965	-2.95616	-1.85765	-1.95714	-0.13065	-0.79613	-0.5945	0.201405	-0.12759
2	Dact2	0	-1.30525	-2.0685	-2.17507	-3.03303	-2.04086	-1.28034	0.081753	-0.78482	-1.0738	-0.20888
2	Bfsp2	0	0.507349	-0.71927	-1.24286	-1.55093	-0.07182	0.234398	0.495276	1.62431	1.1416	1.11426
2	Myoc	0	-1.42273	-1.75905	-2.48668	-3.08946	-0.81725	-2.09688	-0.22585	-0.46628	-1.48626	-0.45019
2	Cyp2s1	0	0.373959	0.744431	-0.35535	-0.59101	-0.85252	0.748323	1.58058	1.48834	2.38841	0.995605

2	Pcdhb2	0	-0.03546	1.22053	0.9242	-1.1115	-0.36745	1.05892	0.367938	1.55724	0.56829	2.52357
2	Klf2	0	0.331834	-2.1405	-2.9382	-1.90729	-1.07144	-1.50926	-1.2875	-1.71473	-1.118	-0.00907
2	Trib2	0	-2.80044	-0.19256	-2.38781	0.064489	0.308912	-0.33314	-0.63733	-0.5299	-0.40815	-0.30242
2	Osr1	0	-2.10229	-1.9524	-1.88248	-2.47045	-1.07304	0.298352	-0.09552	-0.61632	-1.43713	0.04728
2	TrnV	0	0.376085	-0.95964	-0.51847	-0.19836	0.270649	1.25929	0.683795	0.501623	1.8253	2.41362
2	St6galnac5	0	-2.04703	-2.25751	-4.10515	-2.40027	-2.61974	-2.14085	-1.80609	-1.41213	-2.48649	-1.40206
2	Pcsk9	0	-1.21449	-0.97548	-1.74881	-3.54919	-1.93629	-1.32471	-0.37505	-1.273	-0.24914	-0.46342
2	Rprml	0	-0.53485	-0.34104	-0.91183	-2.25361	-2.75322	-1.46716	-1.42839	-2.75126	-2.46173	-0.7524
2	Rtn4r	0	-0.35429	-2.04727	-1.26954	-2.83033	-3.02413	-2.42674	-0.80151	-1.04878	-1.88719	-0.95803
2	Ptgs2	0	-0.79426	2.30847	-0.23602	1.04121	0.181673	0.360182	0.232714	1.34191	0.381758	2.3158
2	Upb1	0	0.30796	0.685643	-0.44213	-0.32239	-1.13534	1.77449	1.65156	1.66167	1.591	0.681504
2	Adamts8	0	-0.68417	-2.3049	-2.74877	-0.29185	-0.10243	-1.44527	0.42442	-0.20468	-0.94849	-1.36196
2	Ppic	0	-3.01662	-0.46215	-2.18432	-2.59707	-1.79971	-0.30285	-0.844	-0.49811	-1.08663	-1.02082
2	Hs3st2	0	0.201091	-1.17074	-3.39353	-1.14429	-0.18012	-0.98852	0.032986	-0.48796	-0.74618	-1.21117
2	Atp8b1	0	-2.10724	-2.35203	-1.09679	-0.13277	-0.21157	-0.7163	-0.27739	0.728047	-0.09837	0.682135
2	Arhgap33	0	-1.7162	-0.95815	-2.61311	-3.12922	-3.25421	-2.11478	-1.58203	-1.90236	-3.17485	-2.28376
2	Clec11a	0	-1.47583	-2.61729	-2.27582	-1.83803	-2.69068	-3.546	-3.44383	-2.2403	-1.62638	-1.51171
2	Adamtsl3	0	-2.51483	-2.13013	-3.04204	-2.61083	-1.60844	-0.81732	-0.8674	-0.93973	-0.4928	-0.7571
2	Bmp6	0	1.71303	1.42221	0.892137	0.050524	1.10786	1.46473	2.17246	2.95012	0.636008	2.88014
2	Ushbp1	0	-0.47708	-2.97855	-2.04158	0.723654	-0.61276	-0.40959	-0.74538	-0.56114	-0.16311	-0.49818
2	C030034I2	0	-0.84614	-0.37974	-1.98976	-3.26657	-1.95335	-0.23283	-0.51685	-0.35442	-0.51177	-0.69243
2	Slc2a5	0	-0.55929	-0.62505	-2.34084	-0.68574	0.355535	-2.00413	0.777482	-0.33861	0.748608	-0.12406
2	Fosb	0	1.20368	1.66608	-0.79704	0.159187	-0.13698	0.134905	0.254139	1.63079	0.898392	2.61455
2	Irak3	0	-0.01538	2.59722	-0.26753	-0.9157	0.188241	-0.40506	1.08553	1.37106	0.245457	1.15526
2	Kcnk4	0	-0.29733	-0.99846	-1.34904	-1.56551	-2.70217	-1.14559	0.046497	-0.35402	-2.4608	0.230657
2	Relb	0	-0.08247	-0.38943	-2.53464	-1.75864	-1.94205	-0.77065	-0.17032	-0.16532	-0.6719	0.859214
2	Prrt1	0	-0.05749	0.118462	-1.56864	-1.72696	-2.2069	-1.15089	-0.21539	-1.311	-2.95161	-0.73922
2	Krt80	0	0.318498	-0.17313	-0.9501	-2.6746	-2.43762	-0.30463	-0.4598	-0.40752	0.194037	-1.04736
2	Cd74	0	-0.58731	-0.44342	-1.27325	-1.19618	0.122419	-0.81617	1.84395	1.25427	0.545441	0.675184
2	Npas4	0	-1.36401	-0.74934	-1.89902	-1.02729	-0.10439	0.457674	0.894659	0.843941	1.00289	0.587435
2	She	0	-2.09953	-2.69483	-2.90369	-0.89097	-0.82136	-1.09426	0.021427	-0.39247	-0.7525	-1.35412
2	Dbp	0	-0.91767	-1.36044	-1.05711	-2.41777	-1.14593	-1.60286	0.482949	-1.12831	-2.83056	-0.00664
2	Rpl14-ps1	0	-2.63237	-1.7484	0.044773	-2.64315	-2.43133	-2.65667	-1.36664	-1.13984	-1.11381	-1.03575
2	Grp	0	-1.91394	-2.82605	-2.40128	-3.28574	-3.1637	-2.24806	-1.82513	-1.69926	-1.8033	-0.61252
2	Lum	0	-1.97449	-1.91889	-2.11987	-2.49413	-0.78132	-0.07278	0.200183	-0.88536	-0.2998	-0.05074

2	Acot5	0	-1.55736	-0.19739	-0.80486	-1.95629	-1.31355	-2.49377	-1.43015	-0.66561	-2.73259	0.328981
2	Pak6	0	-2.78302	-2.09216	-2.7349	-2.23181	-2.79455	-2.92366	-1.85725	-1.44031	-3.85503	-2.8073
2	Nr4a2	0	-2.32215	-2.03602	-3.14257	-2.94795	-1.82147	-1.21477	-0.83144	-1.63912	-1.26872	-0.32222
2	Myom3	0	-3.46334	-2.64067	-2.53196	-1.889	-1.351	-1.36898	-1.89213	-1.05672	-0.38858	-1.59682
2	Slc22a3	0	-2.80601	-1.3858	-1.72393	-1.93056	-1.60469	-0.20268	0.04361	-0.02794	-0.00485	-0.51138
2	Trpv4	0	1.28578	0.79444	-0.08016	0.501292	-1.03747	0.272518	1.99551	1.94848	1.53934	1.95027
2	Nr2f6	0	0.191134	-0.208	-1.22822	-2.65098	-2.22848	-0.71201	0.017621	-0.91652	-1.25399	0.41902
2	Snurf	0	1.19408	0.610924	0.000243	-0.02909	0.335938	0.119845	1.25657	1.18617	2.42173	2.87386
2	Cyr61	0	-1.16914	-2.65531	-3.2704	-2.70318	-2.44696	-1.91109	-1.14701	-1.44711	-0.86513	-0.81666
2	Foxq1	0	0.301132	-0.68145	-0.18424	-0.02188	0.300654	1.06471	1.1297	1.43003	1.60227	2.77735
2	Nr4a3	0	-1.58151	-0.50514	-1.75597	-0.20352	0.202591	-0.30242	-0.20661	0.172347	0.27502	2.03841
2	Arhgef19	0	-0.70679	-2.04844	-2.85555	-2.12669	-3.08515	-0.85981	-0.71369	-1.95538	-1.69771	-0.603
2	Phlda3	0	1.74171	1.23493	0.694795	-0.0932	-0.08293	0.819453	2.66572	1.59559	1.52285	2.66799
2	Zdhhc23	0	-3.24898	-1.46808	-2.55696	-2.06612	-3.00214	-0.86891	-1.66287	-1.33744	-2.99118	-2.23028
2	H2-Eb1	0	1.19233	-0.28905	0.422337	0.031867	-0.76711	-0.24954	2.04153	1.86015	0.45483	1.96638
2	Icam5	0	-1.1493	-1.00493	-1.3889	-3.59109	-2.99644	-1.42251	-0.95699	-1.47171	-2.15888	-1.20527
2	Cited4	0	-2.3252	-2.9362	-1.76025	-1.23188	-1.8763	-0.48637	-0.29564	-0.61802	-0.64986	0.084408
2	Foxo6	0	1.11349	0.164318	-2.46134	-1.22923	-1.21644	-1.01049	-0.08083	-0.87957	-0.4474	0.609326
2	Frat2	0	-0.57561	-3.25531	-1.24375	-0.27847	-0.87345	-1.16334	-1.60179	-1.15004	0.578623	-0.42866
2	Anpep	0	-3.05367	-2.56946	-2.76774	-2.96365	-3.05852	-1.32143	-1.22957	-1.81505	-2.80923	-2.8515
2	Sphk1	0	-1.55329	-2.61748	-2.50262	-2.46786	-2.84992	-1.91015	-0.79832	-0.32802	-2.53802	-1.20082
2	Hmga1	0	-0.67694	-0.98274	-1.75843	-1.75239	-3.51427	-1.54464	-0.53246	-0.63894	-2.48597	-1.07496
2	Dusp1	0	-0.5112	-0.60775	-2.3671	-1.22872	0.102764	-0.02589	0.407365	0.343199	0.834518	1.2493
2	Sstr2	0	0.280527	-0.9566	-3.20056	-0.8472	-0.5764	-0.99184	0.203189	-0.16867	-0.08309	0.2261
2	Id1	0	-0.31213	-2.93853	-2.26327	-2.13238	-2.5012	-1.83832	-1.86764	-2.49953	-1.49903	-0.35888
2	Ehd2	0	-0.43698	-0.06265	-0.69182	-2.84653	-1.75423	-0.41417	0.178918	0.476707	-1.73671	-0.62284
2	Edn3	0	-2.45839	-3.65207	-2.67579	-1.94425	-0.41752	-1.8193	-1.60467	-1.49783	-1.98226	-1.6104
2	Lin7b	0	-0.06934	-1.07373	-1.79015	-2.59437	-1.41076	-1.32329	0.490127	-0.50551	-0.41102	0.632519
2	Hba-a1	0	-0.90531	-0.37038	-2.96971	-1.7418	-1.77777	-2.06162	-0.97256	-0.17823	-1.98364	0.057542
2	Alas2	0	-1.86409	-0.86664	-3.07685	-1.80748	-0.65504	-1.28245	0.602621	-0.64315	-1.59853	-1.53801
2	Fibcd1	0	-1.30907	-1.21902	-2.39127	-3.20489	-3.31597	-1.20671	-1.64807	-1.72273	-1.42916	-0.65878
2	Fmod	0	-1.42497	-0.49018	-1.87152	-2.66732	-2.01188	0.250123	-0.03663	0.156968	-1.03359	-0.39766
2	Nptx2	0	-0.92641	-1.36253	-3.17164	-1.63022	-2.75367	-3.47016	-2.0149	-1.81101	-2.35662	-1.6837
2	TrnH	0	-0.59267	-2.92644	-0.50709	0.178599	-1.04147	0.469771	-0.55636	-0.6484	-0.30751	0.956858
2	Map3k19	0	-0.55075	-0.0764	-1.21742	-2.16987	-1.69197	-0.83822	-1.09973	-0.60232	-3.24405	-0.07814

3	Map3k6	0	1.38451	2.03175	1.72767	0.835922	0.196294	-0.55116	-0.5366	-0.58882	-0.74618	-0.02618
3	Xdh	0	1.34729	2.84495	2.0008	1.04108	0.715394	0.228304	0.555429	-0.06212	-0.58609	0.214257
3	Usp54	0	0.975295	2.01562	2.06082	0.995185	-0.03031	0.239859	-0.34496	-0.03794	-0.97339	-0.57104
3	Gm4285	0	-0.92204	0.051543	-0.1579	1.72256	1.38439	0.2245	-1.41622	-0.93112	-0.61739	-1.10342
3	Ctla2a	0	1.22236	1.15807	1.76873	0.741402	0.575494	-0.58787	-1.03352	-0.89467	-0.47184	-0.96298
3	F2r	0	1.24489	1.58934	2.01927	2.06356	1.6038	0.30107	0.830153	-0.08989	-0.91871	-0.10568
3	Atp2c2	0	0.500254	1.3573	2.03964	0.680989	-0.40616	-0.25125	-1.17974	-0.2827	-0.39416	-1.22186
3	Osmr	0	0.268285	2.89317	1.49655	1.41713	0.380392	0.573644	-0.32398	-0.0824	-0.47403	0.059699
3	Itgad	0	1.27969	2.22068	2.64868	1.77633	0.326433	0.946762	0.582749	0.526752	-0.64331	0.176681
3	Sdc4	0	1.08756	1.92344	1.72445	0.88495	-0.13602	-0.52167	-0.17097	-0.49451	-1.03057	-0.6122
3	Acer2	0	0.588061	1.91313	2.54224	0.877003	0.554329	-0.54716	-0.34067	-0.47158	-0.32028	0.601752
3	Tead1	0	0.110052	1.93944	2.63101	-0.09099	0.036331	0.533049	-0.1066	0.029406	-0.24998	-0.69893
3	Nde1	0	0.432251	1.255	2.23356	0.340127	-0.5229	-0.56341	-0.65487	-0.54068	-0.82957	-1.06493
3	Synpo2	0	0.38654	0.893423	1.03162	1.23832	0.328042	-0.64179	-0.47505	-1.08798	-1.60204	-1.46116
3	Tnnc1	0	0.419762	-0.91446	-0.08534	0.123728	0.407219	-1.52264	-1.94262	-2.01035	-1.33611	-2.00747
3	Mfsd2a	0	0.86743	1.44691	1.59708	0.406279	-0.90606	-0.59797	-0.72309	-0.78138	-1.092	-0.99441
3	Plin4	0	1.37847	1.7319	1.79917	1.16174	-0.42288	0.571068	-0.46766	-0.54425	-0.76362	-0.54261
3	Vipr2	0	0.583995	0.424174	0.787755	0.324206	0.402148	-1.41075	-1.49213	-1.31906	-1.78264	-1.20665
3	Ccdc3	0	-0.27428	0.370033	1.1725	-0.01472	-0.37613	-1.13358	-1.48682	-1.96603	-1.6971	-1.56446
3	Hif3a	0	1.09705	1.62938	1.31087	0.958816	-0.08135	-0.06796	-0.47851	-1.02289	-1.33979	-0.75184
3	Tfcp2l1	0	1.17679	2.06833	2.52155	0.990498	1.00993	0.86969	-0.12616	-0.13417	-0.6689	-0.09466
3	Abi3bp	0	0.261394	-0.0434	0.180287	0.386219	0.817682	-1.83126	-1.19904	-1.30205	-1.70439	-1.79253
3	Rspo2	0	-2.17266	-2.55695	-3.49958	-2.08379	-0.86753	-2.53949	-2.56369	-2.05134	-3.33758	-2.13486
3	Sgk3	0	0.355579	2.47936	3.2306	1.49291	0.248646	1.00977	0.337094	0.915246	1.20415	0.565576
3	Fam19a4	0	0.237562	0.311455	2.01994	1.88435	1.00867	-0.76694	-0.41314	-0.43962	-0.68218	-0.60986
3	Pla2g3	0	1.18387	2.06884	2.09448	1.39062	-0.00619	0.572599	-0.3742	-0.40454	-0.42831	-0.38539
3	Zfp488	0	0.192107	0.629955	0.757973	0.610785	0.19488	-0.90289	-1.56154	-1.67665	-1.08577	-1.8199
3	Scube1	0	0.004798	-0.19667	-0.58625	-0.55977	-0.88054	-1.85698	-1.77881	-2.16475	-2.30034	-2.71902
3	Acss3	0	0.91665	2.03091	3.24884	1.93185	1.49027	1.34389	0.913792	0.887081	-0.44957	0.974664
3	Grk4	0	0.146106	0.294139	0.443184	0.410478	0.270088	-0.83447	-1.7906	-2.17635	-0.7336	-1.82515
3	Cdh19	0	0.842467	1.79748	2.31727	1.22184	1.01997	0.645269	-0.51333	-0.2445	-0.77883	-0.30072
3	Plce1	0	0.319896	1.51484	2.53817	2.16268	0.301929	1.72675	0.835549	0.651784	-0.71744	0.202565
3	Sstr3	0	0.03779	-1.34994	-1.32865	-1.58863	-1.25532	-2.67474	-2.9679	-2.42856	-1.87584	-2.44905
3	Nmbr	0	0.118433	0.166286	0.64831	0.648382	0.428799	-0.95005	-1.16561	-1.4998	-1.89003	-1.85944
3	Rgsl1	0	0.310575	0.820787	-0.21185	-0.06714	-0.37742	-1.12589	-1.93755	-1.95239	-1.64011	-1.8299

3	Mrgpra6	0	0.068679	0.513732	0.595633	0.357034	0.275049	-1.28187	-1.69978	-1.67984	-1.29068	-1.84802
3	Tmbim7	0	0.270717	0.32361	0.668758	0.093341	-0.19842	-1.71606	-1.78265	-1.6606	-0.95524	-1.97541
3	Cdhr1	0	0.555703	0.229461	0.428533	0.598281	0.808339	-1.41576	-1.45524	-1.41046	-1.53051	-1.37229
3	Tnfrsf10b	0	-0.00045	0.896407	0.709495	0.479374	-0.28159	-1.06555	-1.65901	-1.81427	-0.82282	-1.76058
3	Olfr856-ps	0	-0.01834	0.741622	0.274484	0.481912	0.323512	-1.64435	-1.43334	-1.73739	-0.62012	-1.91712
3	Gabra2	0	-0.86934	-0.54483	0.375648	0.689313	0.531945	-1.39501	-1.82377	-1.68509	-1.55718	-1.89224
3	Ybey	0	0.341348	0.645631	0.530474	0.429995	0.258153	-1.28971	-1.63715	-1.51024	-1.25663	-1.81222
3	Cemip	0	-1.4824	-0.3772	-1.59492	-1.18142	-1.61665	-0.7186	-1.71429	-1.43661	-3.0365	-3.32854
3	Dnah2	0	0.527631	1.29858	2.93283	2.5001	1.29441	2.51281	0.865723	1.14501	0.190791	0.449081
3	Vmn1r58	0	0.227601	0.236437	0.426476	0.536965	0.622996	-1.38714	-1.77003	-1.65137	-0.88714	-1.76832
3	A230057D	0	0.168835	0.077849	1.24898	0.202486	0.100863	-1.1458	-2.00953	-1.20052	-1.34307	-1.57616
3	Il1rapl1	0	-0.22041	1.60586	1.39002	2.47549	1.77389	1.20362	-0.73113	0.792475	0.26789	-0.0859
3	Adamts17	0	0.105816	1.39143	1.09707	0.354692	-0.15301	-0.71312	-1.61025	-0.72787	-1.51405	-1.27161
3	A930013F1	0	0.027562	0.694474	0.401172	0.115822	0.094225	-0.88573	-1.86782	-1.56861	-1.06156	-2.25572
3	Slc43a3	0	0.614606	2.79644	3.01598	1.97005	1.42677	0.885053	0.43172	0.482024	0.804125	0.593528
3	Cplx3	0	-1.13929	-0.7862	-1.58395	-2.39194	-1.76826	-2.94608	-2.40495	-3.02134	-3.16192	-2.0555
3	Nkain3	0	0.241225	0.634024	0.740783	0.308962	0.132524	-1.28996	-1.66069	-1.73286	-0.87239	-1.80165
3	Lgr6	0	1.00578	0.301166	0.384791	1.15537	1.32193	-0.73066	-0.66016	-0.77475	-0.84641	-1.85059
3	Gm17821	0	0.255514	0.525475	0.632462	0.412476	0.335046	-1.15656	-1.69748	-1.62825	-0.93992	-1.91188
3	Cyyr1	0	-1.29634	1.91245	0.968422	-0.32512	-0.21764	-0.18901	-0.39863	-0.57972	-0.76785	-1.75778
3	Adtrp	0	0.261023	0.463782	0.687085	0.118694	-0.18892	-1.44369	-1.53082	-1.83926	-0.77919	-2.11127
3	Vmn1r65	0	0.312131	0.004824	-0.19992	0.066689	-0.69221	-1.42364	-1.9855	-2.11758	-1.28581	-2.43373
3	Miat	0	-0.13508	0.212453	-0.11807	-0.10489	-0.47377	-1.05607	-2.00985	-1.78623	-1.77611	-2.67003
3	9530091C0	0	0.695807	0.747271	0.658447	0.825123	0.11462	-0.82545	-1.57718	-1.08825	-0.34056	-2.01951
3	Cyp1b1	0	0.754848	2.40682	2.32828	1.06257	0.624605	0.864338	-0.57774	0.076164	-0.56655	0.287845
3	Cpm	0	1.42461	2.41431	2.72715	2.30082	1.691	0.504866	0.382076	0.557293	0.055228	0.563911
3	Th	0	1.92388	1.38218	1.37795	1.1952	1.1143	-0.74869	-0.65774	-0.70049	-0.33669	-0.11206
3	Sult1a1	0	0.906434	1.1128	1.83275	1.29869	-0.8537	0.231515	-0.98866	-0.90018	-0.40261	-0.63006
3	A130077B	0	0.309099	0.564892	0.498041	0.337774	0.516193	-1.16125	-1.63944	-1.79534	-0.87038	-1.80346
3	Olfr613	0	0.077022	0.735507	0.911378	0.664177	0.512048	-1.02938	-1.10306	-1.56206	-0.65486	-1.95665
3	Malat1	0	0.271054	0.677437	0.351878	0.456448	0.162873	-0.42302	-2.05807	-1.3139	-0.43369	-2.13992
3	Slc25a13	0	0.889673	2.79765	2.68816	2.01306	0.714588	-0.03753	1.30318	0.243457	0.859249	0.617896
3	Ms4a6c	0	0.544551	1.07356	0.8908	0.292555	0.260444	-0.24734	-1.73318	-1.47757	-0.72408	-1.57919
3	Cybrd1	0	0.396157	1.41401	1.92191	1.01386	0.409607	1.15921	-0.17134	-0.36141	-1.08617	-1.18068
3	C230091D	0	0.299954	0.508233	0.967991	0.955274	0.635493	-0.76327	-1.72282	-1.01408	-0.81904	-1.66463

3	Lrrc3	0	-0.13065	-0.83123	-1.29049	-0.64939	-0.74591	-2.01525	-1.47652	-2.12841	-2.54288	-3.10362
3	Hkdc1	0	-1.19413	-0.22047	-0.58868	0.28166	0.098143	-2.67407	-1.02515	-1.47546	-2.4107	-1.56759
3	Kcnq1ot1	0	0.229143	0.453127	0.773176	0.477491	0.441922	-1.01687	-1.65295	-1.53022	-0.71059	-1.99324
3	Gm7609	0	0.217072	0.550829	0.611384	0.250629	0.115096	-1.5423	-1.62419	-1.78824	-0.99855	-1.81182
3	6030440G	0	0.577779	0.929334	1.1966	0.879916	-0.24391	-0.64931	-1.59241	-1.10949	-0.79147	-1.48218
3	Rnf165	0	-0.62637	0.84071	-1.22093	-0.93492	-0.75661	-1.88763	-2.18606	-1.97956	-2.31987	-1.9048
3	Cmah	0	-0.62707	0.350619	0.653132	0.96461	0.480751	-1.63259	-1.75803	-1.38794	-0.96443	-1.34214
3	A2m	0	-0.09035	1.25542	1.54128	2.84236	1.09114	1.55631	0.226687	-0.07983	-0.49099	0.298727
3	Gm20172	0	-0.1568	0.179874	0.664319	0.048108	-0.53041	-1.28831	-1.91236	-1.72734	-0.56817	-2.46139
3	Slc25a42	0	-0.61782	0.588511	-0.70136	-1.16336	-2.07183	-0.93796	-0.49143	-1.5857	-2.45328	-2.56156
3	Angptl4	0	0.880441	2.15361	1.32364	1.54417	-0.22217	-0.19048	-0.4492	-0.3607	-0.56818	-0.82989
3	Cxcr2	0	-0.16225	0.099738	-0.16526	-0.67591	-0.67325	-1.931	-2.23721	-2.2621	-1.4182	-2.44345
3	Clca3a1	0	1.16039	0.32879	1.22274	1.23508	1.57024	0.081644	-0.52113	-1.6039	-0.75271	-0.37646
3	Kcnk6	0	-0.00788	0.718132	0.280817	-0.25201	-0.48428	-1.41965	-1.89436	-1.718	-2.2118	-1.47274
3	Lcn2	0	1.00224	1.36744	1.42006	0.494618	-0.40615	-0.28211	-1.20426	-1.19938	-1.31216	0.096885
3	Pot1b	0	-0.22784	0.321974	0.855295	-0.15115	0.449845	-0.62774	-2.00569	-0.85639	-1.86303	-1.87559
3	Cd163	0	0.128616	1.04933	0.247047	0.465488	-0.14884	-0.60932	-1.03026	-1.04423	-2.42496	-1.53837
3	Nphs1	0	-0.58302	-0.71332	0.523828	-1.63928	-1.64381	-0.96626	-2.62914	-2.2808	-1.43649	-2.33254
3	G630064G	0	0.530812	0.758291	0.145138	0.805099	0.116211	-1.04207	-1.95679	-0.8467	-0.32091	-2.01384
3	A630089N	0	0.285147	0.475116	0.722519	0.409748	0.446312	-1.13954	-1.79867	-1.5833	-0.78605	-1.78997
3	Gbx2	0	1.32614	0.871465	2.22738	2.30992	1.2516	0.303223	0.693306	-0.9375	-0.21397	0.254045
3	Fhad1	0	1.81613	1.50973	2.82531	1.91109	0.960984	0.97758	-0.16332	-0.1128	0.043614	0.305833
3	Tmem181b	0	-1.13136	-0.69936	0.028955	0.221209	-0.10743	-2.21885	-1.96232	-2.05307	-2.20048	-1.81467
3	Mterf1b	0	0.987456	-0.30869	1.71256	-0.17608	0.84885	0.021021	-0.45981	0.500981	0.209338	-2.20343
3	Mir124a-1	0	-0.33562	-0.05828	-0.21757	-0.21146	-0.17656	-1.21839	-2.44864	-1.53215	-1.85638	-2.61456
3	Mreg	0	1.81321	1.35526	2.42609	1.78773	1.96867	-0.00077	0.728685	-0.25877	-0.25983	1.61302
3	Meg3	0	-0.31979	0.127221	0.058231	-0.10171	-0.48722	-0.80993	-2.32273	-1.80144	-1.2455	-2.6658
3	Obscn	0	0.935096	1.54461	2.33007	0.215611	-0.27088	-0.77806	-1.05739	0.219932	-0.40241	0.353671
3	F830016B0	0	0.065188	0.193775	0.285086	0.238948	0.466574	-1.47846	-1.60184	-1.96998	-0.95632	-2.07251
3	Klhl14	0	-0.73188	-0.83637	0.187469	-0.33014	0.711672	-1.59166	-1.60526	-1.54575	-1.85004	-2.56234
3	Epb4.1l4b	0	-0.36605	0.839021	1.05005	0.469517	-0.1553	0.249628	-0.47964	-0.18622	-2.7046	-0.73786
3	Vmn2r55	0	-0.03777	0.46064	0.55169	0.343553	0.589088	-1.37239	-1.53063	-1.61083	-0.84389	-2.06022
3	Arhgef37	0	1.60595	2.18153	2.50449	2.03566	0.399506	1.44844	0.18878	0.356034	-0.50615	0.970511
3	Omp	0	1.10294	0.654476	1.03861	0.994748	1.12293	-0.76412	-0.77461	-0.39399	-1.48063	-1.22534
3	C230037L1	0	-0.17068	-0.78305	-0.27594	0.19062	-0.79926	-0.62814	-2.27129	-2.81701	-1.34588	-2.05243

3	Arsj	0	-2.72817	0.449115	-0.06343	-0.22557	-0.0143	-1.4718	-1.49636	-1.874	-1.46955	-1.27332
3	Ace2	0	-0.3938	0.796407	1.72344	2.23514	-0.20154	-0.19454	-0.05148	-0.14024	0.188066	-1.3201
3	Cmtm3	0	1.46356	2.34254	2.54918	1.36122	0.56833	1.20678	1.0701	-0.46856	-0.43976	0.937269
3	Igf2bp2	0	-0.64604	-3.06881	-1.80569	-1.84068	-0.64105	-1.92545	-1.58635	-1.91048	-2.00957	-3.36439
3	Fbn2	0	-0.66028	-2.63737	-0.09576	-0.39028	-0.67139	-1.11585	-2.09772	-1.07987	-1.91846	-2.84731
3	Spaca6	0	-0.60264	0.387898	-0.03473	0.353222	0.915561	0.026858	-1.68415	-1.45201	-0.78538	-2.32845
3	Tmem181c	0	-1.43682	-1.6113	-0.2333	-0.08572	-0.33997	-2.42338	-2.106	-2.57541	-1.87815	-2.20559
3	Pisd-ps1	0	-1.12619	-0.02668	0.23701	0.578709	-0.58996	-1.39609	-1.71175	-2.48396	-1.55404	-1.87936
3	Gm16287	0	0.338513	1.01914	-0.39758	0.529338	-0.06827	-0.8503	-1.80307	-1.16908	-0.79864	-2.26784
3	F13a1	0	-1.15663	0.254359	-0.28278	-0.80824	-1.42219	-0.98538	-1.73875	-2.55273	-2.85558	-1.90536
3	Gm29683	0	0.921207	0.496253	0.436317	0.81659	0.294787	-1.26055	-1.37779	-1.36983	-1.04325	-1.67101
3	Rreb1	0	-0.84986	0.749276	0.627522	-0.14613	-1.52347	-0.39114	-2.24668	-1.03481	-1.34726	-1.98029
3	Dynlt1b	0	-0.37636	-1.43839	0.838868	0.564916	0.734192	-1.59105	-1.45136	-1.66515	-1.40087	-1.04911
3	Tbrg3	0	-0.36195	0.222734	0.464019	0.41563	0.610166	-0.71745	-2.09929	-1.244	0.08397	-2.15988
3	Atp10d	0	0.429204	1.93403	2.00101	0.984638	0.895174	0.533915	-0.03088	-0.16667	-0.10114	-1.49496
3	Grid2ip	0	0.628223	0.496788	0.55711	1.05106	0.304047	-0.75324	-1.09584	-1.12836	-1.72633	-1.68908
3	Hrk	0	-0.51974	0.686482	-0.61943	-0.43663	-0.94089	-1.70684	-1.99635	-2.03067	-2.28732	-2.15765
3	Wnt9b	0	0.190292	0.187538	0.80298	1.22157	0.433272	-2.03492	-0.06702	-1.33988	-0.73188	-1.33265
3	Gimap1	0	1.0599	0.300945	1.42576	0.923816	0.287007	-2.00939	-0.67918	-0.85789	-0.25973	-0.73624
3	Cpne7	0	-0.65249	-0.36611	-1.07048	-0.43571	-1.55333	-1.81594	-2.54903	-3.11428	-1.60039	-2.33756
3	4930417O	0	-0.0342	0.049593	1.00803	2.16503	0.437118	-1.15479	-0.80556	-0.26756	0.206876	-1.4171
3	Htra4	0	1.15843	0.516342	1.82099	0.267083	-0.42376	-1.12563	-0.7677	-1.68716	0.013094	0.350471
3	Gm4262	0	-0.65373	0.171214	0.248715	-0.41147	-0.61001	-1.18148	-2.40934	-2.25685	-0.86723	-2.36889
3	Havcr2	0	1.17087	1.94253	2.12362	0.515139	1.49068	1.12349	-0.51341	-0.84396	-0.21352	0.219368
3	Wdfy1	0	-1.32683	-0.47738	-0.91847	0.585496	-1.23348	-1.90773	-2.24868	-2.20665	-2.10411	-2.39088
3	Gm17644	0	0.41817	0.426001	0.701762	0.408076	0.1943	-0.72333	-1.69613	-1.67476	-0.77913	-2.05164
3	4930470H	0	0.53229	0.610773	0.87541	0.830618	0.234694	-0.653	-1.48056	-1.57975	-0.79363	-1.72975
3	Adm	0	1.38187	2.11973	3.34302	1.04775	0.40027	1.02993	0.104724	0.28521	0.347881	1.11333
3	Fam227a	0	-0.60645	-0.97511	-0.24371	-1.41321	-0.64732	-0.90709	-2.61427	-2.33145	-0.84907	-3.04927
3	Triobp	0	-1.44597	-1.17732	-1.77264	-1.76728	-2.39496	-1.97956	-1.77578	-2.43545	-3.74463	-3.21575
3	Crx	0	1.03078	1.63572	0.905271	1.15717	0.934653	0.162056	-1.5137	-0.76464	-0.45397	-0.77979
3	Shisa3	0	0.151829	-0.00683	0.154521	-0.19375	0.277948	-1.20814	-1.72467	-1.72656	-1.31146	-2.60987
3	A630075F1	0	0.406267	0.660515	0.063745	0.610402	0.659492	-0.87644	-1.86577	-1.84921	-0.73225	-1.45864
3	Lyve1	0	0.298749	0.814564	0.423846	-0.32219	-0.56601	0.039526	-1.51567	-1.1039	-2.28126	-1.7872
3	Spc24	0	-0.04291	0.323054	0.099055	-0.37087	-0.66333	-1.52945	-2.56391	-2.03015	-1.74765	-1.58478

3	Col26a1	0	-2.51962	-2.93181	-2.70953	-1.18987	-2.36896	-1.24733	-3.1897	-2.93649	-2.65416	-2.97649
3	Tex15	0	-0.22575	1.0745	1.65411	1.83036	1.33734	0.999359	-0.60666	-0.43727	-0.55598	-0.8292
3	Brip1	0	-1.18134	-0.04373	-0.56743	-0.1027	0.576145	-1.15671	-2.25357	-2.31921	-1.59988	-1.94602
3	6030443JC	0	0.287445	0.967232	1.96524	1.34732	0.51356	0.681538	-0.82871	-1.41903	0.511537	-0.76296
3	Rnf207	0	0.299636	1.49439	0.556904	0.131383	-1.52931	-0.53567	-0.40434	-2.06904	-1.09638	-0.03544
3	Gpr151	0	1.59819	1.75708	1.96321	2.38076	1.92527	0.622407	1.79701	0.686635	-0.893	1.71525
3	Mrc1	0	-2.37607	-0.53215	-1.37376	-0.89547	-1.08686	-2.2597	-2.4688	-2.66943	-2.85552	-2.70232
3	5031426D	0	0.407976	-0.48195	0.021499	-0.00346	0.028625	-1.63626	-2.48299	-1.85786	-0.02643	-1.62112
3	Snhg11	0	-0.44486	0.01277	-0.1006	0.148679	0.030991	-0.69139	-2.46684	-1.81351	-1.21595	-2.38259
3	6330415B.	0	0.282889	0.047644	-0.11008	0.088194	0.039297	-1.40833	-2.42717	-1.73397	-0.92421	-2.0746
3	Socs3	0	0.426543	0.959743	0.465968	1.3923	-0.16303	-0.8265	-1.0241	-1.88297	-0.91202	-1.12345
3	Phyhd1	0	0.171637	0.415392	0.715388	1.45438	-0.677	0.881871	-1.82409	-0.72863	-1.17834	-0.9837
3	A830011K(	0	-1.3012	-0.9046	-1.97778	-0.26059	-2.23354	-1.23587	-1.47446	-3.65024	-1.27056	-2.05548
3	Fbxl12os	0	-0.21043	-0.14398	-0.46631	-0.82178	0.802449	-1.10516	-2.16951	-1.7512	-0.30234	-2.46844
3	BC021785	0	0.310998	-0.70129	-0.84177	-0.22551	-0.71183	-1.58749	-2.75416	-2.12584	-1.10978	-2.37741
3	Gm14827	0	0.064307	-0.10213	-0.00738	-0.05311	-0.28431	-0.85588	-2.52782	-1.74677	-1.26791	-2.40744
3	Hmmr	0	-0.93575	0.169524	-0.03268	0.494296	1.4129	0.121172	-0.7719	-2.06176	-0.92425	-1.65121
3	6530403H(	0	-0.68461	-0.34945	0.214801	-0.38269	-0.55876	-1.55974	-1.70472	-2.75185	-2.46567	-1.69141
3	Ptar1	0	-1.91324	1.21688	1.61336	0.637573	1.40883	0.79431	-0.29159	0.922584	-0.18826	0.590139
3	Trim65	0	-0.635	0.429865	0.440642	-0.26101	-0.96832	-0.0094	-1.16024	-1.17612	-3.09918	-0.80434
3	Tspan18	0	0.353613	1.08907	0.413189	0.115431	-0.84693	-0.62032	0.002894	-1.03229	-2.48945	-1.37551
3	Alpk1	0	-0.11644	0.927329	0.820665	-0.54324	-1.51091	-1.50671	-2.05777	-0.97579	-1.58539	-1.11534
3	E030024N.	0	-1.39362	-1.37108	-1.20852	-1.20141	-1.58632	-3.27935	-1.99423	-3.18833	-1.70629	-3.02342
3	Ccl9	0	1.27555	2.46138	2.35892	1.85174	2.78018	1.52262	1.24898	0.595687	0.703653	-0.26369
3	C730002L(	0	-0.65766	-0.10743	1.70278	2.21069	2.05339	1.03233	-0.53851	0.256004	0.765188	0.923631
3	Lancl3	0	-0.42949	1.06295	1.32805	0.624136	0.313587	0.57191	-0.98211	-0.45731	-2.05819	-0.87842
3	BC030499	0	-0.34741	0.752863	0.958989	0.700278	0.327418	-0.3278	-2.2388	-0.7913	-0.38194	-1.64927
3	Csf3r	0	-0.53384	-0.02602	0.124753	-1.0369	-0.60173	-1.07179	-0.8512	-2.50639	-1.90179	-2.81763
3	4831440E1	0	-0.81721	-0.64987	-0.5283	-0.54012	-1.86149	-0.51733	-1.79802	-1.6258	-0.74916	-3.56757
3	C330013E1	0	-0.00485	-0.91092	1.19131	2.70642	1.3268	-0.50302	-0.19129	0.437543	0.54057	0.503122
3	AY512931	0	0.228981	0.150488	-0.40748	-0.58462	-0.61134	-1.54176	-2.39778	-2.40709	-0.92188	-2.12745
3	Fmo2	0	0.419887	1.05092	2.2863	0.192378	0.347481	-0.83217	-0.26079	-0.61903	-1.51006	0.276278
3	Loxl2	0	0.11842	0.969118	-0.64054	0.325915	-0.26867	-1.11843	-0.91561	-2.55487	-1.20118	-1.67399
3	Prkcg	0	-1.77114	-1.15529	-1.14646	-2.22136	-2.36003	-2.05974	-1.68706	-2.55884	-3.88071	-2.6334
3	Nhlh2	0	1.54746	1.94082	2.90093	1.93925	2.10897	1.10337	1.10368	0.204131	-0.32827	0.672154

3	Isg15	0	0.198162	0.578485	0.56267	0.569374	0.914686	-0.47078	-1.80031	-0.77532	-0.72057	-2.09937
3	Zfand4	0	0.374881	1.91109	2.64686	0.857675	0.216761	0.559194	-0.27509	-0.66903	0.652863	-0.46965
3	Rnf122	0	-2.79287	-2.83237	-0.75173	-0.5752	-1.44317	-1.12563	-0.26735	-1.02305	-1.87955	-2.50426
3	Tyms	0	-0.21957	0.51912	0.377038	0.935113	0.291745	-0.53316	-1.06369	-2.03468	-1.18372	-1.94006
3	BC039771	0	1.32338	0.880273	0.550198	1.00214	0.716436	-0.75614	-0.01103	-0.81374	-0.79972	-1.94471
3	AY074887	0	0.635767	0.843846	0.252511	0.622669	0.154573	-0.07986	-1.11239	-1.50483	-0.19669	-2.35442
3	9930111H	0	-0.08882	-0.1133	0.496911	-0.32797	-0.61124	-1.89656	-2.18582	-2.46377	-1.23849	-1.48716
3	Sgms2	0	1.62956	1.92968	2.28949	3.21614	1.86762	1.67485	1.80742	1.737	-0.13372	0.502618
3	Tnfsf13	0	-0.50868	-0.85252	-0.74799	-0.74281	-1.47111	-1.45346	-0.05512	-3.05041	0.576348	-1.81714
3	Zim1	0	0.280982	1.98447	1.88057	2.18062	0.659554	0.838356	0.307337	0.104413	-1.12028	0.180094
3	Atp6ap1l	0	-2.1583	-2.13951	-0.86495	-0.01819	-0.5821	-2.1627	-1.51458	-2.11609	-0.33304	-2.76316
3	Podn	0	-2.41142	0.085107	-0.96981	-1.33244	-1.70573	-1.13597	-1.75247	-1.97846	-1.67392	-3.39855
3	9530082P	0	-1.47156	-1.08882	0.220049	-0.34272	-1.07997	-1.45729	-0.76986	-0.74001	-2.06497	-3.34458
3	Csf2rb	0	0.51131	-0.27812	-0.66244	-0.33623	-0.68196	0.051601	-2.16818	-2.00715	-1.45148	-2.43737
3	A730017L	0	-1.31022	-0.37198	0.368425	-0.58608	-1.1692	-1.4393	-1.83379	-2.48137	-1.58588	-2.86589
3	Gpr173	0	-0.82071	0.065982	0.087279	0.251967	0.469361	-0.51037	-1.94961	-1.19928	-1.65275	-2.50586
3	Arid5a	0	-1.36128	-0.33612	-1.89824	-1.25028	-1.61583	-3.57422	-2.52278	-2.114	-1.78674	-0.87018
3	Zic4	0	1.5675	1.65883	3.09501	2.96664	2.548	2.38697	1.31788	1.04048	0.713595	0.789065
3	Tcaf2	0	-0.04084	0.52678	2.10355	2.20243	0.819201	1.41546	1.09059	0.888053	-0.11415	-1.12413
3	Zdhhc22	0	0.953495	1.07415	0.360176	0.311513	-0.31291	-0.63194	-0.4753	-0.24378	-2.60103	-0.82605
3	Tmem181a	0	-1.38657	-0.33611	0.10265	0.136476	-0.82663	-1.37217	-1.25705	-1.72321	-2.8853	-2.28591
3	Igsf6	0	1.62656	0.472851	1.23771	1.93072	1.78828	2.05505	-1.05543	0.223956	0.245994	0.115354
3	Thpo	0	-0.16838	-0.3925	0.376407	-0.79294	-0.99693	-1.14936	-2.69134	-2.04248	-1.43317	-2.37282
3	Gm6537	0	1.67084	1.5582	2.26202	-0.0803	1.78805	-0.64462	-0.0971	-0.09465	0.170471	1.19311
3	Lin28b	0	0.050693	0.522933	0.341453	0.102637	0.385057	-0.39145	-2.74111	-0.70543	-0.24367	-1.72958
3	Rac2	0	-0.65063	0.10519	-0.09596	-0.05591	-0.719	-0.76799	-2.56932	-2.08694	-1.38583	-2.42585
3	Was	0	-0.12309	0.385274	-0.08832	-0.19928	0.158165	-0.85049	-2.2712	-2.1302	-0.32944	-2.10212
3	D130040H	0	-1.74267	-0.36746	0.293527	-0.04691	0.47927	-1.21731	-2.45661	0.907735	-0.15948	-0.39254
3	Erg	0	-1.46041	-1.6361	-0.00781	0.058543	0.362889	-0.28191	-1.58429	-1.40396	-2.64569	-1.84866
3	Ccdc109b	0	-0.19907	-0.32664	-1.43061	-0.14751	0.577297	-2.01281	-0.37974	-2.47202	-2.0769	-0.79209
3	Ccdc40	0	2.08314	2.77983	3.30253	3.05557	2.17737	2.47536	2.04927	0.841472	1.01247	1.93264
3	Adamts10	0	-0.16625	-0.12034	0.466215	-0.10692	-0.48605	0.550296	-1.84309	-0.75483	-0.72605	-2.8253
3	AU023762	0	-2.15603	-2.26475	-2.83184	-0.93229	-1.5882	-0.92908	-2.87051	-2.81246	-1.75877	-3.15161
3	9630028B	0	-1.24584	-0.15905	0.204311	-0.61135	-0.41325	-1.9171	-2.5149	-1.83185	-0.89456	-2.59188
3	Hmha1	0	-1.22501	-1.31432	-0.59831	-3.13605	-1.64378	-2.02039	-2.39919	-1.40732	-2.54036	-3.1571

3	Usp43	0	-2.06389	-1.72027	-2.6336	-0.39198	-1.74891	-2.55634	-1.77136	-2.4046	-1.28167	-3.47405
3	Per2	0	-3.20297	-0.39802	-0.78751	-0.57313	-0.14852	-0.98678	-0.93326	-0.39187	-2.56341	-0.87672
3	Nnt	0	-2.5928	-0.94988	-3.15651	-2.36308	-2.29688	-2.76585	-3.36407	-2.6267	-2.4368	-3.07383
3	Dapl1	0	-0.84107	-0.3696	0.152799	-0.78013	-1.71554	-2.32949	-3.15159	-1.68259	-1.35556	-1.58319
3	Chrnb4	0	2.2437	1.35926	2.16481	2.32154	1.5405	0.93833	0.73696	0.621748	-0.89911	0.620243
3	Igfbp7	0	1.33339	2.0686	3.16201	1.82067	0.489641	0.245056	1.37967	-0.09793	1.85032	1.28275
3	Tmco5	0	-1.1681	-1.36912	-1.12834	-0.65737	-0.11416	-0.98836	-3.56572	-2.17751	-0.7997	-1.76616
3	Cep112	0	0.096433	-0.63325	0.700275	0.587499	0.401929	-0.49741	-2.56826	0.181268	1.3166	-0.05394
3	Aim2	0	0.447045	0.534512	0.048466	0.577324	0.626662	-0.48053	-1.99379	-1.80345	-0.15924	-1.62253
3	Nfkbiz	0	0.75335	2.77006	1.91633	0.799913	1.10197	-0.23859	-0.6637	0.514055	0.439446	1.64352
3	Tubd1	0	0.409977	-1.82505	0.1078	-0.7734	-0.15334	-0.61244	-1.09387	-2.87102	-1.05624	-1.9005
3	Robo3	0	0.035843	0.64216	0.889899	-0.61285	-0.71816	-0.94555	-1.2515	-1.03734	-1.59432	-2.53924
3	Coro6	0	-0.554	-0.13154	-0.88781	0.094594	-1.24134	-0.2063	-2.2042	-1.96587	-2.63575	-2.07143
3	Inha	0	-1.6077	-0.59487	-1.21287	-0.50107	-2.3585	-2.13459	-2.57364	-1.97355	-2.59644	-3.09338
3	Lamc3	0	-1.13522	0.625571	0.430467	-0.4035	-1.06289	-0.36467	0.919048	0.150961	-2.63805	-0.66629
3	Cenpa	0	-2.82082	-0.33057	-0.82161	-1.49079	-2.20038	-3.06209	-0.97682	-2.03365	-1.34627	-2.36387
3	Cd44	0	-3.19612	-0.25721	-1.33385	-0.19766	-0.55266	-1.19331	-1.72104	-1.42317	-1.95749	-2.40306
3	Tpk1	0	-1.24335	-1.08375	-0.14579	0.151221	-0.66013	-0.65835	-3.10603	-1.67818	-0.65942	0.466808
3	Igfn1	0	-2.93203	-1.55397	-2.27834	-2.574	-2.75891	-2.75869	-3.66336	-2.28077	-3.23044	-3.24131
3	Col24a1	0	-0.80748	0.353678	-0.12898	-0.81391	0.122258	-0.62871	-2.88764	-1.6264	-1.14352	-2.06549
3	Mill2	0	-0.25361	-0.12337	-0.55561	0.586145	-1.82921	-0.79587	-1.25327	-0.69051	-3.10782	-0.65476
3	Gpr157	0	-1.01943	-2.75069	-0.58125	-0.57773	-1.58276	-1.30728	-1.70364	-3.37154	-1.68428	-2.3072
3	Npr1	0	2.10766	0.714083	2.15877	2.98626	1.77512	1.15056	1.60203	1.53861	0.459871	-0.32262
3	Pla2g4e	0	-0.82393	-0.01422	-1.35023	-2.08331	-1.72125	-2.16341	-3.04753	-2.50694	-2.09904	-2.34568
3	H2-T9	0	-0.42599	-0.85637	0.91247	-1.75701	-0.55394	-0.78218	-0.19244	-2.79109	-0.15704	0.251373
3	Rpl31-ps12	0	-0.33239	-0.32944	0.300772	-0.08007	-0.14802	-1.17412	-0.42473	-0.07833	-3.35373	-0.46747
3	2310036O	0	-0.5773	-0.16865	0.614362	-0.8685	-1.55012	-0.95755	-0.94646	-2.00614	-2.99091	-1.47317
4	Samsn1	0	-0.3081	-1.02344	-1.55115	-0.10878	1.69248	0.139833	-0.88338	-1.64009	-1.19961	-1.55265
4	Plekho2	0	-1.45785	-2.42047	-1.93388	-0.68208	0.676002	0.468332	-0.07603	-0.13263	-0.24067	0.096885
4	Bmp3	0	-2.25775	-1.61908	0.893067	-0.55623	0.531532	0.470953	0.517152	0.453547	-0.83252	-0.53526
4	Ly86	0	-0.22627	-0.7768	-0.94026	0.067084	2.11353	1.34174	0.875699	0.734231	1.41169	1.5127
4	Lat2	0	1.0863	0.61011	1.29406	1.07399	3.12614	2.42352	0.747661	-0.1254	1.98843	1.87702
4	Plau	0	-1.01387	-2.00808	-0.16194	-0.04884	0.68507	1.6882	0.830762	0.881284	0.491898	-0.13028
4	Top2a	0	-0.15086	-0.95337	-0.50221	-1.65684	1.72662	1.16763	0.193305	-0.25088	-0.88904	-1.18499
4	Fam198b	0	-2.1284	-1.50759	-1.75164	-1.50417	0.35408	0.572465	0.386237	-0.28948	0.325338	-0.15212

4	P2ry13	0	-1.97823	-2.7128	-0.51459	-2.13998	-0.31468	-0.02035	0.190985	-0.12243	-0.45546	-0.61574
4	Steap3	0	-1.78931	-0.9381	-1.2167	-1.85284	0.786655	0.613774	0.9069	0.241794	-0.734	-0.83722
4	Prc1	0	-0.23837	0.396298	0.955254	-0.36174	2.6399	1.66438	0.616278	-0.30823	-0.32845	-0.52211
4	Gbp5	0	-3.27648	-0.9819	-1.68919	-1.0777	0.709321	-0.71604	-0.62749	-0.89775	-1.23419	-0.59494
4	Lox	0	-1.45199	2.04989	0.858816	-0.38628	-0.18072	1.21855	0.485996	-0.2579	0.804151	-0.89198
4	Tnfsf10	0	-1.13877	-0.76971	-0.04515	0.015609	1.87094	1.1839	1.61097	1.36246	0.921518	1.17883
4	Olfml3	0	-1.27143	-1.39266	-2.14191	-0.49144	1.54981	0.286314	0.445764	-0.2831	-0.2402	-0.58026
4	Ifit3b	0	1.52465	0.901073	1.49041	0.284746	3.50993	2.79173	1.86158	1.60254	1.7346	1.8232
4	Acads	0	1.03738	-0.20975	0.487739	-0.59353	1.4077	1.57929	2.82375	0.480457	1.59202	1.5869
4	Sparc	0	1.54013	1.14447	2.08398	2.16396	2.02668	3.20895	0.771239	-0.04327	0.942053	0.603812
4	Gbp3	0	-1.36101	-1.58008	-1.81463	-1.01989	1.4301	0.217768	0.459389	-0.44893	0.146258	0.239384
4	Lgals3bp	0	-0.37036	0.244308	0.252996	0.913025	1.9502	2.75032	2.03413	1.37369	0.459655	1.72673
4	Ifit1	0	0.964523	2.01198	0.68514	0.875265	2.88378	2.70333	2.75631	2.2877	2.53446	2.28987
4	Gfap	0	0.192599	0.899304	0.82752	1.47594	2.69157	2.11837	0.551539	-0.08258	-0.62487	0.196335
4	Plscr2	0	0.17234	0.571181	1.2586	2.15288	2.9657	2.66596	1.62067	0.76595	1.1195	2.2227
4	Mki67	0	-0.27009	0.320551	-0.28858	-0.90246	2.16025	1.69407	0.077221	0.102568	-0.29617	-1.20877
4	S100a4	0	0.762634	0.245786	1.63727	0.710083	1.22211	3.41705	1.11979	1.69048	0.341021	2.26315
4	Bub1b	0	1.49781	-0.32385	0.739371	-0.71596	0.355719	2.66484	0.179596	-0.06004	-0.47572	-0.42192
4	Slfn2	0	-0.54158	0.77031	-0.15161	1.57067	2.06795	2.74705	0.653491	0.282344	0.25218	0.461567
4	Erich5	0	0.201022	-0.98306	-0.54636	-2.02626	0.598259	-0.74216	-1.86485	-2.43932	-0.84743	-1.92253
4	Lama4	0	-3.49039	-1.1176	-1.44883	-1.20321	-0.33398	0.099082	-0.32537	-0.58008	-1.08921	-1.50041
4	Cd248	0	-2.38301	-2.38436	-1.20065	-2.25851	-2.59203	-1.2093	-0.68768	-1.14939	-3.1438	-2.83282
4	Tnc	0	-1.52096	-0.9041	-1.54553	0.189295	1.11459	-0.65346	-0.27661	-0.29857	-2.20659	-1.87927
4	Cx3cr1	0	-2.54633	-2.54027	-1.77971	-1.07188	0.120985	-0.73978	-1.82442	-2.01597	-2.66083	-2.15855
4	Cmklr1	0	0.327165	-0.79208	-1.19207	-0.07645	0.791341	0.03518	-0.38951	0.469122	-2.82104	-0.84797
4	Ctsc	0	-0.56736	0.635054	-0.42385	1.3855	2.34665	2.56912	1.07285	0.979412	1.02341	1.13242
4	Aga	0	2.31052	1.83694	2.08285	1.11942	2.00176	2.90212	3.27754	3.22955	1.09432	1.3933
4	Slc35g1	0	-2.03333	-0.84713	-2.89227	-2.85593	-0.33766	-0.66921	-0.79043	-1.81944	-1.05099	-2.20975
4	Plekhg2	0	-0.41193	-0.76673	0.106077	-0.76633	-0.23135	0.201729	-0.48766	-0.84801	-3.44742	-0.28341
4	Cys1	0	0.403764	-0.32484	-1.45996	-3.18384	-0.74431	-0.32607	-0.26344	-1.15201	-1.73185	-0.51448
4	Klhl3	0	-1.25483	-0.39606	-1.67094	-1.38361	-2.2701	-0.93554	-0.69874	-0.73788	-3.54387	-2.07478
4	Cd180	0	-1.64482	-2.04634	-0.92302	-0.2595	1.04569	1.22339	0.278433	0.131362	-0.1719	-0.04498
4	Eps8l1	0	0.543076	-0.81584	0.666434	-0.09447	0.686983	1.31377	2.95025	0.894609	-0.33696	0.978414
4	Ifitm3	0	0.013059	0.285536	0.032228	1.08678	2.27682	2.276	2.55031	0.698682	0.780577	1.92064
4	Tlr2	0	0.443594	0.940799	1.59198	0.390664	1.45996	2.42424	1.59123	1.70966	-1.21666	0.880386

4	9330117O	0	-0.68795	0.103087	-0.07274	0.597165	1.97943	1.86208	1.1523	2.51312	0.894417	1.39128
4	Cd109	0	0.87899	1.84507	3.22984	1.10452	1.41918	2.30206	2.06094	0.39339	0.01845	1.46534
4	Bcl2a1b	0	0.370018	0.247212	0.318633	1.01484	1.64622	2.72987	-0.7247	0.99438	0.936931	-0.65054
4	Tdg	0	-0.82156	0.516104	-0.3623	-1.35781	-0.35096	-0.21437	-0.30628	-1.50447	-3.15179	-1.35696
4	Igfbpl1	0	1.61963	0.50006	0.769644	1.55961	1.49953	2.45273	1.67843	0.884229	0.297006	-1.17916
4	Mns1	0	2.69966	2.28583	2.27793	2.47757	2.23885	3.59309	1.63321	2.59867	0.889232	1.10251
4	Rsad2	0	-1.02112	0.789768	-0.64807	1.12413	1.82444	2.12885	1.44273	1.16186	0.99043	0.075614
4	Sstr4	0	-1.43397	-0.17372	-0.20477	-1.94738	-1.4212	-0.19687	-1.32628	-0.73047	-3.24115	-1.89369
4	Col3a1	0	-1.04681	-0.92662	-1.27842	-1.54548	-1.02047	1.85956	0.274653	0.56443	-0.0728	-0.71569
4	Oasl2	0	-0.90461	0.120665	-0.80404	-0.16602	1.76222	2.25815	1.20631	0.968122	0.803003	0.492894
4	Aldh1l2	0	0.498337	2.80697	1.69548	1.96699	2.49737	3.24028	1.56907	1.18176	0.628927	1.49452
4	Cd52	0	-0.68223	-0.72391	-0.26999	-0.093	1.66515	2.28913	1.17711	1.23938	1.0912	0.790817
4	Trim34a	0	0.483466	2.36044	0.697915	1.93213	2.68781	3.22202	2.21732	1.72916	1.93459	0.965087
4	Serpina3n	0	0.61934	1.13868	1.14613	2.79067	1.31804	3.30443	0.965652	0.422439	0.549459	0.796658
4	Ddx60	0	1.20397	0.397029	1.24844	1.10415	3.12342	3.07533	1.30851	1.68194	1.37033	2.52388
4	Plac9b	0	1.62032	0.435372	1.89452	1.13675	1.34388	3.27133	2.13994	2.92745	0.883524	2.20154
4	Gm11992	0	1.35447	2.28181	2.22571	2.5498	1.37712	1.98515	2.64289	2.26751	-0.31089	2.16435
4	BC002163	0	1.93483	0.354201	1.07785	-0.27899	3.03385	1.47611	0.077688	1.85318	0.909892	1.4313
4	Vim	0	0.577185	0.900428	0.97605	1.85709	0.790022	3.47334	1.48885	0.865698	-0.27426	0.774973
4	Rad51	0	0.211599	0.868933	0.176784	-0.15578	1.50488	2.91173	1.0912	0.515737	2.24242	0.064479
4	E430018J2	0	-0.98108	-1.19365	-1.84696	-0.81601	-0.14442	-0.55474	0.28076	-2.20707	-0.15423	-2.86869
4	Met	0	-3.1815	-0.93861	-1.24635	-0.90023	0.002649	-0.34506	-1.4178	-1.57112	-1.38042	-2.64734
4	Mpeg1	0	-0.19667	-0.33046	-0.59979	-0.0295	1.96039	2.69769	0.48954	0.415683	0.212102	0.689
4	Sim1	0	2.17267	2.35897	2.04835	1.97199	3.09479	3.13956	0.338111	1.71348	1.146	1.36064
4	Cd84	0	0.219967	0.980005	0.751939	0.516054	2.26381	2.9017	0.82985	-0.45627	1.11607	-0.02313
4	Cd68	0	-1.36129	-1.07096	-0.65725	0.189036	1.19948	2.22635	0.406456	-0.1316	0.255377	0.12947
4	Stab1	0	-0.84261	0.376516	-0.42897	-0.96939	-0.8634	1.92747	-1.49139	-0.98548	-1.04523	-1.55422
4	C3ar1	0	0.037169	0.01612	0.144713	0.887291	0.855166	3.44511	0.335892	-0.03974	0.4089	0.468248
4	Naip5	0	1.31159	1.94341	2.14711	2.32463	1.72537	3.34753	0.677216	0.741269	1.3453	0.184797
4	Adgre1	0	-0.46746	-0.09546	-1.13433	0.471771	1.15183	2.41797	0.918934	-0.49701	0.068047	1.21976
4	Spp1	0	0.298734	0.15747	0.304056	-0.20864	0.18553	3.43324	0.052147	0.204442	0.344094	0.691551
4	2610042L0	0	2.83617	2.1917	2.59134	2.0898	2.92106	2.8499	2.1154	1.03112	1.84415	0.428543
4	Gpnmb	0	0.938986	0.473635	0.80077	0.969917	0.850731	3.78789	0.474977	0.504413	0.340124	0.880553
4	Gdf1	0	0.408702	0.236079	-0.39969	-0.91728	1.50345	-0.32122	2.58246	0.087941	-0.60471	0.065641
4	Cybb	0	-0.39795	-0.69988	0.600492	0.072516	1.2884	2.83017	0.775055	-0.40618	-0.11405	0.720788

4	Plin2	0	0.613725	0.674947	1.55827	0.397025	0.352027	3.59148	1.00171	0.754438	0.008542	0.866926
5	Adgrl4	0	2.05339	2.54703	2.60401	0.718531	0.768363	0.248128	0.334011	0.486705	-0.12527	0.422474
5	Crispld2	0	2.56283	1.75095	0.379259	0.11634	-0.29457	-0.37306	-0.27372	-0.46183	-0.57238	-0.14903
5	Tekt4	0	1.55482	1.83216	2.06717	0.540391	-0.76755	0.015825	-0.21536	-0.30093	-0.18242	-0.5763
5	Fkbp5	0	1.22225	2.01715	1.72334	0.46008	-0.6118	-0.0507	-0.51686	-0.55899	-0.6826	-0.59859
5	Synm	0	1.26538	2.90481	2.16472	0.43176	0.278916	0.165656	0.149437	0.412025	-0.36893	0.352734
5	Zbtb16	0	1.1582	2.4474	1.19026	1.1925	-0.07404	-0.16009	-0.43225	-0.22639	-0.63769	-0.67475
5	Aff1	0	1.82755	3.16833	0.742443	1.04072	0.154772	0.193834	-0.14321	0.460801	-0.01821	0.263464
5	Slc2a1	0	1.49466	2.22929	1.17018	0.552586	-0.23002	-0.73067	-0.33919	-0.59849	-0.80737	-0.14676
5	Tsc22d3	0	2.32149	2.23929	1.33516	0.122268	-0.22291	-0.44205	0.016219	-0.04666	-0.27857	0.36383
5	Il1r1	0	0.979458	3.00949	1.39282	0.966832	0.56079	0.089441	-0.40452	-0.24322	-0.05362	-0.13131
5	Rcor2	0	1.4484	-1.44755	-1.98327	-1.56581	-1.09138	-2.13967	-1.16542	-0.72581	-1.30894	-0.87873
5	Smim3	0	1.99602	2.31015	2.19236	1.04543	-0.15373	-0.14853	0.440155	0.210884	0.437678	-0.33669
5	Arrdc2	0	2.05508	2.14262	1.26624	0.870797	-0.26466	0.090424	-0.60624	-0.49529	-0.34425	-0.03961
5	Alox12b	0	1.53461	2.44115	2.09542	0.842016	-0.66508	-0.13914	-0.21784	0.415015	0.164088	0.381503
5	Akap12	0	2.17497	2.71229	0.814869	0.833258	0.158991	0.215458	-0.22053	0.133346	-0.50969	0.235956
5	Il6ra	0	0.974521	2.0575	0.401785	1.24701	-0.09346	-0.45374	-0.70675	-1.04179	-0.70055	-0.92859
5	Angpt2	0	1.38033	2.36191	1.79291	0.236087	-0.54943	-0.43782	-0.53492	-0.01054	-0.1466	0.047536
5	Hmgb2	0	2.29348	1.57114	0.227285	-0.10523	-0.1802	0.248438	-0.88454	-0.47962	-0.5407	-0.96789
5	Tinagl1	0	2.6015	1.608	-0.41914	-0.18887	-0.53362	-0.43532	0.584127	0.466149	-0.58204	0.143752
5	Zbtb7c	0	1.43834	2.88955	0.94751	0.624402	0.076419	0.135102	1.05253	0.164957	-0.90752	-0.04929
5	Slc4a11	0	0.757487	1.10962	0.391495	-1.15294	-2.52548	-0.02887	-0.6639	-0.65292	-0.03638	0.244428
5	Fas	0	1.90789	2.86328	1.69652	1.64953	1.13574	0.469559	-0.14956	-0.29914	0.291296	1.02707
5	Pcolce2	0	2.06059	2.5602	3.11022	2.00158	0.162808	0.827142	1.07755	0.970682	1.80849	2.32938
5	Tmem252	0	1.99705	2.83729	1.61328	0.258269	-0.08149	0.269013	0.179799	-0.27967	0.256927	0.796006
5	8430408G	0	1.47604	2.674	2.23538	0.761569	-0.02482	0.851339	0.153864	-0.28378	-0.16345	1.1552
5	Cebpd	0	1.94238	1.96753	1.20719	0.334315	0.053107	-0.093	-0.40115	-1.10769	-0.64984	0.485533
5	Pdk4	0	2.02849	3.41023	1.08226	1.10808	0.462011	0.620824	0.014518	0.371029	0.418767	0.963388
5	Trp53inp1	0	2.45421	3.17903	1.72184	1.53184	1.0745	0.682532	0.369736	0.210887	0.4904	0.656231
5	Nostrin	0	2.55353	1.82069	0.888997	1.29595	0.93018	-0.46261	-0.69917	-0.33199	0.754111	0.73819
5	Rnf125	0	1.41062	2.84745	0.274907	0.756202	0.248981	-0.00087	-0.42109	-0.84465	0.658303	1.06646
5	Wnt4	0	0.502136	0.793515	-1.08149	-0.97273	-0.76734	-1.549	-1.53002	-2.34829	-2.07296	-1.00073
5	Pglyrp1	0	1.40464	1.47614	1.67271	-0.07548	-1.06807	-0.79968	-0.78666	-0.07851	-0.59622	-0.56124
5	Gimap6	0	1.60821	1.5162	0.581125	-0.10241	0.054763	-0.96558	-1.40248	-1.20079	0.413204	0.60212
5	Pnpla2	0	1.69923	2.46968	2.35755	0.782823	-0.29846	0.137456	0.122938	-0.00381	0.215436	0.201083

5	Adamts9	0	1.78682	2.9048	1.32066	0.093513	0.206536	0.100331	-0.2569	-0.31698	0.524757	0.202073
5	Kirrel2	0	0.851667	1.29362	1.20892	-0.43358	-1.29895	-0.87656	-0.84285	-0.99645	-0.61035	-1.54227
5	Lrrc32	0	2.42889	0.060627	-0.96353	-0.92827	-0.81425	-0.0362	-0.21616	-0.38212	-0.20583	1.18696
5	Mc4r	0	0.953882	1.87303	1.22378	0.491787	-0.49866	1.46021	-0.59949	-1.31338	0.005081	-0.49913
5	Cdkn1a	0	1.51705	2.13819	1.73918	1.28356	-0.57702	0.068181	-0.6074	-0.28314	-0.08146	-0.1114
5	Il4ra	0	1.92693	2.69691	1.36787	1.70367	-0.04537	0.800447	0.006166	0.043569	0.230457	-0.2588
5	Sh2b2	0	0.262396	2.17323	-0.79512	0.293717	-0.93506	-0.92567	-0.9599	-0.96935	-1.38296	-0.13081
5	Mapk11	0	0.784278	-0.2655	-0.91637	-1.50472	-1.34906	-2.06915	-1.6758	-2.13082	-1.69113	-2.41015
5	Maff	0	1.51826	1.39371	0.866368	0.701636	-0.69212	0.203521	-1.0907	-1.45079	-0.84194	0.219167
5	Emilin2	0	1.61116	3.10486	2.40887	1.04302	-0.18677	0.485511	0.823343	1.34181	0.324684	0.934642
5	Grasp	0	0.325886	-0.85444	-2.52269	-1.78116	-2.45112	-2.45241	-1.90114	-2.1483	-2.26986	-1.61983
5	Amigo2	0	2.852	2.45407	2.86391	2.62428	1.37921	1.26801	1.4867	0.868478	0.779163	0.533398
5	Elmsan1	0	1.90106	2.74244	0.24372	0.632279	-0.36335	-0.15674	-0.33274	-0.10549	-0.17221	0.276309
5	Tma16	0	0.976272	2.34674	1.03121	0.241724	-0.7342	-0.46322	-0.83367	-0.81654	-0.33156	-0.51607
5	Errfi1	0	2.66386	2.7127	0.640421	1.05947	0.15725	0.421304	0.106311	0.180895	-0.04413	0.73999
5	Mafk	0	1.30092	1.97223	0.497261	0.954565	-0.2775	-0.60437	-1.03233	-0.75168	-1.11528	-0.09227
5	Def6	0	1.18011	0.493556	0.147803	-0.62777	-1.57208	0.49879	0.475265	0.794875	-1.80981	-1.14793
5	Myom1	0	-0.23551	0.363595	-1.57089	-2.40438	-1.48824	-1.8177	-2.65594	-1.70213	-1.70712	-2.16841
5	Emp1	0	2.40086	2.81511	0.615389	1.31999	1.25438	1.37992	-0.08716	0.946851	0.085789	-0.13028
5	Tlr7	0	1.42822	2.36413	0.996905	1.67107	0.713476	0.724108	-0.83148	-0.52563	-0.31376	-0.00913
5	Ret	0	3.32477	2.55227	1.72259	2.12899	1.30549	0.721564	0.362306	1.17831	0.531699	1.214
5	Txnip	0	2.25075	2.71915	0.780549	0.006762	0.176116	0.206224	0.496026	0.691743	-0.59961	1.24685
5	Gpr179	0	3.42614	2.0463	2.21977	3.73978	2.16405	2.87726	1.7338	1.74113	2.33515	1.59598
5	Rhoj	0	2.09132	2.87875	2.43075	1.85379	0.036821	1.13864	0.340299	0.756742	0.874033	0.412488
5	Cbfa2t3	0	1.33506	-0.18084	-2.48492	-0.9567	-1.2623	-1.85873	-1.13105	-0.68881	-0.96875	-1.10394
5	Ddit4	0	2.25668	2.07112	1.19221	0.837999	0.478772	0.215933	-0.52987	-0.57933	-0.58351	0.15134
5	Ncf1	0	0.57137	2.24651	0.412837	0.493275	0.275676	1.00532	-0.52072	-1.32126	-1.15634	-0.23806
5	Arl4d	0	2.01486	1.04623	-0.72524	-0.84669	-1.1189	-0.17318	-0.05418	-0.54135	0.448263	1.42157
5	Mov10	0	0.207108	-1.3703	-2.22852	-1.74317	-2.41182	-1.96928	-3.04183	-1.28996	-1.7696	-2.45262
5	Gadd45g	0	2.05685	0.222274	-0.41201	-1.53519	-1.5494	-1.03145	-0.04029	-0.56144	-0.79027	-0.01131
5	Gem	0	2.36592	1.08834	-0.23898	1.49958	0.544935	0.889807	0.939927	-1.00825	0.653269	2.16852
5	Ccdc88b	0	1.57997	2.00392	0.650464	-1.04304	-0.34368	1.07161	0.240899	0.452442	-1.16402	0.901896
5	Asap3	0	0.742021	1.83742	-0.39999	2.22624	1.52292	1.12031	0.174986	-0.3199	-0.58876	-0.35871
5	Ccdc121	0	0.856796	2.36977	1.2561	1.68738	-0.16684	1.32951	1.10738	1.79464	0.163251	3.07561
5	Tcf15	0	2.37505	-0.0309	-0.85221	-0.50528	-1.44824	-0.54858	-0.80236	-0.88693	0.319803	-0.12383

5	Cldn1	0	1.52442	2.93538	1.07774	2.34872	1.03395	0.483251	1.61985	-0.44971	0.31941	1.22479
5	Tnfrsf12a	0	1.07429	0.012099	-0.2092	-0.14811	-2.18601	-2.10975	-1.35055	-1.04376	-1.23403	-1.28521
5	Hmox1	0	2.41033	2.45359	1.62209	0.22799	0.291747	0.518112	0.858461	0.210685	-0.61114	0.177976
5	Gal	0	2.63156	1.55538	2.38723	2.99883	2.86351	1.5161	1.07856	0.582695	1.58416	0.655172
5	Gm11627	0	1.9143	1.90139	2.27926	0.09195	-0.50257	0.163613	0.011461	-0.44107	1.17213	0.543252
5	Hs3st3b1	0	1.41375	3.0424	1.53702	3.17489	2.83829	0.741438	1.23415	1.28976	1.34002	1.0774
5	Cebpb	0	2.96969	1.16131	1.11028	-0.08052	0.798366	0.786518	1.5415	0.731145	1.53037	2.93445
5	Rin3	0	1.60211	2.04255	-0.12644	-0.69159	0.273837	-0.68013	-0.10926	-0.68298	-1.12742	-0.69524
5	Ung	0	2.86091	1.5392	-0.61456	0.944734	0.673518	-0.09054	0.03737	0.001213	1.17975	-0.15038
5	B4galt1	0	0.892678	2.85422	-0.16532	0.562062	0.226279	0.612001	-0.26777	-0.74598	-0.80035	0.160089
5	Nes	0	1.63396	-1.10952	-2.55825	-1.02381	-0.7763	-0.479	-0.99577	-0.24671	-0.84413	-0.7113
5	Stbd1	0	1.01791	0.439919	-1.47376	-0.74082	-1.22336	-1.21702	-1.60289	-2.48363	-1.0557	-1.27157
5	Gm14685	0	0.860257	2.73548	1.31999	1.57915	0.201404	0.510678	1.17726	-1.22849	0.606719	0.82298
5	Icosl	0	0.942126	2.26998	0.576292	-0.96223	-1.16033	0.137167	0.009202	1.18621	0.447862	1.3486
5	Utp14b	0	2.20658	3.0887	1.16117	0.821145	1.11038	0.355496	-0.42287	0.941302	0.28119	1.38944
5	6530402F1	0	-0.36167	0.757004	-1.82308	-1.54553	-1.35589	-1.49007	-1.72685	-1.6985	-2.69549	-2.03898
5	1600029O	0	0.767639	0.630246	-0.33474	0.327617	-0.04649	0.035041	-1.44195	-2.58344	0.205564	-1.05016
5	Cfap53	0	2.14474	1.54321	1.17147	3.10797	0.301813	1.42841	0.408409	-0.00156	2.14689	0.912313
5	Tlr4	0	0.359264	2.07489	-1.34366	-1.19941	1.01812	0.391908	0.190693	0.490288	0.016114	1.37422
5	Grin2d	0	1.06774	0.610355	0.238079	-0.11676	-1.75423	-0.03567	0.751644	0.144938	-2.21438	0.018172
5	Acacb	0	1.05044	2.69301	1.8209	1.40258	-0.45877	-0.29917	1.05639	1.01499	-0.24738	1.38435
5	Ppl	0	1.33082	1.74941	0.750339	-1.12521	-1.51574	0.653027	0.215675	0.430796	-0.17884	1.21776
5	Ly6a	0	1.75709	2.37833	3.07801	0.326215	0.333286	0.454734	0.916554	0.539856	0.108502	1.01868
5	Smco3	0	2.13489	3.14205	2.55811	1.89988	1.64006	1.10929	1.32298	1.96738	2.59489	3.61858
5	Dsp	0	1.23919	2.50945	1.79407	0.988162	-0.05061	-0.37823	1.31372	0.371182	-0.83503	0.366371
5	Ctla2b	0	1.61083	1.36319	1.56137	0.097597	-0.57666	1.0935	-0.9509	-0.46487	-0.94236	0.892752
5	Alkbh4	0	2.2866	2.39985	1.47688	0.320365	1.16748	0.778148	1.26191	1.33696	2.61556	3.22701
5	Gch1	0	3.4193	3.07623	2.03033	1.47211	1.01005	1.81104	2.31615	1.0356	0.862174	2.01383
5	Tiparp	0	2.33255	2.73468	0.98019	2.30733	2.9373	1.69244	1.38523	1.74685	3.13359	3.23969
5	Plekhf1	0	2.52138	2.51253	1.15502	0.285407	-0.27329	0.363946	-0.14533	0.196668	0.908545	1.48236
5	Itga2b	0	2.97956	2.55983	2.55414	2.97857	1.5957	3.13522	1.20827	2.23094	2.31879	0.883583
5	Fam179a	0	2.69977	3.1772	1.42504	1.37785	2.59287	1.68468	2.22063	2.54194	0.286523	2.08784
5	Atxn7l2	0	0.875011	-0.81557	-1.21415	-1.78872	-1.54062	-0.32109	-1.54805	-1.32244	-2.90614	-1.22517
5	Pmaip1	0	3.31143	3.60431	1.97806	1.8701	1.86629	1.66782	1.02932	1.26747	2.35436	1.62386
5	Col5a3	0	0.787894	1.48435	1.64682	0.535292	-0.26229	1.84092	-1.54877	-0.11137	0.237913	-0.1836

			pre	1h	3h	6h	1d	3d	1w	2w	1m	2m	6m
5	Icam1	0	1.48379	0.71704	0.064353	0.999635	-0.35995	-0.19144	0.199162	-0.75708	-0.30366	2.70068
5	Rtkn2	0	1.38974	2.95752	1.10856	1.57644	0.728364	-0.74807	-0.07017	0.647748	0.157573	0.495531
5	Dnaic2	0	3.07154	2.98509	2.44966	1.05178	0.268482	2.18849	1.64301	1.42953	1.4071	2.08282
5	Kif23	0	0.477566	0.51481	-1.78707	-0.58003	0.070791	-0.19184	-2.50221	0.216678	-0.17278	-1.52533
5	Tirap	0	2.14917	3.49234	1.88261	1.00675	1.24426	0.980005	1.21885	-0.03507	0.804569	1.77049
5	Zfp931	0	3.38149	2.3468	1.63761	1.83288	3.41814	2.15573	1.37523	1.63072	3.13317	1.85917
5	Irx2	0	3.32485	2.26409	2.81922	1.74812	2.57953	1.79968	3.17819	1.36708	0.909364	2.3071
5	Tppp3	0	2.6595	2.49462	2.90724	2.41706	0.118279	1.14555	1.32945	1.10755	1.76038	2.25527
5	Gpx3	0	3.74536	2.5211	3.32363	3.43849	2.98535	2.76948	2.30007	2.07194	2.22599	2.76692
5	Apold1	0	-0.20783	-0.0783	-1.52307	-0.97142	-1.45668	-2.32139	-2.42323	-2.75768	-1.41981	-0.26672
5	Ms4a6d	0	2.23523	2.84849	1.57902	2.40778	1.67506	2.46265	0.011671	1.10668	0.649521	0.748393
5	Hspa1a	0	0.723387	2.26771	1.2438	-0.16072	-0.36339	0.188903	0.476099	0.266006	1.83024	2.50425
5	Fabp7	0	2.32209	0.106754	0.454816	1.96815	2.48879	0.138366	0.390948	-0.35347	1.40944	0.813852
5	Ccdc81	0	2.88536	1.33675	1.06565	2.61478	1.46789	1.45502	1.55418	0.750723	2.44058	-0.24528
5	St8sia6	0	0.463408	3.82742	1.76743	2.04051	2.33656	1.12233	1.63355	1.17702	1.48348	1.53193
5	Hcrt	0	2.71822	2.72206	1.46102	1.98198	1.23742	0.798467	3.40338	0.797054	1.7398	2.0906
5	Cracr2b	0	1.43211	3.0482	1.08219	0.435995	0.368007	1.61678	0.603715	0.355967	-0.67179	1.52726
5	Serpine1	0	1.85714	2.49927	1.76127	2.40077	0.511104	3.01081	1.67843	2.4464	0.191591	1.81258
5	Ccl28	0	3.29275	3.36538	2.71039	1.83008	1.7941	3.57577	2.4111	2.18109	2.00161	2.78969
5	Slc18a2	0	2.92207	1.90402	2.40513	0.916139	1.75774	2.61242	1.04888	1.0585	2.502	3.25067
5	Flnc	0	2.42748	3.74267	2.2441	2.14755	1.87724	3.52418	1.77938	2.21436	2.27109	3.09346
		pre	1h	3h	6h	1d	3d	1w	2w	1m	2m	6m
	cluster1	0	0.763413	0.874826	1.509735	1.72894	1.342794	1.952587	1.994447	1.853675	2.094874	2.123894
	cluster2	0	-0.88219	-0.9595	-1.55744	-1.34626	-1.0194	-0.24323	0.179366	0.12112	0.024861	0.433232
	cluster3	0	-0.0521	0.417961	0.589853	0.356259	-0.03169	-0.68733	-1.21393	-1.20746	-1.09781	-1.37531
	cluster4	0	-0.19216	0.02449	0.087158	0.100204	1.213134	1.686457	0.701016	0.33005	-0.03389	0.144795
	cluster5	0	1.752426	1.964733	0.90935	0.689299	0.160729	0.35047	0.098584	0.040474	0.124862	0.54592
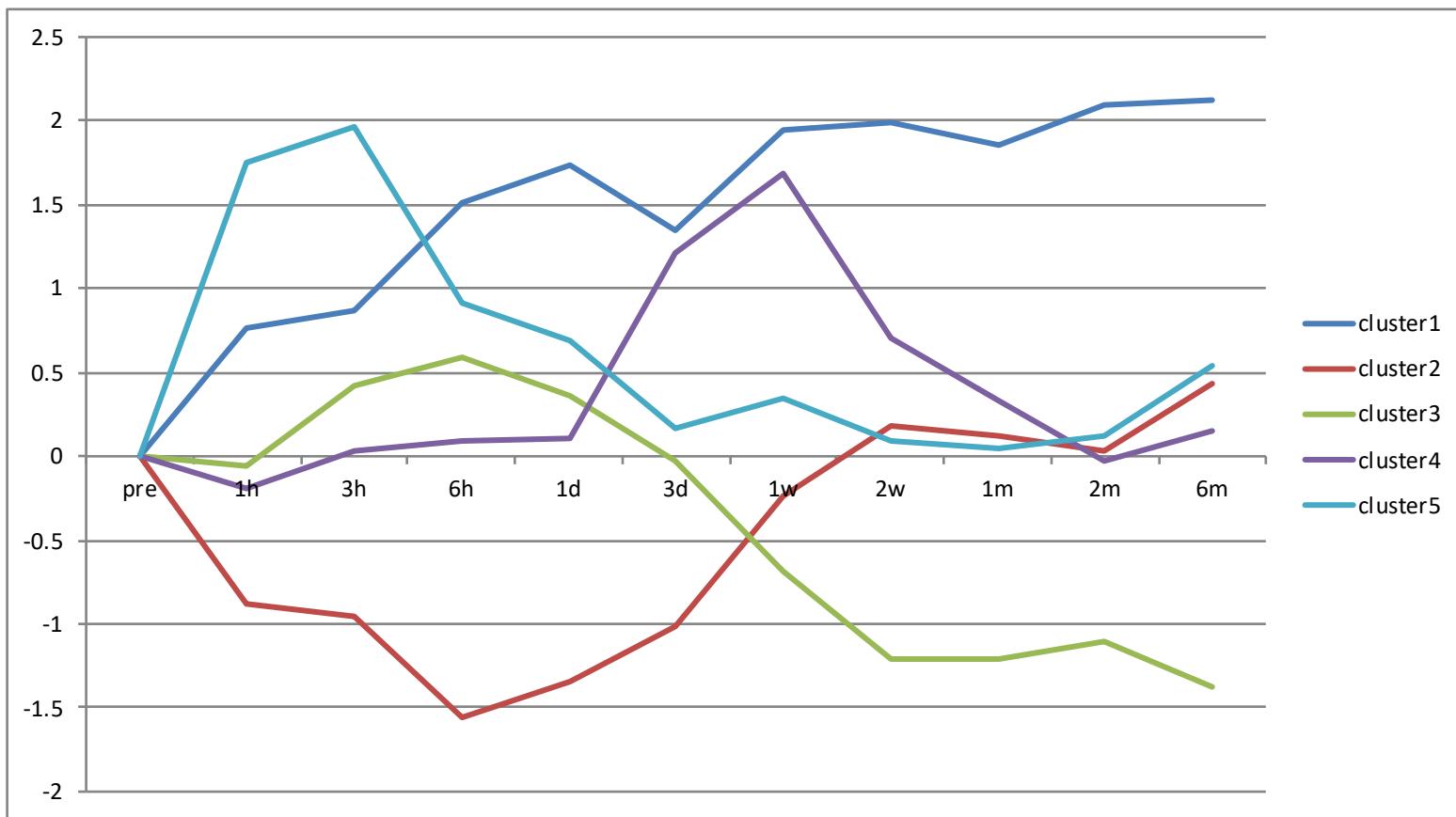
Ipsilateral

cluster	Gene	pre	1h	3h	6h	1d	3d	1w	2w	1m	2m	6m
1	0610040J01Rik	0	-0.190018	0.541435	0.709241	0.591293	2.57285	2.16279	2.41253	1.33794	0.946539	-0.0880033
1	1110008P14Rik	0	-0.612116	-0.987415	-1.26459	-1.39878	0.599156	-2.52925	-2.69412	-1.57001	-2.05252	-1.48904
1	1600029O15Rik	0	0.222293	0.00092	-0.19145	0.704023	2.03555	-0.473837	-1.15748	-1.51699	-0.950388	-0.999022
1	1700012B09Rik	0	0.691843	0.208789	1.17107	1.69272	3.34086	1.97946	1.694	2.0003	2.53386	2.12334
1	1700017B05Rik	0	-0.148148	-0.27989	-0.0729305	0.450106	1.96946	1.98942	1.28805	-0.212399	-0.242715	-1.13021
1	1700112E06Rik	0	-0.0901118	0.170617	0.304478	0.288425	2.9078	2.04384	2.02341	1.54943	1.21978	1.2051
1	1810011H11Rik	0	0.107459	-0.137194	-0.123356	-0.172286	1.87104	2.26717	1.77564	0.764659	1.01449	-0.726042
1	1810058I24Rik	0	0.0481386	-0.122733	0.323743	0.308282	2.90666	2.17483	1.06699	-0.129187	0.603284	0.203793
1	2410004P03Rik	0	0.0628966	-1.41696	-0.20239	0.0018373	1.33344	1.5031	1.05569	1.3051	2.04961	0.949596
1	2610305D13Rik	0	1.49634	0.398152	0.772161	1.56334	3.15979	2.62831	1.06702	1.48698	2.70459	0.913297
1	2810417H13Rik	0	0.0069149	-0.0794139	-0.112324	0.621192	2.76976	1.82842	1.01354	0.222926	0.129113	-0.679559
1	2810474O19Rik	0	0.556626	0.600815	1.02641	1.02861	3.43933	1.93599	1.8748	0.766598	1.11856	-0.0640256
1	3110039M20Rik	0	-1.31587	-2.60066	-1.77975	-0.414056	-0.897943	-1.66141	-1.98655	-2.63353	-3.23089	-0.858699
1	4831440E17Rik	0	-0.994933	-1.91819	-1.99178	-1.99014	0.0372983	-1.44926	-2.35366	-2.1433	-1.86579	-3.34508
1	4930523C07Rik	0	2.87938	0.999875	1.45563	1.67376	3.12894	3.02218	2.5487	2.4025	2.69872	1.25607
1	4930556M19Rik	0	-0.302139	-0.120899	-0.733456	-0.139691	1.82998	2.24178	1.73776	0.342448	-0.0783533	0.143803
1	5031426D15Rik	0	0.229949	-0.921438	-1.09277	-0.999567	0.789671	-1.8761	-2.34437	-2.08855	-1.54678	-1.46903
1	5730559C18Rik	0	-0.82022	-0.969677	-1.46042	0.345321	1.52466	1.31203	0.683737	-0.555374	-0.971453	-0.79647
1	6330415B21Rik	0	0.470623	-0.845324	-0.884346	-0.25407	1.2136	-1.20818	-2.02167	-1.6566	-1.00225	-1.80459
1	6430571L13Rik	0	0.658272	0.0986491	0.355177	-0.761595	1.01838	-0.877233	-1.74833	-2.27886	-0.82435	-0.305046
1	9530091C08Rik	0	1.05794	-0.152457	-0.17736	-0.287721	1.55834	-0.997906	-1.54734	-1.50205	-1.20336	-0.878232
1	9930111H07Rik	0	0.792075	0.0281491	-0.109031	-0.0240523	1.31266	-1.27532	-1.54375	-1.81603	-1.13803	-1.08665
1	A4galt	0	-0.346921	0.43681	1.21018	1.54473	3.02595	2.09192	2.0595	1.60076	1.46646	0.579019
1	A630001G21Rik	0	-0.255938	0.0319914	-0.35605	1.07198	2.19074	2.17593	2.17572	1.03722	1.28173	0.25595
1	A930013F10Rik	0	0.0895511	-0.0802722	-0.0507993	-0.551428	0.693656	-1.21464	-1.36083	-1.53349	-1.70992	-2.63369
1	AA467197	0	0.854141	0.808417	1.24989	2.76783	3.29125	2.68623	2.44048	1.6919	1.71666	1.24872
1	Abcc3	0	-0.442456	-0.26586	-0.39906	0.404924	1.84986	2.29698	2.02656	0.80738	0.778573	0.105745
1	Abhd17a	0	-1.02956	-2.5786	-3.34118	-1.84921	-0.677974	-2.50007	-2.74629	-2.19702	-2.5775	-1.93734
1	Abi3	0	-0.607756	-0.614222	-0.24094	0.790113	2.2468	1.77823	1.82645	0.687484	0.60633	0.0059103
1	Acadl	0	0.215293	0.894013	1.00196	0.916896	3.76079	1.97649	1.59168	1.45797	1.45533	1.64689
1	Acads	0	-0.0826616	-0.370318	-0.124677	0.685558	2.55519	2.14805	2.00755	0.78682	0.888127	0.78787
1	Acp5	0	0.142923	-0.234963	-0.0243677	-1.02874	1.73854	1.28667	1.59455	0.303442	1.49676	-0.990525
1	Acvrl1	0	0.0407916	-0.651579	0.379061	2.44643	2.06263	1.68746	1.77748	0.569116	0.680071	0.171047
1	Adam8	0	0.0958023	0.283225	0.396501	1.74164	2.09877	2.31987	1.74462	0.202462	1.12466	-0.690084

1	Adamts10	0	-0.544237	-1.52772	-1.16927	-1.00466	1.18805	0.551792	-0.118265	-1.10982	-0.716949	-2.40695
1	Adamtsl4	0	0.224759	0.440225	0.991845	1.70726	3.06557	2.48461	2.52066	1.67809	1.76517	1.10005
1	Adap2	0	-0.197402	-0.191794	0.038807	0.581292	2.36001	2.26223	2.06834	0.890625	0.372974	0.16629
1	Adgre1	0	-0.0645644	0.212384	0.071633	0.534239	2.26434	2.59148	2.25764	1.3408	1.36209	0.543434
1	Adgre5	0	-0.323193	-0.403044	0.245109	1.11027	2.2088	1.98993	2.34772	1.30373	1.57581	0.866393
1	Adora3	0	-0.565349	-0.303824	-0.527469	0.740839	1.91095	1.97328	2.17075	1.05011	0.565612	0.660831
1	Adssl1	0	0.470555	0.367634	0.93293	1.48757	3.21084	2.41179	2.61981	1.62132	1.38597	1.17257
1	AF251705	0	0.0194016	0.0862761	-0.0572075	0.139733	2.10152	2.18603	2.28184	1.41579	1.28128	-0.0273862
1	Aga	0	-0.314535	-0.666392	0.105233	0.563528	2.05175	1.93007	2.40725	0.756645	0.887224	0.775224
1	Agtrap	0	0.382301	0.392034	0.428204	0.738647	3.15025	2.12539	2.26485	1.10008	1.57065	0.48011
1	AI662270	0	0.381672	0.351452	0.374197	1.37706	3.01125	2.06134	2.37027	1.66978	2.12944	0.819226
1	Aif1	0	0.152348	0.0928567	0.0126121	0.546118	2.67841	2.2293	2.26006	1.24831	1.09403	0.455968
1	Aim2	0	0.396079	0.438539	0.476152	0.540597	2.77164	2.13189	1.95589	0.627181	0.583439	-0.559626
1	Akip1	0	-0.426573	-0.88003	-0.0410432	0.56524	2.52174	1.66874	1.39541	1.04106	1.2648	0.759403
1	Akna	0	-0.573746	-0.907334	-0.218567	0.362736	1.83772	1.44908	2.17347	0.832603	0.953384	-0.0357698
1	Akr1b8	0	0.714267	1.06269	1.24474	2.465	3.49979	2.49996	2.26521	1.27078	1.5899	0.876583
1	Aldh16a1	0	0.182812	-0.572164	-0.632293	1.08008	2.44554	1.88041	1.4791	0.789298	0.125979	0.0801334
1	Aldh1l2	0	-0.0187783	0.189287	0.415967	1.91606	2.33741	2.36292	2.56273	1.61014	1.19833	0.695341
1	Aldh3b1	0	0.08535	0.0291454	0.313157	0.979199	2.70015	2.47424	2.26242	1.04294	1.48669	0.925099
1	Aldoart1	0	0.0948651	-0.848711	-0.667222	-0.511687	0.795225	-1.70046	-2.85431	-1.46861	-1.38999	-0.498574
1	Alox5	0	-1.02048	-0.206866	-1.38126	0.430855	1.04733	1.58331	1.3721	-0.99193	-0.543755	0.295609
1	Alox5ap	0	0.108656	-0.148869	-0.0456106	0.545939	3.00175	1.89911	1.66468	0.527742	0.913131	0.240962
1	Amdhd2	0	-0.264287	-0.675967	-0.630105	0.419767	2.5401	1.36131	1.61947	0.319111	0.312063	-0.04914
1	Ang	0	0.137236	-0.4157	0.0627228	0.0473225	2.25593	2.44845	1.92647	0.886418	0.911975	0.34149
1	Apbb1ip	0	-0.229219	0.0530021	0.435072	1.20923	2.25122	2.52516	2.37314	1.20094	1.08159	0.358773
1	Apbb3	0	-1.00173	-2.53956	-1.43044	-2.02612	-0.640106	-2.78809	-3.49161	-1.43367	-1.90717	-1.37148
1	Apobec1	0	0.0521667	0.0698079	0.22503	0.883444	2.63481	2.28233	2.14831	1.2804	1.63298	0.273048
1	Apobec3	0	0.0113972	0.758946	0.891574	1.47546	3.12984	2.26745	2.23387	1.20278	1.20533	0.275437
1	Apoc2	0	0	0	0.984655	1.02136	2.59452	2.30538	2.12464	1.40501	1.65774	0
1	Arap1	0	-0.126789	-0.222208	-0.224961	0.705439	2.06176	2.18804	2.37483	1.21273	1.3973	0.685336
1	Arap3	0	-0.872826	-0.239558	0.346597	1.1248	2.3515	1.76018	0.98162	0.0008129	-0.560102	-0.0701652
1	Arhgap11a	0	-0.0191995	0.405116	0.312543	1.2764	2.81122	2.42389	1.97229	0.798544	0.761601	0.158254
1	Arhgap17	0	0.675988	0.50031	0.472357	1.23314	2.65967	2.6559	2.23851	0.652538	0.951782	-0.112371
1	Arhgap19	0	-0.0020615	-0.0515731	-0.0963039	-0.189749	1.86595	2.29042	2.30425	0.732508	0.749361	-0.049975
1	Arhgap22	0	0.0731594	-0.405575	-0.404747	-0.364231	2.37909	1.44672	0.825626	-0.772377	-0.308259	-0.810825
1	Arhgap25	0	-0.275386	-0.613621	-0.578632	-0.118036	1.77147	2.00766	1.9061	0.914386	0.897444	0.0669512
1	Arhgap30	0	-0.288139	0.222798	0.279455	0.952383	2.3684	2.26857	2.38569	1.13502	1.48242	0.249933
1	Arhgap4	0	-1.04629	-0.939401	-0.991538	-0.497562	1.47802	1.29961	1.66784	-0.0301029	0.24226	-0.370478

1	Arhgap9	0	0.280148	-0.89325	-0.176711	0.627527	1.93628	1.92284	2.03012	1.37946	1.59155	0.334764
1	Arhgdib	0	-0.367238	-0.283609	-0.35888	0.654716	2.47206	1.89741	1.91581	0.678603	0.957418	0.295405
1	Arhgef19	0	-0.426874	-1.18035	-2.71046	-1.43252	-0.463527	0.785868	0.189999	-0.384833	0.675426	-0.518947
1	Arl11	0	-0.440641	-0.476463	-0.245635	0.632007	2.06858	2.02521	1.95836	1.11754	1.33621	0.295234
1	Arpc1b	0	-0.0254821	0.291358	0.572416	1.69484	2.94343	2.28443	2.078	0.842059	1.02665	0.461154
1	Arrb2	0	0.0623088	-0.209384	-0.442486	0.193074	2.67936	2.14598	1.31309	0.254968	0.425293	0.328612
1	As3mt	0	0.660204	0.591794	0.49752	0.934821	2.99165	2.2524	2.83155	1.55328	1.92565	0.948702
1	Asap3	0	-0.395869	0.771111	0.656094	1.33697	2.61616	2.0559	2.28182	0.745496	1.09563	-0.150422
1	Aspm	0	-0.853337	-0.334663	-0.787526	-0.168652	2.44597	1.66781	0.816203	0.134795	0.3153	0.217901
1	Atf5	0	0.435285	0.610683	0.604719	2.10442	3.44056	1.2745	1.2727	0.436127	0.73741	0.186655
1	Atoh8	0	0.256407	-0.161318	1.04555	0.99327	3.0646	2.09192	2.2426	1.53408	1.24984	0.670282
1	Atp5g1	0	-0.343706	-0.920081	-1.38597	-0.210881	1.07473	-1.74071	-2.36517	-1.62021	-1.31612	-1.77712
1	Atp6ap1l	0	-0.597898	-1.20336	-1.1808	-0.802689	1.03564	-1.79293	-2.18896	-1.58928	-2.35749	-1.72698
1	Atp8b4	0	-0.407028	-0.896916	-0.244455	-0.244169	1.60944	0.564207	1.90485	-0.558773	1.61006	-0.466805
1	Atxn7l2	0	-1.04524	-1.84966	-1.82035	-2.33327	-0.700376	-2.67795	-2.60227	-3.10876	-3.11255	-1.9106
1	AU022793	0	-1.30055	-0.84531	-0.203136	0.354491	1.51214	1.89368	1.37469	0.863759	0.890027	-0.0001086
1	Aurkb	0	-0.185657	0.500295	0.57671	0.798267	3.0459	2.32117	1.63804	0.897267	0.460455	0.274868
1	AW112010	0	-0.0204067	-0.9766	-0.609367	-0.0089058	1.31548	1.25837	2.37948	1.23114	1.25239	0.520941
1	AY512931	0	0.784529	-0.154215	0.137455	-0.680853	1.47121	-1.37484	-0.957317	-1.28215	-0.590297	-1.96074
1	Azin2	0	-1.02857	-2.0235	-3.86269	-2.32415	-1.81815	-0.91696	-1.47723	-1.13318	-1.62436	-0.845466
1	Bak1	0	0.218824	0.678029	1.3872	1.38963	3.28525	1.69151	1.20488	0.399921	0.0092729	0.0274886
1	Bank1	0	-0.524533	-1.42133	-2.62477	-0.684135	-0.758572	-0.50677	-1.11745	-0.0461357	1.12478	0.540381
1	BC021785	0	0.0551297	0.0788026	-0.374617	-0.425316	1.56822	-1.15988	-1.7935	-1.32245	-1.12391	-1.80064
1	BC028528	0	-1.15737	0.187033	-0.789763	0.0663151	1.86868	1.48244	1.74639	0.393928	0.232737	-0.457368
1	BC035044	0	-0.865876	0.340708	0.471744	1.02008	2.4412	1.73267	1.93075	1.03788	1.47128	-0.151067
1	Bfsp2	0	0.707344	0.0032874	-0.34464	0.339101	2.64565	2.20544	2.01928	1.60033	1.29906	1.27873
1	Bgn	0	-0.0772087	-0.0982583	-0.214718	0.350716	2.37754	2.27288	1.97072	0.840457	1.53093	0.601514
1	Bin2	0	-0.11518	-0.251335	-0.21422	0.901482	2.2448	2.27106	2.04866	0.907092	0.581931	0.0792539
1	Birc5	0	-0.38033	-0.257062	-0.182811	-0.0780505	2.59392	1.41569	0.290743	-0.459728	-0.449221	-0.871033
1	Blvrb	0	0.279919	-0.0181224	0.216409	1.28997	3.0549	1.70802	2.41322	0.800815	1.28154	0.986975
1	Bmp4	0	-0.727753	-0.37499	-0.902677	-0.285887	1.56745	2.09984	1.5906	0.630073	0.652302	0.277198
1	Bmyc	0	-1.60863	-2.3636	-3.38107	-1.18012	-0.25857	-1.83907	-2.5977	-1.86372	-1.75232	-0.848746
1	Bnip2	0	0.334705	0.930773	0.871161	2.00551	3.16133	2.74461	2.47204	1.49477	1.59874	1.10294
1	Brca1	0	0.332069	0.679055	0.45445	-0.0368948	2.77992	2.46323	1.05628	0.503439	-0.103785	-0.033687
1	Btd	0	-0.135121	-1.45694	-0.725695	0.417299	1.81	1.63984	1.52092	0.569462	0.560748	0.341281
1	Bub1	0	0.319583	-0.254701	0.179656	0.669981	2.84178	2.05866	1.02219	0.0392162	0.443144	-0.394122
1	Bub1b	0	0.487551	-0.243577	0.412873	-0.0345772	2.83883	2.2245	1.1103	-0.0428518	0.223922	0.354594
1	C030029H02Rik	0	0.753385	-0.503446	-0.364107	-1.18257	1.23403	-0.769297	0.647579	0.678111	1.57281	1.9002

1	C1qa	0	0.108616	0.0347636	0.0486019	0.641498	2.37461	2.3555	2.37618	1.43834	1.1811	0.371717
1	C1qb	0	0.0329908	0.0559782	0.157446	0.735135	2.37373	2.39939	2.38481	1.41292	1.26418	0.372696
1	C1qc	0	0.107024	-0.116542	-0.0872722	0.636829	2.23372	2.36518	2.27919	1.30401	1.15484	0.242471
1	C1ql2	0	-0.835592	-0.770476	-0.770109	-0.565954	1.58508	0.386344	0.205664	1.01933	2.00276	1.00359
1	C1qtnf4	0	-0.631448	-1.91732	-2.57779	-1.55939	0.702788	-1.55487	-2.57564	-1.21442	-1.39434	-1.54978
1	C1qtnf6	0	0.346241	-1.12262	0.18087	1.1245	1.57717	1.93341	2.34745	0.360339	0.0076843	0.528274
1	C1rl	0	1.40813	1.06367	1.47699	2.38017	3.50525	2.62545	2.1882	1.44234	1.31755	0.431744
1	C230037L18Rik	0	-1.29119	-1.26129	-1.52728	-0.184766	0.359667	-0.48919	-2.23099	-1.68773	-2.67359	-2.20002
1	C330027C09Rik	0	0.103879	0.60596	0.566447	0.491341	3.02616	2.2619	1.61826	0.294196	0.453063	0.0330827
1	C5ar2	0	-0.453465	0.941441	0.455398	0.368465	2.4767	2.42364	2.02399	1.06992	1.03776	0.0185311
1	Calb2	0	1.27403	0.409846	0.940405	0.739227	3.4478	0.374706	-0.199803	0.758069	1.79873	1.0432
1	Cald1	0	0.387402	0.742018	0.705387	1.67298	3.53169	2.31259	1.8032	0.888141	1.77876	1.08021
1	Calhm2	0	-0.818274	-1.00858	-1.01786	-0.814549	1.71471	1.18589	1.06405	0.70989	1.00553	0.378293
1	Capg	0	0.128936	0.51114	0.644142	1.71448	2.808	2.47047	2.32463	1.44017	2.04766	0.623751
1	Capn3	0	-0.529383	-0.975473	-0.875146	-0.653145	1.61573	1.41115	1.5994	0.510142	-0.321827	-0.459176
1	Car4	0	-1.03414	-1.15436	-2.54001	-3.27312	-0.789767	-2.24795	-2.69173	-1.51652	-2.62908	-2.31864
1	Card9	0	0.554442	0.0121664	0.226933	1.38185	2.85892	2.53163	2.26633	1.3912	1.44703	1.0641
1	Casc5	0	0.146835	0.143101	-0.144201	-0.0160802	2.64666	2.07819	1.48702	0.660578	0.732195	-0.47261
1	Casp1	0	0.0186193	0.0913476	-0.517882	0.904791	2.29552	2.10609	2.27869	1.17798	1.56808	0.901139
1	Casp6	0	-0.0316056	0.264429	0.163971	-0.0959451	2.50385	2.22411	1.88229	1.31398	1.04173	-0.0736434
1	Casp7	0	-0.232462	0.181826	-0.103312	0.260001	2.45542	1.99138	1.59223	0.251096	0.401569	-0.688255
1	Casp8	0	-0.359115	0.116004	0.283931	1.18561	2.46857	2.32455	2.11419	0.888638	0.786646	0.156852
1	Ccdc102a	0	-0.403303	-0.81915	0.221002	0.648286	2.04724	1.82492	1.84027	0.153719	1.63958	0.254278
1	Ccdc109b	0	0.928616	0.7921	0.970101	1.24242	3.94494	1.62594	2.0823	1.37361	1.94059	1.682
1	Ccdc122	0	-0.522715	-0.0041151	0.703205	1.30292	2.89377	1.8283	1.64553	0.190997	0.926796	0.370573
1	Ccdc18	0	0.628085	-0.0540736	-0.173842	0.114313	2.93431	1.56663	0.445117	0.204135	-0.0473528	-0.682858
1	Ccdc36	0	-1.2015	-1.19045	-1.27211	-1.25547	0.0563659	-1.78233	-3.28507	-1.81426	-2.01187	-0.0662486
1	Ccdc61	0	-0.301047	-2.39437	-2.0461	-0.57909	1.13771	0.450071	-0.301819	-0.326142	-0.641863	-0.26395
1	Ccdc80	0	-0.538618	-0.253359	0.036253	0.718049	1.996	1.85066	2.11961	0.464391	-0.232083	-0.294173
1	Ccdc88b	0	-0.295376	-0.440526	-0.286086	0.516051	1.88123	2.21596	2.17125	0.798323	0.659753	0.103517
1	Cchcr1	0	-0.0899543	-0.424526	-0.423823	1.68345	2.30106	1.74348	1.70115	0.598177	0.719791	-0.152141
1	Ccna2	0	0.483034	0.222512	0.649042	0.591779	3.20117	2.42724	1.35685	0.480209	0.4258	0.478935
1	Ccnb1	0	0.216915	0.0730518	0.773499	-0.151433	2.74682	2.27647	1.21307	0.615732	0.186684	-0.271958
1	Ccnb2	0	-0.633774	0.229613	-0.0134703	-0.518457	2.53956	1.77077	0.797346	0.263074	0.225099	-0.637686
1	Ccnd1	0	-0.0349813	0.235063	0.524154	1.09961	2.94148	1.60121	0.632572	0.037716	-0.550746	-0.256945
1	Ccr2	0	-0.178814	0.0160339	0.620421	1.31952	2.84437	1.22493	2.35712	1.4496	1.72682	0.35175
1	Cd151	0	0.0016794	-0.0303433	0.300673	2.0165	2.45057	2.38705	2.21671	1.33327	1.27976	0.857104
1	Cd180	0	-0.42043	-0.241022	0.0030457	0.993037	2.1762	2.30516	2.18525	1.08819	1.034	0.748245

1	Cd248	0	-1.07375	-0.802298	-0.404178	0.268501	2.19754	1.68802	0.856108	0.204431	0.106828	-0.382128
1	Cd300a	0	0.448746	0.666196	0.309057	0.502333	2.56487	2.25634	2.64604	1.29313	1.74991	0.159577
1	Cd300lf	0	0.0850263	0.411217	0.471581	1.47135	2.76391	2.20903	2.44365	1.06106	1.43691	0.177738
1	Cd300lh	0	-0.330946	-0.431847	-0.226118	0.414689	1.98811	1.72073	1.50149	0.870687	1.17902	-1.03383
1	Cd33	0	-0.461146	-0.268458	-0.860454	-0.660068	1.21509	1.86135	2.0483	1.00257	0.426417	0.157408
1	Cd37	0	-0.0962206	-0.0819112	0.0723359	0.351514	2.41423	2.23937	2.25515	1.21959	1.02006	0.443829
1	Cd40	0	0.452593	0.510475	1.27437	1.86773	3.2838	2.17532	2.78414	1.22826	1.44411	1.13319
1	Cd63	0	0.183857	0.32747	0.556296	1.83071	3.10983	2.24038	2.23796	1.28087	1.50451	0.847356
1	Cd68	0	-0.0902248	0.283592	0.259686	0.994689	2.43673	2.56282	2.17923	1.39327	1.41673	0.246978
1	Cd72	0	-0.172325	0.150228	0.100627	1.65348	2.29317	2.18066	2.18302	1.21293	1.56525	0.0820376
1	Cd9	0	0.0576447	0.248802	0.576732	1.44715	2.51182	2.55543	2.60551	1.56221	1.52532	0.785617
1	Cdc20	0	-0.0843828	0.511004	-0.103643	0.279805	2.37	1.52807	0.8624	0.157839	-0.360864	-1.4334
1	Cdc42ep1	0	-0.240812	-1.73731	-0.259319	1.7589	1.77778	0.811874	1.10713	0.418367	0.470093	0.503839
1	Cdc42ep5	0	0.991682	0.0417848	0.918678	1.41554	3.20672	2.69503	1.53674	2.21421	1.74662	1.82824
1	Cdc45	0	0.522342	0.630063	1.11456	0.559938	2.81665	3.00319	1.83943	0.973898	0.309658	0.656223
1	Cdca2	0	-0.172776	-0.42154	0.355124	0.0741778	2.86518	2.03533	1.20922	0.412906	0.324079	0.469743
1	Cdca3	0	-0.0807749	-0.0316506	0.15979	-0.421836	2.48437	1.92124	0.89965	0.0393868	-0.0806158	-0.795184
1	Cdca7l	0	0.675081	0.266257	0.872503	1.76493	1.8181	3.26447	1.79949	1.10921	0.872451	-0.196388
1	Cdca8	0	0.265045	0.0490174	-0.0249694	-0.0229335	2.84828	1.98076	1.13897	0.617087	-0.169856	-0.175665
1	Cdk1	0	-0.0749454	-0.203846	-0.356161	0.167471	2.73368	1.9317	0.97683	0.0447236	-0.0213479	-0.0906751
1	Cdk2	0	-1.1622	-0.320028	-0.470624	1.2397	1.93973	1.78521	1.22594	-0.180266	0.580511	0.823541
1	Cdkn1c	0	0.138232	-0.0044928	-0.287201	-0.150669	2.35171	1.84342	1.06039	0.875052	2.17567	1.69425
1	Cdkn2b	0	2.11792	0.340318	1.46567	2.57355	3.06698	3.12702	2.46303	1.89603	1.98209	1.61313
1	Cdkn2c	0	-0.15415	-0.56538	-0.442664	0.156683	2.63919	1.85487	1.27014	0.813376	0.222631	0.314828
1	Cdkn3	0	-0.192686	-0.338323	-0.103038	-0.831585	2.63912	1.56377	0	-0.419775	-0.152045	0.138817
1	Cdt1	0	1.17988	1.2053	1.52136	2.1102	3.76955	2.63752	1.39321	0.901032	1.01661	1.11249
1	Cebpa	0	0.219957	0.232008	0.196324	0.729065	2.62975	2.59791	2.29562	0.902917	1.03851	0.555214
1	Cela1	0	-0.50879	-0.346769	0.643722	1.21448	2.47039	2.22923	1.96719	0.938188	1.05669	0.584591
1	Cenpa	0	1.59081	1.03826	0.628501	-0.398565	2.62917	1.52696	0.914411	-0.145131	-0.2763	-0.443619
1	Cenpe	0	-0.300831	-0.0519287	-0.0165382	-0.0405463	2.90024	1.83939	0.883611	0.332462	0.0955292	-0.0927353
1	Cenph	0	-1.09766	-0.693726	-0.935928	0.0750963	1.70131	1.15144	-0.14142	-0.238359	-1.8621	-0.509033
1	Cenpi	0	-0.0481086	-0.0539351	-0.122712	0.687715	2.85094	1.90174	0.854383	0.504545	0.0475156	-0.467723
1	Cenpm	0	-0.327049	-0.100373	-0.0068807	-0.193597	3.00123	1.04089	-0.638661	0.158282	0.15405	-0.217089
1	Cenpn	0	0.879858	0.903362	-0.0516344	0.743903	3.1269	1.75746	0.607454	0.161781	-0.353875	0.0266395
1	Cep55	0	0.188951	-0.327266	0.196214	0.564839	2.897	2.11597	1.13922	0.359037	0.188141	-0.0305363
1	Cfap126	0	0.13562	0.702372	0.217976	0.700638	2.94499	1.92794	1.93791	1.68889	2.47992	1.43386
1	Cfp	0	0.118205	-0.281698	0.459459	0.524973	1.98523	-0.0935779	2.23177	-0.0540621	1.24431	-1.11035
1	Chaf1a	0	0.0069076	-0.174847	-0.480598	0.729316	2.71692	1.8879	1.29974	-0.31033	0.509104	0.828695

1	Chd7	0	1.09755	1.08433	1.34851	1.46408	3.74844	2.3149	1.82852	0.949522	0.944217	0.452292
1	Chek2	0	-0.0246622	-0.471613	-0.114667	0.492365	2.81152	1.7662	1.13606	0.155168	0.0848305	-0.215454
1	Chil1	0	0.0788739	0.0926474	0.429305	1.59213	2.87924	0.749854	1.29908	2.5429	1.6115	0.48396
1	Chil3	0	-0.350264	0.65377	0.210098	1.50055	2.28894	2.34266	1.19652	-0.325831	0.674241	-0.302279
1	Chst1	0	-0.028705	-0.745036	-0.911095	-1.10186	0.175944	-2.10601	-2.4405	-2.14489	-2.32586	-1.89587
1	Ciita	0	-0.0278387	-0.663869	-0.141559	0.551485	2.14663	1.17025	2.26596	1.40011	1.85849	0.660488
1	Cited4	0	-0.456513	-2.32795	-1.39755	-2.70868	-0.984406	-0.388698	-2.47519	-1.03918	-2.3035	-0.222146
1	Ckap2	0	-0.0225369	0.249035	0.431655	0.992732	2.74363	2.33228	1.43036	0.617355	0.297942	-0.383127
1	Ckap2l	0	-0.314709	-0.142041	-0.0192168	0.0709745	2.70451	1.99131	0.972755	0.302078	-0.192618	-0.132683
1	Cks1b	0	-0.979009	-0.354228	-0.829203	-0.136479	2.42834	1.15117	0.218601	-0.46317	-0.326064	-0.787246
1	Cks2	0	0.636162	0.646447	0.242422	0.636754	3.42987	2.23684	0.971531	0.495781	0.787576	0.430791
1	Clcf1	0	-0.0654001	-0.300342	0.408015	1.81858	1.88779	0.844423	0.49976	-0.122661	-0.668131	-1.47348
1	Cldn11	0	0.172539	0.368171	0.55512	2.1633	2.72757	2.45202	1.54021	0.664043	0.355858	0.320495
1	Cldn5	0	-0.637026	0.0334336	0.389614	0.926231	3.08265	1.76335	1.02851	0.657919	1.37765	0.999391
1	Clec14a	0	-0.379021	0.0505324	0.431753	0.870789	2.68473	2.47894	1.88194	1.16277	1.05817	0.843182
1	Clec1a	0	0.382564	0.784749	0.547405	-0.149362	2.75615	2.46088	1.99038	0.440549	1.77889	0.929211
1	Clec4n	0	1.05412	1.50026	0.0653949	1.81121	2.30082	0.951713	2.7036	1.01845	2.14063	-0.328293
1	Clic1	0	0.378872	0.745594	1.10162	1.97299	3.25647	2.56051	2.309	1.30308	1.41447	0.670961
1	Cln3	0	1.25473	0.793941	0.961538	0.733467	2.85664	3.14156	2.63326	1.17773	1.29818	0.862848
1	Clspn	0	-0.578271	-1.12255	-1.555	-0.615127	1.89944	1.03989	0.0160963	-0.767616	-0.724628	-0.891543
1	Cmklr1	0	-0.914506	-0.46536	-0.581898	0.524172	1.59174	1.70172	2.06231	0.448771	0.367931	-0.308764
1	Cmtm3	0	0.880467	0.791149	1.25343	1.31534	3.07654	2.71098	2.5297	1.24079	1.32727	0.160816
1	Cmtm7	0	0.109562	-0.364881	-0.145826	0.124768	2.34644	1.91942	2.15695	0.822235	1.04792	-0.0294751
1	Cmtm8	0	0.062227	0.672437	-0.220387	1.34533	3.03321	2.2472	1.75528	1.19842	1.59155	0.960061
1	Cnn2	0	1.00299	0.234046	0.111019	1.61542	2.99382	2.34883	2.30665	1.18622	1.85549	0.780292
1	Col16a1	0	-0.46983	-0.805753	-0.453467	1.0936	2.30777	1.65673	1.33037	0.299047	0.0241234	-0.057318
1	Col20a1	0	0.270223	0.263584	-0.347381	0.899667	1.66228	3.01143	0.913598	0.232187	0.105556	-0.404595
1	Col26a1	0	-2.30855	-2.45103	-2.82759	-1.79433	-1.80624	-0.351223	-0.0723838	-1.79214	-1.82443	-2.40385
1	Col5a2	0	-0.50536	-0.191245	-0.094336	0.402652	1.70494	2.488	2.12595	0.660661	0.811657	0.160629
1	Col5a3	0	0.212882	0.442483	1.21349	1.58775	2.9777	2.32205	1.13513	-0.0779391	0.899537	0.0874238
1	Col7a1	0	0.0395123	0.144911	0.0271775	0.672729	1.90601	2.99978	1.32926	0.203423	0.115358	-0.0710121
1	Col9a2	0	0.0700883	-0.455528	-0.973217	0.540484	1.83759	1.50045	1.73434	0.729742	2.06134	1.0265
1	Cotl1	0	0.202436	0.197875	0.442372	0.787673	2.92003	2.07241	1.79724	0.491321	0.538662	-0.318344
1	Cracr2b	0	-1.03373	-0.958577	-0.441929	0.0908882	1.74157	1.682	1.55254	-0.0020228	0.417439	0.870852
1	Crip1	0	0.67938	0.447454	0.869556	0.622444	3.23166	2.21615	2.30881	1.57963	2.30853	1.24577
1	Crocc	0	-1.01156	-2.50128	-3.39029	-2.23772	-1.82596	-0.599263	-1.18204	-1.02181	-0.772668	-0.617833
1	Crtap	0	-0.149263	0.0577823	-0.724229	1.10495	2.15498	2.22983	1.92332	1.20729	1.36495	0.954431
1	Csf1r	0	-0.078698	-0.270208	-0.385903	-0.0781586	1.85259	2.08178	2.23761	0.82597	0.42659	-0.0805111

1	Csf2ra	0	-0.433658	-0.461949	-0.578469	-0.157342	2.39418	1.2148	1.14352	0.153272	-0.144375	-1.0379
1	Csf2rb	0	-0.144489	0.0234027	0.119581	1.02773	2.00404	1.64495	2.15435	0.674061	0.901684	-1.0769
1	Csf2rb2	0	0.0302125	-0.0964134	0.508838	1.60575	2.28744	2.20315	2.57749	1.42271	1.61912	0.43133
1	Csf3r	0	0.158718	-0.0490798	0.0071361	0.132857	2.10663	2.18561	2.42414	1.38373	0.794721	0.0500309
1	Csk	0	-0.0928714	-0.174195	-0.0749408	1.03522	2.79385	2.0235	1.80862	0.573073	1.22307	0.445942
1	Cspg4	0	-0.114947	-0.906483	-0.745586	-0.732621	1.69032	1.96708	1.33482	-0.0267976	-0.111948	-0.104314
1	Csrp2	0	0.597168	1.08477	1.05816	1.37325	3.6066	2.49561	2.16618	0.972997	2.14365	1.43875
1	Cstb	0	0.894683	1.25312	1.3172	2.12081	3.67065	2.36724	2.21748	1.01016	1.88783	0.714196
1	Ctdsp1	0	-0.208514	-0.46695	0.013139	1.02389	2.92784	1.59632	1.67457	0.774622	0.884216	0.431129
1	Ctsa	0	-0.0646541	-0.205394	-0.119922	0.331051	1.87659	2.47777	2.22628	0.908946	0.696627	0.0665018
1	Ctsb	0	0.0830549	0.15039	0.242179	0.542792	2.30117	2.69385	2.26258	1.01851	1.0699	0.290531
1	Ctsc	0	-0.0187384	-0.132919	0.202421	1.60684	2.34008	2.15268	2.33883	1.10524	1.31681	0.195675
1	Ctsd	0	0.113425	0.0657834	0.121306	0.470468	2.39187	2.64483	2.21041	1.21032	1.04113	0.63145
1	Ctse	0	-1.36425	-1.36425	-0.611892	0.174452	1.22256	1.14107	1.35988	1.10147	0.775361	0.317847
1	Ctsh	0	0.0211675	-0.187102	0.0429793	0.347375	2.40642	2.14752	2.27123	1.34334	1.39893	0.63562
1	Ctsl	0	0.291603	0.474172	0.594471	1.1805	2.75297	2.51169	2.47299	1.44815	1.97199	0.48042
1	Ctsz	0	0.0798081	0.103121	0.266538	0.898784	2.46474	2.54673	2.37682	1.30887	1.25614	0.487398
1	Ctxn2	0	1.28549	0.829695	0.726132	1.19675	2.94603	0.821785	-0.746045	1.44107	1.30546	2.31729
1	Cx3cr1	0	-0.252717	-0.392074	-0.237314	0.706067	1.99518	2.06292	2.26257	0.717428	0.52522	-0.0309725
1	Cyba	0	0.213396	0.0635864	0.218354	0.907347	2.57174	2.40503	2.31195	1.48444	1.6592	0.531356
1	Cyp27a1	0	0.142419	0.177191	0.234149	-0.882087	2.58593	1.41005	2.11617	0.78234	0.929341	0.410529
1	Cysltr1	0	0.277798	-0.198734	0.632985	0.773664	2.40452	2.59788	2.35524	1.58373	1.31549	0.54819
1	D17H6S56E-5	0	0.0520543	0.694987	0.715341	1.10723	2.87379	1.95994	1.38425	0.0331193	-0.0003108	-0.41919
1	Dap	0	-0.454838	-0.404986	0.160689	1.14931	2.52499	2.07109	1.62057	0.841372	0.918202	0.071525
1	Dbf4	0	-0.146091	0.339265	0.341511	0.949521	3.13355	2.26183	1.31721	0.501093	0.450599	0.599124
1	Dbi	0	0.711928	0.288963	0.755346	0.97487	3.42031	2.21876	2.17498	1.62977	1.83588	1.00804
1	Dbp	0	-1.36392	-1.86825	-2.2184	-2.05239	0.714156	-1.04382	-0.593325	-1.03542	-1.97399	0.212701
1	Dcn	0	-0.28039	0.142801	-0.0098525	1.15505	2.45773	1.35977	2.28236	1.68397	2.07193	0.692787
1	Dcxr	0	-0.286202	-1.3511	-0.475893	0.372904	1.59384	1.67066	1.70062	0.213332	0.389773	-0.538377
1	Ddah2	0	-0.0153063	-0.497352	-0.66202	0.669648	2.92815	1.41803	1.06983	0.209172	0.539506	0.637415
1	Ddias	0	-0.0631284	0.187694	0.315222	1.78888	2.75144	2.15462	0.839473	0.03738	0.0069844	0.366784
1	Ddx11	0	0.041751	0.466902	1.10318	0.680781	3.29558	1.92672	1.40151	0.630641	0.604779	-0.0873008
1	Def6	0	-0.0567763	0.317974	0.368762	1.20396	2.53928	2.59741	2.31149	0.983748	0.941951	0.394802
1	Dennd1c	0	0.609691	0.66129	0.0003044	0.515406	2.64984	2.52451	2.37053	1.54741	1.35282	0.378773
1	Dera	0	0.201845	0.725602	0.508496	1.46856	3.01434	2.84914	2.14114	1.22179	1.63361	1.50029
1	Dhrs1	0	-0.0562309	-0.172115	-0.0152287	0.526481	2.47224	2.37014	2.07297	0.710511	0.718915	0.556816
1	Dhrs4	0	0.526712	0.839136	0.575451	0.592223	3.54105	2.40469	1.56666	1.13049	1.28581	0.826789
1	Dhx58	0	-0.574	-0.431009	0.131161	0.24634	1.76052	1.89674	2.25182	0.561894	0.78998	-0.436445

1	Diap3	0	0.301726	0.390578	0.781054	0.710786	3.57982	1.96062	0.670409	0.729583	1.15153	0.520184
1	Dkk2	0	0.931396	0.996497	1.06143	0.818693	3.08724	2.19788	2.50579	2.01581	0.888371	0.0110362
1	Dlgap5	0	-0.277221	0.439032	0.634803	0.351251	2.89252	2.16378	1.30308	0.349269	0.0269962	0.0107489
1	Dna2	0	-1.13327	-0.0078802	0.0446416	0.457717	2.24492	1.94282	1.4166	0.317051	0.319899	-0.264994
1	Dnase2a	0	0.100305	-0.107508	0.0337852	0.737223	2.60351	2.2861	2.06586	1.10374	1.08704	0.190547
1	Dnm2	0	0.457706	0.315026	0.731841	1.69313	2.23965	3.03925	2.52358	1.27046	0.885223	0.518613
1	Dock2	0	-0.218837	-0.201601	-0.355049	0.563098	2.07179	2.16984	2.21001	1.13498	1.12598	0.322438
1	Dock6	0	-0.479533	-1.23536	-1.07446	-0.55817	1.09115	1.87341	1.40117	0.156559	0.434744	-0.258447
1	Dock8	0	-0.148421	-0.118882	-0.106006	0.375377	1.94852	2.40313	2.32109	1.04077	1.07085	0.264696
1	Dpp7	0	0.531007	0.586958	0.584931	0.493822	2.76774	2.68768	2.46922	1.36844	1.40676	0.486134
1	Dtl	0	0.235637	0.0060414	-1.26707	0.334013	-0.563181	-0.644799	-1.51356	-1.41821	-2.8012	-1.89808
1	Dusp27	0	-1.38983	-0.890806	-0.625088	-0.502659	-0.378022	1.42818	0.0117779	-0.657716	-1.48665	-2.4997
1	Dynlrb2	0	0.332691	0.421495	0.438073	0.324394	2.82137	2.02045	1.81491	1.09544	1.84354	-0.306834
1	Dynlt1b	0	-0.0681304	-0.864759	0.289288	1.03827	2.1324	-0.453068	-0.275199	-1.32165	-1.04852	-0.756148
1	Dynlt1c	0	0.717655	0.545281	1.9027	1.7101	3.08103	2.89277	2.65695	1.67795	1.65622	0.924224
1	Dynlt1f	0	1.14272	-0.396838	0.25425	1.56169	1.98177	1.65609	1.47755	0.901827	1.60471	3.15818
1	E030024N20Rik	0	0.707099	0.620745	0.0663211	0.0984396	2.81054	1.23293	0.0538172	-0.0800666	0.533908	2.43293
1	E230029C05Rik	0	0.937243	0.827462	0.980618	1.49981	3.50576	2.30634	2.92006	1.51225	1.22997	1.58349
1	E2f2	0	-1.00642	-1.03334	-0.210002	-0.172544	1.84558	1.65439	0.765079	0.128313	-0.658949	-0.829154
1	E2f8	0	-0.425894	0.298298	-0.0714198	-0.213441	2.28921	1.95528	0.770751	0.0565938	-0.817649	-0.568715
1	E430018J23Rik	0	-1.52175	-1.49841	-3.5163	-1.77154	-2.84369	-1.23005	-2.22334	-2.12046	-3.05039	-2.85571
1	EC12	0	-0.652969	-1.57519	-1.05539	-1.02912	1.14018	-1.64453	-1.48973	-1.45693	-1.94173	-2.53402
1	Ecm1	0	0.351812	0.651967	0.943945	1.51174	3.01814	2.70665	2.06915	1.05932	1.41936	0.187298
1	Ecscr	0	-0.942408	-0.112464	0.361702	1.56194	2.36599	1.98011	1.25857	0.406683	0.19002	0.211547
1	Ect2	0	-0.217943	-0.497009	0.311693	-0.473046	2.34819	1.86283	1.46704	0.654916	-0.435719	0.095299
1	Eda2r	0	0.649478	0.668484	0.438017	3.21596	2.68796	2.08349	2.12047	1.80524	1.69816	1.44755
1	Edem1	0	-0.25983	0.214401	0.400293	0.900339	2.28665	2.60739	2.07279	0.373892	0.563292	0.156727
1	Edem2	0	0.0071073	-0.445117	-0.768473	-0.0328768	2.28476	1.83442	1.60776	0.252608	0.352751	-0.190845
1	Eef2kmt	0	0.852607	0.835676	1.09999	1.6496	3.96191	1.97811	1.80207	1.54087	1.57106	0.928406
1	Efemp2	0	0.0301475	-0.4611	0.0402955	0.997282	2.89772	1.70504	1.45466	0.616576	0.953073	-0.149921
1	Ehbp1l1	0	0.183745	0.447947	0.439401	1.34217	2.90049	2.25501	2.19509	0.529276	1.09777	0.119645
1	Ehd4	0	0.0074226	0.598949	0.747637	1.23118	2.78699	2.49861	2.51828	0.783451	0.858337	0.593382
1	Eif2ak2	0	0.579914	0.53203	0.858136	1.85099	2.51474	2.58015	2.8073	0.780077	1.03597	0.302209
1	Elk3	0	-0.598447	0.360017	0.551342	1.49121	2.50061	2.41548	1.89232	0.808185	0.947297	0.284035
1	Eln	0	-0.374932	-0.326425	0.0157559	0.589436	1.14031	2.9373	1.3605	-0.0174373	0.135887	-0.258907
1	Emcn	0	-0.174386	1.09656	0.185689	2.36033	2.52561	2.53345	1.12063	1.03284	0.821016	0.339958
1	Emilin1	0	-0.798683	-0.488695	-0.0550586	0.360013	2.20841	1.93815	1.68813	0.493704	0.986968	0.0587097
1	Eml3	0	0.372179	0.330604	0.766313	1.3719	3.26572	2.44452	1.96082	0.844939	1.39909	0.614101

1	Emp3	0	-0.224884	-0.159354	0.411054	1.39239	2.88465	2.03375	1.72765	1.00756	1.51922	0.514096
1	Enkur	0	0.118224	-0.320993	-0.879575	-0.309265	1.60939	1.01966	0.790523	1.48907	2.05552	1.80783
1	Enpp6	0	-0.175189	-0.088964	-0.235249	0.260663	1.77468	2.62891	2.12418	1.16796	0.555459	0.683517
1	Entpd1	0	0.376829	1.32162	0.0173902	1.03759	2.16841	2.35434	2.81228	1.11598	0.760229	-0.0322654
1	Ephb4	0	-0.482774	0.0959527	0.419586	1.99854	2.76598	1.92176	1.7535	0.804526	1.05665	0.729866
1	Erich2	0	-0.063335	0.335233	0.20505	1.85957	2.82849	1.14046	1.16859	1.83794	2.5122	1.08313
1	Ermard	0	0.137113	-0.156655	0.864879	2.68752	2.48592	2.15708	1.95749	1.39996	0.960277	1.01899
1	Espl1	0	-0.381057	-0.75428	0.517014	0.253631	2.22148	1.91369	0.906982	-0.14161	-0.206117	-0.784086
1	Esyt1	0	0.215171	0.153108	0.624355	0.970561	2.55162	2.58291	2.31165	0.847608	1.52354	0.177006
1	Ezh2	0	0.175555	0.46226	0.414098	0.889409	3.46952	1.8155	0.80767	0.420232	0.73711	0.151847
1	F11r	0	0.239192	0.0119518	0.476409	1.11357	2.91306	2.32506	2.35046	0.998279	1.10743	0.757269
1	F13a1	0	0.0106553	0.152684	0.38409	1.39018	2.753	2.15026	2.0032	0.662834	0.880414	-0.136765
1	Fabp5	0	0.0797836	0.203928	0.185482	0.413245	3.09302	1.83358	2.12468	1.14068	1.29204	0.740721
1	Fabp7	0	0.957316	0.31796	0.516133	0.954868	3.55416	1.99278	1.47331	0.745612	1.05211	0.253774
1	Fadd	0	-0.897118	-0.505621	-1.06487	0.332963	1.70681	1.66718	1.32593	0.556942	0.22289	-0.715892
1	Fam105a	0	-0.161421	-0.016846	-0.198098	-0.561259	1.97673	2.20134	1.8869	0.7599	0.719813	-0.13487
1	Fam111a	0	0.129783	0.0598846	0.32695	1.65755	2.75823	2.37053	1.9124	1.23193	1.2656	0.209818
1	Fam167b	0	0.522487	0.0226703	0.184495	0.572729	2.65588	2.35162	2.42558	1.42824	1.11063	0.520528
1	Fam183b	0	0.531794	-0.169682	-0.799413	0.719785	1.7592	0.856476	1.14042	1.4358	2.46994	2.1008
1	Fam212a	0	0.132403	0.0933817	-0.267898	0.553097	2.80918	2.19679	1.89719	1.03961	1.32292	1.06399
1	Fam216b	0	0.0506778	-1.23358	-0.602557	0.239848	1.5304	0.930861	1.37909	1.61894	1.72327	1.32831
1	Fam227a	0	-0.26815	-0.967895	-0.994728	-0.898606	-0.036919	-1.94044	-2.89789	-2.12538	-2.53776	-1.62956
1	Fam46c	0	1.04078	1.40325	1.07776	1.31215	2.86239	3.09131	3.12765	1.72768	1.36559	0.880314
1	Fam64a	0	-0.0207899	0.0262953	-0.129455	0.0520003	2.52202	1.69177	0.833034	-0.845623	-0.204147	-0.572559
1	Fam72a	0	0.80687	-0.0138146	0.497977	0.626257	2.24353	2.03607	0.671546	0.357125	1.10822	-1.43266
1	Fanci	0	-0.44793	-0.313798	-0.932437	-1.04947	2.00671	1.73	1.04899	0.256272	0.132028	0.602508
1	Fblim1	0	0.250269	0.55051	0.430143	1.26764	2.78228	2.50294	2.31698	1.32037	1.54112	0.170652
1	Fbll1	0	-0.731726	-2.65869	-3.36625	-1.29617	-0.438512	-1.82023	-1.40575	-1.45774	-0.862759	-0.502007
1	Fbln2	0	0.801321	0.759162	1.26503	1.47073	3.28468	2.82858	1.55557	1.15093	0.91494	0.191997
1	Fbn2	0	-0.590674	0.309213	-0.335143	0.195505	2.75961	1.70725	0.542518	-0.235317	-0.178116	-0.0923359
1	Fbxl12os	0	0.647772	-1.30488	0.234232	-0.0362667	0.282097	-0.0343082	-0.714062	-2.16299	-1.40297	-2.1407
1	Fbxo36	0	1.2658	1.10306	1.95178	1.42092	3.63082	3.07029	2.45234	1.73831	2.54595	2.02234
1	Fbxo5	0	-0.0844135	-0.0478952	0.125688	-0.114573	2.8502	1.31534	0.692504	0.0603071	0.0828092	-0.994956
1	Fcer1g	0	0.0386692	0.35888	0.307921	1.03802	2.74549	2.46501	2.2124	1.32682	1.35685	0.35281
1	Fcgr1	0	-0.487586	-0.364893	-0.132621	0.809077	2.1696	1.89573	2.09362	0.807195	0.929494	-0.11578
1	Fcgr3	0	0.237751	0.357164	0.579455	1.13058	2.43509	2.5057	2.69588	1.67653	1.47319	0.323457
1	Fcgrt	0	-0.311857	-0.887684	-1.18738	-0.433884	1.60434	1.45728	1.62357	0.874598	0.783933	0.574016
1	Fcrls	0	-0.0609421	0.112328	0.054195	1.1681	2.45214	2.28762	2.18465	1.19264	0.721977	0.0271618

1	Fermt3	0	-0.415101	-0.519962	-0.074743	1.00299	1.9076	2.02293	2.14235	0.767345	0.755119	-0.193465
1	Fes	0	0.0801412	0.329401	0.440567	1.41627	2.47403	2.28573	2.46401	1.4165	1.34608	-0.0432933
1	Fgd2	0	-0.348092	-0.506019	-1.03357	-0.163343	1.86487	1.85533	1.6985	0.466821	0.391494	0.0334923
1	Fgd3	0	-0.053305	0.605907	0.540928	1.57299	2.91951	1.11701	2.06299	0.649682	0.621206	-0.516872
1	Fgfrl1	0	-0.376773	-0.460221	-0.335069	1.26089	2.71206	1.42282	1.21043	0.460531	0.441372	-0.248217
1	Fhod1	0	-0.230703	-0.084841	0.622563	0.938768	2.28427	2.58044	1.89626	0.930056	0.770672	-0.160289
1	Fignl1	0	0.221153	0.360714	-0.367073	1.04471	2.88591	2.37638	1.4119	0.551191	0.610017	0.415897
1	Fkbp10	0	-0.451014	-0.419479	-0.384504	0.996209	2.43581	1.96049	1.71269	0.50266	0.710416	0.65935
1	Fkbp7	0	-0.531457	-0.444315	-0.0023239	-0.229433	2.18617	1.59581	1.89704	0.661377	1.39949	-0.0215655
1	Fli1	0	-0.616354	-0.0645124	0.336371	0.92796	2.15071	2.10637	2.27619	0.864164	0.918025	-0.0048921
1	Flna	0	0.211197	0.77401	0.699531	2.23373	2.48896	2.57847	2.35289	1.01258	1.38806	0.122795
1	Fmnl3	0	-0.445858	-0.247131	0.250831	0.739714	2.146	2.33886	2.08576	1.14916	1.02796	0.156603
1	Fmo1	0	-0.398609	-0.149436	-0.183653	-0.620096	1.92722	1.59785	2.06335	1.23398	0.033096	-0.0970907
1	Fn1	0	-0.131851	0.321367	0.323209	1.38062	2.3984	2.42999	2.26222	0.729249	0.806245	0.0147477
1	Folr2	0	-0.205412	-0.747091	0.114395	0.94797	2.02452	2.18981	1.88071	0.711384	1.10783	-0.113242
1	Foxm1	0	0.292849	-0.0583415	0.372073	0.446498	2.88801	2.00892	1.22165	-0.0724541	-0.137057	-0.0654411
1	Foxq1	0	0.956359	0.66801	0.402787	1.2236	3.57132	2.44735	1.0345	1.08775	1.34647	1.93342
1	Frat2	0	0.507696	0.109336	-0.462971	-0.658345	1.65238	-1.49826	-1.63282	-1.5242	0.100624	0.202758
1	Frmd8	0	0.0237616	-0.412359	0.235807	1.11378	3.01105	1.97106	1.56374	0.968608	0.905624	0.494872
1	Frrs1	0	0.157942	0.751128	0.582818	0.833328	3.36181	2.28411	1.90374	0.649304	1.11697	0.806838
1	Fstl1	0	0.280641	0.61145	0.93936	1.88828	2.59021	2.62038	2.33621	0.574052	0.872611	0.15274
1	Ftl1	0	0.0814114	-0.169763	-0.0638506	1.00207	2.86326	2.06188	1.46532	0.656854	1.0214	-0.0688098
1	Fuca1	0	0.364702	0.306077	0.38912	0.626596	3.0676	2.6102	1.96255	1.21384	1.12898	1.00291
1	Fxyd1	0	0.388639	0.260069	0.423865	0.781398	2.9504	2.20598	2.11778	1.89395	2.06599	1.78856
1	Fxyd5	0	-0.216826	0.35603	0.851823	1.39484	2.72217	2.30526	2.1944	0.838015	1.5908	0.225345
1	Fxyd7	0	-0.401187	-1.24389	-2.05913	-2.37174	0.0412528	-2.39518	-2.39699	-2.10933	-2.53333	-1.62863
1	Fyb	0	0.237483	0.338039	0.623136	1.14922	2.59911	2.59373	2.5061	1.40538	1.32159	0.253901
1	Gal3st1	0	-0.589074	-0.732962	-0.674555	0.727176	2.31408	1.68867	1.10256	0.851883	0.4649	-0.166781
1	Gal3st4	0	-0.379464	-0.558508	-0.867964	0.118821	1.80745	1.8273	1.757	0.788466	-0.229441	-0.0735479
1	Galm	0	1.33721	0.171048	0.226215	0.732004	2.39672	2.67341	2.8325	1.63586	1.44323	1.2532
1	Galns	0	-0.642285	-0.704777	-0.182299	-0.160892	1.8517	1.91084	1.40799	-0.002186	0.0506404	-0.801638
1	Galnt12	0	0.230587	-0.501546	-0.505834	-0.192531	1.88804	2.47035	1.63025	0.595431	0.939247	0.268515
1	Galt	0	-1.67109	-1.61	-1.74456	-1.82312	-0.548765	-2.64624	-2.7217	-2.43172	-3.55868	-2.26459
1	Gas2l3	0	0.472402	0.394725	1.25355	0.340325	2.33076	1.89552	2.56344	0.401442	0.735506	-0.594614
1	Gas6	0	-0.068819	-0.26871	-0.101675	0.0314547	1.58259	2.75324	2.03382	0.7538	0.798873	0.37203
1	Gba	0	-0.479416	-0.235067	0.377181	0.700475	2.43731	2.30907	1.5218	0.408607	0.294098	-0.0918959
1	Gbp7	0	-0.187805	0.394161	0.600945	1.34904	2.53414	2.20987	2.65697	0.852615	1.04367	0.35649
1	Gcnt1	0	0.270401	0.496911	0.334571	1.23783	2.33283	2.78131	2.4114	1.0349	0.728096	0.133247

1	Gdf1	0	-1.96746	-2.7289	-3.07759	-1.47673	-2.77138	-3.14787	-3.14022	-2.91449	-3.24909	-3.13094
1	Ggt5	0	0.250175	-0.19277	-0.747478	0.542316	1.68412	2.46213	1.75498	1.21836	1.1934	-0.137614
1	Gins1	0	0.34364	1.25374	0.785279	1.72838	3.03327	2.48623	1.56326	0.580108	0.689398	-0.0810804
1	Gins2	0	-0.177802	0.392103	-0.226683	1.15825	2.6055	2.05675	1.46654	0.584321	0.116173	-0.37861
1	Gja4	0	2.29745	1.33686	-0.194175	1.77495	2.77056	2.77096	0.714734	0.907306	1.10706	1.20411
1	Glipr1	0	-0.044553	-0.540312	0.215641	1.03127	2.00859	1.95193	1.78193	0.998282	1.56271	-0.650465
1	Glipr2	0	0.296815	0.300931	0.543812	2.41589	2.65377	2.06238	1.92006	0.720099	1.06169	-0.0442981
1	Glmp	0	0.0941654	-0.320271	0.0591766	-0.0640542	2.58498	2.14591	1.35122	0.0857744	0.208221	-0.122363
1	Glrp1	0	0.628418	0.723081	0.980866	1.15934	2.98129	2.94765	2.69183	1.45273	1.26208	0.974341
1	Gltp	0	0.0564888	0.0016143	0.0823908	0.993656	3.03358	1.78975	1.57361	0.299524	0.290027	0.0404478
1	Gm10094	0	0.0264626	-0.921055	-2.93507	-0.597832	0.308839	0.403519	0.277405	0.350332	0.328586	0.365654
1	Gm11681	0	1.87288	1.34692	0.8351	0.272526	2.80721	1.00575	1.51383	2.55788	1.51607	3.10505
1	Gm13139	0	0.52169	0.288336	0.351109	1.38717	2.79483	2.30283	2.60131	1.7803	1.76397	0.671012
1	Gm20172	0	0.67924	-0.177756	-0.7598	-0.388418	1.43359	-1.38007	-2.1951	-1.25551	-0.939549	-0.332623
1	Gm29683	0	-0.535239	-0.406088	-0.528764	-0.750283	0.832671	-1.23568	-1.45759	-1.8108	-1.99094	-2.70279
1	Gm3230	0	-0.602997	-0.940521	-1.21708	-1.42125	0.279825	-2.28924	-2.58647	-1.56151	-2.8542	-1.58416
1	Gm3414	0	0.69752	1.06997	1.38636	1.52695	3.28798	1.51827	2.32953	0.247677	0.289513	0.364919
1	Gm4285	0	0.634042	0.499543	-0.210696	1.6183	2.29289	0.952633	-0.866257	-0.664432	-0.485294	-0.375428
1	Gm4980	0	-0.373059	-1.62317	-1.67892	-0.629675	-0.223877	1.92847	0.509671	-1.01083	-0.49376	-0.458705
1	Gm5086	0	-0.914119	-1.03369	-1.3606	-0.452122	0.970228	1.65352	1.40568	0.356994	0.471488	-0.309124
1	Gm5523	0	-0.670159	-0.937446	-0.383235	-0.986917	-0.0717347	-0.424883	-2.29394	-1.72279	-2.93434	-2.28086
1	Gm6548	0	-0.329899	0.149341	0.54509	0.92117	2.50408	1.84055	1.82425	0.0880651	0.0546332	-0.524098
1	Gm6682	0	-0.510468	-2.54151	-1.8698	-3.09453	0.0821273	-0.874588	-1.03587	-1.31917	-0.636246	-0.784328
1	Gm7609	0	0.462042	-0.0111109	-0.0554613	0.0146291	1.17559	-1.1836	-1.42347	-1.99632	-1.29273	-1.56814
1	Gm973	0	0.435423	-0.199564	-0.273527	-0.0217718	2.64776	1.48752	1.29597	1.42141	1.97751	1.65772
1	Gmfg	0	0.141945	0.140828	0.154689	0.4625	2.86946	2.05963	2.18766	1.28746	1.09881	0.362434
1	Gmip	0	-0.306336	-0.602734	-0.317962	-0.0718304	1.89347	1.85244	1.74255	0.212657	-0.0706179	-0.720277
1	Gmpr	0	-0.869661	-2.68032	-3.1463	-1.36045	-0.151777	-0.881379	-0.871864	-0.774729	-0.74198	-0.224948
1	Gna15	0	-0.922909	-0.320467	-0.290668	0.446332	1.96701	1.82303	1.74576	0.464521	0.138209	-0.454904
1	Gnai2	0	0.117413	0.0928426	0.153981	0.649574	3.2898	1.93522	1.46029	0.823976	1.02728	0.464968
1	Gng11	0	0.221812	0.287606	0.356239	0.637651	3.59652	1.21754	1.04284	1.17109	1.60432	1.42976
1	Gng5	0	0.282421	0.22374	0.673066	1.24825	3.14152	2.61812	1.76854	1.20208	1.21259	0.578075
1	Gngt2	0	-0.115887	-0.237358	0.196843	0.378559	2.43332	1.887	2.22773	1.06281	1.52319	0.117983
1	Golm1	0	0.0250446	0.577888	0.646978	-0.0419358	1.86042	2.44897	1.9626	0.491549	-0.34398	-0.474955
1	Gp1bb	0	-0.302371	-0.783471	-0.849755	-0.985101	0.575837	-1.63093	-2.1744	-1.86005	-2.23696	-2.47778
1	Gpr157	0	0.222007	0.220146	0.319892	-0.03685	2.32017	2.21031	1.91453	0.0583405	0.165987	-0.457024
1	Gpr183	0	0.859803	1.04982	1.31419	1.41896	2.79951	2.41001	2.87977	1.70051	1.29364	-0.133349
1	Gpr34	0	-0.368464	-0.599329	-0.788022	-0.652474	1.30086	1.9953	1.8636	0.793912	0.323809	0.102015

1	Gpsm3	0	-0.260116	-1.48501	-0.590549	0.226459	1.70724	1.42893	1.59673	0.546065	0.390603	-0.481599
1	Gpx1	0	-0.122301	-0.278782	-0.441339	0.67125	2.85996	1.64645	1.27625	0.22959	0.798143	-0.0482979
1	Gpx3	0	0.806667	0.154299	0.43322	1.34654	2.95102	2.77442	1.74419	1.07618	2.20582	1.09865
1	Gpx8	0	-0.025732	0.471511	0.822837	1.1522	3.09138	2.29026	2.18046	1.19792	1.92613	0.785942
1	Grap	0	-0.104759	-0.295399	-0.346538	0.161064	2.82833	1.86455	1.36139	0.290617	0.485303	0.704518
1	Grid2ip	0	-0.75322	-1.2646	-0.260123	-0.471797	0.423337	-1.65083	-2.48163	-1.49753	-2.34987	-2.24366
1	Grm2	0	-0.893012	-1.65064	-2.09573	-1.59073	-1.05073	-3.31583	-3.01164	-2.80609	-2.47617	-1.61865
1	Grn	0	-0.0818044	-0.117591	-0.178586	0.262511	2.08945	2.48829	1.97739	0.646278	0.629434	-0.0063153
1	Gsdmd	0	-0.45397	-0.523923	0.107782	0.709027	2.08552	2.10096	2.15069	1.0359	1.03362	0.275829
1	Gsg2	0	-0.992896	-0.395058	-0.997476	0.115859	2.03893	1.78301	0.946131	-0.137846	-0.225764	0.27964
1	Gsn	0	-0.0109516	0.125767	0.206848	0.905765	2.50387	2.73463	2.009	1.14166	1.09818	0.488953
1	Gstt3	0	0.854322	-0.0447158	0.199148	0.0403723	2.45832	1.04845	1.82746	1.65434	2.51143	2.00981
1	Gtse1	0	-0.387347	0.203216	0.449531	2.39778	2.48891	1.93377	1.16419	0.367787	0.694896	0.103908
1	Gusb	0	-0.129463	-0.11935	-0.0777394	0.567834	2.1619	2.52826	1.98007	0.76117	1.06345	0.0778797
1	H19	0	-0.512185	-0.234194	0.138794	1.36655	2.20605	1.97457	1.8347	0.0760952	0.682016	-0.223415
1	H2-Aa	0	-0.472405	-0.503738	-0.447569	-0.0448597	1.86584	0.641581	2.0165	1.46726	1.76622	0.408833
1	H2-DMa	0	0.760235	-0.301633	-0.746224	0.0823099	2.47332	1.23887	2.26654	1.07607	0.57847	0.68501
1	H2-DMb1	0	0.0965809	-0.398491	-0.620953	0.344939	2.06107	1.70959	2.20065	1.00433	1.58897	0.380528
1	H2-Q4	0	0.426343	0.804234	0.98656	1.11008	3.07277	1.82463	2.81537	1.05059	1.43777	0.112286
1	H2-Q7	0	0.12764	-1.07915	-0.0785675	-0.703298	2.32958	0.801718	1.74266	0.9319	0.686457	0.863891
1	H2-T24	0	-0.0681252	-0.544242	-0.410601	-0.0556997	1.53462	2.03528	2.27913	0.709854	1.01615	-0.106241
1	H6pd	0	-0.696324	-0.287737	0.0772824	1.17242	2.2113	1.76094	1.90048	0.03559	0.251536	-0.108921
1	Hacd4	0	-0.382826	-0.479801	-0.628658	-0.180134	1.821	1.83418	1.94787	1.0571	1.13178	0.336976
1	Hadh	0	-0.292875	0.153742	0.371123	0.358289	2.97394	2.09197	1.80824	1.00381	1.12984	0.698136
1	Haus4	0	0.128453	-0.265664	-0.265815	0.219179	2.37524	2.03959	1.72501	0.783687	0.957709	-0.475873
1	Havcr2	0	0.307535	0.629308	0.606957	0.495879	2.5185	2.81042	2.44262	1.22487	0.811844	0.396187
1	Hba-a1	0	-1.77072	-1.39059	-3.67481	-0.781599	-0.337602	-1.75046	-0.430558	-1.78262	-1.28419	-1.57217
1	Hck	0	-0.171301	-0.246457	0.395858	1.21149	2.1491	2.21012	2.49038	0.896932	1.06892	0.159315
1	Hcls1	0	-0.13787	0.248284	0.468675	1.3941	2.35245	2.31487	2.48249	1.22081	1.19355	0.0552915
1	Hells	0	0.117345	0.342253	0.531481	0.939343	2.98741	1.73881	0.941217	-0.0270447	0.4137	-0.71185
1	Helz2	0	-0.323923	-0.140476	0.679799	0.379037	1.33478	1.66962	2.4204	-0.516638	0.248666	-0.840135
1	Hexa	0	0.0920999	0.062769	-0.114842	-0.102621	1.91958	2.40629	2.3402	0.971022	0.976855	0.169192
1	Hexb	0	-0.0863086	-0.0663097	-0.0826605	0.32173	2.12575	2.45007	2.2266	1.14722	0.802726	0.359066
1	Hhex	0	0.0587388	-0.184609	0.727821	0.564733	2.68236	2.41659	2.18543	1.43077	1.30697	1.38918
1	Hist1h1c	0	1.08634	0.741948	-0.195112	1.0761	2.35999	2.51481	2.65566	1.43018	1.45319	0.167528
1	Hist1h2ao	0	-0.629923	-0.809369	-1.52204	-0.258833	2.11937	1.31072	0.364458	-0.411127	-0.199539	0.117194
1	Hist2h2aa1	0	-0.242161	-1.05574	-1.41768	-0.348121	1.95736	1.11299	0.820129	0.491258	1.01231	0.736088
1	Hist2h2be	0	-1.30926	-2.78368	-2.63738	-1.60279	0.0905367	-1.5734	-1.92605	-0.668057	-0.289662	-0.592749

1	Hist3h2a	0	-0.656724	-2.78665	-2.61174	-0.675708	-1.20666	-0.0691805	-0.211042	-0.107959	-0.0378711	-0.789856
1	Hk2	0	-0.438228	-0.115983	0.318499	1.0589	2.14209	2.16703	2.33417	1.09163	0.90208	0.0179666
1	Hk3	0	0.170177	0.356169	0.744302	1.33215	2.74404	2.53317	2.50701	1.31455	1.71171	0.517228
1	Hlx	0	0.529004	-0.165925	0.931797	1.13097	2.39647	2.43498	2.66831	1.78737	1.61557	0.446963
1	Hmga2-ps1	0	-0.552401	-0.511448	0.0768031	0.305017	2.10759	2.03703	1.8244	0.764301	0.448335	-0.319158
1	Hmgb2	0	1.28967	1.22775	1.09433	1.29768	3.70631	2.04587	1.54941	0.76123	0.586296	0.263341
1	Hmha1	0	-0.119446	-0.270376	-0.140806	0.186164	2.0165	2.27694	2.22365	1.13203	1.03094	0.291956
1	Hmmr	0	-0.168616	-0.396553	-0.377051	0.145499	2.50087	1.55306	0.450075	-0.295378	-0.128865	-1.06154
1	Hn1l	0	-0.157908	0.648518	0.336046	2.19003	2.58942	2.5145	1.90876	1.15453	1.33138	0.486635
1	Hpgd	0	0.0132693	-0.270932	-0.386842	0.718194	2.13766	2.31454	1.98973	1.36313	1.03993	0.236914
1	Hpgds	0	0.122359	0.249663	-0.141839	0.648923	2.46238	2.38559	2.27478	1.09661	1.04779	0.239146
1	Hrsp12	0	0.411482	0.410831	0.672416	0.098203	2.81358	1.53125	1.80698	2.28733	2.36522	1.72843
1	Hscb	0	0.121329	0.462964	0.394424	0.470466	3.06952	2.06223	2.04265	1.48587	1.77161	0.598119
1	Hsd3b7	0	0.128583	0.671342	1.06791	1.64649	3.14004	2.21085	1.75395	1.27166	0.686066	-0.0637218
1	Hspa12b	0	-0.995614	-0.798973	0.370348	2.33072	1.74918	1.29264	0.959273	0.97073	0.517139	0.455946
1	Hspb6	0	0.0916315	0.271314	0.528733	2.16056	3.11587	2.10593	1.68865	0.746436	0.772996	1.21858
1	Htr2b	0	0.510171	0.301127	0.523931	1.19842	2.45864	2.64428	1.99422	1.29129	1.52081	-0.389484
1	Htra3	0	-0.503236	-0.577707	-1.09089	0.334604	1.67486	2.09819	1.48703	0.365645	0.798378	0.292674
1	Hyi	0	0.36168	0.203201	0.870004	1.79904	3.60925	1.36625	1.21283	0.522634	0.650388	1.05973
1	Id3	0	-0.727836	-0.697537	0.0172649	0.910845	2.07954	1.86174	1.74889	1.19214	1.38349	0.846181
1	Ier5l	0	-0.411928	-1.78852	-2.32087	-0.810316	0.599315	-1.77639	-2.29323	-1.81646	-1.06697	-0.103261
1	Ifi205	0	0.0212196	-0.0219379	0.569948	1.4593	2.29037	1.49744	2.39963	1.16016	1.91154	-0.369049
1	Ifi27	0	0.472401	0.300061	0.574037	1.07765	3.37026	2.13342	2.28302	1.05477	1.26708	0.991127
1	Ifi27l2a	0	0.154091	-0.0124268	0.490809	1.05148	2.67696	2.29537	2.51243	1.07847	1.45884	0.601683
1	Ifi30	0	0.41776	0.543516	0.843837	1.41338	3.20732	2.48264	2.4207	1.53147	1.56873	0.683392
1	Ifi35	0	-0.300389	0.362829	0.58889	1.45442	2.62778	2.059	2.4425	0.917962	1.0438	0.17567
1	Ifi44	0	-0.126384	-0.401915	0.248692	0.823443	1.90498	2.17614	2.25304	0.677462	1.07194	-0.411917
1	Ifitm1	0	-1.11876	0.0917502	0.106953	1.56739	2.60716	1.27645	1.53276	0.815116	0.873109	0.481584
1	Ifitm2	0	0.210398	0.528622	0.85607	1.81408	3.17993	2.12005	2.14411	1.24603	1.82654	0.368818
1	Ifitm3	0	-0.0377769	0.178866	0.938262	1.86034	2.70466	2.16322	2.3878	0.817628	1.51974	0.402576
1	Ifnar2	0	0.0162619	0.267438	0.582143	0.791094	2.98234	2.20793	2.38672	1.17058	1.36927	0.822043
1	Igfbp2	0	0.389997	0.314946	0.2802	0.843733	3.46414	2.04403	1.66409	0.806682	1.11122	0.862599
1	Igfbp7	0	0.40554	0.692753	1.20418	2.21945	3.34554	2.26678	1.44465	0.68475	0.948677	0.476067
1	Igfbpl1	0	1.24083	-0.335853	0.823968	2.23556	2.85309	1.94609	2.28911	2.03951	2.06875	1.28173
1	Igsf8	0	-0.852621	-2.43613	-3.44227	-0.902281	-0.99254	-0.764658	-0.506019	-1.10429	-0.574674	-0.280961
1	Ikzf1	0	-0.248868	-0.226805	-0.269347	0.927729	1.91354	2.26645	2.36949	1.08501	0.731205	0.467908
1	Il15	0	-0.348693	0.24217	-0.431814	0.174953	2.59563	1.57991	2.08362	1.2217	0.989959	0.435076
1	Il21r	0	-0.134796	-0.197407	-0.47852	-0.275291	2.46166	1.5625	1.93091	0.309341	0.0341921	0.699161

1	Inf2	0	-0.792604	-2.06615	-2.28881	-2.615	-0.449988	-1.7637	-1.47078	-2.43523	-3.33909	-2.09624
1	Inpp5d	0	-0.0881026	-0.209805	-0.222722	0.342198	1.75846	2.25658	2.35987	0.768979	0.551972	-0.176549
1	Inppl1	0	-0.330496	-0.848369	-0.365599	1.03943	1.62163	2.06755	1.45655	0.261065	0.0309091	-0.700254
1	Iqca	0	0.213153	0.995978	-0.367081	0.0470867	2.53634	1.42858	1.80858	1.62585	2.2064	1.85064
1	Iqgap3	0	0.632226	0.7556	0.811508	0.558487	2.94059	2.91493	2.17662	1.5818	0.956628	0.573109
1	Irak4	0	0.242481	-0.0373966	0.372343	1.46548	2.57567	2.22039	2.46988	1.27064	1.01767	0.228549
1	Irf5	0	0.0151859	0.151803	0.425307	0.810168	2.23996	2.06694	2.29813	0.994864	1.24022	-0.644484
1	Irx2	0	2.0073	-0.474545	1.82279	1.43872	2.28902	2.16707	0.890904	1.53526	2.90239	1.13103
1	Isg15	0	-0.313746	-0.612149	-0.116119	0.540744	1.81689	1.19508	1.59955	-0.878432	-0.200853	-1.19481
1	Islr	0	-0.485037	-1.04059	-1.0058	-0.0465676	1.80278	1.46342	1.43897	0.579095	1.16786	0.296311
1	Itgam	0	-0.123344	-0.151383	-0.217762	0.4539	2.40554	1.99297	2.26313	0.937652	0.802634	0.26261
1	Itgb1	0	0.139165	0.654445	0.656507	1.6539	2.80896	2.73737	2.52893	1.20856	1.57998	0.977174
1	Itgb3	0	-0.30735	0.203051	-0.315872	0.0172296	2.08555	2.20064	1.89922	0.328834	0.40764	-0.36509
1	Itgb5	0	0.0058443	-0.0480199	-0.261308	0.024813	1.87414	2.44393	2.22237	1.13675	0.912133	0.269052
1	Itgb7	0	0.576375	0.204356	1.16354	1.24334	2.87504	1.79167	3.11175	1.47551	2.05347	0.999422
1	Itm2a	0	-0.270058	-0.500296	-1.27291	-0.462877	1.62585	1.19244	1.53854	1.09453	1.38338	0.867479
1	Itpr2	0	0.357796	0.462129	0.449769	0.432036	2.3824	2.70268	2.23826	0.793425	0.509587	-0.0455061
1	Itpr3	0	0.0919198	-0.637571	-0.0328163	1.10326	2.02576	2.54426	1.80161	1.01998	1.06587	1.59053
1	Itprip	0	1.60337	0.427198	0.92076	2.07284	2.1835	1.99526	2.20872	-0.160276	0.781205	-0.393333
1	Itpripl2	0	0.0116127	0.184784	0.43162	1.3776	2.52394	2.44802	2.47231	1.31487	1.2218	0.419201
1	Jak3	0	0.0832638	-0.385376	0.125613	1.17201	2.30213	1.78901	1.54335	0.342453	0.387393	-0.994478
1	Kank2	0	-1.23377	-0.773635	-0.50662	0.568153	1.74871	1.54816	1.51433	0.52126	0.831807	-0.214167
1	Kcnk13	0	-0.0159399	-0.178605	-0.953104	0.931319	2.12644	1.84589	1.79701	0.493161	1.09804	1.58491
1	Kcnk6	0	-0.0719622	-0.360222	0.0499923	0.499668	2.05064	2.16745	2.12826	0.513189	0.149536	-0.322147
1	Kcnn4	0	0.348525	-0.128693	-0.109971	0.803598	2.70495	2.15685	2.14255	0.964953	1.71782	1.06375
1	Kdelc2	0	0.531925	0.488133	0.2142	1.70037	2.74792	2.71469	2.23431	1.10473	2.15147	1.65945
1	Kif11	0	0.0460089	0.321592	0.238112	0.155228	3.00206	2.16367	1.0667	0.50092	0.221567	-0.064435
1	Kif14	0	0.71511	0.991616	1.46713	1.05549	2.97968	2.16724	1.01563	0.100689	-0.178764	-0.1305
1	Kif15	0	0.526441	0.37954	0.301994	0.531387	2.93121	2.43969	1.25949	0.352459	0.565836	-0.247178
1	Kif18a	0	1.75742	1.08939	0.952596	1.85012	3.53048	2.97661	2.15142	1.29364	1.34063	0.8328
1	Kif20a	0	-0.67328	-0.0953886	-0.0006968	-0.336548	2.48696	1.94921	1.02323	0.378323	0.0953575	-0.309711
1	Kif20b	0	-0.172841	0.172142	0.399745	0.569053	3.08755	2.08049	1.21069	0.42795	0.597374	0.0254867
1	Kif22	0	-0.382659	0.160537	0.238651	0.910987	2.99488	2.00794	1.19848	0.445277	0.0401713	0.427634
1	Kif23	0	0.763776	0.799045	0.818688	-0.108501	2.72809	2.13667	0.446843	-0.230407	-0.148806	-0.330997
1	Kif2c	0	0.306396	0.602	0.053972	0.741415	2.87981	2.39018	1.67653	0.988391	0.739514	-0.212427
1	Kif4	0	0.822808	1.0673	1.28913	0.811516	3.36984	2.6342	1.47364	1.01194	0.358436	0.388992
1	Klf4	0	1.94405	-0.645383	-0.474402	1.09613	0.728602	-0.909345	-1.22886	-1.1364	-0.22104	0.430352
1	Klk6	0	0.270686	0.0991866	0.342535	1.88203	3.06259	2.01995	1.99571	1.15416	0.986439	0.465955

1	Klk8	0	-0.0768116	-0.0510869	-0.538426	0.645004	3.14731	0.960338	0.673513	0.231262	-0.297649	0.202154
1	Knstrn	0	-0.131534	-0.0998183	-0.0368382	-0.382744	2.49765	1.7757	0.475001	-0.432179	-0.219562	-0.785123
1	Kntc1	0	-0.412366	0.0328086	-0.844797	0.217177	2.50794	2.04222	0.983054	0.674229	0.266812	0.207945
1	Krcc1	0	-0.183425	-0.364562	0.266262	0.986602	3.08754	1.76125	1.38873	0.649264	1.17061	0.525932
1	Krtcap2	0	0.248938	0.498772	0.566039	1.94517	3.29796	0.763434	0.519191	0.08446	0.31692	0.0534373
1	Lair1	0	-0.0224719	0.0871715	0.431111	0.537384	2.13679	2.63022	2.43504	1.09082	0.951821	0.234894
1	Laptm5	0	0.0242321	0.0501756	0.0067341	0.30461	2.09953	2.3555	2.44015	1.21385	1.10551	0.20786
1	Lat2	0	0.0352786	-0.283275	0.224417	1.05704	2.67743	2.04805	2.09692	1.1293	1.43306	0.288756
1	Layn	0	-0.374072	-0.0082311	0.335632	2.29519	2.25856	2.00443	1.99222	1.28471	1.3348	0.507883
1	Lcp1	0	0.143495	0.389363	0.334684	1.4343	2.40889	2.53897	2.47844	1.35939	1.76855	0.336463
1	Lcp2	0	-0.346852	0.294282	0.495857	1.48504	2.28894	2.45567	2.27643	0.989494	1.0519	0.112831
1	Ldlrap1	0	-0.0841627	0.112128	-0.0873562	1.21822	2.60114	2.25526	1.81202	0.519978	1.10713	0.0100091
1	Leprot	0	-0.755551	-0.710848	-0.587637	0.067748	1.31033	1.91841	2.10792	0.492256	0.302871	0.0545493
1	Lgals1	0	-0.05622	0.0646138	0.151845	0.880119	3.14736	2.11075	1.38536	0.794354	1.08242	0.429049
1	Lgals9	0	-0.150022	-0.218723	-0.036134	0.79709	2.38004	2.24584	2.12279	0.801815	0.856525	0.180711
1	Lgmn	0	0.232112	0.220099	0.345948	0.705118	2.78206	2.55456	2.07916	0.849165	0.803634	0.314271
1	Lgr6	0	0.358186	-1.41997	-0.331023	0.380981	-0.0347979	-1.5079	-2.11858	-1.46768	-1.97003	-2.04348
1	Lhfpl5	0	0.44179	0.204412	-0.382776	0.515529	2.57223	-0.272672	-0.496285	0.819543	1.99324	1.40417
1	Limd1	0	-0.310208	0.526204	0.449477	0.91545	3.36492	1.76778	1.4763	0.460582	1.08104	0.740701
1	Lin7b	0	-0.512717	-2.0197	-2.73778	-1.86481	-0.655556	-2.66254	-2.90517	-1.70864	-2.2843	-0.860715
1	Lipa	0	0.108675	-0.173532	0.107851	0.452087	2.09911	2.32439	2.22699	0.70677	1.53059	-0.0759917
1	Liph	0	0.213452	0.661172	1.30831	0.982024	2.79282	1.63709	1.55163	0.883682	0.0963583	-0.926442
1	Lmnb1	0	-0.298847	-0.135329	-0.0510618	0.678405	3.12003	1.56292	1.13118	0.425265	0.545589	0.0653578
1	Loxl1	0	-0.400563	-0.23811	-0.387041	1.05423	1.60986	2.71176	1.69877	0.408996	0.314553	0.786947
1	Loxl3	0	-0.766509	-1.06525	-0.350659	0.0905898	1.39652	1.7857	1.74082	0.821615	1.15451	-0.0744325
1	Lpar5	0	0.0403418	-1.13473	0.283292	0.106943	1.64015	1.68135	2.16631	0.672088	0.278669	-0.560108
1	Lpcat2	0	-0.12205	-0.0760232	-0.472335	0.0071073	1.87752	2.01185	2.44119	1.1371	0.985098	0.602539
1	Lpcat3	0	0.28892	-0.243471	-0.161148	0.850753	2.59164	2.16209	2.0025	0.413858	0.695775	0.157742
1	Lpxn	0	0.0885021	0.240266	0.233472	1.2167	2.65452	2.44886	2.39269	1.40049	1.75516	1.02965
1	Lrp10	0	0.0690728	-0.534861	-0.60009	0.893156	2.3073	1.68141	1.55985	0.50287	0.563579	-0.660348
1	Lrp5	0	0.515475	0.793779	0.528249	1.42578	2.69084	2.77548	2.6135	1.30191	1.03278	0.337689
1	Lrrc17	0	-0.657836	-0.582016	-0.707312	-0.549318	0.768794	-1.64782	-2.95022	-1.53662	-1.43255	-1.77012
1	Lrrc25	0	-0.160837	-0.691061	0.316133	1.17306	2.08939	1.94139	2.20758	0.79127	1.08059	-0.103915
1	Lrrc39	0	0.76653	0.797115	-0.56142	-0.0744995	1.87833	2.3007	1.96276	0.941951	-0.205655	-0.239533
1	Lrrc4b	0	-1.10458	-2.78675	-3.3944	-1.50421	-0.581704	-1.59992	-1.66551	-1.43333	-1.11983	-0.312586
1	Lrriq1	0	0.180495	0.276044	-0.220062	0.0208969	2.87654	1.16806	1.37422	0.95345	2.31029	1.1525
1	Lrrk1	0	-0.782368	-0.941995	-0.734614	0.186902	1.64598	1.61946	1.80473	0.786477	0.633057	0.095869
1	Lsr	0	1.37705	0.688427	1.21173	2.23041	3.86881	2.22181	1.47094	0.988635	1.82557	1.79029

1	Lst1	0	0.274608	-0.475055	-0.504637	-0.236686	2.82859	1.2232	1.45245	1.0203	0.801221	1.07596
1	Ltbp1	0	0.585985	0.568975	1.32395	1.58359	2.76573	2.44219	3.00042	0.959391	1.16152	0.444797
1	Ltbr	0	0.133782	0.560577	0.888979	2.23552	3.10419	2.15022	2.11755	1.03004	1.21231	0.497165
1	Ltc4s	0	-0.158627	-1.23346	-0.987262	-0.447223	2.11603	1.26291	1.13172	0.0007511	0.400463	0.677429
1	Ly6e	0	-0.393477	-1.23098	-1.38942	-0.618225	0.732747	1.23352	1.95346	-0.0153407	0.204279	-0.320809
1	Ly86	0	0.0795635	-0.0432035	0.124783	1.05976	2.53712	2.24761	2.49354	1.46585	1.26719	1.02681
1	Ly96	0	-0.0322794	1.11553	0.815657	1.37951	3.16928	2.21146	2.35222	0.69556	1.89271	0.957472
1	Lyl1	0	-0.83526	-0.396931	-0.14025	-0.0531218	2.25579	1.89338	1.43868	0.858163	0.500737	-0.143739
1	Lyn	0	0.252903	0.409004	0.513596	1.37602	2.34917	2.66822	2.75221	1.45624	1.30946	0.437441
1	Maf	0	-0.0134802	0.0635497	-0.295201	-0.200589	2.23504	2.30804	2.03987	0.84916	1.08074	0.743216
1	Mafb	0	0.312175	0.356988	0.254973	0.531849	2.55547	2.62224	2.25059	0.815739	0.684032	0.222585
1	Malat1	0	0.605972	0.0133967	0.0792587	-0.0633674	1.55707	-0.528618	-1.32701	-1.36022	-0.978108	-1.9398
1	Maml2	0	0.311999	0.0434367	0.682404	0.676184	3.28482	1.74938	1.74704	0.646539	0.591188	0.0464506
1	Mamstr	0	-0.0554554	-0.650473	-1.23145	0.671183	0.254897	-1.70857	-1.29337	-1.86658	-2.56969	-0.890275
1	Man1c1	0	0.212082	0.201506	-0.241394	-0.362288	1.19311	2.60736	2.04505	0.286777	-0.0612866	-0.285214
1	Man2a1	0	-0.512282	-0.0149998	0.343514	-0.0671909	1.8614	2.66337	1.80537	0.742603	0.860665	0.0992099
1	Map1lc3a	0	-0.698183	-1.24972	-1.87218	-1.39971	0.786284	-2.10326	-2.65289	-1.69227	-1.85276	-0.673294
1	Map4k1	0	0.147481	0.137254	0.575728	0.799492	3.02142	1.54801	1.97682	0.717869	1.03072	-0.445508
1	Mapkapk3	0	-0.059468	0.389089	0.758721	1.6122	2.64495	2.07069	2.62286	1.04278	1.08784	0.143997
1	Mastl	0	-0.114804	-0.0207671	-0.262057	0.107507	2.94687	1.78355	0.787608	0.160736	0.0455527	-0.0733857
1	Matn4	0	-0.0716573	-0.683603	-0.523874	-0.152318	2.07027	1.69595	1.95659	1.06242	0.317198	0.0684627
1	Mc4r	0	-0.441431	-0.982865	-1.20111	2.47004	0.299222	-1.01162	-0.134037	0.444018	-0.0982328	-0.0938047
1	Mcm10	0	0.274217	0.461704	0.896547	1.18963	3.24324	1.93234	1.19522	0.03524	0.145546	0.141581
1	Mcm2	0	0.279535	-0.291893	-0.153672	1.18845	2.92157	2.05772	1.3353	0.253075	0.639714	0.420178
1	Mcm3	0	0.0270912	-0.429924	-0.351557	1.20722	2.55987	2.09386	1.60817	0.908083	0.625753	0.252533
1	Mcm5	0	-0.598682	-0.338963	-0.499229	0.774023	2.68358	1.66492	0.761122	0.103607	-0.158181	0.295248
1	Mcm6	0	-0.528362	-0.427923	-0.590931	0.895094	2.34771	2.06795	1.3172	0.627515	0.665256	0.322792
1	Mcm7	0	-0.0314952	0.197856	0.0598223	1.30183	3.12436	2.0145	1.19854	0.596241	0.12719	0.75223
1	Meg3	0	-0.349663	-0.964572	-1.02563	-1.89087	0.523331	-1.54772	-2.53438	-1.95632	-1.67993	-2.48287
1	Meis2	0	0.179021	-0.44291	-0.609432	-0.556643	0.326358	-1.93798	-2.00413	-1.93398	-2.51478	-1.37136
1	Melk	0	0.0633175	-0.923229	0.178984	0.160439	2.60904	1.86088	0.546861	0.169328	-0.345118	-0.0771669
1	Mettl1	0	-0.322091	-0.847683	-0.463986	0.525147	1.80601	-1.07091	-0.968513	-1.34586	-1.67749	-1.26265
1	Mfap2	0	-0.104701	-1.33351	-1.4984	-0.0607344	1.04192	1.69233	1.2525	0.0215888	-0.159558	-0.649121
1	Mfng	0	0.921194	0.604287	0.0717667	1.72704	2.42805	2.64451	2.27767	0.711846	1.11558	-0.0766211
1	Mgp	0	-0.335166	0.291682	0.734077	0.597592	2.75645	2.50144	1.55342	0.954558	1.85071	0.629291
1	Mgst3	0	-0.494271	-0.945347	-1.1838	-1.96028	0.442528	-1.94712	-2.90639	-2.03084	-2.00924	-1.42255
1	Mical1	0	0.0158061	0.0508509	0.151941	0.411477	2.42796	2.1025	2.48206	0.710493	1.60054	0.563479
1	Micall2	0	0.743059	0.908751	1.60439	2.23795	3.57012	2.69236	2.55877	1.85117	1.46962	1.89029

1	Mif4gd	0	0.0405414	0.0972602	0.0108311	0.15726	2.94502	1.58167	1.8808	0.914971	1.64706	0.348153
1	Milr1	0	-0.125635	0.597069	1.10315	1.6928	2.79519	2.4925	2.41757	1.11401	1.34809	0.48768
1	Mis18bp1	0	-0.115477	-0.397961	-0.0241271	0.150838	2.73945	1.93065	1.13145	0.427721	-0.0260553	-0.154239
1	Mki67	0	0.0212796	0.255172	0.143446	0.34987	2.63991	2.47178	1.56489	0.69726	0.328324	-0.118143
1	Mlph	0	1.09108	1.14744	-0.252032	0.66436	2.86343	2.58239	2.39192	1.10517	0.948495	1.15723
1	Mlxipl	0	-0.839183	-0.482682	-1.09982	-0.828339	0.945732	1.64287	1.8027	0.292657	-0.0136195	-0.55349
1	Mmp11	0	-0.757231	-0.000434	-0.50167	0.341896	2.04328	2.20204	1.39831	0.688518	1.56529	0.526845
1	Mmp14	0	0.0753021	0.0136703	0.0877863	0.776676	2.83543	1.92648	1.98735	0.912005	1.79847	0.330112
1	Mms22l	0	-0.717989	-0.251583	-0.702434	-0.0881213	1.53934	1.94141	0.666463	-0.520073	-0.616883	-1.29862
1	Mndal	0	0.261887	0.37067	0.467524	0.843986	2.84636	1.76222	2.58512	0.94406	2.24043	0.711886
1	Mns1	0	0.674073	0.200593	0.974067	0.782099	3.46205	2.24613	1.53384	1.76223	1.92895	0.973436
1	Mob3b	0	-0.301324	-1.59015	-1.0367	-0.349245	1.22506	0.926831	1.37543	0.906591	0.98943	1.0215
1	Mob3c	0	0.534482	0.58495	1.10442	1.00471	2.94374	2.08721	1.50624	-0.648617	0.431347	0.323169
1	Mocos	0	-0.559292	-0.0432404	0.431886	1.01452	1.55177	1.43985	1.94767	0.820324	0.60473	-1.4672
1	Mospd3	0	-0.832003	-1.84245	-2.28105	-0.206157	1.42822	0.376892	-0.44343	-0.678473	-0.276301	-0.595212
1	Mov10	0	-0.40229	0.199961	-0.0142633	-1.17384	0.132583	1.72241	1.14051	-0.855203	-1.0139	-1.64532
1	Mpzl1	0	-0.313394	-0.232065	-0.0106774	0.371854	1.63988	2.85749	1.63199	0.471146	0.793436	-0.0483909
1	Mrap2	0	0.826321	0.130055	-0.0954599	0.350103	1.45802	-0.820657	0.0241887	0.147686	2.01696	2.47725
1	Mrpl34	0	-0.892654	-1.36892	-1.47068	-0.101295	1.69891	-0.0989594	-0.524737	-1.00697	-1.54103	-1.77673
1	Ms4a4a	0	0.962735	0.510002	-0.429457	-0.0171411	2.62393	1.126	2.06572	-0.0746057	-0.316036	0.105688
1	Ms4a6b	0	0.376382	0.156885	0.129615	1.51596	2.52696	2.55816	2.15124	0.723562	1.24981	0.174374
1	Ms4a6c	0	0.428008	0.241305	0.328488	1.19235	2.75965	2.16797	2.24057	0.666733	1.30639	-0.186066
1	Ms4a6d	0	0.491894	0.975411	1.14974	2.13761	3.15261	2.61318	2.53311	1.57773	1.99451	0.664591
1	Ms4a7	0	0.0870123	-0.497125	-0.193048	0.180425	1.94263	1.95208	2.03624	1.39584	1.78828	0.245107
1	Msrb1	0	0.174022	-0.655284	0.30529	0.497835	3.0714	1.49497	1.09934	0.428478	0.496649	-0.167591
1	Mthfs	0	2.83573	2.51555	0.638779	2.36152	3.16254	2.93487	2.12037	2.23115	1.51496	2.79757
1	Mthfsl	0	-0.692921	-0.341299	-0.443762	-0.382183	1.95447	1.41823	1.83053	0.0492776	0.841217	-0.604485
1	Mustn1	0	0.664004	0.773956	1.30345	2.04837	3.72475	2.13178	1.92217	1.50866	2.31219	1.18048
1	Mvb12a	0	-0.199259	-1.91403	-0.916026	-0.562487	1.94553	0.976788	0.612535	-0.105486	-0.144622	0.0378264
1	Mybl2	0	0.0594035	0.0425674	-0.0217956	1.25118	2.21121	2.53492	0.234539	-0.384326	-0.223917	0.216357
1	Myh9	0	1.24433	1.17576	1.32707	1.96609	3.30112	3.08266	2.69035	1.31059	1.43989	0.832771
1	Myl12a	0	1.23159	0.662278	1.3611	1.8588	3.2504	2.70284	2.00996	0.901726	1.72816	0.204277
1	Myo18b	0	0.145581	-0.624928	0.0083308	1.51805	2.71174	2.03197	1.21144	0.706133	0.383442	0.299972
1	Myo1f	0	-0.481599	-0.696927	-0.365418	0.594143	1.79919	1.90988	2.02671	1.06745	1.11354	0.143739
1	Naalad2	0	1.06395	0.721325	-0.524394	0.24288	2.05024	2.51736	2.51768	1.55553	1.51171	1.29977
1	Naga	0	0.11027	-0.483526	-0.543815	-0.0144807	1.30227	2.21975	2.12782	0.900422	0.451684	-0.429886
1	Naglu	0	-0.0467495	-0.10078	-0.212329	0.359096	1.96424	2.47585	2.337	1.04893	0.910207	0.603923
1	Nagpa	0	-0.203359	-0.444313	-0.327966	0.177326	2.40069	2.13089	1.62684	0.504063	0.213465	0.3389

1	Ncapg	0	0.413442	0.0730885	0.448341	0.848227	2.91966	2.33429	1.70406	0.788605	0.837227	-0.226502
1	Ncapg2	0	0.803058	0.692152	1.03558	0.598722	3.16276	2.88247	2.26885	1.25537	0.884275	1.0648
1	Ncaph	0	-0.266559	0.188453	-0.306178	0.258996	2.54986	2.05605	1.28642	0.509129	0.139754	-0.500734
1	Ncf1	0	0.188256	-0.107604	0.0340664	0.50164	2.32359	2.39989	2.25976	0.905474	0.772797	0.0980369
1	Ncf2	0	0.0415216	0.109784	0.663543	0.79664	2.37548	2.3137	2.57272	1.35526	1.49986	0.142146
1	Ncf4	0	0.186575	0.361299	0.754701	1.66548	2.79607	2.41207	2.6467	1.68527	1.91921	1.04812
1	ND3	0	0.0412848	0.525662	0.0323156	-0.691499	1.63294	-1.28563	-2.22995	-0.80118	-0.720434	-0.466372
1	Ndc80	0	0.0530018	0.20774	0.736183	0.627918	2.96576	2.26992	1.3461	0.315011	0.426716	-0.145294
1	Necap2	0	0.166167	0.179318	0.841592	1.26729	2.88092	2.56597	2.14181	0.997497	0.927094	0.369169
1	Nek2	0	-0.796015	-0.166011	-0.406221	-0.412083	2.4013	1.81251	0.40348	-0.0691585	-0.514829	0.0513769
1	Nek6	0	-0.367292	0.564136	0.386427	1.7113	2.43309	1.84964	1.88655	0.595816	0.460916	-0.555285
1	Nes	0	0.653346	0.127879	1.03586	2.32649	3.21227	1.53756	0.799945	0.438768	0.488899	0.251333
1	Neurl3	0	0.319657	-0.105038	0.130998	0.49185	2.16094	2.20918	2.52794	1.10783	1.47679	0.0208772
1	Nfam1	0	-0.394582	-0.189469	0.493219	1.01447	2.33796	2.14182	2.37533	1.04828	0.92884	0.315237
1	Nfkbie	0	-0.460557	0.0659158	0.235934	0.474356	2.16326	1.44271	2.18032	0.433405	0.50152	-0.954736
1	Ngfr	0	-0.887871	0.585496	0.133493	1.9254	2.64044	1.18614	1.27488	0.706641	0.922765	1.89358
1	Ninj1	0	0.553848	0.690805	0.806445	1.61558	3.00289	2.28462	2.55986	0.555717	1.19734	0.264849
1	Nipsnap3b	0	0.260525	-0.175878	0.0203375	1.88942	2.15906	2.36225	2.48916	1.14867	1.30173	1.10395
1	Nkain3	0	0.593205	0.0112928	-0.0455469	-0.12342	1.3764	-1.20218	-1.28022	-1.80336	-1.15874	-1.59388
1	Nkx2-2	0	0.398604	-1.47156	0.290417	1.06314	2.00166	1.79224	1.88726	0.744562	1.11482	0.763007
1	Nlrc3	0	0.321545	0.271627	0.583822	0.0835323	1.21735	2.30044	1.85467	0.422501	0.669107	-1.47747
1	Nlrc4	0	0.240456	1.07898	0.612195	-0.375807	2.40146	2.00434	2.08548	0.531864	1.77029	-0.215871
1	Nlrp1b	0	-0.607129	-0.893336	-1.67701	-0.226654	1.48638	1.21202	1.50086	0.0157612	0.120616	-0.255766
1	Nlrp3	0	-0.909847	-0.120495	0.322239	1.08279	1.70853	1.87182	1.85555	0.43415	-0.0811347	-0.718347
1	Nmi	0	-0.259067	0.546672	0.819125	1.25134	2.8987	2.17552	2.57993	1.23425	1.55031	1.03428
1	Notch3	0	-0.335763	-1.12856	-0.818854	0.758127	1.62868	2.02242	1.46973	0.302127	0.26671	0.213576
1	Notch4	0	-0.146788	-0.273245	-0.132796	1.43097	1.63517	1.76849	0.0385987	-0.71073	-1.01476	-0.876957
1	Npc2	0	0.169387	0.108857	0.282055	0.398456	2.20391	2.45712	2.6525	1.12504	1.40969	0.592187
1	Npepl1	0	0.0318242	-0.336075	-0.104102	1.3352	2.35798	1.98976	1.8076	0.593173	1.10082	-0.382831
1	Npl	0	0.518349	0.021428	0.335627	1.15888	2.44126	2.93873	1.77297	0.907704	0.554768	0.159193
1	Nr1h3	0	0.903633	0.720702	-0.0151703	1.37843	2.77687	2.77791	2.3721	1.13821	2.06652	1.11853
1	Nrm	0	-0.325321	-1.47032	-0.491622	-0.304773	2.05211	1.5449	0.278575	-0.476252	-0.541629	-0.453084
1	Nrp1	0	-0.447571	0.06386	-0.374903	-0.563526	1.80826	1.9521	1.92768	0.83659	1.01631	-0.240177
1	Nrros	0	1.22324	1.43061	0.762122	1.41452	2.58975	2.649	2.72482	0.570349	0.817549	-0.0067186
1	Nsl1	0	-0.691273	0.0118855	1.02943	1.18244	2.63625	2.19949	0.994132	0.284124	-0.0347991	0.752968
1	Nt5dc2	0	-0.233855	-0.551671	-0.148415	-0.100658	2.82783	1.65907	1.2207	0.37444	0.748031	0.402262
1	Nucb1	0	0.144796	-0.233851	-0.269302	0.339678	2.2338	2.51343	1.99911	0.646431	0.888879	0.585952
1	Nuf2	0	0.0342906	0.059269	-0.320835	-0.230599	2.78666	2.18395	1.03472	0.852006	0.903703	0.566241

1	Nupr1	0	0.630513	0.374506	0.765585	1.34377	3.19057	2.72112	2.17372	1.79229	1.87357	1.09801
1	Nusap1	0	0.270916	0.922041	0.563474	0.145271	3.08708	2.59417	1.41928	0.725433	0.696085	0.450605
1	Oas1a	0	0.18844	0.144445	0.331913	1.03636	2.33736	2.42451	2.74461	0.840161	1.55706	0.666308
1	Oas1b	0	-0.241317	0.464559	-0.0740099	0.950902	1.80301	2.25024	2.09283	-0.513868	0.615133	-0.247988
1	Olfml3	0	-0.193751	-0.394589	-0.619348	0.398429	2.12061	2.04768	1.93007	0.768881	0.478683	0.0775258
1	Omp	0	1.0676	0.048439	-0.0087567	0.535579	1.25045	-0.813897	-1.52609	-1.65734	-1.1445	-0.93996
1	Orai1	0	0.608534	0.0379378	0.478384	0.807777	3.15068	2.0355	1.49385	0.163246	0.30049	0.118314
1	Ostf1	0	-0.124877	0.0539783	0.206358	0.911353	2.8404	2.15884	2.00954	0.802167	1.38433	0.477385
1	P2rx4	0	0.176409	-0.18887	-0.204813	0.289973	2.05441	1.89752	2.48446	0.804866	1.11734	-0.219143
1	P2ry12	0	-0.593103	-0.805724	-1.43378	-1.98527	0.784433	1.22461	1.04602	0.170924	-0.135254	0.0464121
1	P2ry13	0	-0.902134	-1.27592	-1.09887	-0.921348	0.650768	1.69636	1.37832	0.452721	-0.200176	-0.280432
1	P2ry6	0	-0.390324	-0.0150944	0.0192162	1.18566	2.13713	2.15106	2.1184	0.922495	0.725948	-0.27369
1	P4ha3	0	0.308252	0.12433	0.0357094	1.29571	2.27029	2.58035	2.6282	1.56037	1.04275	1.17386
1	P4hb	0	0.340126	0.746758	0.835339	1.79298	2.87065	3.03827	2.44752	1.52096	1.33982	1.09899
1	Pak4	0	0.125347	-0.268128	-0.722674	0.600067	2.31276	2.2238	1.4531	0.0584575	0.460312	1.20511
1	Pald1	0	0.506784	0.546463	0.722355	0.8984	2.57957	2.8595	2.74285	1.46648	1.23467	0.639803
1	Palld	0	-0.436147	-0.0020096	0.530924	1.28428	2.30859	2.21065	1.94637	0.662423	1.13743	-0.293812
1	Paox	0	-0.329828	-1.19	-0.580435	-0.0919471	1.73557	1.5613	1.63195	-0.144403	-0.387132	-0.383953
1	Parp10	0	-0.22984	-0.123764	-0.0665893	0.928292	1.90371	2.31253	2.51551	0.483282	1.12397	0.559354
1	Parp12	0	0.211236	0.379689	0.84877	1.3445	2.65265	2.67648	2.81819	1.26111	1.24599	1.09221
1	Parp3	0	-0.241014	0.414563	0.693938	2.23743	2.45615	2.27307	2.01175	1.03308	1.10553	0.093886
1	Parvb	0	0.320762	0.719057	0.674014	1.79667	2.38531	2.17906	1.06014	0.34004	-0.193658	-0.762086
1	Parvg	0	-0.262336	-0.183206	-0.291287	0.270496	2.13394	2.09493	2.15487	0.897625	0.650263	0.0062574
1	Pbk	0	-0.21957	0.200437	0.0538796	0.182079	2.69488	2.157	1.12016	0.441276	0.372687	-0.484504
1	Pbxip1	0	0.208038	0.136264	0.296948	0.861546	3.03153	2.1605	2.03	0.860057	0.891778	0.255862
1	Pcolce	0	-0.636963	-0.703545	-0.631211	0.0883848	1.79144	1.96891	1.68399	0.465333	1.00134	0.206286
1	Pcsk1n	0	-0.756543	-1.80707	-2.70133	-1.13768	0.595319	-1.35029	-2.33191	-1.31697	-1.08049	-0.0478286
1	Pctp	0	-0.558089	0.0654467	-0.925635	0.327757	2.27418	1.84341	1.67696	0.463974	0.890481	0.595776
1	Pde3b	0	0.228293	0.710421	0.703383	1.07696	1.89389	2.92235	2.46688	0.852175	0.282735	-0.0224314
1	Pdgfrb	0	-0.562763	-0.521616	0.4273	0.914879	1.94346	2.39428	1.86353	0.422361	0.65849	0.0256045
1	Pdgfrl	0	-0.281938	-0.454594	-1.2351	-0.397539	1.60722	1.60575	1.73967	0.521633	1.18103	0.545813
1	Pdia4	0	0.482722	-0.072401	-1.03412	0.648479	1.70876	2.18328	1.93669	1.45326	0.651016	-0.0374626
1	Pdlim2	0	0.14611	0.0295558	0.999374	0.372926	3.11762	2.25774	1.92235	1.07889	0.969179	0.771873
1	Pdlim4	0	0.0614914	0.598848	0.783077	2.13331	3.26286	1.71819	1.30181	0.914201	0.84669	0.046596
1	Pear1	0	-0.140679	-0.284295	0.880682	1.82638	2.47834	2.12157	2.07468	0.579463	1.00582	0.237453
1	Pecr	0	0.391308	0.470039	0.125248	1.08205	3.0519	1.46126	2.74829	1.46629	1.38282	0.739553
1	Pet117	0	-0.769672	-1.78269	-2.45545	-0.673918	-0.586653	-1.05097	-0.512359	0.0699461	-0.162945	1.37826
1	Pex13	0	-0.704269	-1.03178	-1.46404	-0.76539	0.13067	-1.48426	-2.7939	-1.50885	-0.812033	0.956169

1	Pf4	0	0.572619	0.651773	-0.438124	1.28734	3.01238	2.14559	1.53545	0.231878	1.58334	1.04495
1	Pgd	0	0.371093	0.101713	1.02423	2.07345	2.83969	2.52353	2.06878	0.914633	1.40451	0.436558
1	Pgls	0	-0.416765	-0.863611	-0.873409	0.353091	2.69954	1.08205	0.5777	-0.0788965	0.272615	-0.0173894
1	Phf11a	0	0.905521	0.29176	1.04071	1.75325	3.09266	2.48384	2.8448	1.50558	1.90974	1.05913
1	Phf11b	0	-0.683485	-1.42513	-0.219178	1.00817	1.46674	1.47857	1.66542	0.90985	1.16238	0.374297
1	Phlda3	0	0.0930628	-0.47464	0.545776	2.38946	2.37194	1.53273	1.21103	0.766597	1.44445	2.23116
1	Piezo2	0	0.537875	-0.287657	0.470107	1.65675	2.85344	2.19751	2.2225	1.51274	1.64347	0.856804
1	Pik3cg	0	-0.694049	-0.628082	-0.389955	-0.0792833	1.48285	2.08083	1.81491	0.926989	0.324964	-0.272179
1	Pilra	0	0.831481	0.668025	0.619335	2.05629	2.92048	2.11937	2.13281	0.935055	1.42216	-0.309737
1	Pipox	0	0.748699	0.895116	0.696016	1.70577	3.71794	1.36211	2.39204	2.09835	1.5998	1.71386
1	Plac9b	0	0.0313523	-0.498256	-0.431584	0.747873	2.75364	1.9515	0.956872	1.03824	1.29767	1.10773
1	Plbd1	0	-0.185818	0.275467	-0.624833	0.897568	2.42217	1.09904	2.24559	1.15183	1.76213	0.309092
1	Plcb2	0	-0.773697	-0.989497	-1.34574	-0.724651	1.15282	1.41016	1.61006	0.351933	0.0098381	-0.264093
1	Plcb3	0	-0.191769	0.133544	-0.0824742	1.05791	2.35667	2.52203	2.12451	1.08351	1.21892	0.574525
1	Plcg2	0	0.0397189	0.101943	0.204626	0.858904	2.40844	2.47422	2.32166	1.1845	1.10823	0.181164
1	Pld4	0	0.292748	0.139669	-0.346023	-0.148274	2.12925	2.32974	2.22797	1.14498	0.908858	0.37241
1	Plekha4	0	-0.385361	0.532765	0.103013	0.543488	1.84262	1.83246	2.29436	1.17454	0.733025	-0.90226
1	Plekhg2	0	-0.0093097	-0.383706	0.119258	1.217	2.37654	1.92061	1.10381	0.0710267	-0.0520004	-0.787742
1	Plgrkt	0	-0.469661	-0.366684	-0.302693	0.279375	2.57394	1.96981	1.49867	0.79808	0.891831	0.558754
1	Plin2	0	0.0097911	0.217908	0.517202	1.34206	2.71168	2.67078	1.85029	0.855922	1.22706	0.239371
1	Plin3	0	1.0114	0.544184	0.55614	0.802999	3.42643	2.11444	1.82223	0.869029	0.840562	0.0972101
1	Plk1	0	0.0334826	-0.241726	0.0684969	-0.606579	2.14151	1.7118	0.385254	-1.05777	-0.912481	-0.296724
1	Pllp	0	-0.371091	-0.520543	-0.503945	0.313394	2.47432	1.57929	1.5901	1.13745	1.08868	1.17351
1	Plod1	0	0.329563	-0.0184066	-0.166185	0.760122	1.9825	2.73026	2.18082	0.932688	0.814525	0.062125
1	Plod3	0	0.0653074	-0.0945427	-0.680279	1.39367	1.90535	1.77179	1.82676	0.204979	0.0271174	-0.665482
1	Plp1	0	0.661456	0.683215	0.899288	0.527359	3.64828	2.1249	1.8832	1.1704	0.94761	0.908395
1	Plp2	0	0.219096	0.134056	0.533244	1.49804	3.0697	2.4197	1.15734	0.606943	1.0698	0.167841
1	Plxdc2	0	0.132119	0.15283	-0.312573	-0.0709116	1.58102	2.59531	2.35239	1.0221	0.660173	0.356308
1	Plxna4os1	0	-0.811252	-0.32876	-0.394848	-0.465505	1.75689	1.78298	1.75681	0.598262	0.351172	-0.531236
1	Plxnb3	0	-0.313422	-0.760748	-0.690299	0.770791	1.92998	2.15025	1.554	0.636377	0.589902	0.144068
1	Pmf1	0	0.120729	0.563626	0.544569	0.844067	3.54425	2.0956	1.33844	0.733637	0.979659	1.01232
1	Pnp	0	-0.162051	-0.0142607	0.493854	1.25029	3.03624	2.08427	1.92704	1.17844	1.24728	0.717074
1	Pnpla3	0	-0.64524	-2.96347	-1.46181	-2.56393	-1.23705	-1.13629	-2.83354	-2.32935	-2.01335	-2.90969
1	Pola1	0	0.299617	-0.113702	0.0050251	1.2202	3.04082	1.74298	1.66547	1.4909	0.936484	0.0708795
1	Pold4	0	0.195761	-0.19877	0.197567	0.950119	3.16758	1.80348	1.50171	0.663738	0.912106	0.0946119
1	Pole	0	0.149521	0.166973	0.12505	0.892378	2.69017	2.7012	1.66954	0.969511	0.283851	1.30495
1	Pou2f2	0	0.122526	-0.384684	0.032941	-0.0891564	2.43572	1.71406	1.46987	0.225865	0.194053	-0.904152
1	Ppap2c	0	-0.0398247	-0.311275	0.699413	1.84687	2.84221	1.75527	1.77729	1.4361	1.44706	0.303287

1	Ppib	0	-0.213613	-0.285885	-0.668548	0.408916	2.55447	2.01989	1.4505	0.778466	0.690642	0.62605
1	Ppic	0	-0.0353206	-0.104109	0.224364	0.751172	2.44829	2.32081	2.17778	1.24892	1.23323	0.144681
1	Ppp1r14a	0	-0.197194	-0.610588	-1.32159	0.207265	2.13793	1.24232	1.02275	0.882916	0.988183	1.35943
1	Ppp1r14b	0	-0.281373	-0.188736	-0.523044	1.2196	2.97434	1.1843	0.762853	0.0782707	0.338566	0.0125858
1	Ppp1r18	0	-0.0261876	0.379443	0.614239	1.69514	2.76763	2.48745	2.28259	0.643455	0.983368	1.59456
1	Prc1	0	0.221752	0.289258	0.404853	0.341954	2.97943	2.21244	1.19676	0.220639	0.3486	-0.206973
1	Prcp	0	-0.240139	0.0274247	-0.0627175	0.300434	2.29353	1.61931	2.61001	1.18925	1.15966	0.306765
1	Prdm1	0	1.12102	1.19578	0.978879	0.926518	2.73673	1.82633	3.35476	0.689102	1.32168	0.256616
1	Prdx1	0	0.0091871	0.0131121	0.549588	1.46035	3.328	1.87008	1.6447	1.1147	1.45225	0.970231
1	Prdx4	0	0.22614	0.0913568	0.168701	0.529705	3.29169	1.87068	1.45332	0.383476	1.04727	1.31704
1	Prdx6	0	0.05064	0.454027	0.29657	0.865864	3.04875	2.29239	2.11268	1.24957	0.934985	0.569603
1	Prkd2	0	1.04546	0.944769	1.31936	1.90875	3.63853	2.34895	1.96814	0.667075	1.63098	2.50476
1	Prr5l	0	0.191949	0.508141	1.08458	2.10725	2.9973	2.03193	2.7166	1.26379	1.27171	0.698763
1	Prr7	0	-1.79203	-1.8094	-3.16735	-2.12552	-0.396651	-2.16962	-2.74153	-2.27038	-1.80918	-0.510519
1	Prrx1	0	-0.935068	-0.512242	-0.0636559	0.54029	2.61636	1.37912	1.39087	0.59197	0.845057	0.0647498
1	Psd4	0	-0.683821	-0.555239	-0.741848	0.54917	1.78029	1.29186	2.15514	0.591386	0.96707	-0.184217
1	Psmb8	0	-0.342198	-0.366325	-0.214239	0.839458	2.17956	1.90787	2.27362	1.13764	1.26294	0.570458
1	Psme1	0	0.190349	0.377255	0.214564	0.794048	3.15829	2.11545	2.20172	1.25224	1.36323	0.975897
1	Psme2	0	-0.0808452	-0.610562	-0.28554	0.865543	2.63269	1.67302	1.89569	0.869699	1.0632	0.668793
1	Psme2b	0	-0.0382207	-0.0316621	0.15155	0.357685	2.51159	1.54985	1.70575	-0.160216	-0.669752	-0.303637
1	Pstpip1	0	-0.189137	0.0674761	0.640762	1.12841	2.54381	1.43804	2.30921	1.03779	2.2095	0.0921031
1	Ptbp3	0	0.0847797	0.556394	0.732325	1.69024	2.32074	2.43631	2.47227	0.744268	0.934883	-0.194936
1	Pter	0	0.898149	0.740747	1.35706	1.55394	3.29351	2.80386	2.76538	2.17759	1.87958	2.29882
1	Ptgr1	0	0.579731	0.468805	-0.145689	1.25897	3.1287	2.32385	1.72368	1.54767	1.54007	0.621493
1	Ptgs1	0	0.186832	0.493115	0.916756	1.1364	2.20503	2.34337	3.02279	1.0365	0.250052	0.498101
1	Ptpn18	0	-0.0683656	-0.0583747	-0.444897	0.340139	2.38287	2.04786	2.09639	1.31901	1.16369	0.716774
1	Pusl1	0	-1.92478	-2.87987	-1.07326	-1.5463	-0.694962	-1.73833	-1.35041	-1.50064	-1.03879	-3.64806
1	Pvrl2	0	0.945064	0.713586	1.20468	1.30802	3.9834	2.13278	1.80146	1.62586	1.3454	1.4643
1	Pycard	0	-0.254509	-0.486768	0.0726406	1.22082	2.27428	2.15136	2.11579	1.15499	1.20205	0.652292
1	Rab13	0	1.18036	0.907719	0.889956	1.10871	3.46457	2.94718	2.45173	1.74992	1.64561	1.53202
1	Rab29	0	-0.23648	-0.0015729	0.57127	1.15948	2.56976	2.42354	2.21322	1.54366	1.51359	0.95227
1	Rab32	0	-0.333165	0.297465	0.230572	0.975751	2.56549	2.47696	2.102	1.07578	0.988926	0.464961
1	Rab3il1	0	-0.413712	-0.722399	-0.375961	0.792385	1.84659	2.09456	1.93093	0.925618	1.00741	0.287885
1	Rab7b	0	-0.115987	0.282267	0.307164	0.864814	2.82931	2.31825	2.17725	1.01342	1.46165	0.659897
1	Rac2	0	0.0431692	-0.370918	0.0588571	0.576376	2.63414	1.71231	2.0204	0.594443	0.777238	-0.289659
1	Racgap1	0	-0.0906146	-0.0686902	0.435356	0.186502	2.59418	2.07737	0.372468	-0.164695	-0.783317	0.322701
1	Rad51	0	-0.1302	0.0151405	0.245723	0.79251	2.9342	2.30354	0.585591	0.490211	0.0324295	0.433431
1	Rad51ap1	0	-0.507446	0.825664	-0.462746	0.163183	2.43399	1.86256	0.323708	-0.67786	-0.35292	0.152175

1	Ramp2	0	-0.238488	-0.272106	0.191928	0.71584	3.24247	1.62391	0.986862	0.594054	0.898734	0.591694
1	Rarres2	0	0.166613	-0.099114	0.348315	0.219694	2.59492	1.69665	1.89406	1.69467	2.2659	1.56043
1	Rasa4	0	-0.450025	0.0560553	-0.542236	0.194434	1.95968	1.91712	2.35321	0.662876	0.701504	0.248339
1	Rasal3	0	-0.572546	-0.444532	-0.536892	0.14552	1.53388	2.05142	2.0453	1.06815	0.71751	-0.0409865
1	Rassf10	0	-0.45002	-0.185181	-0.727453	-0.111573	0.825113	2.45918	1.18492	0.638779	-0.164794	-1.08246
1	Rbl1	0	-0.518783	0.0288797	0.0638085	0.775601	2.0515	2.54323	2.03268	0.790494	1.03796	0.245047
1	Rbms2	0	-0.503251	0.0910617	0.696971	1.10121	2.61738	2.41111	1.13118	0.508106	0.127034	0.0657269
1	Rbp1	0	0.295888	0.511231	0.612412	0.667042	3.60525	1.92221	1.2703	0.747128	0.975378	0.520119
1	Rbpms	0	1.1	1.35555	0.546658	1.52587	3.27571	2.18922	3.00925	1.23199	1.19759	0.724742
1	Rcbtb2	0	-0.105049	-0.103676	-0.233654	0.214935	1.8838	2.41951	2.20903	0.942682	0.996578	0.0982374
1	Rcsd1	0	0.659186	0.0708802	-0.0016129	0.613639	2.21158	2.33622	2.63937	1.60143	1.61811	0.4413
1	Reep4	0	0.884189	0.488962	0.692783	0.897856	3.31355	2.6307	1.58856	0.714121	1.32049	0.363921
1	Renbp	0	0.614232	0.198672	0.372527	0.997022	2.63454	2.47764	2.55468	1.27096	1.65749	0.334417
1	Rfc4	0	0.368504	-0.0369405	-0.805731	1.2011	2.81912	1.79811	0.288514	0.593496	0.0842597	0.25295
1	Rgl3	0	-0.259365	0.363279	-0.200632	0.341594	2.22465	2.21575	1.70045	1.09279	-0.416139	-0.0457271
1	Rgs10	0	0.446992	0.598215	0.314872	0.147862	2.75037	2.42313	2.51658	1.46038	1.39791	1.17826
1	Rhbdl1	0	-0.423372	-2.2474	-1.78891	-1.40969	-1.41243	-2.57027	-3.24748	-2.0409	-2.45504	-2.90979
1	Rhoc	0	0.86554	0.834953	1.27831	2.17764	3.59643	2.47483	1.7716	1.07812	1.47475	0.599926
1	Rhog	0	0.208282	0.160996	0.625826	0.73862	2.81883	2.28701	2.2286	0.901447	0.980701	0.0115662
1	Rhoh	0	0.905375	0.512838	0.0778084	1.13674	2.62786	2.5153	2.63675	1.45333	0.9537	0.316739
1	Rin3	0	0.9086	1.11413	0.674577	1.34261	2.92815	2.32829	2.68063	1.37884	1.36706	-0.152862
1	Rinl	0	-0.0226681	0.331339	0.620436	0.653093	2.70825	2.34334	2.16287	0.531588	1.09435	0.0161245
1	Rmrp	0	0.224783	0.286642	0.17175	1.69511	3.40924	1.58774	0.508585	0.988008	1.58026	1.16565
1	Rnase4	0	-0.0066616	0.0389108	0.167212	0.0453925	2.27226	2.63963	1.98684	0.998231	1.17826	0.472796
1	Rnase6	0	-0.401056	-0.949962	-1.07625	-0.597504	1.1453	0.144789	1.68646	1.05501	1.40492	-0.660655
1	Rnaseh2c	0	-0.707951	-1.40956	-1.45976	-0.253228	2.21188	0.53751	-0.211377	-0.228017	0.390934	-0.235668
1	Rnaset2a	0	-0.017782	0.338674	1.05594	0.911118	2.68655	2.67488	2.13542	1.5575	1.63527	0.390007
1	Rnaset2b	0	-0.0284024	-0.0613697	-0.672758	0.0413073	2.477	1.60316	2.10455	0.924394	0.582979	0.417124
1	Rnf122	0	-0.527092	-0.0723073	-0.0782727	1.40267	1.10035	1.88615	0.980378	0.550091	0.0036563	-1.69111
1	Rnf135	0	0.45026	-0.369768	-0.833075	0.0881292	1.7014	2.05966	2.3044	0.82957	0.325311	0.525128
1	Rnf26	0	-0.32149	-2.4169	-2.79144	-1.01162	0.381366	-1.32576	-1.54379	-1.35441	-2.25828	-1.31048
1	Rnh1	0	0.256649	0.0980881	0.623234	1.12932	3.24952	1.64779	1.67094	0.395909	1.0063	-0.131907
1	Rom1	0	0.0958721	-0.667758	-0.159839	0.73178	2.86273	1.93702	1.14136	0.403463	0.877801	0.858698
1	Rplp0	0	0.0087522	-0.120477	-0.0984067	1.22665	3.22826	1.5355	1.48256	0.752982	0.852809	0.620222
1	Rprml	0	-0.554559	-1.78429	-3.2064	-2.11549	-1.19293	-2.45831	-2.72165	-2.37014	-2.88857	-2.31708
1	Rps15a-ps4	0	0.0698826	0.24518	0.419956	1.11463	3.55297	1.59142	1.41692	1.26184	1.4464	0.925183
1	Rps27l	0	0.317217	-0.62722	0.783819	2.02816	3.00506	1.28869	0.973143	0.430653	0.61263	0.265455
1	Rps6ka1	0	-0.3455	-0.262636	0.256718	0.555613	1.98255	2.44284	2.35475	1.05805	0.815471	0.637806

1	Rpusd3	0	0.478535	-3.19998	-1.5144	-1.87043	-0.438101	-1.06376	-1.55876	-1.58083	-0.777667	-1.5794
1	Rras	0	0.0428178	0.393603	0.809502	1.64651	3.14112	1.97791	1.00858	0.654766	0.311725	-0.115323
1	Rrbp1	0	0.306268	0.372122	0.508158	1.47557	2.82988	2.40252	2.40289	0.976738	1.10153	0.228137
1	Rrm2	0	0.0983055	0.0677965	0.0881639	0.185905	2.72895	2.14319	0.936797	0.0178326	-0.151573	-0.291809
1	Rsu1	0	-0.0874854	-0.401126	-0.0506872	0.811059	1.85727	2.4203	2.35813	0.92716	0.712818	0.339751
1	Rtkn2	0	1.14071	2.28952	0.359416	1.02973	2.53653	2.98546	1.81644	1.20446	0.281505	2.24576
1	Runx1	0	0.506876	0.721985	0.763742	1.65677	2.58443	2.65892	2.58971	1.09831	1.34261	-0.0206396
1	S100a1	0	0.0397157	0.0261357	0.0080844	0.0477949	3.12282	1.7931	1.21737	1.11494	1.13984	1.3707
1	S100a10	0	0.487467	0.887856	0.598522	1.8202	3.75879	1.43477	0.969743	0.846982	0.755292	0.63165
1	S100a11	0	0.240929	0.484785	1.04026	2.13778	3.27327	2.40101	2.04548	1.42335	1.68178	0.969251
1	S100a13	0	0.197102	0.275419	0.473369	1.11841	3.57352	1.84934	1.34692	1.19162	1.00481	0.705508
1	S100a16	0	-0.123093	0.107235	0.102728	1.53018	3.36592	1.11719	0.888814	0.531904	0.458036	0.423529
1	S100a4	0	-0.183476	0.0449563	0.246009	1.56596	2.63073	2.05614	2.24438	1.50932	1.52998	0.689222
1	S100a6	0	-0.103377	0.0184481	0.454518	1.41431	3.08692	2.10407	1.786	1.33423	1.24889	0.708527
1	S1pr2	0	-1.11108	-0.709959	0.184673	0.269095	2.14641	1.55007	1.22531	-0.643891	0.255258	-0.111107
1	Sall1	0	-0.240533	-0.860438	0.111012	0.398546	1.95466	2.11678	2.13182	0.764701	0.502	0.392763
1	Sall3	0	0.917584	0.470109	0.895915	1.09078	3.35566	1.66409	1.55065	0.159663	0.449734	-0.19514
1	Samhd1	0	-0.532144	-0.579862	-0.362506	0.363014	1.68822	1.79238	2.34182	0.309057	0.698099	0.0397708
1	Samsn1	0	0.236324	0.218409	0.839975	1.24756	2.59224	2.13921	2.7181	1.62233	1.00629	0.0972149
1	Sap30	0	1.35985	1.21756	1.38519	1.55365	3.61796	2.4589	1.77518	0.334435	1.66566	2.4638
1	Sash3	0	0.36238	0.375178	0.11719	0.66905	2.40926	2.55997	2.5803	1.69908	1.68803	1.0348
1	Scamp2	0	-0.0228268	-0.514995	-0.542665	0.373253	2.6483	1.49689	1.55882	0.399112	0.178471	-0.207968
1	Sdf2l1	0	1.00291	0.836166	-0.139685	0.861795	3.12716	2.20965	0.992738	1.21089	0.753812	-0.255596
1	Selplg	0	-0.225373	-0.774997	-1.15979	-1.26478	1.29742	1.3645	1.56526	0.339361	-0.153555	-0.536982
1	Sepw1	0	0.0657361	-0.49237	-0.265835	-0.596597	0.124492	-1.62283	-2.27624	-1.67583	-2.38175	-2.12388
1	Serhl	0	-0.0954263	0.526763	0.40288	0.573813	2.71335	2.37703	2.33453	1.211	1.64812	0.648081
1	Serpina3n	0	0.171103	0.501263	0.690196	2.36756	2.71331	2.40949	2.21154	1.76263	1.44324	0.516574
1	Serpinb1b	0	0.657252	-0.127014	0.0525339	0.637823	2.9282	0.740719	1.59064	1.54995	2.03827	2.09148
1	Serpinf1	0	0.0893769	0.212972	0.0969703	0.393296	2.45774	1.97864	2.43394	1.23468	1.60361	0.0919769
1	Sgol1	0	0.403425	0.753009	0.716811	1.04231	3.06041	2.40396	1.45805	1.10203	0.822064	-0.429296
1	Sgol2a	0	-0.063582	-0.118566	0.123893	0.373846	2.93176	1.76833	0.668702	0.686684	-0.0133426	-0.52637
1	Sgsh	0	-0.531144	-0.381519	-0.377347	0.213627	1.65767	2.14567	2.04239	0.404392	1.27266	0.13772
1	Sh3bp2	0	0.34044	1.27877	1.12407	1.51301	2.91121	2.48561	2.76764	1.58667	1.19641	0.214792
1	Sh3tc1	0	-0.40905	0.0550758	0.396718	0.970941	2.3734	2.07826	2.2103	0.930279	0.439803	-0.152373
1	Shc1	0	0.0294095	0.554338	1.07488	1.28975	2.33351	2.44048	2.30884	-0.0223735	0.75743	-0.0520626
1	Shcbp1	0	-0.144695	0.0480616	0.444633	0.572026	3.06483	2.10857	1.1523	0.720526	0.207808	0.150793
1	Shisa5	0	0.122959	-0.366691	-0.311073	0.758788	2.33912	1.70303	2.02571	0.0557146	0.389909	-0.408025
1	Shmt1	0	0.232887	-0.372694	0.592628	1.44907	2.43012	2.70723	0.826347	0.181386	0.0804087	0.883212

1	Shmt2	0	-0.397368	-1.04774	-0.355513	2.02311	1.83218	0.641724	0.388255	-0.603687	0.0725287	-0.732911
1	Siah1b	0	-1.08934	-0.234332	-0.592371	-0.656849	1.33252	-1.20696	-0.912007	-2.58902	-0.823583	-1.78545
1	Siglech	0	-0.0856245	-0.105697	-0.351138	-1.23359	2.41811	0.997722	1.62499	0.606494	0.261196	0.0427166
1	Sipa1	0	-0.0557037	-0.413224	0.0392876	0.570391	2.90725	1.83775	1.42445	0.44852	0.53771	0.0073782
1	Six6	0	0.896539	-0.618429	0.846422	0.180332	1.68503	0.663816	-0.64828	1.05947	2.44364	1.93829
1	Sla	0	-0.732591	-0.450327	-0.20982	1.20403	1.79592	1.1965	1.52253	-0.1845	-0.426715	-1.09525
1	Slamf9	0	-0.527519	-0.683563	-0.178436	1.02228	2.05742	2.03462	1.85687	0.903985	0.839453	0.262517
1	Slc13a3	0	0.161883	-0.473047	-0.582353	-0.054542	2.71169	0.997154	1.59222	0.926177	1.48465	0.881201
1	Slc14a2	0	0.740615	-0.456155	-0.580858	0.265341	2.0148	1.46615	1.32852	1.52865	2.00976	2.07384
1	Slc16a3	0	-0.251174	-0.735631	0.365509	0.86413	2.30154	1.77857	1.59299	0.273657	0.293999	-0.661515
1	Slc22a2	0	-1.1117	-0.708092	-0.06378	0.789441	2.18142	0.627529	1.73776	0.0362619	1.33755	0.432278
1	Slc22a8	0	-1.10734	-1.95938	-2.23647	-0.76896	0.675533	0.0281254	0.522646	0.0932766	0.507236	-0.0217153
1	Slc25a10	0	0.087931	-1.6997	-0.464889	0.0770239	1.77665	1.72868	0.809059	0.469863	0.201505	-0.586473
1	Slc25a45	0	0.844086	0.06288	0.257653	0.871798	2.46833	2.58259	2.57765	1.2203	1.51232	0.397937
1	Slc26a10	0	-0.943053	-1.22753	-0.871396	-0.429767	0.25786	-2.11173	-1.75095	-3.12269	-0.717357	-0.202023
1	Slc2a5	0	-0.560571	-1.27328	-2.8571	-2.27341	-0.128226	-0.282643	0.458235	-0.550886	-1.1705	-0.377021
1	Slc31a2	0	-0.115859	-0.221422	0.197889	0.890843	2.56648	2.15525	2.09533	0.797153	1.34128	0.251312
1	Slc39a1	0	0.0642755	0.0635184	0.400089	1.52291	3.101	1.64865	1.33603	0.339654	0.374815	-0.148582
1	Slc39a8	0	0.174741	0.0824227	-0.0207888	0.35482	2.91828	2.29344	1.28387	0.595194	1.14828	0.1149
1	Slc46a1	0	-0.7821	-1.08741	-0.922642	-0.955933	1.2901	1.70551	0.0526978	0.145548	-1.07017	-1.1913
1	Slc52a3	0	0.502647	-0.943482	-0.531821	2.17946	1.73297	1.27877	0.939921	0.19146	0.795803	-0.630585
1	Slc7a7	0	-0.118285	0.114781	0.128509	0.89974	2.41345	2.44073	2.34638	1.27662	1.0141	0.516915
1	Slco2b1	0	-0.299713	-0.0054812	-0.268453	0.352768	2.02395	2.19501	2.33274	0.853751	0.602687	0.176674
1	Slfn9	0	0.100689	-0.0595824	0.285091	0.832951	2.27357	2.37433	2.2392	0.653198	0.506793	-0.219944
1	Smagp	0	-0.811191	0.490726	-0.18412	0.899757	2.46248	2.15083	1.78711	0.815022	0.516593	1.04268
1	Smarcd2	0	0.0775597	0.490047	1.04966	1.36435	2.28435	2.68917	2.19788	0.718166	0.924157	-0.323304
1	Smc2	0	-0.0725746	-0.0631495	-0.206948	0.486009	3.18332	1.68015	0.786098	0.489384	0.501362	0.155796
1	Smc4	0	0.128567	0.101747	0.319766	0.541795	3.30882	1.75541	0.987808	0.544026	0.714472	-0.112639
1	Smtn	0	1.78376	1.33543	1.31846	1.44143	3.90029	2.59812	1.70611	1.3498	1.18187	0.763349
1	Sncg	0	0.976468	-0.179897	0.954251	1.29539	2.75427	1.2044	0.88857	1.86176	2.68661	2.48305
1	Sntn	0	-0.750843	-0.854029	-0.525319	-0.0558672	2.41475	0.337173	1.12214	0.455232	1.53262	0.511862
1	Snx20	0	0.452798	0.30498	0.789507	0.999054	2.55824	2.28571	2.55805	1.39384	1.66806	-0.170767
1	Snx8	0	0.621822	0.711836	0.625127	0.850047	3.52736	1.56914	1.88791	0.157928	0.843219	0.383323
1	Sox4	0	0.391709	0.247506	0.217732	0.86805	3.20019	1.52745	0.628399	-0.0543354	0.104308	-0.380106
1	Sp110	0	0.287836	0.217987	0.424774	1.00068	2.6395	2.42123	2.62064	1.26215	1.40615	0.484504
1	Spaca6	0	-0.877353	-1.7629	-1.31556	0.248627	0.465748	-0.418074	-1.47244	-1.154	-1.16683	-3.00237
1	Spag17	0	0.634741	-0.523359	-0.367615	0.504774	2.20168	1.59565	1.74817	1.36364	2.14792	1.78907
1	Sparc	0	0.604562	0.585973	0.759975	1.0395	3.29264	2.19667	1.3136	0.25869	0.719791	-0.0991672

1	Spc25	0	0.149981	-0.0830642	0.0289611	0.882836	2.81061	2.17997	1.5242	0.52784	0.618098	-0.194636
1	Spi1	0	-0.613214	0.159812	0.295606	1.15407	2.22787	2.16836	2.09451	0.957013	0.937406	-0.178502
1	Spidr	0	0.809353	0.849966	0.89336	2.12507	2.70806	3.07213	2.93607	1.28409	1.48661	1.16259
1	Spp1	0	-0.0274714	0.219292	0.395512	1.60786	2.53022	2.35205	2.2427	1.38932	1.54351	0.204875
1	Spsb2	0	0.864754	0.697432	0.492359	1.57952	3.63476	2.30836	1.98599	1.43768	1.65852	0.978026
1	Ssc5d	0	0.215512	-0.146482	-0.14103	0.210887	2.36571	2.21617	2.06683	0.597116	0.848495	-0.108917
1	St6gal1	0	-0.215041	0.35513	0.438542	0.431839	2.32672	2.49266	2.52534	0.9591	0.997109	0.607841
1	Stab1	0	-0.186705	-0.0997173	0.0390175	0.610431	2.08606	2.60249	1.72832	0.395233	0.414608	-0.236922
1	Stag3	0	-0.0482406	0.828628	0.570819	1.05512	2.84666	2.30018	1.70065	1.2607	0.778611	-0.406148
1	Stat2	0	0.170325	-0.33292	0.206364	0.332226	0.571305	1.7864	2.28288	-0.598057	-0.482638	-1.06593
1	Stat6	0	0.193957	-0.246546	-0.0447745	0.331866	1.94804	2.31771	2.51975	0.727768	0.815865	0.183198
1	Steap3	0	-0.342057	-0.33033	-0.222352	1.2641	2.11113	1.60021	2.3478	0.91122	1.22873	0.0454383
1	Stra6l	0	-0.0778385	0.123918	-1.43336	0.540091	1.54473	1.83198	1.76143	1.22407	1.43832	0.449021
1	Stx2	0	-0.563191	-0.427007	0.254004	0.270567	1.57521	2.8267	1.41901	0.0450641	0.481838	0.250817
1	Susd3	0	-1.33953	-0.546162	-1.00101	-0.0743139	1.92378	1.19708	1.2601	-0.139995	0.431272	-0.369076
1	Syk	0	-0.281514	-0.239309	-0.255585	0.691758	1.85994	2.04914	2.33851	0.970135	1.23465	-0.0587135
1	Syngr2	0	0.18993	-0.0445558	0.402125	1.30767	2.86309	2.27105	2.19712	1.29677	1.13289	0.468884
1	Syt15	0	-0.617309	0.296971	-0.106846	0.705025	2.59809	2.3436	1.38553	0.963775	0.786439	0.267085
1	Tacc3	0	0.197103	0.0188436	0.628848	0.567195	3.30364	2.10579	0.943274	0.499081	0.351129	0.616035
1	Tagln	0	0.607974	0.158414	0.785556	1.55958	3.26443	2.36099	2.15699	1.67914	2.0592	1.30408
1	Tap1	0	-0.444456	-0.379812	0.320596	1.18047	2.08508	1.87656	2.60787	0.873345	1.05856	0.728589
1	Tap2	0	0.307076	-0.289478	0.156426	1.39909	2.35321	1.97016	2.77389	1.07298	1.44178	1.03016
1	Tapbp	0	0.0323898	-0.250937	-0.0527559	0.649676	1.93755	2.30527	2.57362	0.807844	1.11038	0.399196
1	Tax1bp3	0	0.102394	0.573513	0.764304	1.35499	3.14377	2.24218	1.96378	0.944798	1.346	0.0786373
1	Tbx2	0	-1.2131	-0.8709	0.0522194	0.675055	2.08587	1.55797	-0.0249738	-0.765443	-0.0157636	-0.279101
1	Tbxas1	0	-0.063047	0.48973	0.207498	0.660271	2.55689	2.32532	2.39715	1.34053	1.2611	0.247795
1	Tcea3	0	0.198682	0.532311	-1.17207	0.559154	1.97903	1.25313	1.86331	1.41455	2.17751	1.09878
1	Tcf7l1	0	-0.646977	0.0437184	-0.166985	0.642985	2.38076	2.30508	1.39059	0.210229	0.732357	0.0323982
1	Tcirg1	0	-0.35503	-0.816373	-0.509869	0.187201	1.84306	1.95689	1.70294	0.565119	0.584054	-0.414148
1	Tcn2	0	-0.0127299	-0.0890093	0.115056	-0.0292852	2.11508	2.41538	2.23213	0.786699	0.777814	0.191944
1	Tead2	0	0.0999343	-0.41328	0.0809195	1.51396	2.76741	2.06874	1.67685	0.404535	0.974242	0.634628
1	Tep1	0	0.221957	-0.142466	0.146515	0.79028	2.43516	2.38921	2.39665	1.12485	1.43639	0.571938
1	Tfeb	0	-0.487967	0.168852	-0.224088	1.38779	2.56359	2.28297	1.61258	1.10805	0.854181	0.963374
1	Tgfa	0	-0.553324	-0.284335	0.306253	2.27606	2.13766	1.33661	1.05698	-0.0898696	-0.210311	-0.0523999
1	Tgfb1	0	0.0469692	0.206162	0.445871	1.10603	2.52257	2.42698	2.51235	1.20714	1.12748	0.283368
1	Tgfbi	0	0.182522	0.478917	1.14325	2.05255	3.26876	2.13466	2.23817	1.2021	1.62824	0.767385
1	Tgif1	0	0.450447	1.16863	1.14849	1.99411	2.8636	2.7293	2.7657	1.29179	1.40946	0.426425
1	Them6	0	-0.457994	-1.67911	-1.2077	-2.25332	0.34479	-2.07423	-1.95991	-2.46891	-2.56751	-1.47986

1	Themis2	0	0.372756	-0.690507	0.352529	0.906317	1.8297	2.0487	2.57518	1.05278	1.44441	0.0209469
1	Thpo	0	-0.176084	-1.09244	-0.511059	-0.550137	-0.518612	-1.79699	-2.4613	-2.28078	-2.5942	-2.28794
1	Ticam1	0	1.49285	0.974493	0.691648	1.61474	3.37915	2.30842	3.01546	1.32469	1.62165	0.913564
1	Tie1	0	-0.104088	-0.625911	-0.512996	0.729558	2.85714	1.71456	0.745038	0.662238	0.641441	0.450003
1	Tifab	0	-0.237567	-0.966391	-0.749612	0.543955	1.92349	1.59811	1.91155	0.988594	0.566961	0.305483
1	Timm22	0	-1.33207	-1.09789	-1.06273	-0.954832	0.226905	-1.71873	-2.99699	-1.79726	-1.2574	0.478621
1	Tln1	0	0.0270479	-0.0388514	0.272696	1.18771	2.27492	2.54624	2.50639	1.22987	1.20398	0.680483
1	Tlr7	0	0.657438	0.931381	0.539113	1.16616	2.35482	2.80287	2.82843	1.49151	1.08446	0.123913
1	Tmbim7	0	0.612892	0.0614581	0.0986047	0.182361	1.49845	-0.88858	-1.14565	-1.69852	-1.163	-1.56625
1	Tmc6	0	-0.0446432	0.245053	0.0936961	0.659483	3.00726	1.9532	1.94455	0.589226	1.59973	0.786263
1	Tmco6	0	-1.21425	-2.57379	-1.70895	-0.417082	0.491028	-0.0333568	-0.629432	-0.765311	-0.216068	0.961673
1	Tmed3	0	-0.214062	-0.23221	-0.544929	0.336192	2.77535	1.74012	1.51286	0.592635	0.94898	0.72143
1	Tmem104	0	-0.105635	-0.26858	-0.59897	0.355587	2.0816	2.3378	1.80808	0.480318	0.302261	0.263588
1	Tmem106a	0	-0.163969	-0.435295	-0.0620291	0.683138	2.03778	2.20584	2.15459	1.09836	1.36556	0.166371
1	Tmem119	0	-0.0402107	-0.728702	-0.878841	-0.561176	1.92955	1.92525	1.38764	0.215444	-0.0339455	0.212116
1	Tmem125	0	0.586567	0.237284	0.951773	1.90013	3.73613	1.75046	1.27302	1.20462	1.07559	1.24793
1	Tmem143	0	0.0040423	-1.31507	-1.17199	-1.236	-1.32998	-1.02967	-1.87129	-1.38366	-1.61389	-3.76955
1	Tmem150a	0	-0.414998	0.0346147	0.160911	0.806068	2.87107	1.68929	2.0357	0.428287	1.08151	0.516832
1	Tmem173	0	-0.354403	-0.363994	0.189932	1.07149	2.32667	1.99402	2.30849	0.645811	1.0873	0.457758
1	Tmem176a	0	0.102777	-0.182353	0.143629	1.40499	3.02585	1.91298	1.97085	1.10701	1.18489	0.923158
1	Tmem176b	0	0.175612	0.0452146	0.382559	1.4531	3.06023	1.97123	2.20377	1.209	1.51578	0.644468
1	Tmem179b	0	-0.052042	-0.741063	-0.173903	0.797753	2.82911	1.63783	1.18929	0.263064	0.543739	0.0773634
1	Tmem198b	0	0.162421	0.2676	0.565814	0.996995	2.5417	2.70384	1.48254	0.0756512	0.784536	-0.179967
1	Tmem203	0	0.179757	-2.64109	-1.01159	-0.26254	0.619442	-0.290828	0.0826012	-1.96295	-1.39794	-0.359716
1	Tmem37	0	-1.2675	0.230015	0.306488	0.958019	2.41523	1.72197	1.69916	1.09959	0.451566	0.585139
1	Tmem51	0	-0.364611	-0.0129696	-0.941316	0.714211	2.28658	1.28397	1.77153	1.00845	1.68594	0.38117
1	Tmem71	0	-0.194042	-0.765742	0.420623	-0.254101	2.36645	1.91335	1.63611	1.0059	1.28276	0.553232
1	Tmem86a	0	0.0390775	-0.577721	-0.501648	-0.008187	1.97929	2.11858	2.02904	0.646414	0.518096	0.29071
1	Tmem98	0	-0.122838	-0.716293	-0.477933	0.740035	2.01574	1.76876	1.80559	1.248	1.76942	0.8725
1	Tmie	0	1.15909	0.747726	0.874846	1.21027	3.43337	1.44667	1.82694	1.76638	2.92332	2.39335
1	Tmsb4x	0	0.0113604	0.0160751	-0.248628	0.362867	3.09687	1.81713	0.88041	0.403416	0.408776	0.0433293
1	Tnfaip8	0	0.180211	0.169633	0.432792	1.10746	2.90375	2.28189	2.32427	1.21507	1.70994	0.683243
1	Tnfaip8l2	0	-0.502041	-0.849157	-0.421383	0.264304	2.03729	1.70417	1.68851	0.819518	0.880604	-0.241408
1	Tnfrsf13c	0	1.4103	0.982128	0.181273	0.697195	2.56443	-0.488046	-0.368993	-0.496297	1.70888	0.102054
1	Tnfrsf1b	0	-0.106227	0.278576	0.384885	0.914701	2.42834	2.2443	2.37361	1.14241	1.38105	-0.108974
1	Tnfsf12	0	-0.548272	-0.274062	-1.16323	-0.706761	2.15075	1.46854	0.986221	0.282527	0.175112	-0.480653
1	Tnfsf13	0	0.292644	-0.0281971	-0.517189	-0.606859	2.12658	1.8934	1.58062	0.625905	1.83098	0.373771
1	Tnfsf13b	0	0.864526	0.674387	0.600457	0.857125	3.06324	2.52395	2.70421	1.30943	2.10491	1.81231

1	Tnni2	0	0.0695651	0.864487	1.03418	0.681277	2.82859	2.33782	2.63634	2.11492	1.01675	0.841184
1	Top2a	0	0.107778	0.0200247	0.24695	0.336615	2.79294	2.24789	1.44226	0.578519	0.358612	-0.250775
1	Tpcn2	0	-0.0299983	0.441079	0.13877	1.01998	2.14371	1.67281	1.62092	0.774395	0.80795	-1.45067
1	Tpgs1	0	-0.879147	-1.9293	-2.91513	-0.70329	0.903958	-0.961576	-1.22105	-1.26332	-1.3833	-0.303451
1	Tpp1	0	-0.257322	-0.486312	-0.406547	-0.474723	1.24082	2.08738	1.81986	0.514053	0.12491	-0.889731
1	Tpt1	0	0.842028	0.965789	1.16972	1.37412	3.87311	2.48062	2.07937	1.57045	1.8247	1.53248
1	Tpx2	0	-0.218509	-0.447665	-0.260574	0.0978524	2.63585	1.69929	0.66025	-0.173939	-0.268181	-0.497541
1	Traf3ip3	0	-1.01986	-0.203372	-0.991093	-0.134046	1.72809	1.43951	1.85007	0.733597	0.569892	-0.0121891
1	Trf	0	0.292917	0.349575	0.418757	2.1522	3.32208	1.91517	1.93362	1.31847	1.32324	1.15382
1	Trim12c	0	0.540518	-0.0900352	0.325701	0.674463	2.64595	2.07254	2.6608	1.27195	1.4882	0.527246
1	Trim14	0	-0.838646	-0.433166	-0.934421	0.171342	0.929806	1.564	1.98741	0.25234	0.149481	-1.07106
1	Trim47	0	-0.294285	0.0777672	0.873237	2.03772	2.87541	1.84092	1.53704	0.120474	1.30846	0.912872
1	Trim56	0	0.360767	1.22682	1.09237	1.7786	3.37093	2.03458	2.81925	1.10261	1.6647	0.847446
1	Tspan4	0	-0.0627119	0.278495	0.216743	2.13205	2.57859	2.11338	2.0971	0.956377	0.484733	0.490253
1	Tspo	0	-0.286153	-0.0334329	0.0098434	0.737149	2.90424	1.87881	1.79278	0.510725	1.29297	0.738032
1	Ttc7	0	-0.433226	-0.703057	-0.24233	-0.648667	1.7781	1.94351	1.65621	-0.105984	0.401074	-0.222774
1	Ttf2	0	-0.508124	-0.977612	-0.115859	1.34134	1.54075	2.01347	1.9901	0.70661	0.796571	0.426465
1	Ttk	0	0.059401	0.437593	-0.174307	0.396248	2.29787	1.88779	1.19174	0.198651	0.0290384	-1.27643
1	Tyk2	0	0.0216864	0.215856	-0.24501	0.721725	2.86239	1.87152	1.46932	0.126354	0.404977	-0.242205
1	Tyms	0	0.125722	-0.740173	0.241016	-0.451207	1.59234	-0.270532	-0.413309	-1.43538	-1.43122	-2.11317
1	Tyrobp	0	0.0422105	0.0965344	0.0935034	0.682347	2.2261	2.44646	2.35327	1.58065	1.42143	0.359395
1	Uap1l1	0	0.0335553	0.01723	-0.008622	0.82406	2.53423	2.35033	2.23255	0.803843	0.967362	0.380388
1	Uba7	0	0.19976	-0.292339	-0.421426	0.475944	2.12554	2.24274	2.19202	1.26646	1.00819	0.370274
1	Ube2c	0	0.395996	0.48997	0.872153	0.953441	3.26465	2.15988	1.0944	0.206215	0.410793	-0.0095305
1	Ube2l6	0	-0.459765	-0.322303	-0.423031	0.394041	1.92221	1.82706	2.32851	0.576807	0.940546	0.122901
1	Ucp2	0	0.389261	0.609861	0.587466	1.55021	3.02703	2.7287	2.1108	0.733643	0.947764	0.677169
1	Ugt1a7c	0	-0.301251	-0.557228	-0.38766	0.187493	1.86297	2.06925	1.91416	1.02909	0.895705	-0.168668
1	Uhrf1	0	-0.442923	0.229673	0.181287	1.28928	2.76518	2.09527	1.14427	0.551304	0.318337	-0.191379
1	Unc13d	0	0.3554	-0.726722	-1.08197	0.068162	1.42597	1.50659	2.40972	0.614477	0.563998	0.561867
1	Ung	0	2.37177	1.10574	0.952679	1.07492	2.35527	0.662503	0.377285	-1.16096	0.320366	0.726947
1	Usp2	0	-0.57285	-1.30506	-1.64627	-1.92036	0.316097	-1.84698	-1.93643	-2.21908	-3.1005	-1.59096
1	Usp43	0	-0.939751	-1.33595	-1.42845	-0.441975	-1.66707	-1.6683	-2.21448	-2.64145	-2.24799	-3.52253
1	Vamp8	0	0.514943	0.368852	1.04721	1.13686	3.18965	2.50573	2.56673	1.60772	1.88452	1.53634
1	Vasp	0	0.734423	0.0719139	0.790293	1.75751	2.6531	2.53421	2.38701	0.713412	1.38547	0.189929
1	Vat1	0	0.376132	0.181519	0.158529	0.839388	2.76486	2.18024	2.45788	1.33487	1.99164	1.20396
1	Vav1	0	-0.173325	0.112455	0.440467	1.17891	2.54657	2.33317	2.32493	1.21181	1.10549	0.277833
1	Vim	0	0.0951657	0.529775	0.745418	1.75097	2.92194	2.61254	2.23064	1.51227	1.71221	0.712946
1	Vkorc1	0	-0.0625771	-0.0106189	0.374924	0.46892	2.72969	2.52919	1.84449	0.823039	1.13863	0.676787

1	Vmn1r65	0	0.584553	0.0955594	0.151436	-0.0818314	2.03941	-0.863345	-0.58136	-1.59723	-0.957204	-1.19879
1	Vwf	0	-0.141421	-0.0493954	0.38232	1.43959	2.81291	2.34136	1.60823	0.848983	0.797487	0.261164
1	Was	0	0.653737	1.24987	1.11917	0.982022	2.99271	2.11797	2.60472	0.751399	0.540777	-0.0427207
1	Wasf2	0	0.141429	0.658265	0.792116	1.64545	2.70575	2.76612	2.60692	1.03945	1.31846	0.772154
1	Wdfy4	0	-0.484705	-0.647877	-0.179039	0.362093	1.64708	2.06211	2.17974	0.935679	0.791942	-0.0031908
1	Wdr62	0	-0.0268461	-0.716795	0.0809809	0.687235	2.74992	2.13538	1.23938	0.609133	0.986056	0.717448
1	Xlr	0	0.001555	-0.119032	0.65456	1.12627	2.53542	2.52183	2.28158	1.45736	1.34534	0.608928
1	Ybey	0	0.361781	-0.0207346	-0.0470606	0.126491	1.17021	-1.38361	-1.45478	-1.5392	-1.32126	-1.90261
1	Yif1a	0	0.625121	0.310179	0.483213	2.41469	3.42206	1.01351	1.26313	0.710242	0.852633	0.648043
1	Zeb2os	0	-0.287257	0.21089	-0.255741	0.664476	2.74533	1.96221	1.83994	1.18252	0.953619	0.226216
1	Zfp575	0	-0.822299	-2.43833	-2.34336	-0.950618	-1.23804	-3.05724	-2.63051	-2.13547	-3.11275	-1.98275
1	Zfp764	0	-1.4384	-2.34376	-0.443913	-1.02912	1.06097	0.527654	0.524054	-0.149675	-0.123951	0.492274
1	Zfp771	0	0.0388142	-0.979664	-2.29635	-0.12496	-0.22034	-0.598562	-0.280287	-0.828206	0.625555	1.72423
1	Zfp85	0	-1.76237	-2.6949	-0.808859	-0.367945	-0.055229	0.125908	-0.139985	0.403873	0.349882	0.536825
1	Zfp865	0	-1.05606	-2.90657	-2.30975	-1.26545	0.556892	-1.0098	-0.597269	-0.934624	-1.88987	-1.79885
1	Zic4	0	0.528546	0.24691	0.355161	0.683249	2.99069	2.17155	1.87642	1.50936	2.44689	1.45304
1	Zmynd10	0	0.697438	-0.299159	-0.64909	-2.09917	1.16616	0.51727	0.610872	1.22443	1.09652	0.895724
1	Znf41-ps	0	1.52884	1.29629	0.568136	1.98068	2.93867	2.94579	2.90487	2.3937	1.37865	2.55197
1	Zwilch	0	0.264159	0.0293072	-0.0596012	0.506745	2.66898	2.24643	1.05629	-0.450766	-0.0433043	0.399414
2	1700001L19Rik	0	-0.464123	0.162724	-0.931306	-1.52325	-0.0802675	-1.1858	-1.30521	-0.195907	-0.0620998	2.12192
2	1700030J22Rik	0	-0.830728	-0.302353	0.163874	-1.16494	-2.6439	-2.51284	-1.65452	-0.996031	-1.8552	0.0044936
2	2810032G03Rik	0	-0.320267	-0.0063022	-1.36466	-2.76449	-1.79372	-2.35304	-2.4383	-2.11137	-1.9282	-0.974271
2	2900055J20Rik	0	-0.100789	-0.800365	-1.25591	-1.30125	-0.0465613	-3.32659	-1.90062	-1.52627	-0.369321	-0.563251
2	4930429B21Rik	0	0.4615	-0.434933	-0.747695	-1.42054	-2.78968	-2.15715	-1.80098	-1.99892	-1.92032	-1.54776
2	4930452N14Rik	0	-0.256894	-0.328839	-0.680339	-0.345356	-0.106031	-1.55554	-2.93394	-2.5774	-1.2099	-0.691142
2	4931440F15Rik	0	-0.455412	-0.217424	-1.29389	-1.24784	-0.556092	-2.91046	-2.9777	-1.10642	-1.95017	-1.36653
2	6530402F18Rik	0	-0.598397	-0.580459	-0.681184	-2.18775	-2.78884	-2.95397	-1.30963	-1.48578	-2.53643	-1.24727
2	A230103J11Rik	0	-1.44326	-1.83618	-0.978806	-0.974163	-3.8192	-1.62011	-2.54907	-2.49438	-2.01496	-2.07577
2	A730017L22Rik	0	0.220175	-1.03716	-0.799635	-0.899744	-0.867927	-2.98341	-2.06355	-2.67263	-1.4297	-1.45419
2	Abhd8	0	-0.460322	-1.641	-2.11271	-0.853761	-1.65082	-2.75939	-3.47667	-2.08227	-2.17591	-1.52818
2	Ackr2	0	-0.307861	-2.30561	-1.20207	-0.87679	-3.03673	-0.460608	-2.05542	-1.24062	-2.6336	-1.85384
2	Acot5	0	-0.441083	-0.842153	-1.87216	-0.4317	-2.23223	-3.43327	-0.678705	-1.16754	-1.25007	-0.494943
2	Actn2	0	-0.931082	-0.845131	-1.65315	-2.60926	-3.5634	-1.67177	-1.16891	-0.801271	-1.24065	-0.499945
2	Actr3b	0	-0.513282	-0.467985	-1.00174	-2.21976	-3.4746	-2.33835	-1.49229	-0.899953	-1.39859	-1.0247
2	Acvr1c	0	-0.078881	-0.448167	-0.243452	-1.94568	-2.33356	-2.64497	-2.13583	-1.69127	-1.89257	-0.601903
2	Adamts17	0	-1.46937	-1.79373	-1.57848	-2.69513	-3.38828	-2.30446	-2.36573	-2.4309	-2.83828	-3.5872
2	Adcy5	0	-0.952361	-1.15874	-1.65677	-2.80021	-3.76887	-1.62453	-1.16889	-1.27417	-1.22086	-1.03212
2	Adora2a	0	-1.28385	-1.64993	-2.12248	-2.88203	-3.56072	-1.22842	-1.1933	-1.22996	-0.958344	-0.717514

2	Adra2c	0	-1.46815	-2.10469	-2.56545	-3.71271	-2.34793	-2.85728	-2.69694	-2.64039	-2.07488	-1.04874
2	AI593442	0	-1.31854	-1.65183	-2.13018	-2.17496	-3.35487	-2.013	-1.74805	-1.27994	-1.52259	0.245123
2	Akap5	0	0.242746	-0.0310357	-0.896158	-1.75689	-3.13214	-0.591965	-0.191633	-0.0167431	-0.325738	-0.161644
2	Alkbh4	0	-2.01593	-1.8181	-1.17747	-1.97924	-1.16624	-3.27962	-2.83987	-2.6851	-2.63765	-3.19725
2	Amy2a5	0	1.09958	0.338328	1.27287	0.766789	-0.410317	0.715206	-0.0748386	0.130301	-0.0717254	3.18678
2	Ankrd34a	0	-0.947112	-1.47721	-1.77134	-1.58501	-1.87725	-3.09023	-3.20506	-1.73431	-2.39361	-0.369885
2	Ankrd34c	0	-2.32562	-0.835578	-1.37678	-0.570688	-3.40056	-2.89888	-1.54884	-1.15121	-1.81319	-1.37758
2	Ankrd63	0	-0.302876	-1.1708	-1.26804	-2.54056	-3.27292	-1.31833	-0.712917	-0.681983	-0.733646	-0.195033
2	Arc	0	1.45647	1.92249	2.24822	0.355875	-1.0823	-0.162585	0.019346	0.370693	1.03641	1.2732
2	Arf3	0	-0.257401	-0.530425	-0.965862	-2.05905	-2.92014	-2.64178	-1.92121	-1.87201	-2.49095	-1.88604
2	Arhgap32	0	-0.825608	-1.00375	-1.30175	-1.44049	-4.00285	-1.98123	-1.42039	-1.09978	-1.85822	-1.00616
2	Arhgap33	0	-1.19296	-1.49829	-2.0712	-2.27651	-3.21823	-3.30915	-2.83967	-2.1582	-3.02508	-2.72296
2	Arl4d	0	2.36756	1.33725	0.302964	0.0705147	-0.658825	-0.790989	-0.91248	-0.745059	-0.284677	-0.107737
2	Arpp19	0	-0.51242	-1.13747	-1.37615	-1.7438	-3.65868	-2.15456	-2.14886	-1.27723	-1.80038	-0.540141
2	Arpp21	0	-0.959925	-0.861918	-1.85273	-2.46345	-3.73614	-2.03959	-1.91596	-1.22609	-1.99768	-0.870925
2	Asic4	0	-0.642102	-1.14871	-2.33129	-2.79673	-2.60083	-1.74509	-1.52454	-0.959511	-0.707131	0.163709
2	Asphd2	0	-0.43156	-1.59863	-1.8996	-1.65193	-3.3738	-2.97351	-2.38396	-2.22114	-2.54738	-1.94189
2	Atp2b2	0	-0.114017	-0.676313	-0.83455	-1.64551	-3.58966	-2.02117	-1.24341	-0.766795	-1.66956	-1.1462
2	AU023762	0	-0.340947	-0.207747	-1.25674	-0.621893	-2.0622	-2.34396	-2.43489	-1.77599	-2.84515	-0.873232
2	Baiap2	0	0.164502	-0.238195	-0.305633	-1.52876	-1.66429	-2.10866	-2.12104	-1.59892	-2.66168	-2.07132
2	Barx2	0	-0.545706	0.16482	-1.35759	-0.841571	-1.90056	-1.63906	-2.41895	-1.4766	-2.91248	-0.231734
2	BC030499	0	-2.68622	-2.13673	-2.5377	-2.76717	-2.18377	-3.06785	-3.26726	-3.48483	-3.65638	-3.10778
2	BC031361	0	-1.06059	-0.0806035	-0.693748	-1.50069	-3.53757	-1.70139	-2.18127	-1.51606	-1.58691	-2.0136
2	BC052040	0	0.89998	0.198337	-0.18902	0.180413	-0.487081	0.0629561	0.293631	0.467797	0.221128	3.26881
2	Bcl11b	0	-1.23036	-1.98614	-3.00464	-3.2225	-3.22058	-3.05784	-2.46314	-2.25797	-2.50686	-1.46445
2	Bcor	0	0.992742	1.72525	2.14658	0.175334	-1.6779	-0.0622235	0.515755	0.453888	0.09629	0.363384
2	Btg2	0	2.48029	0.96197	0.466412	-0.0803087	-1.19179	-0.593427	0.155671	-0.442501	0.290088	-0.865384
2	C030034I22Rik	0	-1.12207	0.314411	-1.85567	-2.93917	-0.95663	-0.646497	-0.928317	-0.228901	0.121932	0.270398
2	C730002L08Rik	0	-0.45237	-1.60438	-1.82833	-0.822153	-3.27158	-2.52923	-2.58223	-1.14152	-1.8168	-0.801761
2	Cabp1	0	0.367851	-0.118811	-0.230457	-1.44892	-1.53442	-2.3688	-2.4731	-1.55815	-2.05723	-1.09004
2	Cacna1i	0	-0.0756614	-0.637472	-1.01461	-1.46897	-3.26966	-2.73515	-1.62554	-1.75166	-1.69719	-1.28732
2	Cacna2d3	0	-0.386039	-0.173168	-1.03391	-1.87401	-3.5412	-1.2167	-0.72981	-0.377102	-0.7222	-0.624599
2	Cacng3	0	-0.278041	-0.612388	-1.50732	-1.65846	-3.54729	-2.28646	-1.554	-1.1545	-2.21427	-1.40761
2	Caln1	0	-1.03639	-0.833682	-2.0544	-1.86115	-3.95873	-2.4316	-1.49225	-1.50012	-1.75849	-1.47153
2	Camk2a	0	-0.455232	-0.639304	-0.973612	-2.31394	-1.94587	-2.87678	-2.61455	-1.88955	-2.71183	-2.13744
2	Camk2n1	0	-0.319255	-0.175888	-0.670414	-1.39117	-1.61123	-2.63116	-2.58209	-2.07548	-2.27287	-2.23311
2	Camk4	0	-0.527484	-0.447245	-1.05666	-2.44511	-3.52351	-2.02104	-1.61644	-1.12725	-1.73547	-1.19937
2	Camkk2	0	-0.379012	-1.10366	-1.35901	-2.57796	-3.16136	-2.81811	-2.10016	-1.64594	-2.48291	-1.76311

2	Car11	0	-0.929995	-1.78571	-2.47677	-2.8284	-1.61554	-3.28262	-3.22246	-1.93203	-2.77804	-1.80605
2	Car7	0	0.0150886	-0.739279	0.0757625	-0.896966	-0.894694	-2.36413	-2.44896	-1.85938	-2.159	-2.08965
2	Ccdc85c	0	-0.988463	-1.61862	-2.72537	-1.31143	-3.15265	-2.00922	-2.22534	-1.57509	-0.916792	-0.0593948
2	Cd4	0	-0.975057	-1.17364	-1.84186	-3.41916	-2.74029	-0.757747	-0.432494	-1.11509	-0.807916	-1.2043
2	Cdk5r2	0	-0.519828	-1.514	-2.34637	-2.36532	-1.83033	-3.3945	-2.79476	-2.34971	-2.47682	-1.31143
2	Cdr1	0	0.843757	-0.131341	-0.34952	-0.104155	-0.253248	-1.1983	-1.41217	-0.557067	-0.738191	2.24444
2	Cecr6	0	-1.32088	-2.08385	-2.72259	-2.567	-3.97276	-2.50276	-2.51253	-1.60118	-2.67064	-1.95172
2	Chn1	0	-0.315544	-0.58477	-1.21374	-2.09424	-3.49225	-1.45238	-1.21755	-0.407072	-0.926481	-0.367419
2	Chrm1	0	-1.2407	-1.31627	-1.53188	-2.13524	-3.54024	-3.0378	-2.65294	-2.04884	-2.89676	-2.28006
2	Clec11a	0	-0.597716	-0.871637	-1.55618	-3.21967	-1.36755	-2.49647	-1.55929	-1.73465	-0.0617676	-2.21054
2	Cnih2	0	-0.582476	-1.10592	-1.65603	-1.99649	-0.789425	-2.76992	-3.00691	-2.27086	-2.31812	-2.72633
2	Coch	0	-1.45634	-0.61273	-1.18747	-2.10727	-3.8641	-2.07648	-1.2478	-0.905814	-1.36015	-1.08916
2	Col19a1	0	-0.598407	-0.636414	-1.36341	-2.24276	-3.53943	-2.01128	-2.19477	-1.31397	-1.83104	-0.742714
2	Col24a1	0	-0.556736	-1.2219	-0.961304	-2.46198	-0.752235	-2.14956	-3.32972	-1.51754	-2.62762	-1.55641
2	Cort	0	-0.964581	-0.610609	-2.86579	-1.5559	-0.558127	-2.10245	-2.47409	-1.28027	-1.03647	0.340629
2	Cplx3	0	0.368496	0.556017	0.0724552	-0.713701	-2.31757	-1.62515	-1.63369	-0.989983	-2.08743	-0.660194
2	Cpne5	0	-0.527074	-1.23137	-0.743798	-2.08502	-3.02372	-2.90678	-2.45816	-1.87747	-2.21751	-1.0692
2	Cpne7	0	-0.53238	0.137506	-1.166	-1.66912	-0.477459	-2.4038	-2.7572	-1.70541	-1.06792	-2.42624
2	Ctxn1	0	-0.7044	-0.819232	-1.53187	-2.47666	-1.67122	-2.73134	-3.10041	-2.37369	-2.83384	-2.15741
2	Cx3cl1	0	-0.443515	-1.60043	-2.28771	-2.39713	-3.1384	-3.03225	-2.44618	-1.96062	-2.73362	-2.2951
2	Cyp2s1	0	-0.59312	-2.25692	-1.25771	-2.32194	-3.81516	-2.13795	-2.26566	-1.7461	-2.06802	-1.54428
2	Cyp46a1	0	-0.821164	-0.934097	-1.3179	-2.60461	-2.27606	-2.89472	-2.69092	-1.99472	-2.95598	-2.66366
2	D430036J16Rik	0	-0.578277	-0.769385	-2.28988	-2.08216	-3.02647	-1.04709	-0.904195	-0.574104	-0.559389	0.214565
2	Dach1	0	-1.34712	-1.62858	-1.97974	-2.29388	-2.48903	-0.773785	-1.33002	-0.437024	-0.572783	0.755809
2	Dact2	0	-2.33333	-3.35846	-3.59305	-3.1475	-3.10184	-2.39018	-1.97346	-2.28136	-2.62764	-1.62903
2	Dact3	0	-0.62282	-1.11699	-2.10017	-2.26282	-1.88236	-3.0121	-3.06752	-2.19099	-1.97792	-0.608472
2	Dapl1	0	-1.25242	-1.79231	-1.51871	-2.56665	-0.35076	-2.36135	-3.52179	-1.20266	-1.01234	-1.71396
2	Dazl	0	-1.17138	-0.797001	-1.43983	-0.85515	-3.45826	-2.76741	-1.99235	-1.77231	-1.64925	-0.525916
2	Ddn	0	-0.898116	-1.0822	-1.44688	-2.44747	-3.74156	-2.61882	-2.41515	-1.76858	-2.08259	-1.72954
2	Dhcr24	0	0.150233	-0.394095	-0.125901	0.0552529	-1.78871	-2.39097	-2.13505	-1.55672	-1.72712	-0.0835236
2	Diras2	0	-0.434315	-0.814143	-1.19934	-2.10134	-3.68096	-1.98101	-1.41971	-0.949026	-1.37165	-0.662927
2	Dlg2	0	-0.576443	-0.430771	-1.0411	-1.4438	-3.69075	-2.08684	-1.51957	-0.848329	-1.26345	-0.66447
2	Dlgap3	0	-1.04278	-1.81313	-2.67336	-2.44241	-2.96325	-3.22806	-3.11684	-2.57677	-3.12889	-2.27269
2	Dph1	0	-0.71151	-1.56086	-2.01519	-0.96636	-3.36756	-1.61536	-1.89134	-0.843856	-3.08458	-1.29035
2	Drd2	0	-0.748899	-1.35956	-2.36114	-2.67789	-3.23183	-1.1991	-0.777478	-0.77861	-0.923404	-0.552954
2	Dusp1	0	1.53897	0.0741435	-0.935632	-0.381009	-2.40743	-1.09091	-0.819073	-1.03147	-0.0921467	0.244078
2	E130012A19Rik	0	-0.428287	-0.59873	-1.52682	-1.38844	-0.357754	-2.27655	-2.94335	-2.09525	-2.58694	-0.833565
2	Efna3	0	0.0683568	-0.245771	-0.787396	-1.4833	-3.02856	-2.5384	-1.39944	-1.64505	-1.07143	-0.547601

2	Egr1	0	1.12475	1.48171	1.0967	-0.592337	-1.77976	-0.957181	-0.480048	0.0649876	0.108732	0.856276
2	Egr3	0	0.429606	-0.14019	-0.581608	-1.85729	-3.16104	-1.49118	-1.19218	-0.625178	-1.23972	-0.562812
2	Egr4	0	1.05637	-0.354228	-1.46824	-1.90134	-1.26785	-1.65633	-1.63522	-1.04662	-0.494438	0.717503
2	Ephx4	0	-0.373142	-0.630261	-0.981479	-1.58502	-3.26206	-2.32472	-2.49648	-1.38282	-2.21395	-1.1155
2	Fam163b	0	-0.551844	-1.10746	-1.14789	-1.19181	-1.31633	-2.30993	-2.19633	-1.6677	-1.22229	1.23763
2	Fam184b	0	-1.38943	-2.02928	-2.46219	-3.07065	-2.9636	-1.80759	-1.72859	-0.674902	-0.674939	-0.778644
2	Fam189a1	0	-0.624917	-0.636858	-1.3559	-1.22499	-3.66612	-2.4329	-1.97597	-1.28214	-1.98851	-1.79897
2	Fam189b	0	-1.44826	-2.29312	-2.51469	-1.99541	-3.63941	-3.12315	-3.42376	-2.09796	-2.15397	-2.52305
2	Fam19a1	0	-0.680476	-1.08054	-2.74722	-2.64478	-3.16877	-2.23766	-1.82947	-1.16858	-1.39386	-0.723329
2	Fam19a2	0	-0.636147	-0.723885	-1.38499	-1.50033	-3.87673	-2.2022	-1.86347	-1.3122	-1.5595	-1.21742
2	Fam78a	0	-0.843798	-2.62314	-2.14835	-3.90988	-2.58855	-1.76054	-1.79828	-2.03257	-2.31729	-2.25727
2	Fbxl16	0	-0.859065	-1.4113	-1.62885	-2.49153	-3.26412	-2.96636	-2.57179	-1.90738	-2.74551	-1.20566
2	Fbxl18	0	-1.18192	-2.29772	-2.04433	-1.24112	-3.95643	-2.65428	-1.62984	-2.47747	-2.18999	-1.82597
2	Fgf5	0	0.619811	1.53373	1.05392	-0.639932	-1.17739	-1.29918	-1.46911	-0.637014	-0.710678	0.341671
2	Fibcd1	0	-0.35861	-0.4892	-1.37651	-2.04511	-1.03245	-2.65686	-1.41508	-0.453935	0.98893	-0.635753
2	Fosb	0	2.2718	1.49491	0.836283	-0.061949	-0.815008	-0.741975	-0.615516	-0.424997	-0.194388	0.833963
2	Fosl2	0	2.25638	0.995602	0.366107	0.318189	-0.80286	-1.28043	-0.88788	-0.733008	-0.230856	0.145556
2	Foxb1	0	1.59159	0.319732	1.86968	-0.72531	0.751677	0.441577	0.54075	1.44123	2.87413	1.42736
2	Frzb	0	0.186061	-0.444348	-0.828808	-2.0778	-1.01299	-2.82025	-2.42637	-1.6372	-1.99691	-1.86203
2	Fstl4	0	-0.409005	-1.24876	-1.04275	-1.73352	-3.11693	-2.89356	-2.29096	-2.53278	-2.26783	-1.54945
2	Gabrd	0	-0.0697067	-0.0953859	0.149478	-2.15031	-0.650156	-2.2895	-2.25635	-1.48651	-2.07552	-1.09925
2	Gdf10	0	0.758608	0.0752828	-0.0421957	-0.335312	-1.34186	-1.9908	-2.35425	0.010289	0.0314859	0.351986
2	Gm11549	0	0.634777	-0.254875	0.0136772	-0.459573	-2.66273	-1.38086	-1.65183	-0.972251	-2.06071	-0.490461
2	Gm11627	0	1.14345	1.07192	1.10563	-0.656079	-2.30964	-0.191081	-0.588834	-0.14384	-0.463573	-0.322945
2	Gm12992	0	-0.113792	-0.804233	-0.513234	-1.36988	-3.48102	-1.8785	-1.05682	-0.540503	-0.834696	-1.91696
2	Gm14827	0	-0.612285	-1.8808	-1.41306	-2.34264	-1.21773	-2.21386	-3.31815	-2.24872	-2.17107	-3.14046
2	Gm1976	0	-0.606297	-1.12593	-0.763036	-2.03917	-0.0701695	-2.25714	-3.08059	-2.07952	-2.22498	-1.67484
2	Gm7334	0	1.41377	2.29691	-0.29786	1.23271	-0.492321	0.123983	-0.564641	0.92508	0.0267338	1.89673
2	Gm7337	0	0.138685	-0.552277	-0.432858	-0.536029	-1.25034	-1.51602	-2.74488	-1.74067	-1.10009	0.855481
2	Gng7	0	-1.46856	-1.57802	-1.92007	-2.9455	-3.93467	-1.96312	-1.55565	-1.59076	-1.64404	-1.04826
2	Gpr12	0	-2.06434	-1.30136	-2.696	-2.54083	-3.08816	-3.50072	-2.80326	-2.11501	-2.09775	-1.11384
2	Gpr173	0	-0.137343	0.169681	-0.305081	-0.0256878	-1.57732	-1.02841	-1.10155	-0.787864	-0.137965	2.26022
2	Gpr25	0	-1.02597	-0.898307	-1.38355	-1.31233	-2.40222	-2.92765	-3.32493	-1.65181	-2.43227	-0.926047
2	Gpr26	0	-0.304068	-0.39754	-1.56192	-1.47407	-3.57523	-1.8485	-0.806093	-0.901634	-0.887183	-0.427424
2	Gpr27	0	-1.1262	-1.78406	-3.15413	-0.845884	-2.62839	-2.61456	-2.85945	-1.38622	-1.61341	-0.815375
2	Gpr88	0	-1.12063	-1.5233	-2.47579	-2.93428	-3.48731	-1.35075	-1.49873	-1.09741	-1.22211	-0.807588
2	Grasp	0	0.571377	0.155257	-0.412313	-1.74209	-1.74084	-2.13097	-2.05019	-1.46562	-2.10399	-1.23339
2	Grik5	0	-0.564533	-1.06545	-1.44514	-0.791248	-1.43126	-1.77187	-1.3658	-1.27162	-0.829146	1.83291

2	Grm4	0	0.467823	-0.360222	-0.566436	-1.1817	-0.0618283	-2.14413	-2.1438	-1.71264	-2.18132	-1.93566
2	Grp	0	-0.865387	-0.707382	-2.63886	-2.57384	-3.0825	-2.47925	-1.96526	-1.23096	-0.692281	-1.76069
2	Gsg1l	0	-0.16326	-0.0754071	-0.358404	-1.8261	-3.14205	-1.67928	-1.42322	-1.52827	-2.16497	-1.01817
2	Hkdc1	0	-0.510369	-0.924683	-0.674489	-0.862729	-3.23725	-2.7199	-0.997303	-1.50121	-2.28258	-1.77319
2	Homer1	0	-0.0289902	-0.447701	-0.900776	-1.17679	-2.61908	-1.66782	-1.31349	-0.514938	-0.85957	1.2251
2	Hpca	0	-1.00189	-1.19534	-1.43119	-2.92558	-3.30395	-2.86241	-2.83668	-1.85691	-2.05641	-2.14715
2	Hrk	0	-0.676686	-0.112758	-0.213239	-1.08994	-2.53102	-2.13447	-2.11196	-2.16323	-2.37291	-2.10843
2	Hs3st2	0	-0.276436	-1.36892	-2.05308	-1.38115	-3.03813	-2.73834	-2.28081	-1.89233	-2.82471	-1.19917
2	Hs6st3	0	-0.933294	-0.0381619	-1.82946	-1.84468	-3.44677	-2.3282	-0.70857	-1.27029	-1.21066	-1.50574
2	Htr1d	0	-0.708348	-2.0723	-2.25588	-1.94511	-3.50792	-2.75268	-3.10791	-2.05193	-2.50884	-1.97885
2	Htr2a	0	0.0022298	-0.398209	-0.718367	-0.587604	-3.59682	-1.11454	-1.68803	-0.890874	-1.36408	-0.87912
2	Icam5	0	-1.52008	-2.29876	-3.30104	-3.31783	-3.38068	-2.88323	-2.88669	-2.13453	-2.75083	-1.98069
2	Inha	0	-0.679972	-1.37715	-3.20454	-1.748	-1.97757	-2.21283	-3.42029	-2.27562	-2.35568	-2.32546
2	Itpka	0	-0.800673	-0.785033	-1.26525	-3.09468	-3.25769	-2.1976	-1.74819	-1.04375	-1.87957	-1.05556
2	Itpr1	0	-0.385604	-0.328698	-0.534501	-1.69577	-3.62928	-1.47187	-1.02266	-0.791375	-1.27366	-0.497449
2	Junb	0	2.98501	0.511801	-0.449777	0.9354	-0.194932	0.265494	0.80133	0.0343846	1.16379	1.80454
2	Kcnab1	0	-0.889373	-0.954518	-1.54646	-2.08984	-3.72021	-1.64735	-1.24097	-0.70963	-0.682555	-0.503001
2	Kcnb1	0	0.112872	-0.580552	-0.64922	-1.5606	-2.48995	-2.51616	-2.27231	-1.70115	-2.43569	-1.79185
2	Kcne4	0	2.70705	1.56124	1.81962	0.564114	-0.707841	0.550543	0.112386	-0.311653	0.383215	0.741389
2	Kcnh3	0	-0.452946	-1.01063	-1.33531	-2.09156	-2.51482	-2.94669	-2.57264	-1.73348	-3.05981	-1.90012
2	Kcnh4	0	-0.449216	-0.52123	-0.773009	-1.77054	-3.68907	-1.92992	-1.59617	-1.29922	-1.46921	-0.790306
2	Kcnip2	0	-0.425202	-0.958786	-2.02474	-3.59046	-2.10507	-2.45978	-1.99393	-1.15452	-1.70987	-1.21729
2	Kcnj4	0	-0.19888	-0.861485	-1.06804	-1.90637	-1.77203	-2.92708	-2.49587	-1.72015	-1.88685	-0.0004732
2	Kcnk4	0	-0.171853	-1.04325	-1.9695	-1.36597	-2.2729	-2.30199	-3.41185	-1.81895	-2.40483	-1.48566
2	Kcnq3	0	-0.429462	-0.0861196	-1.07871	-1.30102	-3.37022	-1.47689	-0.410366	-0.292014	-0.794006	0.157839
2	Kcnq5	0	-0.474762	-0.758623	-1.12778	-1.60434	-3.7394	-1.28417	-0.685743	-0.442764	-0.668329	-0.562953
2	Kcns2	0	-0.36077	-0.57717	-0.400823	-1.76274	-3.46263	-2.08867	-1.74727	-0.884817	-1.50744	-0.843522
2	Kcnv1	0	-0.951836	-2.02896	-2.55969	-2.19515	-3.79011	-2.11565	-1.80204	-1.07169	-2.17996	-1.07889
2	Kirrel2	0	0.814438	0.502157	0.549782	-0.626612	-1.86538	-1.80027	-1.55622	-0.871716	-1.59187	-0.989138
2	Klhl3	0	-0.0337805	-0.251483	-0.367002	-0.63504	-3.49948	-1.34044	-0.728691	-0.820839	-1.32754	-1.63841
2	Krt10	0	-1.29163	-1.37175	-2.28978	-2.31744	-0.718531	-1.631	-2.35679	-0.342657	0.177783	0.152808
2	Krt12	0	-0.729122	-0.901475	-1.39048	-2.3314	-1.5869	-2.85258	-1.99152	-2.03597	-2.43766	0.193066
2	Ky	0	-0.53432	-0.537603	-0.551285	-2.97865	-2.91777	-1.86347	-1.2995	-1.0824	-0.409077	-0.968172
2	Lamp5	0	0.142729	-0.584906	-1.32187	-2.46624	-2.86819	-1.70202	-1.18851	-0.509886	-1.1565	0.0113897
2	Lgi2	0	-0.723014	-0.285989	-1.01701	-1.28033	-3.39207	-2.63716	-1.36746	-0.859511	-1.58355	-0.629423
2	Lhx2	0	-0.455676	-0.242396	-0.872624	-1.86709	-1.98718	-2.64278	-3.06635	-1.91765	-2.10622	-1.39491
2	Lin28b	0	-0.0968247	0.399967	1.47905	-0.0661313	-2.22135	-1.05716	-1.48779	-1.08055	-0.201324	-0.218777
2	Lingo1	0	-0.808698	-1.39677	-1.84744	-2.23917	-3.25287	-3.14165	-2.77462	-1.96785	-2.80912	-2.14491

2	Lingo3	0	-1.38751	-0.907621	-1.51363	-2.89443	-3.54021	-2.81035	-2.32456	-2.10191	-2.35717	-1.61228
2	Lipg	0	0.483301	0.615192	0.492999	-0.810142	-1.99161	-2.10225	-1.50204	-0.751616	-1.51111	-0.794783
2	Lmo3	0	-0.540817	-0.38073	-0.871946	-1.07368	-3.66411	-1.96837	-1.66152	-1.15589	-1.9888	-1.28556
2	Lmo7	0	-0.833308	-0.841708	-1.61452	-1.68763	-3.9033	-1.30347	-1.06573	-0.771004	-1.14681	-0.5748
2	Lmtk2	0	-0.5015	-0.796456	-1.02735	-1.22151	-3.91938	-1.94004	-1.3639	-1.10065	-1.42817	-1.19641
2	LOC432842	0	-1.34507	-1.28185	-2.4183	-1.51783	-3.2149	-3.47444	-2.28277	-1.45266	-2.78894	-1.94542
2	Lpcat4	0	-0.853319	-2.53443	-2.35302	-2.00527	-3.19426	-3.27979	-2.82591	-1.61425	-2.39666	-1.49938
2	Lrrc10b	0	-1.11618	-1.49166	-2.14864	-3.67754	-3.41101	-2.22484	-2.16231	-2.00818	-2.0136	-1.76305
2	Lrrtm1	0	-2.39315	-2.57539	-2.35498	-1.24137	-2.40066	-3.3335	-3.50393	-1.94868	-2.51535	-3.19819
2	Lrrtm3	0	-1.01481	-2.77511	-2.88649	-2.23357	-2.7356	-1.33368	-1.07327	-0.344001	-1.26435	-0.951373
2	Lzts1	0	-0.560628	-0.870055	-0.791451	-1.03352	-3.85292	-1.74178	-0.971705	-0.834204	-1.45362	-0.668877
2	Mal2	0	-0.669657	-0.279773	-1.01774	-1.7246	-3.58593	-2.23048	-2.09253	-1.32533	-1.48607	-1.1917
2	Map3k13	0	-1.10126	-1.13697	-1.08273	-1.55226	-3.93157	-2.26973	-1.25987	-0.915618	-0.939767	-1.04083
2	Mapk11	0	-0.244894	0.0630151	-0.397429	-1.50217	-2.02193	-2.5159	-2.21999	-1.78847	-2.40399	-1.74834
2	Mas1	0	-0.15225	-0.459173	-0.994272	-1.94988	-3.22614	-2.46351	-1.56799	-0.538949	-1.4112	-1.50682
2	Mchr1	0	0.254324	-0.0970026	-0.788599	-1.62016	-2.97086	-2.19115	-1.89976	-1.01101	-1.47792	-0.753517
2	Miat	0	-0.785435	-1.44599	-1.48482	-2.0359	-2.26657	-2.57854	-3.19973	-2.6695	-2.58534	-3.14843
2	Mir124a-1hg	0	-1.58697	-1.91932	-1.4012	-1.63285	-1.80147	-2.82311	-3.50555	-2.69988	-3.06984	-2.94069
2	Mirg	0	-0.291617	-1.04075	-0.291827	-0.831864	-0.475164	-1.93303	-3.41162	-1.35916	-2.05209	-1.41148
2	Mlip	0	0.397333	-0.339588	-1.29798	-1.6833	-2.47932	-2.0626	-2.37378	-0.849493	-0.960739	-0.0655823
2	Mn1	0	0.234397	-1.08877	-1.01185	-1.68843	-3.15725	-2.5088	-1.90239	-1.40071	-1.73024	-0.791189
2	Myl4	0	-0.116358	-0.38897	-0.0688882	-1.60341	-0.296201	-1.79418	-1.39747	-1.30836	-3.22029	-0.43572
2	Myom3	0	-2.86791	-1.52113	-0.522095	-2.5125	-1.40666	-1.73275	-0.80494	-1.14344	-2.50531	0.0585994
2	Ndst4	0	-0.395515	-0.759082	-0.584011	-0.0933158	-2.53033	-3.10813	-1.76059	-1.30151	-1.59797	-1.70745
2	Necab3	0	-0.380925	-0.854257	-1.04226	-1.19416	-1.29676	-2.62473	-2.24359	-1.64917	-2.97596	-2.82238
2	Nefl	0	-0.18288	-0.484998	-0.965778	-1.20456	-2.04093	-1.6994	-1.20937	-0.34322	0.0308757	1.59867
2	Neurl1a	0	-0.442895	-1.01938	-1.1942	-1.53489	-2.42126	-3.06477	-2.84685	-1.95774	-2.69821	-1.88611
2	Neurod6	0	-1.59747	-2.1241	-3.14557	-2.25753	-2.5415	-2.08357	-1.67539	-0.246816	-0.654124	-0.888706
2	Ngb	0	1.23777	0.568237	0.257473	0.259622	0.806818	0.126892	-0.584937	-0.135553	1.59529	3.01324
2	Ngef	0	-0.797246	-0.815457	-1.48694	-2.30338	-3.70342	-2.31917	-1.92261	-1.50946	-2.36405	-1.27207
2	Nnt	0	-2.00507	-0.535793	-2.83525	-3.08253	-2.65921	-1.8185	-2.17449	-2.63067	-2.25034	-3.06268
2	Nog	0	-1.49881	-0.689304	-2.42968	-3.63251	-1.39609	-1.65177	-1.77033	-0.954136	-0.979139	-0.448917
2	Npas2	0	-0.702019	-1.06044	-1.35231	-2.08368	-3.67856	-2.47841	-2.19018	-1.69576	-2.31071	-2.36086
2	Npas4	0	1.97415	1.62643	1.55072	-0.119662	-0.823424	-0.633111	-0.529531	-0.223425	-0.241154	-0.252736
2	Npcd	0	-0.257421	0.214976	-0.461624	-1.61537	-2.56539	-1.92948	-1.69213	-1.35671	-1.96455	0.211848
2	Nr4a1	0	1.91972	0.401493	-0.14597	-0.808115	-1.26229	-0.699132	-0.430964	-0.215673	0.765327	1.64413
2	Nr4a2	0	1.06424	0.0994519	-0.924662	-1.68786	-2.54617	-1.72199	-0.949645	-0.630657	-1.02252	-0.274812
2	Nr4a3	0	1.19295	0.537439	-0.111979	-0.556759	-1.42985	-0.542582	-0.248482	0.0687064	0.425689	2.37595

2	Nrgn	0	-0.633138	-1.73934	-2.37922	-2.86141	-1.58476	-2.97359	-2.83828	-2.15461	-3.10359	-2.3905
2	Ntng2	0	-0.840295	-0.946855	-2.1737	-2.89389	-3.08734	-1.98702	-1.76849	-1.89874	-3.21619	-2.26279
2	Obscn	0	-0.22765	-0.399233	0.652312	-1.01279	-3.02619	-1.60836	-1.45741	-1.7623	-1.2147	-0.979867
2	Olfr287	0	-0.364617	-0.0425579	-0.949011	-3.64381	-0.857672	-0.685419	-0.357173	-0.747004	-0.570443	-0.32546
2	Otof	0	-0.700861	-1.14434	-1.69897	-3.01841	-3.27829	-1.78167	-1.62946	-0.690145	-1.27058	-0.658099
2	Pak6	0	-0.977404	-0.997625	-1.44664	-1.43733	-3.77145	-2.86992	-1.97104	-1.69992	-2.19089	-1.71545
2	Pappa2	0	0.0300975	-0.809467	-0.736305	-1.49521	-2.97772	-0.831445	-1.35909	-0.998303	-2.98849	-1.02277
2	Pcdha1	0	0.0257647	1.00811	-0.679852	-0.767991	-0.584363	-2.06769	0.635529	1.07924	-0.765908	1.11791
2	Pcdha11	0	0.823419	-0.60909	-1.6	-0.623613	-2.58076	-1.42154	-0.607444	-0.0750009	-0.244759	0.674071
2	Pcdha3	0	0.0125475	-0.881554	-0.802044	-0.702743	-2.85748	-3.0768	-1.75737	-1.25124	-1.42938	-1.21883
2	Pcdha9	0	-1.47976	0.496483	-0.947216	-1.42669	-1.90702	-2.8416	-1.49704	-0.0589729	-1.10345	-0.0035525
2	Pcp4	0	0.274214	0.139382	0.267298	-1.3277	0.801146	-1.82595	-2.31748	-0.848834	-1.34679	-0.747843
2	Pcsk9	0	-0.4907	-0.553896	-0.907212	-2.01459	-3.64714	-1.36242	-1.23974	-1.60783	-1.8789	-0.602173
2	Pde10a	0	-1.07119	-1.23715	-1.85533	-2.52004	-3.77206	-1.43459	-0.905694	-1.00156	-1.27241	-0.75742
2	Pde1b	0	-1.30092	-1.5951	-2.2952	-3.04855	-3.56553	-1.73369	-1.32642	-0.997883	-1.44756	-0.91938
2	Pde7b	0	-0.246823	-0.400819	-1.09278	-2.02943	-3.67345	-1.41685	-0.867924	-1.04951	-1.2493	-1.08287
2	Penk	0	-0.525676	-0.754684	-1.76171	-2.29983	-2.65574	-0.693339	-0.887464	-0.617385	-0.479289	0.815955
2	Per2	0	-1.17723	0.525836	-0.514525	-1.09813	-2.94139	-2.02831	-1.375	-0.873014	-2.20585	-0.652123
2	Phf24	0	-0.479014	-0.396731	-0.829486	-1.5869	-3.69725	-2.01174	-1.39669	-1.05353	-1.66719	-1.05609
2	Pianp	0	-0.61525	-1.46126	-2.45361	-2.22326	-1.0746	-3.01746	-3.24995	-2.18515	-2.30221	-1.44154
2	Pim2	0	0.753647	-0.123978	0.0324012	-0.374318	-1.70599	-1.97357	-2.38572	-1.50662	-1.34642	-0.464551
2	Pla2g4e	0	-0.734482	-0.31044	-1.00878	-2.168	-3.14982	-2.38065	-2.04463	-2.51251	-2.00649	-2.04945
2	Plcxd3	0	-0.726696	-0.775117	-2.20579	-0.634689	-1.09218	-2.6621	-0.212173	0.404916	-0.541053	0.62123
2	Plekhf1	0	2.30824	1.56094	0.941073	0.666127	-0.290481	1.81741	0.622178	-1.13942	0.711612	1.46707
2	Ppp1r1a	0	-1.25491	-0.680315	-1.61203	-2.41713	-1.56934	-2.98223	-3.42954	-1.93333	-2.63152	-1.91368
2	Ppp1r1b	0	-1.16089	-1.41698	-1.54455	-2.67896	-3.97216	-1.7083	-1.73472	-1.50186	-1.67769	-0.948698
2	Prkcb	0	-0.401211	-0.187297	-0.825265	-2.17076	-3.31754	-2.26479	-1.55247	-1.39936	-1.84619	-1.37629
2	Prkcg	0	-0.461803	-0.636542	-0.979381	-2.51596	-2.67605	-2.24585	-2.1735	-1.79457	-2.67368	-2.61074
2	Prrt1	0	-1.23431	-2.55841	-3.40093	-2.28263	-3.55345	-2.00809	-2.65026	-1.72408	-2.51283	-2.72185
2	Prrt2	0	-0.903846	-2.10493	-2.3111	-3.23715	-2.2756	-2.40733	-3.57648	-2.21139	-2.86327	-2.1622
2	Psd	0	-0.552374	-1.06351	-1.50424	-2.04372	-2.9074	-3.1183	-2.76972	-2.25846	-2.44979	-2.02113
2	Ptpn5	0	-0.841655	-1.68728	-2.32071	-2.82726	-3.7737	-2.5589	-2.38958	-1.80474	-2.18426	-1.69723
2	R3hdm2	0	-0.36283	-0.57711	-1.1308	-1.14876	-1.16821	-1.91249	-1.86405	-1.40846	-1.09265	1.6355
2	Rab40b	0	-1.34857	-1.74215	-1.68577	-2.23562	-4.00991	-3.08631	-2.08529	-1.76222	-1.74781	-1.83589
2	Rasd2	0	-0.776251	-1.40904	-1.92191	-2.90218	-3.19854	-2.55777	-2.76341	-2.42706	-2.90397	-1.79454
2	Rasgef1c	0	-0.373516	-0.169615	-0.138785	-1.38157	-1.71109	-2.84174	-2.54651	-1.76305	-2.00801	-1.3578
2	Rasgrp2	0	-0.761684	-2.32454	-2.23941	-3.34514	-3.05982	-2.54844	-1.93211	-1.59747	-1.60543	-1.01361
2	Rasl10b	0	-0.494393	-1.13163	-1.75412	-2.201	-2.4825	-3.28474	-2.78291	-2.23161	-2.63743	-1.74488

2	Rbfox1	0	-0.0749591	-0.871136	-1.30082	-2.17089	-1.27395	-2.70936	-3.05757	-1.60097	-2.43413	-1.74823
2	Rem2	0	-0.326646	-0.124954	-0.0129471	-2.72717	-2.56852	-2.031	-1.02289	-1.21457	-0.584255	-0.700376
2	Ret	0	2.74139	1.92919	1.70154	1.017	0.243235	-0.532979	-0.101307	1.21654	1.60988	0.724753
2	Rgs14	0	-0.670325	-1.36509	-1.60178	-2.58032	-3.63261	-2.72182	-2.16458	-1.40118	-2.03544	-2.13864
2	Rgs4	0	-0.230935	-0.932751	-1.73223	-2.34596	-3.00848	-2.89579	-2.38172	-1.50558	-2.17117	-1.41923
2	Rgs7bp	0	0.127817	0.0667305	-0.455007	-1.33765	-0.229576	-2.39487	-1.96463	-1.65417	-2.36138	-1.70977
2	Rgs9	0	-1.3199	-1.02539	-1.51156	-2.87523	-3.37679	-1.07483	-0.843148	-0.924067	-0.696065	-0.505289
2	Rgsl1	0	-0.511493	0.320475	0.0422056	-1.504	-1.16336	-1.4086	-2.42203	-1.61992	-2.46322	-2.11636
2	Rims1	0	-0.0679353	0.240517	0.131582	-0.785061	-3.30479	-1.37685	-0.824685	-0.4347	-1.16026	-0.609039
2	Rnf165	0	-0.537642	-0.600298	-1.1236	-1.35053	-0.843071	-2.66318	-2.27656	-1.8678	-1.74579	0.706665
2	Rnf208	0	-0.460334	-1.87525	-2.03015	-1.50588	-1.93492	-3.63993	-2.62575	-2.66984	-1.95319	-1.92714
2	Robo3	0	-0.37541	-1.13062	-0.737828	-2.56246	-1.68829	-1.27716	-2.68988	-1.6689	-2.34857	-3.07837
2	Rpe65	0	0.356899	0.578373	1.0002	0.0404868	-1.96261	-1.19956	-1.27492	0.696778	0.183232	1.06084
2	Rpl14-ps1	0	2.68566	1.08891	2.17309	0.657925	1.07396	0.723008	0.317655	2.65824	2.12372	2.55689
2	Rspo2	0	-2.16606	-1.40816	-2.67749	-2.65883	-3.93643	-2.91205	-2.85259	-2.44633	-2.50978	-1.84903
2	Rtl1	0	1.09961	1.20251	2.22825	0.357785	-0.407447	0.562549	-0.378015	0.0664525	1.33832	2.57344
2	Rtn4r	0	-1.22187	-2.70945	-2.78713	-2.66624	-2.658	-3.34775	-2.89284	-2.21556	-3.45731	-2.83573
2	Rtn4rl2	0	-0.270931	-0.473416	-1.42749	-1.41904	-2.42394	-2.95562	-2.66786	-2.07294	-2.1603	-1.992
2	Rxrg	0	-1.13255	-1.38985	-2.5972	-2.59385	-2.50584	-1.24193	-1.12686	-0.972222	-1.26136	0.522306
2	Ryr1	0	-0.422156	-0.806768	-1.44627	-2.61133	-0.966279	-3.33003	-2.26	-1.41593	-1.91773	-0.791156
2	Ryr3	0	-0.745801	-0.10858	-0.840207	-2.69808	-3.13367	-1.34817	-1.26643	-0.604417	-0.344495	-0.96216
2	Scn4b	0	-0.999454	-1.33527	-1.67259	-3.0504	-3.63664	-1.81468	-1.67969	-1.44966	-1.39958	-0.798567
2	Scrt2	0	0.163523	0.438651	0.574668	-0.433868	-1.61475	-1.79904	-1.89053	-1.79992	-1.68496	-1.31809
2	Scube1	0	-0.0079613	-0.523254	-0.489043	-1.71158	-1.84664	-1.97962	-2.13069	-2.45212	-2.47301	-2.45832
2	Sftpd	0	0.118092	-1.27143	-0.472074	-0.496162	-0.59113	-2.61371	-1.82055	-1.72903	-1.18413	0.850727
2	Sh2d5	0	-0.562776	-0.894338	-1.20982	-1.44856	-2.13088	-2.6637	-3.10044	-1.95945	-2.7894	-2.44679
2	Sh3rf2	0	-1.0831	-1.44143	-2.10036	-2.80953	-3.23225	-1.28592	-1.15411	-0.697254	-0.581127	-0.454416
2	Shisa7	0	-0.323896	-0.577942	-0.845412	-1.42604	-3.57104	-1.91585	-1.82862	-1.58193	-2.10932	-1.88907
2	Sipa1l1	0	-0.321493	-0.326688	-0.812564	-1.73364	-3.24669	-2.1252	-1.58333	-1.22704	-1.89742	-0.240494
2	Slc17a7	0	-0.601746	-0.942511	-1.19634	-1.63458	-3.02531	-2.6068	-2.63673	-1.93908	-2.95786	-1.83393
2	Slc18a2	0	2.32184	1.69114	1.30683	0.604344	-0.0393728	-0.0477698	-0.251428	1.49418	2.07558	2.17866
2	Slc22a3	0	-1.24494	-0.0567968	-1.45458	-2.45117	-2.04573	-2.81509	-1.82056	-2.08443	-1.71272	-0.0039622
2	Slc30a3	0	-0.474275	-1.53018	-1.92085	-2.5244	-2.67013	-3.01487	-2.59605	-2.22393	-3.13166	-2.08851
2	Slc39a10	0	-0.561879	-0.336842	-0.930021	-1.51987	-3.69964	-1.42179	-1.05464	-0.433273	-0.94417	-0.442616
2	Smpd3	0	-1.14686	-1.81743	-2.98508	-3.43412	-2.3971	-3.01282	-3.14811	-1.98328	-2.57191	-2.33151
2	Snhg11	0	-0.682727	-0.774539	-0.707038	-1.48621	-0.834168	-1.82677	-3.11782	-2.32134	-2.41625	-2.61922
2	Snurf	0	-0.010717	-0.102205	-1.15804	-2.36242	-0.229781	-2.45022	-1.53948	-1.796	-2.16586	-2.04836
2	Sowaha	0	-0.12968	0.111515	-0.554254	-1.98323	-3.28448	-1.46177	-1.5837	-0.927688	-1.4037	-0.890104

2	Spata2l	0	-0.895578	-1.84706	-2.35401	-3.0593	-2.44484	-3.43493	-2.89976	-2.1323	-2.44785	-2.8587
2	Sst	0	0.0080228	0.186227	-0.369353	-0.915667	-0.0499152	-1.72716	-2.95195	-1.5225	-1.83226	-0.727324
2	Sstr3	0	-0.557386	-0.366826	-0.822568	-1.98751	-1.9466	-3.05232	-2.7553	-1.71232	-2.29992	-1.74909
2	St6galnac5	0	-1.19119	-1.42248	-2.71323	-2.96754	-2.97817	-1.85797	-1.62729	-0.781817	-0.404836	-1.32155
2	Stx1a	0	-0.350766	-0.613568	-1.20528	-2.50072	-3.15075	-2.35565	-1.89471	-1.37648	-2.50888	-1.56657
2	Syndig1l	0	0.16399	-0.832153	-0.919926	-0.840691	-0.619127	-1.60826	-3.41801	-2.04693	-1.59575	-0.899913
2	Synpr	0	-0.120703	-0.0357308	-0.581008	-1.73012	-2.40085	-2.73293	-2.07347	-0.991811	-1.71006	-0.473218
2	Tbr1	0	0.0215119	-0.830926	-1.45989	-1.01196	-3.38491	-1.93174	-1.81672	-1.27799	-2.46165	-1.33821
2	Tekt4	0	2.84021	2.40987	2.17693	0.574272	-0.218927	1.31276	0.76299	1.04664	0.57711	0.438162
2	Tesc	0	0.253697	0.261124	-0.158124	-2.14915	-1.39629	-2.148	-2.02093	-1.60574	-1.91687	-0.66695
2	Tgm3	0	-0.567666	-1.71738	-1.39599	-0.177059	-3.09664	-1.42762	-1.37678	-1.35228	-3.08016	-1.65242
2	Tmco5	0	-0.046948	0.510804	-0.190084	0.710722	-1.90771	-1.78303	-2.2791	-0.4492	-0.715807	-0.0892718
2	Tmem14a	0	-0.548207	-1.26487	-1.32704	-2.54281	-3.08337	-2.5779	-2.9208	-1.69322	-1.81821	-0.954415
2	Tmem181a	0	-2.04587	-1.15084	-0.78274	-0.803748	-3.24423	-2.71313	-1.16285	-1.91315	-1.89818	-0.319459
2	Tmem181b-ps	0	-1.32561	-0.90538	-0.644236	-0.396655	-2.76898	-2.7167	-2.12585	-2.47357	-2.52739	-1.49008
2	Tmem198	0	0.363325	-0.815194	-0.685604	-0.92616	-2.30234	-2.54047	-2.52045	-1.91287	-1.89476	-1.12924
2	Tmem35	0	0.628651	-0.20839	-0.822617	-0.609106	-1.85319	-2.84171	-1.98973	-1.41926	-1.55329	-1.06733
2	Tpbg	0	-0.948985	-1.08438	-1.21713	-1.09212	-2.93505	-2.80178	-2.31768	-1.95139	-2.55917	-3.03512
2	Trim17	0	0.814205	1.29009	1.70481	0.216498	-1.80608	-0.305824	-0.575924	0.133982	-0.978723	-0.248891
2	TrnE	0	-0.0011148	-0.389837	-0.59643	-0.104938	0.0251756	-1.44814	-1.84119	-1.18942	-1.54871	1.68534
2	TrnM	0	0.300126	0.390709	-0.701789	-0.808652	-2.30351	-1.79872	-2.55226	-0.890054	-0.84891	-0.157426
2	Tsc22d3	0	1.47397	1.08739	0.661526	-0.492601	-1.13184	-1.34295	-1.33807	-1.02883	-0.962995	-0.539736
2	Ttc9b	0	-0.816856	-1.28306	-1.82463	-1.47548	-1.34331	-3.18695	-3.00734	-2.68317	-2.80192	-1.57599
2	Unc13a	0	-0.625648	-0.768253	-1.49536	-2.45947	-3.61302	-2.50541	-1.58801	-1.22678	-1.77246	-1.50995
2	Vstm2l	0	-0.20009	-0.819827	-1.99693	-2.23553	-0.824339	-1.70189	-2.52458	-1.35898	-1.36287	0.691335
2	Ypel4	0	-1.03407	-2.12556	-3.14614	-1.06397	-3.40751	-2.1206	-2.24559	-1.39463	-1.53637	-0.998549
2	Zdhhc22	0	-0.601886	-1.66266	-1.27243	-1.09721	-2.33765	-3.05232	-2.49781	-2.44029	-2.67121	-2.8296
2	Zfp385b	0	-0.0615746	-1.37379	-1.89299	-1.87433	-1.90033	-2.44572	-2.70226	-2.37772	-2.57428	-2.97502
2	Zfyve28	0	-0.80501	-0.308202	-1.04007	-1.62135	-2.6779	-2.605	-2.23465	-2.01402	-3.01552	-1.93942
3	1110007C09Rik	0	0.27727	0.677769	1.21743	1.96559	2.83783	1.96806	1.55521	0.542869	1.05541	-0.606551
3	1110038B12Rik	0	0.0944976	1.41587	1.64175	2.43186	2.52926	0.815518	0.137842	0.619566	0.399575	-0.446427
3	1110046J04Rik	0	0.442977	1.86109	2.11211	1.4228	2.24883	0.19348	-0.377659	1.00404	-0.488817	0.132002
3	1200014J11Rik	0	0.35608	1.8237	2.26947	1.61369	0.960342	0.216035	-0.502808	-0.647239	-0.212954	-0.19718
3	1500012F01Rik	0	0.908157	1.14934	1.97396	2.40228	3.55587	2.05265	0.519782	1.02956	0.749511	1.36749
3	1700007J10Rik	0	0.521113	1.91224	1.82089	2.03563	1.18944	0.32237	-0.212528	-0.39198	-0.496062	-0.449346
3	1700016D06Rik	0	1.28276	2.54005	3.0299	2.58162	1.16739	0.26133	0.675095	0.682322	0.91388	0.948364
3	1810011O10Rik	0	2.4655	1.82955	1.73039	1.17708	-0.142869	1.67815	0.657396	0.146225	-0.477578	-0.0838387
3	1810032O08Rik	0	0.24831	0.20682	1.43861	1.87821	0.419704	-0.442886	-0.693979	-0.589381	-1.28982	-1.19726

3	2010109I03Rik	0	-0.107151	0.91851	0.999521	0.330288	0.64657	-0.938787	-0.85255	-1.3435	-1.19825	-1.97371
3	2200002D01Rik	0	0.702577	0.913646	1.54329	2.97245	3.49288	1.94153	1.00941	1.16706	1.68064	1.26967
3	2410006H16Rik	0	0.202341	0.247743	0.822659	2.90844	2.37308	2.09805	2.44975	1.24531	1.719	1.31401
3	2410131K14Rik	0	1.22312	1.58169	2.28383	0.869453	-0.805045	-0.567933	-0.440391	-0.256226	-0.190535	-0.0103257
3	2500004C02Rik	0	0.524546	1.90861	2.17824	1.39032	0.821725	-0.366804	-0.548909	-0.264716	-0.310165	-0.500144
3	2700038G22Rik	0	0.4533	1.66486	1.94661	1.71872	1.15415	-0.321035	-0.455917	-0.473365	-0.322314	-0.606115
3	2700070H01Rik	0	1.03023	2.06941	2.68686	1.18545	1.90558	0.0523148	0.416535	-0.135561	-0.0976973	0.168852
3	2700097O09Rik	0	0.774238	2.00081	1.98764	0.357474	0.925848	0.776268	-0.361352	-0.516048	1.66107	-0.893749
3	4930470H14Rik	0	0.979196	0.0855513	0.039377	0.383655	0.0308158	-1.57659	-1.51618	-2.12775	-0.781309	-1.48228
3	4930486L24Rik	0	1.25267	1.65117	1.90165	2.02074	2.9623	2.55827	2.65385	0.344784	0.852715	0.553384
3	5430416N02Rik	0	0.786085	0.948366	1.2248	2.51835	0.871667	-0.418253	-0.517638	-0.350584	-0.269163	-0.822302
3	5830416P10Rik	0	0.494778	1.37844	1.57977	1.03096	-0.741128	-0.0389277	-0.851938	0.0066259	0.118506	-1.77145
3	6030440G07Rik	0	0.179088	-0.0518758	0.124708	0.148802	1.21862	-1.33117	-1.74715	-1.62047	-1.05574	-1.73495
3	6030443J06Rik	0	0.615235	1.91881	2.01843	1.40501	1.41395	-0.96856	-0.653612	0.0558572	0.462467	0.114847
3	6530403H02Rik	0	0.0243516	-0.145791	-0.281941	0.138699	-0.005741	-1.13098	-1.28152	-2.08422	-2.55817	-1.98926
3	8430408G22Rik	0	2.44607	2.46032	2.22356	1.24862	1.24191	0.752033	0.561689	0.189302	-0.442066	1.55439
3	9030612E09Rik	0	-1.09281	-1.04175	-0.420095	-0.109599	0.355008	-1.68825	-2.63028	-2.23268	-2.21044	-1.26621
3	9230114K14Rik	0	0.73888	1.90212	2.44703	1.84435	1.73126	-0.122901	-0.0720082	-0.259437	0.183223	0.200087
3	9330136K24Rik	0	0.578218	1.931	2.24609	1.63333	1.49205	-0.168973	-0.141078	-0.20428	-0.287538	-0.251129
3	9330188P03Rik	0	-0.0617125	-0.360464	0.382758	2.44417	2.38618	0.67689	-0.20877	-0.105177	-0.0394466	0.100834
3	9430038I01Rik	0	0.228838	2.14844	2.3707	1.20164	1.12606	-0.125281	0.116811	-0.633939	-0.360859	0.235454
3	9630028B13Rik	0	0.714476	0.785587	1.17556	0.497416	1.81971	0.0924234	-0.615097	-1.4291	-1.08409	-0.688147
3	A130077B15Rik	0	0.453667	0.117365	0.363673	-0.253457	0.81932	-1.477	-1.48549	-1.74705	-1.55946	-1.67914
3	A230046K03Rik	0	0.499911	2.25265	2.85894	2.53298	0.774894	0.731078	0.658047	0.229433	0.516796	0.426428
3	A230057D06Rik	0	-0.587154	-0.575414	-0.120403	-0.2959	-0.801654	-1.13036	-2.50975	-1.67957	-2.60423	-2.52036
3	A330032B11Rik	0	0.752631	1.93119	2.46026	1.6867	-0.267743	0.328306	-0.332282	-0.349616	-0.101356	0.255579
3	A330069E16Rik	0	0.722843	1.99057	2.46003	1.87374	1.79848	0.0874114	-0.266688	0.16042	-0.104753	0.391722
3	A630089N07Rik	0	0.602128	0.366688	0.632501	0.457391	1.67846	-0.61264	-0.856738	-1.25249	-0.940685	-1.65552
3	A830011K09Rik	0	-1.52134	-1.07607	-1.11796	-0.683171	-0.985757	-2.8981	-2.98807	-2.54741	-1.64791	-2.70784
3	A930003A15Rik	0	1.01186	1.95114	1.26505	3.69175	2.3893	1.66122	2.1897	1.33319	2.69255	2.70949
3	Abcc9	0	0.263193	0.996779	1.2746	1.85261	1.65175	3.3202	1.66437	1.28701	-0.122621	0.447155
3	Abhd15	0	0.861582	0.943034	1.33737	1.2238	2.02764	2.08157	1.32918	-0.669151	0.193616	-0.91025
3	Abi3bp	0	0.0644624	0.0374529	0.444406	0.439448	0.0035106	-1.82975	-1.59936	-1.53168	-1.98475	-1.62341
3	Acer2	0	0.964508	2.45111	2.45378	1.78198	1.07619	0.535072	-0.0313406	-0.365574	-0.0778801	0.823763
3	Acnat1	0	0.522446	0.776851	1.48751	-0.249876	0.850035	-1.53106	-0.44558	-0.868344	-0.481917	-1.68427
3	Acot1	0	0.750294	2.22443	2.65895	1.49729	3.5956	2.81363	1.51184	1.54007	1.31335	1.68369
3	Adam28	0	1.01466	1.14419	1.43561	0.760233	0.668273	-0.547912	-0.801021	-0.799982	-1.0282	-1.39821
3	Adamts1	0	2.23392	1.98958	2.56077	3.161	1.08985	0.958176	0.98469	0.364249	0.814263	0.556402

3	Adamts9	0	0.806032	2.06662	2.32122	3.02778	0.644872	0.630812	0.967292	-0.0266577	0.715085	0.2369
3	Adcy4	0	0.303783	-0.143613	0.508879	2.31745	2.17773	0.904328	0.0548072	-0.337614	-0.66864	-0.397583
3	Adgrl4	0	2.08289	3.12726	3.21638	1.37712	1.18168	1.79972	1.30059	1.10222	0.496162	0.863936
3	Adm	0	1.23685	1.92084	2.16479	1.95679	0.703682	1.24934	0.308687	-0.35227	-0.421618	-0.40706
3	Adtrp	0	0.436772	0.142037	0.129997	0.0407395	1.27405	-1.11226	-1.49318	-1.74555	-1.02057	-1.70748
3	Aen	0	0.522456	0.858172	0.646385	3.32377	2.03626	0.669726	0.658411	0.292321	0.0279789	0.108482
3	AF357425	0	2.25643	2.16072	1.60208	1.21692	1.48477	-0.344871	-0.0990202	0.104338	0.135502	-0.23999
3	Aff1	0	2.38322	3.27531	2.53649	3.20136	1.50016	2.12654	1.98276	0.767437	1.21343	1.43642
3	AK010878	0	0.438641	2.04968	2.5427	1.97614	0.367597	-0.128716	-0.187691	-0.17079	0.288726	0.409324
3	Akap12	0	2.07321	2.69856	2.43167	2.41052	0.499648	0.65809	0.561043	0.441997	0.759413	0.416426
3	Aldh1a2	0	0.0431164	1.57841	1.85874	3.23979	2.54655	2.00733	2.55724	1.61084	2.11038	1.21839
3	Aldh1a3	0	-0.188447	0.346875	-0.167782	2.19791	2.24184	-1.03039	0.588393	0.0415306	0.693184	-0.102157
3	Amica1	0	1.37971	1.36801	2.22901	1.58428	2.38557	1.03852	2.59233	0.0049064	1.28333	-0.379542
3	Amigo2	0	2.41996	1.68666	3.05554	2.33299	1.22751	1.30406	1.42733	2.15628	3.73136	2.28622
3	Angpt2	0	1.41193	2.77006	2.80656	2.79453	1.1316	2.43672	1.68803	0.548135	1.38757	0.563448
3	Angptl4	0	0.909754	2.72899	2.02903	2.70412	2.9013	2.47435	1.85206	0.343473	1.12434	1.42295
3	Ankfy1	0	0.377342	2.28766	2.69849	2.06444	0.604591	0.514703	0.496427	0.124348	0.288691	-0.127844
3	Ano6	0	-0.195532	0.905577	1.1513	2.07396	2.17743	2.61514	2.38994	0.27483	0.876909	0.537109
3	Anxa2	0	0.17147	0.927845	1.50882	2.45973	2.989	2.58061	2.32103	1.55763	1.97271	0.788829
3	Apold1	0	1.3166	0.5753	0.475856	0.181983	-0.254916	-1.57491	-1.76272	-1.35597	-1.07139	-0.862113
3	Apoo	0	-0.458376	0.532943	-0.0499663	-0.496396	0.864606	-1.38327	-2.13818	-0.565265	-1.93324	-1.67944
3	Apopt1	0	0.652285	1.7691	2.11369	1.51362	2.32906	0.225233	-0.142166	-0.0407909	-0.170528	-0.205494
3	Aqp9	0	-0.539823	-0.35354	-0.0992133	2.56381	1.5646	0.24155	1.45186	0.669535	0.642496	-0.58027
3	Arhgef37	0	1.83086	2.3488	3.26078	2.04121	-0.149874	1.8876	1.54945	1.1917	1.32671	0.761425
3	Arid5a	0	1.73415	2.38846	2.21093	1.76711	2.1218	0.131404	0.805404	-0.0830944	0.336692	0.0850604
3	Arrdc2	0	1.82158	1.98107	1.27971	0.966347	0.541862	0.548233	-0.88016	-0.588429	-0.592313	-0.36865
3	Arrdc4	0	0.13587	1.35271	1.43215	2.65137	1.97285	1.60324	2.40123	0.314692	0.892449	-0.287017
3	Arsj	0	-2.72139	-0.902784	-0.581667	-0.670797	-2.21493	-2.63899	-2.50423	-1.50071	-2.74119	-2.15199
3	Ash2l	0	0.388757	1.89752	2.41231	1.77388	1.15426	0.175599	-0.165872	-0.461627	-0.207519	-0.0373557
3	Aspg	0	0.750791	0.827398	1.59082	2.94283	3.03216	2.31484	2.361	1.51681	1.45032	0.524975
3	Atf3	0	2.7449	2.56638	2.56405	2.3856	1.59624	1.67644	1.83222	0.537132	1.31179	0.0552925
3	Atp10d	0	1.02043	2.36385	2.27799	2.48486	1.28297	1.90416	1.32691	0.562085	0.141367	-0.321856
3	Atp2c2	0	-0.596132	-0.429458	1.7819	0.547111	-1.01677	-1.22027	-1.24103	-0.983178	-1.79909	-0.936209
3	Atp8b1	0	-0.977226	0.368407	2.04954	2.42453	1.63514	1.41599	1.19511	0.697051	0.0996437	0.467247
3	AY074887	0	0.372843	0.417208	0.842385	0.106426	0.923446	-0.597352	-1.08697	-1.5082	-1.48996	-1.85646
3	B230208H11Rik	0	-0.859647	1.33318	2.24892	0.883418	1.50952	0.854607	0.817103	0.613302	1.04031	-1.15557
3	B3gnt3	0	0.640744	1.46534	2.44419	2.83286	3.03774	1.37245	1.25283	0.924384	1.04596	0.277194
3	B3gnt5	0	-0.742357	0.884852	1.29045	2.51594	2.2174	1.70804	1.46071	0.908713	1.14619	-0.161006

3	B4galt1	0	0.57768	1.82776	1.16926	1.88786	2.95915	2.97655	2.83887	1.17719	1.18122	0.93374
3	Bach1	0	1.4078	2.16692	2.56764	2.65014	2.23094	2.19335	2.70877	0.914317	1.29749	0.0098553
3	Bag3	0	2.12814	3.31386	3.28716	2.6348	2.2527	1.77704	1.65536	1.10948	1.791	0.880648
3	Baz1a	0	0.111707	1.23942	1.48275	1.63401	3.33791	2.16877	1.86614	0.852179	1.20321	0.152479
3	BB283400	0	0.234665	0.589117	0.794633	0.819481	0.911844	-1.1618	-0.968057	-1.33128	-1.10217	-1.72459
3	BC030870	0	0.652217	1.82349	2.20087	1.79715	1.44292	0.389213	-0.546807	-0.68107	0.221136	0.0198386
3	BC039771	0	0.588528	1.03526	0.843729	0.052962	1.84626	-0.263512	-0.867259	-1.00771	-1.0402	-1.24084
3	Bcas1	0	0.691029	0.878435	1.3372	2.67304	3.70373	2.073	1.5776	1.42814	1.30454	1.92543
3	Bcas2	0	0.874671	2.23118	2.56804	1.54201	2.46149	0.301308	-0.241704	0.405859	0.521515	0.950666
3	Bcl3	0	0.236489	1.31517	2.03354	2.67181	2.96731	2.09215	2.13307	1.22687	1.22789	0.310074
3	Bcl6b	0	1.10773	0.967759	2.14821	0.513417	2.39275	0.898426	-0.654695	-0.732493	0.520521	1.3079
3	Blnk	0	0.272639	1.17771	2.12096	1.31125	1.86608	2.02667	2.21486	0.497502	0.4025	-0.788105
3	Brip1	0	0.359902	1.44265	1.69899	1.2109	1.30143	-0.0715833	-0.416354	-0.928517	-0.750157	-0.949961
3	Brip1os	0	0.370878	1.74275	2.03582	1.53481	2.82901	1.28123	1.10661	0.134095	0.0372798	-0.258723
3	Btbd16	0	0.24641	-0.49001	0.154914	2.62502	1.73077	0.0068661	-0.109572	-0.609737	-0.545843	0.184199
3	Btc	0	0.41737	0.725567	1.35735	2.57706	1.12681	-0.415318	0.145124	-0.400026	-0.078401	-0.996791
3	Btg1	0	1.42125	1.85403	2.07477	2.04028	3.59814	2.91746	3.27486	1.3585	2.06775	1.55096
3	C330013E15Rik	0	0.706324	-1.11091	0.422947	2.20208	-0.131171	-0.994651	-0.0893263	-0.563831	-0.0874508	-1.41461
3	C5ar1	0	0.999225	1.6868	2.1	2.81841	3.03439	2.84276	2.175	0.968198	1.4118	0.569518
3	Car5b	0	-0.0456522	1.80151	1.91215	1.29373	2.23618	0.0438944	0.582585	-0.331948	-0.477604	-0.152583
3	Cast	0	1.34679	2.51458	2.33277	3.14261	2.92706	3.24879	3.53634	1.98619	2.47587	1.98921
3	Ccdc86	0	0.521891	0.794226	1.62483	2.41274	2.08689	1.42369	1.0563	-0.195304	-0.0096141	-0.69957
3	Ccl11	0	0.527472	0.708069	1.7662	2.77448	2.57104	1.72196	1.47771	0.599377	0.120806	0.0223895
3	Ccl12	0	-0.318173	0.531541	0.946255	2.33984	1.89059	1.56821	1.41494	0.332321	0.357284	-0.965686
3	Ccl2	0	0.80979	1.20932	1.84914	2.06767	1.8325	1.29612	1.42847	0.996692	0.906521	-1.46707
3	Ccl24	0	0.939251	0.765441	1.50026	1.01022	-1.38932	-0.147461	-0.11121	-0.512301	-0.80103	-1.54922
3	Ccl3	0	1.81168	2.29605	3.21472	2.50462	2.29488	2.27951	2.55026	1.6668	1.49146	0.102733
3	Ccl4	0	2.47871	2.70661	3.55158	3.31659	3.0135	2.78178	2.91334	2.18213	2.05698	1.3887
3	Ccl7	0	1.0427	0.751555	1.35448	1.80401	1.28179	0.726028	1.21292	0.50375	0.820702	-1.96268
3	Ccl9	0	1.04204	1.73258	2.38346	3.20509	2.57001	1.79158	2.69184	1.26182	1.93568	0.303108
3	Ccm2l	0	-0.884136	-0.0448218	0.0217024	1.791	1.23953	0.63975	-0.441039	0.213478	-0.787387	-1.78956
3	Cd101	0	1.12332	1.55961	1.72538	1.6036	2.68703	2.11558	3.021	1.86352	0.991415	-0.246738
3	Cd14	0	0.983728	1.55694	2.44339	3.48766	2.2498	1.73809	2.30753	1.32027	1.10037	0.369484
3	Cd163	0	1.57387	2.21496	1.73346	3.32222	1.64439	2.27003	2.43153	0.580044	0.697814	0.545525
3	Cd24a	0	0.275843	1.66549	1.55711	2.65583	3.44934	1.82374	1.84217	1.54384	2.24665	0.811137
3	Cd300ld	0	0.806332	1.0364	1.35188	2.17276	2.93244	2.6799	2.30632	1.52873	2.52865	0.260274
3	Cd44	0	0.0763854	0.829954	1.235	2.64449	2.85493	2.25224	2.50963	1.59548	1.79892	0.88536
3	Cd93	0	1.73944	2.61441	2.39849	2.78256	3.00963	2.67	2.13224	0.869167	1.56494	0.557586

3	Cdc14a	0	0.369126	1.03726	1.79006	3.50155	2.54732	2.35274	2.20713	1.75219	2.25055	1.84795
3	Cdh19	0	1.37278	1.88501	3.23387	1.58025	-0.495048	1.30815	0.887079	0.989971	0.292723	0.961036
3	Cdh5	0	0.185458	2.07676	1.97892	2.88367	2.19194	2.5547	2.11043	0.87331	1.11728	0.478919
3	Cdhr1	0	0.678562	0.257845	0.27892	0.59117	1.1182	-1.45552	-1.3562	-1.15887	-1.21448	-1.52359
3	Cdk6	0	-0.186181	1.69137	1.66019	2.4725	0.458223	1.10678	1.49097	-0.694654	0.0025525	0.0604583
3	Cdkn1a	0	1.10105	1.61384	1.52982	2.02981	1.41696	0.329928	-0.329144	-0.549169	-0.544901	-0.51414
3	Cdr2	0	1.71788	2.91559	2.80093	2.92301	0.530152	1.46963	0.557527	1.27358	1.28651	1.83883
3	Cdsn	0	-1.31263	-0.397103	0.257651	2.41329	1.2349	-0.458241	0.923549	0.889286	0.106106	-0.0745438
3	Ceacam1	0	0.0266124	1.64602	1.43186	2.89683	1.96461	1.98568	1.30942	0.397468	0.262532	-0.0106272
3	Ceacam2	0	1.01908	3.02103	3.28218	0.928402	0.63813	1.51766	1.01068	1.48672	1.78275	2.31387
3	Cebpb	0	1.50522	1.69449	1.77631	2.40414	2.63998	0.289775	1.10853	-0.5006	0.829431	0.428057
3	Cebpd	0	1.0727	1.9521	1.61053	2.71232	3.22017	1.64801	1.5186	0.601655	0.96807	0.115825
3	Cenpf	0	0.584225	1.92599	2.20887	1.69276	2.97064	1.85309	0.817751	0.169505	0.202817	0.39885
3	Cfap45	0	1.27965	2.50917	2.56314	1.56424	3.02997	2.16804	1.48759	2.08022	3.38397	3.26596
3	Cflar	0	0.4132	1.81441	2.35123	2.13801	2.46641	1.8238	1.66757	0.456579	0.337535	-0.160609
3	Ch25h	0	0.715169	1.82535	2.06279	2.38166	2.91857	2.66614	2.48156	1.2773	0.551299	0.638028
3	Chac1	0	0.841915	1.8399	2.1838	2.17633	-0.257323	-0.674543	0.0843817	0.100126	0.21742	0.404095
3	Chek1	0	1.17387	0.294245	0.695115	1.13817	1.31923	0.866616	-0.177514	-0.987834	0.0816584	2.82984
3	Chrnb4	0	3.25769	2.17701	2.88996	3.29051	3.58493	2.20563	1.70721	2.48104	2.80164	1.82125
3	Churc1	0	0.546111	2.07922	2.54127	1.90308	1.03031	-0.123754	-0.236587	-0.185294	0.116493	0.716821
3	Clca3a1	0	0.844435	0.757573	0.844967	1.24143	1.73107	1.07772	-0.334947	-1.19021	-0.671418	-1.11484
3	Cldn1	0	2.00632	3.40617	1.85939	2.82587	0.559367	2.15904	2.06129	0.877786	2.19513	2.40571
3	Clec4d	0	1.85915	2.18889	2.27834	3.05869	3.5027	2.932	3.32979	2.90638	3.36854	2.21216
3	Clic4	0	1.68063	2.52697	2.73453	3.73994	0.813513	1.31689	1.91771	1.31794	1.54541	2.05497
3	Cnn3	0	0.574908	1.26604	1.67271	2.67185	2.87975	2.69852	2.94274	1.73168	1.75198	0.815602
3	Cnr2	0	0.811717	2.00544	2.70855	2.17329	1.62756	0.967638	0.885	0.12817	0.400423	-0.461409
3	Col4a1	0	0.551432	1.07594	1.47213	2.24691	1.68624	2.64073	1.55437	0.037943	0.0970086	-0.34319
3	Col4a2	0	0.485356	0.926188	1.27697	2.04025	1.05427	2.42289	1.11875	-0.20272	-0.323511	-0.77027
3	Commd7	0	0.655514	2.43129	2.40689	1.61034	1.30891	-0.266946	-0.343079	0.106912	0.295577	0.892475
3	Comt	0	0.186652	1.17568	1.65235	0.814168	1.39723	-0.197918	-0.1688	-0.835217	-1.21585	-1.11951
3	Coq10b	0	1.71914	1.86057	2.49384	1.36304	0.0771503	-0.580698	0.0709704	0.534482	0.722356	1.96259
3	Coro6	0	-1.18973	-1.26215	-0.846498	-0.789202	-1.87165	-1.24931	-2.46291	-2.5286	-2.70453	-3.31571
3	Cpm	0	1.0272	2.30128	2.70959	2.54638	1.02179	1.41466	0.695319	0.125861	0.0990941	0.432211
3	Creb3l2	0	1.56368	2.80426	2.69291	2.53775	2.5133	2.53673	2.68924	2.06164	0.982337	0.433121
3	Crispld2	0	3.10464	2.47841	1.52535	2.0826	1.11455	1.09678	0.393912	0.098079	0.628217	0.747536
3	Crx	0	0.356053	1.21632	1.58914	1.28519	1.09527	-0.933386	-0.722671	-0.907562	-0.766629	-0.657214
3	Csrnp1	0	1.06092	1.55451	1.86106	1.44837	-0.190615	-0.67906	-0.101285	-0.830731	-0.677776	-0.340394
3	Ctla2a	0	0.935461	1.60207	1.8853	1.62817	2.24642	1.21775	0.300186	-0.365551	-0.220576	-0.58574

3	Ctla2b	0	1.25233	1.90643	1.58987	2.07949	3.08543	3.32007	2.19623	1.3997	1.21297	0.436018
3	Cxcl1	0	1.59617	1.8659	3.01826	3.35712	1.96371	0.461926	2.70609	1.82385	1.66584	1.414
3	Cxcr2	0	0.196609	0.631634	0.426022	-0.117331	1.43694	-1.127	-1.52279	-1.64441	-0.957275	-1.21156
3	Cyb5r1	0	1.22264	0.693442	1.31211	3.61209	1.63894	1.76249	2.04637	0.856212	0.607152	0.283264
3	Cyp2e1	0	0.462301	1.99341	2.21112	1.76053	1.16844	-0.0638653	-0.318095	-0.581877	-0.118394	0.133698
3	Cyr61	0	1.03228	0.282326	0.491647	0.808567	-1.2243	-1.35798	-0.605794	-1.57061	-1.18583	-1.611
3	Cyyr1	0	-0.232444	2.25967	1.79317	2.78165	0.612226	1.1565	1.02849	0.762707	0.508332	-0.285138
3	D3Ertd254e	0	0.360901	2.12028	2.61919	1.59081	0.217904	-0.268005	-0.0799185	-0.0330985	0.108521	0.140116
3	D730005E14Rik	0	1.0031	1.96681	2.21295	2.22835	3.12573	2.25592	2.29774	1.27247	1.63802	-0.0834937
3	Dab2	0	-0.208401	1.16195	1.12924	2.561	2.65504	2.77457	2.06089	1.07679	1.42495	1.56414
3	Dach2	0	0.0279107	0.407366	-0.0732456	2.93327	-0.933604	0.48392	-0.706697	0.515429	0.521621	0.0037545
3	Dcaf10	0	0.157297	1.45248	2.25006	1.27669	0.269808	-0.345005	-0.476095	-0.752579	-0.464622	-0.766423
3	Dclre1c	0	0.531377	1.53936	2.30323	1.16241	1.36051	0.458606	0.145578	-0.624407	-0.734953	-0.649395
3	Ddc	0	2.55641	1.80692	3.19991	1.92523	1.95441	2.28869	0.998434	1.93402	3.096	3.42904
3	Ddit4	0	2.23533	2.31305	1.6497	0.591969	0.891918	0.860407	-0.262523	-0.674634	0.107232	0.0614741
3	Ddx21	0	0.0647928	0.435487	1.20889	2.67617	2.90411	1.55552	1.34055	0.605029	0.650609	0.186922
3	Ddx39	0	0.560579	1.00469	2.22332	2.60332	1.86091	0.935227	0.586925	0.181367	-0.102316	-0.475646
3	Dennd2c	0	0.321274	1.52729	1.00989	1.60908	1.34373	2.30633	1.15535	0.657435	0.481831	-1.45674
3	Des	0	0.842688	0.998259	1.49331	2.34667	3.92971	2.01713	1.58014	1.532	1.58354	1.02157
3	Dll1	0	-0.0401339	1.16127	2.76989	-0.721147	-0.234012	0.028622	-0.668618	-0.501094	0.441854	0.322004
3	Dmkn	0	2.07192	1.77866	3.67108	1.91684	2.43787	1.31977	0.563301	2.02854	2.79178	1.90315
3	Dnaja1	0	0.845853	1.64593	1.9833	1.4821	-1.39212	-0.243984	-0.385511	0.414167	0.788603	0.914606
3	Dnajb1	0	1.59828	2.426	2.50424	0.966568	-0.406135	0.0372465	0.0437851	0.134185	0.484777	0.786605
3	Dusp10	0	0.363688	1.0723	1.31947	3.11629	2.10111	0.60163	0.450256	0.341661	-0.160562	0.0957306
3	Dusp16	0	1.86702	2.99249	3.32397	2.43009	0.680007	1.49154	1.95699	0.76301	1.68992	1.23078
3	Dusp2	0	0.524099	1.06628	2.31694	0.431494	-0.374854	-1.0446	0.638328	-0.186367	0.205911	-1.33256
3	Dysf	0	-0.132773	0.668495	1.76905	2.03726	2.2664	1.15794	0.85667	0.0189387	-0.528289	-0.406332
3	E030011O05Rik	0	2.43937	3.69235	2.60985	2.64383	0.710356	1.48038	1.80776	1.80342	1.59097	2.25545
3	Eaf1	0	-0.502884	1.29573	2.44421	2.93349	1.25684	1.51787	1.1432	0.627642	0.715837	0.431299
3	Edn1	0	0.792177	1.34666	1.44214	2.24086	1.42256	0.287959	-0.519368	-0.334741	-0.508326	-0.675096
3	Efna1	0	1.09049	3.19901	2.0463	1.79296	3.22515	1.40988	2.19032	1.30014	1.6926	0.450753
3	Egr2	0	1.16766	2.23911	2.52021	0.281415	-0.926363	-0.0219369	0.618938	0.612917	0.931128	1.23216
3	Ehd2	0	0.160914	1.48719	2.01624	2.49986	2.98043	2.90458	1.94381	1.47201	1.47434	0.814148
3	Eif4ebp1	0	-0.0036819	0.508901	1.3867	2.17251	2.96766	1.84232	1.82097	0.624791	0.998037	0.0048734
3	Elovl1	0	-0.0117311	0.323714	1.49772	2.71575	2.49707	1.85402	1.05087	0.662221	0.238411	0.187443
3	Emilin2	0	1.34045	2.53753	2.02164	2.35685	3.86991	2.18139	2.36101	1.30255	1.43196	1.05352
3	Emp1	0	0.663859	1.5425	1.67645	2.85747	2.86402	2.65441	2.25777	1.35684	1.94268	0.304185
3	Eng	0	0.236115	0.57465	0.731081	2.42026	2.38536	1.57648	0.901547	0.128153	0.0007372	-0.672712

3	Epha2	0	1.35026	0.939397	1.24423	1.46787	0.879317	1.4659	0.658645	-0.674665	-0.616447	-1.40216
3	Ercc6l	0	0.421902	2.21297	1.69843	2.16683	3.22032	3.09311	2.49198	1.46152	1.48753	1.39122
3	Errfi1	0	2.34509	2.21165	1.73792	1.50737	-0.376642	0.371566	0.0756318	-0.0987154	0.288718	0.111816
3	Esam	0	0.0101648	1.67647	1.57739	2.26742	2.98658	1.57622	0.519213	0.252517	0.569226	0.348316
3	Esr1	0	-0.144041	-0.163304	0.551856	1.93828	-2.32538	-0.420771	-0.233997	-0.695702	-0.0996433	-0.045978
3	Ets1	0	-1.0232	0.160916	1.20317	1.78284	2.60505	1.482	1.12835	0.383312	0.612752	0.114184
3	Eva1c	0	1.7452	2.32966	2.34704	2.27501	1.89217	1.46265	1.24405	1.98118	3.895	3.08306
3	Exosc2	0	1.06915	2.1505	2.4168	2.28415	1.81634	0.0586246	0.0132686	0.0832529	0.241912	0.724956
3	F2r	0	-0.0720435	1.16118	2.37848	1.4721	0.880895	1.86449	0.988046	-0.373767	0.237123	-0.864902
3	F830016B08Rik	0	0.994137	0.492779	0.534967	0.302052	1.40986	-0.669955	0.202374	-1.38319	-1.11508	-1.68329
3	Fam107b	0	2.22962	3.20643	2.66097	3.71427	2.11139	2.41352	2.90781	1.52138	2.43011	1.43225
3	Fam129b	0	0.306032	0.749611	1.68012	3.10176	2.59135	2.08068	2.23801	0.894383	1.61624	0.63788
3	Fam196b	0	1.4481	1.11478	2.96563	2.54652	1.89831	0.352048	1.96652	1.42391	3.01797	0.826428
3	Fam83a	0	0.799185	1.97375	2.27935	2.19453	1.4764	0.0271794	0.262499	-0.228866	0.0317661	-0.126189
3	Fas	0	0.950627	3.29253	2.73994	3.02362	2.88124	2.13887	1.71461	1.32047	2.03544	1.44153
3	Fbxo17	0	0.808167	2.26942	2.7618	2.33051	1.62717	0.375126	0.622647	0.017794	0.498677	0.384107
3	Fbxo43	0	1.80161	3.15062	2.45796	1.03576	2.61488	1.47047	2.82346	1.09115	2.10414	0.55599
3	Fhad1	0	1.56846	1.53187	2.9987	3.05148	3.20722	2.49237	1.29187	1.13603	2.56647	2.48244
3	Fhl2	0	0.319242	-0.0414721	0.330863	-0.158521	-0.922317	-1.88892	-1.78995	-2.00925	-2.28693	-0.936303
3	Filip1l	0	2.28302	2.59339	1.93867	2.52016	3.8479	2.49237	2.06751	1.08954	2.44643	1.20932
3	Fkbp5	0	1.28991	2.27417	2.37605	1.29956	0.389553	0.99923	0.0181566	-0.2681	-0.205094	-0.353311
3	Flnc	0	1.45793	1.59378	1.99008	3.73232	2.8554	2.76334	2.60488	1.55106	1.75329	1.21338
3	Flt4	0	0.22928	2.17285	1.91605	2.93166	2.17534	1.17018	1.12259	0.0260338	0.521361	0.588563
3	Fmo2	0	0.696932	1.8125	2.96354	0.528046	0.52908	1.89754	1.16355	0.0925709	-0.243178	1.86917
3	Fndc9	0	1.22179	1.86406	3.22849	1.49943	-0.294771	0.622129	0.330268	0.153465	1.09939	1.01882
3	Fos	0	2.71599	2.19466	1.73555	1.16885	-0.024064	-0.109275	-0.0758036	0.150161	0.713128	0.608012
3	Foxf1	0	2.20321	0.887163	0.568627	1.77425	0.446918	1.24763	0.729321	-1.09832	0.992907	-0.855041
3	Foxf2	0	0.689861	1.34249	1.40479	2.83212	3.4182	1.80975	1.60486	0.428038	0.96565	1.76355
3	Fpr2	0	0.849767	2.2416	2.4232	2.44273	2.01655	1.09828	1.34588	-0.604794	1.44734	0.619473
3	Fst	0	-0.140781	1.184	1.20774	-0.760009	-0.0374245	-1.73248	-1.65471	-0.798034	-1.26617	-0.818503
3	Fxn	0	0.139855	2.05409	1.78979	1.84922	2.23221	0.611845	-0.190743	-0.386683	0.0112738	0.374058
3	Gabra2	0	-0.100965	0.578755	0.502777	1.05118	-0.132431	-1.51211	-1.31189	-1.30805	-1.28885	-1.88645
3	Gadd45a	0	2.06031	2.27273	2.40028	3.2989	3.75593	2.13257	2.2551	2.00331	2.61497	1.07845
3	Gadd45b	0	1.86567	1.72693	2.07295	2.15067	0.868055	-0.546149	0.211922	0.0058851	0.128913	-0.0292507
3	Gadd45g	0	2.06747	2.17126	2.15516	2.10052	1.83294	0.32069	0.267806	-0.0449139	0.152663	0.326863
3	Gch1	0	2.36587	1.55136	1.86978	1.72796	2.13864	1.09988	1.43679	-0.548976	1.62588	-0.271843
3	Gclm	0	-0.565142	-0.0917866	0.527667	2.68473	-0.840511	-0.0844322	-0.254482	-0.610717	-0.894016	-0.523532
3	Gdf15	0	0.450766	-0.092604	0.229176	1.82607	0.918938	0.854617	1.32128	0.365522	0.432445	-2.0916

3	Gdnf	0	-0.34335	0.111315	0.735143	2.35432	2.40263	-0.218758	0.592046	0.0021288	0.248971	-0.468799
3	Gem	0	3.052	2.76365	2.91376	2.25185	0.706638	1.1501	1.62742	0.680328	1.61986	1.47237
3	Ghdc	0	0.272812	1.16542	1.69918	1.11968	2.10504	0.0644135	-0.0930123	-0.705429	-0.434271	-0.961564
3	Gimap6	0	2.22623	2.63786	2.00488	0.75766	1.77981	0.360885	0.667447	-0.531213	0.657348	0.601887
3	Gimap8	0	0.447664	1.15877	1.9071	2.29	3.05963	2.50566	2.79525	1.10352	2.31126	1.04303
3	Gjb1	0	0.0861524	0.440783	2.32869	2.84948	2.68736	1.20389	1.29773	0.820452	0.771862	0.753694
3	Gla	0	1.29602	2.30502	2.3265	1.71176	3.05571	2.59596	2.46294	0.620288	1.43963	0.375043
3	Gldn	0	-0.236888	-0.0248445	1.32666	2.88013	1.6992	1.33349	1.55857	-0.284378	0.423679	1.12392
3	Glod4	0	0.429918	2.34252	2.56863	1.46774	1.30657	0.0307182	0.179194	0.0844291	-0.108492	-0.0521421
3	Gm10190	0	0.870312	2.09321	2.511	1.69729	1.71592	-0.207736	-0.0252595	-0.226711	0.175944	0.770063
3	Gm10778	0	0.706143	2.19569	2.6447	2.06077	1.41869	-0.0923746	0.0148494	-0.0108943	0.436422	0.812098
3	Gm10791	0	1.48891	1.37978	1.31346	2.81131	1.60886	-0.503077	-0.337324	0.562844	0.704173	0.0671741
3	Gm11974	0	0.566748	1.49077	2.27824	2.89628	2.51728	0.743828	0.69197	0.304994	0.631093	0.328468
3	Gm12338	0	-1.35066	0.377941	-0.11617	1.13855	0.976889	-1.25777	-2.07848	-0.567019	-0.411986	-1.0379
3	Gm13305	0	0.934004	1.75386	0.326632	0.715594	0.446214	0.820887	0.381315	0.479382	-2.27599	0.920597
3	Gm13889	0	1.67335	1.24105	1.57179	1.67844	2.23562	0.0094773	-0.531455	-0.521315	0.0050413	0.222831
3	Gm13985	0	1.13323	2.05048	2.3743	1.45037	0.533822	-0.262753	0.0093172	-0.386928	-0.289768	-0.119869
3	Gm14005	0	0.142635	0.727765	1.50186	1.58585	2.74819	0.608644	0.51878	-0.41958	0.304972	-0.775489
3	Gm16287	0	0.255872	0.948813	1.31213	0.317543	0.976283	-0.43965	-0.950686	-1.15442	-1.37673	-1.46992
3	Gm16973	0	1.12588	1.34284	1.85044	1.43723	0.253497	-0.334603	-0.244618	-1.24808	-0.0630671	-0.80156
3	Gm17644	0	0.906309	0.549656	-0.00448	0.525088	0.695385	-1.2348	-1.58703	-1.9828	-1.05328	-0.0889902
3	Gm17821	0	0.78725	0.482604	0.543235	0.35979	1.541	-0.768003	-0.937988	-1.32815	-0.979241	-1.57298
3	Gm20337	0	0.785903	1.15679	1.47515	0.608852	1.4487	-0.605267	-1.20155	-1.28963	-0.511973	0.0721817
3	Gm3258	0	2.3234	3.16416	2.62457	2.48997	3.8601	2.47606	2.62717	3.50915	3.04495	3.08735
3	Gm6537	0	0.78842	0.916757	2.92785	-0.145241	2.79005	1.84033	1.46246	1.66392	1.63485	2.09692
3	Gm694	0	-0.267371	1.16464	1.48443	2.79103	2.9092	1.72766	0.728808	0.751659	0.791378	1.14035
3	Gm7367	0	0.391074	0.550855	0.429707	1.62535	0.071973	0.342423	0.810302	-2.20882	-0.110072	-1.05477
3	Gng13	0	0.589864	1.31276	0.826886	0.225939	0.983303	-1.35846	-1.88044	-0.688743	-0.540058	-0.396786
3	Gpr151	0	0.851965	1.07889	2.29035	2.16982	0.987057	0.47689	0.306229	1.71201	3.00983	2.55909
3	Gpr182	0	-1.09062	0.769542	0.832349	2.24343	2.08755	1.15565	1.7859	0.804092	0.933879	-0.176198
3	Gpr35	0	0.844109	1.93649	2.36765	2.92068	2.84887	2.20416	2.67112	1.39796	1.98967	0.373453
3	Gpr84	0	-0.303083	0.771053	2.03963	2.14538	1.84047	2.10285	2.17136	0.824989	-0.0570973	0.308119
3	Grap2	0	-0.671218	-0.379676	-0.186548	-0.483543	0.508643	-2.39905	-1.47381	-2.27769	-2.21532	-1.13681
3	Grk1	0	2.52953	0.825642	1.81728	1.83153	2.30658	0.377222	0.620713	0.761373	0.787398	-0.712208
3	Grk4	0	0.570079	0.25668	0.397297	0.174289	1.52118	-0.846478	-1.01827	-1.50834	-1.06801	-1.69689
3	Grrp1	0	0.0862884	0.822855	0.887975	1.53234	3.289	0.582443	-0.139566	-0.183191	0.307715	0.51399
3	H2-T23	0	0.86304	2.20443	2.58936	2.09987	2.5146	1.47796	2.12664	0.233472	0.801643	0.088705
3	H2-T3	0	0.658878	1.06309	1.34891	0.695766	1.31501	-0.835791	-1.50934	-1.08174	-0.328255	-0.464543

3	Has2	0	-0.61671	0.936376	1.167	2.19715	2.96536	1.46279	1.68334	1.36579	0.579394	0.536442
3	Hbegf	0	0.434415	1.12718	1.50166	1.9875	2.70214	0.476472	-0.272639	-0.147544	-0.110978	-0.0592377
3	Hcar2	0	2.17316	2.22474	2.73806	3.03388	2.863	3.13686	3.59465	2.74182	2.42685	1.24056
3	Hcrt	0	1.76547	0.642577	0.590243	3.09426	2.72533	0.782204	0.128767	0.789968	0.970484	0.776598
3	Hif3a	0	0.909573	0.879075	0.755307	0.547553	-0.627378	-0.278649	-1.21647	-1.53835	-1.69111	-1.20044
3	Hmox1	0	0.966746	1.80754	2.21035	3.11672	2.53174	2.05853	1.97606	0.964818	1.14926	0.0008584
3	Hs3st3b1	0	1.32337	2.9233	2.20695	3.5842	2.00988	2.37837	1.57155	1.23931	2.39449	3.05795
3	Hspa1a	0	1.84784	2.24698	2.24329	1.54189	-0.211244	-0.0706091	-0.108589	0.0716695	0.343937	0.332012
3	Hspa1b	0	1.86796	2.27778	2.26821	1.67858	-0.0543806	-0.018142	-0.150917	0.138441	0.388094	0.355697
3	Hspa1l	0	1.77633	2.37596	2.31333	1.46423	0.190141	-0.267069	0.160023	-0.0984093	0.209718	0.452756
3	Hspb1	0	1.97031	2.36107	2.14765	2.69119	1.18492	0.768855	0.063026	0.193943	0.451103	0.481312
3	Hspb8	0	0.771618	1.53706	1.70543	2.73303	3.51156	2.38366	2.8731	2.04251	2.62665	1.74647
3	Hspd1	0	0.681348	1.6954	2.4803	2.85804	0.126684	0.039164	0.237335	0.42174	0.558628	0.662154
3	Hspe1	0	0.729892	1.89125	2.45067	2.98825	0.953553	0.0957572	0.176873	0.379674	0.596543	0.82424
3	Hsph1	0	0.580389	1.46935	2.0068	1.66501	-1.08832	-0.606639	-0.483001	-0.133502	-0.0442682	0.148961
3	Htra4	0	-0.0080505	1.66401	2.1424	0.366775	-0.578628	0.232189	0.981531	-1.42766	-0.129356	-0.0837298
3	Hyal1	0	-0.0839055	0.371305	0.813609	2.00716	2.36825	0.53042	0.584228	-0.39131	-0.471629	-0.849372
3	Hyal3	0	0.413071	1.65762	1.60837	0.660291	0.727116	-0.385963	-1.04438	-0.937942	-1.27003	0.100086
3	Hykk	0	0.705985	2.41685	2.78874	0.77469	-0.0807239	-0.0809761	0.421374	0.0941279	0.302995	0.0844003
3	Icam1	0	1.71938	1.76679	3.53508	2.88724	2.7594	2.72466	3.26874	1.7492	2.06806	1.46406
3	Id1	0	0.931206	-0.0581898	0.759455	3.12115	2.63471	1.02498	0.46766	0.533683	0.626028	0.930608
3	Ier2	0	3.0227	2.54786	2.93372	2.86108	1.84321	1.26555	1.60448	0.873685	1.30017	0.848543
3	Ier3	0	1.75554	1.60774	2.17954	1.96	2.32165	0.545747	0.446567	-0.337081	-0.241289	0.598308
3	Ifrd1	0	1.66295	1.1162	0.952528	1.27786	-0.490313	-0.923832	-0.740147	-0.732737	-0.825793	-0.7823
3	Igf2bp2	0	0.141197	1.18352	1.91182	2.03235	2.00725	1.20777	0.653449	-0.268906	-0.108607	-0.771834
3	Igfbp3	0	0.203011	0.501684	0.989303	2.33305	2.70512	1.33264	0.185246	-0.313004	0.134952	0.0245493
3	Il11	0	0.366296	0.763119	1.51572	2.46677	1.60454	-0.17881	-0.50404	-0.618633	-0.257987	-0.0094632
3	Il1a	0	1.56538	2.43725	3.75021	2.14425	2.38382	2.24677	3.48239	2.10008	2.17052	1.4081
3	Il1b	0	1.51594	1.42662	3.60436	2.57209	2.29578	0.782181	2.66593	2.10682	1.98101	1.06926
3	Il1r1	0	-0.0160175	2.6018	2.0823	2.71809	2.05356	2.38679	2.17759	0.946627	1.55322	0.724067
3	Il1rap	0	0.101504	0.616068	1.56606	3.5599	0.887746	1.41713	1.96326	1.43854	0.562064	0.848836
3	Il1rn	0	0.281616	1.34126	2.52573	3.18321	1.93069	1.50831	2.59929	1.5666	2.08643	0.642039
3	Il33	0	0.651303	0.941747	1.2212	3.82405	1.72075	1.47936	2.41846	1.95776	1.82784	1.99393
3	Il4ra	0	0.506837	1.69904	1.42216	2.41752	2.88508	2.19996	2.02572	0.643842	0.857468	-0.0385469
3	Il6	0	0.438368	0.200427	1.6603	2.10587	0.234951	-0.263497	-1.14871	-0.110371	-0.257938	-1.14871
3	Il6ra	0	0.318166	1.97049	1.61945	1.50319	3.46195	2.28344	2.60104	1.22169	1.39134	0.865691
3	Imp4	0	0.713048	1.45558	0.944314	3.70024	1.826	1.58566	1.62379	0.76969	0.296617	1.86903
3	Inhba	0	0.870604	0.701269	0.45995	-0.162622	0.162682	-1.73704	-1.58515	-0.974789	-1.72229	-1.2307

3	Irak1	0	-0.025525	1.10741	1.60875	1.33625	2.00347	-0.242463	-0.369576	-0.677954	-0.51289	-0.751993
3	Irf9	0	0.224719	1.23961	1.70228	2.15486	2.51941	2.68851	2.56409	0.680196	1.10241	0.351482
3	Irx3	0	2.94198	0.937414	1.89557	2.58333	1.72767	2.40132	0.918827	1.90631	3.3261	2.70701
3	Itga2b	0	1.19839	1.57155	1.63118	2.81842	3.67704	1.87058	2.00906	0.537871	1.24571	1.52578
3	Itga5	0	0.311128	0.530855	1.16698	2.22535	2.78207	2.25656	1.65013	0.483658	0.653198	-0.135524
3	Itga7	0	0.298878	0.793887	1.22641	2.91536	2.57678	0.627387	1.34891	-0.0927105	0.173705	0.617254
3	Itgad	0	0.84912	1.43382	2.26438	1.93714	-0.0569246	1.32592	-0.108984	0.240746	-0.83931	-0.217014
3	Itih3	0	1.63348	0.855271	2.06048	2.47115	3.34236	2.3279	1.76024	1.84884	3.21646	2.93742
3	Itpkc	0	1.08671	0.655476	2.04116	1.24924	1.09476	-0.66448	-0.421669	-1.46136	0.758357	0.301354
3	Jun	0	2.00794	1.87941	1.47093	0.861913	0.733459	-0.126617	-0.500851	-0.741601	-0.275971	-0.473276
3	Kcnj8	0	0.47363	0.266164	1.86318	2.40919	2.70804	1.54147	0.657359	0.184471	0.308787	-0.0074067
3	Kcnq1ot1	0	0.700509	0.174176	0.532934	0.441418	1.2935	-0.817667	-0.976588	-1.42313	-0.992595	-1.86425
3	Kctd11	0	1.75506	1.33049	1.77693	3.02518	3.09113	2.81637	2.84918	0.776162	1.94784	1.31435
3	Kdm6b	0	1.12134	0.861087	1.58669	1.62216	0.407874	-0.619189	-0.764671	-1.09882	-0.486656	-0.767314
3	Klf6	0	1.02759	2.29944	2.63637	2.14647	1.62295	0.968916	0.985901	-0.291612	0.162871	0.215841
3	Klhl14	0	-0.101344	0.24902	0.086627	0.511511	0.233328	-1.36345	-2.18575	-1.66584	-1.58375	-1.66745
3	Klk9	0	-0.276485	0.0731332	0.111687	2.74472	2.40465	1.11458	0.974461	0.431146	0.566034	0.0551006
3	Kremen2	0	0.39379	1.01174	1.28544	0.623647	0.652101	-0.664337	-0.794443	-1.57217	-1.08001	-1.36011
3	Lama5	0	2.28737	0.527596	1.42403	3.13047	2.67991	2.20851	1.94132	2.1527	2.1675	0.445448
3	Lax1	0	1.39633	2.48082	2.70277	1.61619	1.32276	-0.729858	0.979868	0.742052	1.81451	1.53797
3	Lcmt2	0	0.565671	1.73989	1.98669	1.62232	1.21873	-0.27895	-0.621539	-0.334817	-0.528152	-0.286853
3	Lcn2	0	1.54487	2.23591	2.33745	2.84946	2.38554	1.87816	3.14843	3.08622	2.81565	0.710182
3	Ldlr	0	1.13032	0.593855	0.611205	1.82379	0.175026	-1.02981	-1.52643	-0.992244	-0.311713	0.504045
3	Lepr	0	1.28752	2.72606	3.47912	3.34826	2.08742	1.65766	2.60522	1.34101	2.23227	1.87012
3	Lif	0	0.611262	1.04187	2.26059	2.93723	1.53479	0.467602	0.0184165	0.3119	0.150678	-0.0172881
3	Lilr4b	0	0.178049	0.457598	1.40796	2.32088	2.69286	2.36252	2.26125	1.57259	2.18563	0.478935
3	Lilrb4a	0	0.984506	1.7715	2.1118	2.75022	3.14272	3.10121	2.97126	2.43056	2.70542	1.39528
3	Litaf	0	0.993915	1.74136	1.65756	2.37791	3.44673	2.49267	2.82898	1.46382	1.86563	0.619436
3	Lmna	0	1.21373	1.53509	2.1374	2.83836	3.70633	1.58085	1.09046	0.720727	1.55175	1.55461
3	Loxl2	0	1.02542	2.15424	2.41547	2.21133	2.9203	2.15814	1.89878	0.475174	0.898601	0.18333
3	Lpar2	0	-0.422737	2.81747	2.21218	0.423533	0.190236	0.632817	0.0627515	-0.138245	0.423261	0.484367
3	Lpin3	0	0.962177	1.91362	1.63874	2.21927	3.22644	1.60366	0.756254	0.600639	-0.0026046	0.496334
3	Lrg1	0	-0.50899	1.23001	0.79673	1.94459	2.67783	1.7689	0.766289	0.480293	0.0367439	-0.201955
3	Lrrc2	0	0.798669	2.15726	2.19974	1.08905	0.390405	-0.220739	-0.190525	-0.431959	-0.0227245	-0.74445
3	Lrrc3	0	-0.111341	1.11457	1.24732	0.207916	0.629586	0.217785	0.0513912	-1.41837	-1.48033	-1.61833
3	Lrrc32	0	2.01465	2.01501	2.51727	2.39521	1.34956	0.987344	0.591863	0.280734	-0.09059	0.0958183
3	Lrrc8c	0	0.648527	2.21825	2.30199	1.59856	-0.466558	-0.0260529	0.919281	0.52315	0.600744	2.32426
3	Lrrn4cl	0	0.266729	2.07162	2.96022	1.94121	2.51676	1.7486	1.20343	1.45771	2.54808	0.350821

3	Ly6a	0	0.548565	1.45823	2.40747	3.09981	2.75262	1.76966	1.55047	0.651613	0.884043	0.623458
3	Ly6c1	0	0.388197	1.26118	1.54256	2.14707	0.868607	0.363123	-0.175091	-0.347997	-0.71825	-1.14371
3	Lyve1	0	-0.533331	0.38222	0.380747	1.49064	0.110349	0.710377	-0.765294	-1.29888	-1.30424	-1.83156
3	Maff	0	2.54901	2.52342	2.63079	2.52677	1.35835	0.912392	0.76339	0.248454	0.754132	0.859534
3	Mafk	0	1.96071	2.58507	2.34517	2.9943	1.03096	1.04579	0.660935	0.246413	0.606473	0.94792
3	Mak	0	-0.251752	1.1865	2.08333	1.34728	-1.3938	-0.746775	-0.161512	0.255584	0.830413	0.618683
3	Mall	0	0.837429	1.91584	2.02389	2.21236	1.08862	0.600787	-0.0153602	-0.397916	-0.115558	-0.495803
3	Malt1	0	-0.242731	0.849847	2.16101	1.88831	1.25832	1.73471	2.7452	0.697778	0.471148	-0.135528
3	Map3k14	0	0.365364	1.23976	1.84425	1.46671	1.35009	1.65308	1.58773	-0.510511	0.852001	-1.21851
3	Map3k6	0	1.59395	2.18023	2.16433	2.36145	1.42269	0.185453	0.22115	-0.108725	0.0635847	0.273594
3	Mapkapk2	0	0.467662	1.0894	1.50235	2.22057	2.6034	1.83894	2.24547	0.441772	0.406233	-0.298349
3	Marveld2	0	0.515693	2.34317	2.66055	1.1991	1.14682	-0.239917	0.598778	-0.290808	0.0021345	0.314485
3	Mat2a	0	0.592975	1.22061	2.29738	2.46707	-0.786525	0.0891528	-0.115245	0.270117	0.501766	0.990577
3	Mb21d1	0	0.0742665	0.748823	0.955136	1.14396	2.62555	1.05787	0.901782	-1.10202	-0.0807296	-0.500128
3	Mboat1	0	0.249027	0.766715	2.08968	1.72108	3.55177	1.71729	2.23347	0.840525	1.52475	1.28893
3	Mcidas	0	0.0443924	1.72696	1.00115	-0.410986	0.842688	-0.730055	-1.19956	-0.936233	-0.696722	-1.44813
3	Mcl1	0	1.37739	2.86752	2.65851	3.21116	2.95058	2.80335	3.12871	1.23757	2.38119	1.94009
3	Mfsd11	0	0.473692	2.06812	2.50932	1.78035	1.38261	0.11508	0.128144	-0.230588	0.0479135	-0.157743
3	Mfsd2a	0	0.84307	0.568533	1.07091	0.102919	-1.15047	-0.679466	-1.39995	-1.48243	-1.49865	-1.37634
3	Mfsd2b	0	0.714183	1.55281	1.95305	1.53319	1.1269	-0.0649392	-0.99839	-0.498722	-0.606038	-0.050138
3	Mfsd4	0	-0.46999	0.542716	0.978476	0.162228	-0.608128	-1.77576	-1.61183	-1.25441	-1.95117	-1.40067
3	Mir17hg	0	0.314642	1.7348	2.74458	3.5385	1.94046	0.953719	1.53305	1.62143	1.95814	1.40764
3	Mir3473f	0	0.564346	1.64622	1.92089	1.42233	0.836761	-0.404555	-0.743668	-0.433984	-0.377191	-0.830512
3	Mmp8	0	1.58232	1.74598	1.90134	1.48036	3.20599	3.23756	2.88318	1.2231	1.95646	0.78657
3	Mmrn2	0	0.650883	1.33837	1.30798	2.63159	3.65723	1.62837	1.37859	0.806208	0.83808	1.03223
3	Morc4	0	0.85938	2.27328	3.14602	3.1239	1.09409	0.999126	0.978384	0.911522	0.897308	1.19535
3	Mreg	0	0.870944	1.0088	1.8617	2.13995	-0.631043	-0.392216	-0.374555	-0.531852	0.604716	-0.546882
3	Mrgpra6	0	0.496911	0.294603	0.352573	0.190668	0.869822	-1.27373	-1.18025	-1.71797	-1.35744	-1.83233
3	Mrpl27	0	0.829213	1.85121	1.86881	1.28991	2.03239	0.0644461	-0.270487	-0.0486876	-0.757059	-0.160419
3	Mrpl43	0	0.528967	1.96432	2.2339	1.49344	1.55003	-0.264445	-0.247793	-0.401412	-0.0562705	-0.110202
3	Mrps6	0	0.633628	0.857195	1.22667	2.04473	3.62977	1.54322	0.655835	0.523738	0.821055	0.460001
3	Msn	0	0.254672	0.919936	1.31004	2.5282	2.96854	2.67639	2.53202	1.27039	1.52835	1.1205
3	Msr1	0	0.30513	0.762661	1.19386	2.3918	2.7336	2.55786	2.21532	1.37908	2.00122	0.269338
3	Mt1	0	0.412818	0.955123	0.791119	3.14991	2.0178	1.00974	0.348401	0.383135	0.16687	-0.365628
3	Mt2	0	0.548607	1.18343	1.16139	3.48614	2.08799	0.893936	0.658906	0.537833	0.278574	0.284723
3	Mthfd2	0	0.357773	2.14957	2.18128	3.55439	1.66645	0.477274	1.68756	1.25624	1.81598	1.23179
3	Mtmr11	0	-0.202427	0.368048	0.943542	2.07972	2.80405	1.26634	0.404348	0.114255	0.312335	-0.437596
3	Muc1	0	0.357894	0.718816	1.41036	2.26326	1.34608	1.36804	0.691967	-0.223919	-0.19208	-1.31985

3	Mvp	0	0.0348231	0.406203	0.864553	2.61545	2.79441	2.08255	2.30476	1.21331	1.62841	1.04803
3	Myc	0	1.48859	2.07986	2.30585	2.98934	2.14341	2.20859	1.92647	0.886278	0.872181	-0.138168
3	Myd88	0	0.248929	1.1332	1.56089	2.67354	2.90098	2.15116	2.28997	1.00414	1.12719	0.324943
3	Myo1c	0	-0.12743	0.829229	1.5412	2.40348	1.99771	1.85829	1.2408	-0.0280124	0.389059	-0.55157
3	Nab2	0	0.568024	1.3833	2.57602	0.0058375	-1.12693	-0.562596	-0.119309	-0.149845	0.109765	0.752744
3	Nde1	0	0.889615	2.26565	3.10948	1.67767	3.24686	3.02722	2.04033	1.79062	1.40246	1.29885
3	Nedd9	0	1.54796	2.6803	2.87646	1.95382	-0.140075	1.40377	1.42419	0.736704	1.38869	0.296526
3	Nfil3	0	2.13705	2.28475	2.4644	1.7951	0.96846	-0.26328	0.338876	0.407476	1.02446	0.052245
3	Nfkb2	0	1.13351	1.08547	2.06867	2.4825	2.9575	2.80922	3.4505	1.79041	1.86279	1.26059
3	Nfkbiz	0	1.48416	2.05117	2.55709	1.935	0.563506	0.7848	1.17094	-0.12533	0.217371	-0.51205
3	Nhlh2	0	1.56492	1.74426	2.42953	1.9864	2.4399	0.329329	-0.106354	1.09744	2.21768	2.53931
3	Nip7	0	0.590122	2.05082	2.36973	1.68043	0.844427	-0.320879	-0.271648	-0.214072	-0.169709	0.0404934
3	Nmbr	0	-0.402937	-0.708553	-0.288595	0.193458	-1.38486	-2.90272	-2.22493	-2.02175	-1.43542	-1.65658
3	Nmrk1	0	0.728411	2.44242	2.72643	1.76089	1.17738	0.0366809	0.226783	0.0412865	0.131837	0.580953
3	Nop58	0	0.60417	1.01884	1.5714	2.4848	3.07256	0.241591	-0.0726987	0.507408	0.970721	0.776937
3	Nos3	0	0.155944	0.509271	1.28483	3.45296	1.60941	1.67758	1.00601	0.883514	0.220043	0.295014
3	Nostrin	0	2.83498	2.84044	1.38357	1.07796	2.20509	0.0484903	0.562913	0.637567	1.69922	1.41087
3	Nphs1	0	-0.511133	-0.159991	1.02039	-0.234409	-0.775202	-1.53932	-1.83025	-1.89532	-1.51985	-2.20439
3	Npm3	0	-0.177633	0.569767	0.747146	2.21663	3.10929	0.828842	0.484488	0.421241	0.494215	-0.0203108
3	Npr1	0	1.90578	1.89061	2.43034	2.7869	4.19134	2.56613	2.73118	1.88416	2.40745	1.91789
3	Nptx2	0	0.880519	1.06764	0.941782	0.474157	-0.740095	-1.37085	-1.71977	-0.846506	-1.22438	-0.38932
3	Nrap	0	-0.075598	1.50133	1.44001	1.82571	2.52004	2.66395	2.47655	0.436186	0.520522	1.26553
3	Nufip1	0	-0.326677	0.419146	0.669932	0.811372	0.242658	-0.203558	-0.360691	-0.228984	0.235399	3.17113
3	Nup43	0	1.28392	0.818163	1.8308	2.22956	3.5011	2.29107	0.693045	1.05745	1.55216	2.63735
3	Nup98	0	1.27253	2.14428	2.79375	2.54284	-0.375211	0.701536	1.17221	0.691168	0.772325	1.58522
3	Odc1	0	0.70145	1.39199	1.56433	3.51649	2.30137	0.455918	0.869697	0.528194	0.719007	0.715686
3	Oip5	0	1.39163	2.5446	2.57142	2.12442	2.69781	1.41391	0.900051	0.280109	0.441832	0.534659
3	Olfr613	0	1.12406	1.39507	1.02795	1.26695	1.08763	-0.432584	0.121621	-1.79863	0.110752	-0.668658
3	Olfr856-ps1	0	0.738587	0.171361	-0.0352019	0.535945	0.520766	-1.36643	-1.29988	-1.83489	-1.1361	-1.86285
3	Osgin1	0	1.21216	1.08021	1.41734	3.35777	1.55147	1.28376	1.16293	1.24927	-0.108855	-0.262295
3	Osmr	0	0.438856	2.27882	2.51965	3.28339	2.33929	2.45714	2.60834	1.68737	1.77986	1.02226
3	P2ry2	0	1.36321	0.837658	1.49053	2.86512	3.12963	1.93882	1.88711	1.7237	1.74433	-0.0295564
3	Pappa	0	0.929165	1.05106	1.71205	2.37096	0.572768	-1.10495	0.538203	-0.463099	0.0020273	-0.232016
3	Pbld1	0	0.469133	2.12049	2.13855	1.48503	0.751663	-0.537461	-0.488103	-0.519044	-0.047074	0.36145
3	Pcdhgb8	0	1.8054	1.20518	1.57097	2.45351	2.98164	0.258604	0.452517	-0.158743	1.00812	1.17328
3	Pcolce2	0	1.19714	1.68145	2.34517	0.547316	3.44838	1.02432	1.31896	0.391287	1.43862	2.3741
3	Pdk4	0	2.32865	3.14015	2.28395	1.60746	-0.098171	1.87293	1.03448	0.610756	1.22254	1.67557
3	Pdpn	0	0.331053	1.13702	1.18104	2.59113	3.11619	2.4068	2.6513	1.84842	1.81684	1.03606

3	Pecam1	0	0.335287	1.88369	2.82066	3.07919	1.96544	2.19539	1.55095	1.06797	0.77808	0.72639
3	Pgf	0	1.03635	1.21239	1.69124	1.3306	3.41792	2.52202	1.25395	0.126688	0.933585	0.530387
3	Pglyrp1	0	1.58789	1.98604	2.09618	1.54625	1.27207	-0.17832	0.125101	0.0932796	-0.728743	-0.0509064
3	Pgm1	0	0.809175	1.34854	2.19927	2.4174	3.39002	2.98329	2.31108	1.23832	1.53055	1.11036
3	Phf13	0	2.30067	1.84274	2.70803	0.609703	0.219103	0.325678	0.561953	-0.283756	1.45787	1.65466
3	Piezo1	0	0.329297	0.800076	1.00788	2.34022	2.28465	2.69552	1.83111	0.388139	0.942906	-0.147796
3	Pik3r5	0	-0.205463	1.05465	1.09262	1.47078	2.59011	2.33805	2.43101	0.700591	1.61208	0.0524432
3	Pim1	0	1.55193	1.4731	1.90692	2.34345	2.43365	0.178554	1.66282	-0.205589	0.673828	-0.0922119
3	Pisd-ps1	0	-0.794784	-0.246314	-0.160496	0.439411	0.541969	-1.43574	-1.51661	-2.25023	-1.95802	-1.7784
3	Pla2g3	0	0.653971	1.25075	1.36875	0.724105	0.410031	0.256974	-1.56017	-1.12642	-0.99067	-0.832908
3	Pla2g4b	0	0.372112	1.74486	1.98402	1.71248	1.50739	-0.485728	0.0878056	-0.915171	0.310102	-0.102418
3	Plagl2	0	-0.426535	0.857985	2.64086	1.44623	1.96627	2.04367	2.14028	0.354298	1.0107	0.309309
3	Plat	0	1.79709	3.02119	3.00024	1.8126	1.32288	2.42681	1.85314	0.829597	1.71171	0.200762
3	Plaur	0	1.77287	2.18347	2.70586	2.8161	2.46233	1.77124	2.00939	0.423256	1.18775	0.231514
3	Plin4	0	1.58867	1.8492	2.11451	1.68499	-0.49682	1.02801	0.0366643	-0.260099	-0.26528	-0.0863519
3	Pmaip1	0	1.76306	2.92772	2.29518	2.89333	0.685762	0.729691	1.31155	0.69086	1.06622	0.40098
3	Pmch	0	1.53591	1.05427	3.05955	2.76442	1.88853	2.28152	0.817344	1.64834	2.81519	3.00983
3	Pnpla2	0	1.75643	1.94556	2.53221	1.40402	2.16363	1.70317	1.11182	0.549071	0.0203799	-0.502221
3	Pola2	0	0.629484	2.17712	2.44868	2.0485	1.82556	0.648403	0.0506008	-0.0566971	0.0232481	0.233347
3	Polr2l	0	0.207196	1.15355	1.46714	1.51502	1.67993	-0.432955	-0.844572	-0.751815	-0.67497	-0.4361
3	Pou4f1	0	2.10202	0.505178	1.82762	1.96517	2.419	1.59014	-0.0627675	1.96223	3.00351	2.11966
3	Ppp1r15a	0	2.13324	2.04461	1.78149	1.88005	0.515291	0.0025992	0.208434	-0.0129386	-0.079216	-0.40476
3	Ppp1r15b	0	0.530658	2.34401	3.39027	2.56583	1.59171	1.15589	1.28662	0.880517	0.828516	0.794038
3	Ppp2r1b	0	0.0041003	1.41451	1.70985	2.60308	1.29567	1.39144	0.634484	-0.108698	-0.0814251	-0.640407
3	Pramel4	0	1.90954	2.60539	2.64221	1.99006	2.19896	0.631655	0.0904127	1.00839	0.262647	1.02075
3	Prg4	0	-1.06225	2.20483	1.54825	2.18181	0.449153	1.23112	0.678629	0.50558	1.35442	-0.0581389
3	Prkx	0	0.9712	2.05988	2.55579	2.21186	0.689465	1.48798	1.26901	-0.10899	0.574395	-0.474414
3	Procr	0	0.314371	1.02175	1.48265	2.29731	2.3075	1.78065	1.32548	-0.173511	0.467408	-0.607368
3	Prorsd1	0	1.08183	2.68939	3.11177	2.66038	3.34069	1.78731	1.46023	1.1015	1.55938	1.73131
3	Prr11	0	0.887161	1.40947	1.74044	1.12196	2.46964	1.28271	0.12723	-0.383287	-0.393337	-0.542169
3	Ptbp1	0	0.435959	0.724829	1.72131	2.47663	2.92816	2.15241	1.97725	0.369268	1.02662	0.353892
3	Ptcra	0	0.851369	1.49869	2.24989	1.8788	1.15879	-0.359066	-0.666235	0.43286	0.229945	-0.588313
3	Ptges	0	1.64013	1.93198	2.77648	3.34022	2.92025	1.76919	2.22664	1.01096	1.31181	0.754208
3	Ptgs2	0	2.39727	1.55463	2.0379	1.49662	-0.491252	-0.219369	-0.05119	0.337001	0.0598633	0.371284
3	Ptx3	0	0.376772	1.79153	2.13506	3.49129	2.48793	2.08463	2.2045	2.06747	1.64315	0.80299
3	Pvr	0	0.699908	1.74078	2.28579	2.67661	1.70457	0.578965	0.222338	0.0148469	0.200189	-0.0415209
3	Pvrl4	0	0.562719	0.46107	1.70097	0.8651	2.12454	2.45534	2.55979	-0.440388	0.582359	0.938717
3	Pxdc1	0	0.306283	1.98823	1.91161	2.683	2.96327	2.65423	1.66878	0.863971	1.27387	0.733577

3	Pxmp4	0	0.198544	1.28926	2.33261	0.314728	0.903529	-0.434052	-0.368394	-0.517779	-0.977317	-0.848606
3	Rab11fip1	0	1.23614	2.50546	2.81201	2.76417	3.16874	3.07434	3.23166	1.47444	2.32653	2.69223
3	Rab20	0	0.969249	2.57258	2.32388	2.78738	3.4408	2.72536	3.30515	2.321	2.58545	2.06347
3	Rab31	0	0.836576	2.22121	2.3194	1.61792	2.11572	3.10844	2.89854	1.15723	0.936711	0.554831
3	Rab33b	0	0.418431	2.11116	2.4583	1.69985	0.821767	-0.26001	-0.33643	-0.147474	0.0353816	0.233379
3	Rabggta	0	-0.0893897	0.872555	1.66449	1.61368	1.15113	-0.772119	-0.777313	-0.815821	-0.806548	-0.484505
3	Rai14	0	0.60544	1.93007	1.60326	2.9858	0.972134	2.23339	2.3254	0.484557	0.694387	0.0970177
3	Rasip1	0	0.710579	1.13984	1.07864	2.64574	1.76028	0.431296	-0.526988	-0.475821	-0.435752	0.380291
3	Rassf1	0	2.37699	1.86602	2.51711	2.35419	0.34129	1.11381	1.05435	-0.47158	1.23668	0.878986
3	Rbbp8	0	0.618128	1.97133	1.5716	2.36462	3.57782	2.35464	2.87017	1.4464	2.04089	1.37552
3	Rdh10	0	0.901855	2.00533	2.60263	4.08707	2.16288	1.87407	2.01892	1.80075	1.99863	1.78757
3	Rel	0	1.40677	1.48282	2.06832	1.27419	0.785307	0.565653	2.08332	0.667848	0.435511	-1.40648
3	Rela	0	0.498244	0.390592	1.49715	2.33478	2.35617	2.55129	2.33978	0.713746	0.639239	0.184058
3	Relb	0	1.63614	1.61826	2.42112	1.52594	3.09174	2.15725	3.37248	1.63475	1.50313	0.43256
3	Rest	0	-0.323416	0.802802	1.63003	1.57851	2.84434	1.95206	2.58593	0.802525	1.55456	0.613818
3	Rft1	0	0.376863	2.08341	2.24605	1.33243	1.65524	-0.117788	0.042697	-0.38948	-0.204763	-0.164108
3	Rgs1	0	2.30557	2.21992	2.50966	2.30582	2.92895	2.82083	2.91694	2.24596	3.14213	0.548702
3	Rgs2	0	3.94944	2.06123	1.54018	0.870475	1.73069	1.24746	1.47332	1.35507	0.977642	0.688098
3	Rhag	0	0.379284	1.55359	1.52352	1.08622	0.312666	-0.732361	-0.194767	-0.765661	-1.43546	-0.833811
3	Rhoj	0	0.969343	1.66839	1.92021	3.64289	2.2542	1.89981	1.02861	0.586362	1.0541	0.633011
3	Ripk1	0	-0.0243264	1.55791	1.08531	1.99598	2.48787	2.56288	2.63223	0.764841	1.61144	0.379824
3	Ripply3	0	-0.0381242	1.60013	2.02395	1.49893	1.04075	-0.843731	-0.665228	-0.578359	-0.104244	0.137114
3	Rmi2	0	0.604567	1.69592	2.04581	1.52359	1.25777	-0.274733	-0.488582	-0.469111	-0.345933	-0.542705
3	Rn4.5s	0	0.925392	2.30335	2.6286	1.57002	1.10262	-0.271134	0.317198	-0.0048275	0.330322	-0.0984324
3	Rnf125	0	1.93509	3.06166	2.01751	3.80034	2.60893	1.38074	1.46977	1.32726	1.63721	1.65544
3	Rnf207	0	2.06761	0.752231	2.33041	0.774908	-0.250254	0.270584	-0.469062	-0.70164	0.0491837	-0.33292
3	Rnf225	0	0.445099	1.34746	1.88931	0.576831	-0.604061	-0.900292	0.243586	-0.386106	-0.472419	-1.58277
3	Rpl37rt	0	0.549843	2.10775	1.29151	0.112457	1.68016	-0.232647	-0.988564	-0.587008	-0.402328	-0.35865
3	Rplp2-ps1	0	0.678602	2.12427	2.39431	1.88026	1.07024	-0.284033	-0.12104	-0.259554	0.0403226	0.405655
3	Rrad	0	1.75679	2.69751	3.48133	0.83804	0.769258	0.86695	1.05059	0.624421	0.865626	1.31715
3	Rrnad1	0	0.237931	1.09458	1.58066	0.790787	0.473298	-0.691416	-1.11673	-1.08129	-1.04356	-1.2254
3	S100a9	0	1.67361	1.73579	2.5612	2.81431	2.58607	0.634396	2.64828	1.24634	2.16553	0.324863
3	Sap18	0	0.691055	2.02577	2.23779	1.72529	1.2844	-0.283431	-0.26079	-0.214232	-0.0939505	-0.127564
3	Sbno2	0	0.0804795	1.37034	1.49856	2.79907	2.33201	1.4648	1.39445	0.317541	0.326484	-0.216205
3	Scd3	0	0.785879	2.16741	2.27257	1.95505	0.738145	-0.110976	-0.216194	-0.291341	0.0169655	0.0994422
3	Scgb3a1	0	0.903102	1.19699	1.33869	2.4944	2.68213	1.59276	1.2501	-0.336492	-0.202875	0.609327
3	Sdc1	0	-0.579919	0.489649	0.778818	1.98654	2.67269	1.2539	1.71302	0.632861	1.3159	-0.309727
3	Sdcbp2	0	0.754002	0.735704	0.901279	2.6873	-0.618727	-0.717278	-0.412301	0.498183	-0.620641	-0.129721

3	Sele	0	1.17127	1.97126	3.36385	3.03633	1.98133	0.923442	1.53395	0.924102	0.705681	1.23768
3	Selp	0	1.35968	2.07099	2.56439	2.60104	3.18213	1.90819	2.06406	1.5323	1.60076	0
3	Sema3g	0	0.712319	1.12821	0.689118	3.24026	-0.0354156	1.22953	0.146772	-0.387131	-0.0382043	0.847827
3	Serinc5	0	-0.0881799	-0.0289436	0.926066	3.09611	1.68269	1.56867	2.04615	0.960079	0.807528	0.333762
3	Serpine1	0	1.41747	1.70725	1.89416	2.58686	3.00261	1.76313	1.1101	0.575495	0.446452	-0.012156
3	Serpinh1	0	0.675401	0.822754	1.32216	2.79008	2.68009	2.44846	2.38936	1.10081	1.42895	0.193834
3	Sertad1	0	2.02659	1.60943	0.869407	1.50675	1.9913	-0.428063	-0.0913704	-0.398494	-0.520456	0.652664
3	Sesn2	0	1.31813	0.327348	1.10772	3.06608	-0.581932	0.697394	0.309931	-0.227693	-0.123735	0.472906
3	Setd8	0	0.200649	0.086536	0.984481	2.55357	0.704374	0.258841	-0.167001	-1.01708	-0.667277	-0.880883
3	Sgk3	0	0.67022	2.2944	3.70728	1.5661	1.92363	2.37846	2.0718	1.34593	1.56929	0.765528
3	Sgms2	0	1.56292	3.2645	2.87127	3.34722	0.915662	2.5331	2.4073	1.96365	2.40189	2.21962
3	Sh2b2	0	0.728375	1.83909	-0.144447	1.99313	1.41722	1.14331	1.69209	-0.009809	-0.641504	-0.655784
3	Sh3bgr	0	0.614935	1.19728	1.16327	2.01744	3.51577	0.340954	0.722492	1.24617	2.24318	1.82177
3	She	0	0.567799	0.192953	1.68474	3.17589	2.82962	2.00716	1.46003	1.01253	1.22403	1.67417
3	Shisa3	0	0.913158	-0.0786815	0.458927	0.790488	1.69264	-0.80386	-1.26536	-1.70205	-0.0634099	-0.591115
3	Sik1	0	2.04913	1.75859	1.85809	1.0287	0.753465	-0.874567	-0.0151584	-0.666226	1.06048	1.07364
3	Ska3	0	-0.52014	0.87166	1.2514	0.446499	2.2523	0.867004	-0.107538	-1.16913	-0.922334	0.107758
3	Slamf8	0	-0.345431	0.570462	1.54203	1.38115	1.596	0.637309	2.17851	1.40009	1.43054	-1.15102
3	Slc10a1	0	0.607397	0.690256	1.059	0.648879	0.510709	-0.48922	-1.21704	-1.12035	-1.52755	-1.60812
3	Slc14a1	0	-0.466608	0.308537	0.394194	2.56857	2.00487	2.1135	2.06808	1.09583	1.01653	0.570019
3	Slc16a14	0	-0.553058	-0.476043	-0.0396552	0.0565464	-1.70443	-2.50869	-0.614747	-1.83415	-1.89439	-2.47283
3	Slc22a4	0	1.29917	1.6375	2.40778	3.1682	3.59452	2.91101	2.68886	1.83199	2.64007	2.41806
3	Slc23a1	0	0.454894	1.67563	2.00358	1.35178	1.0775	-0.155668	-0.613909	-0.608938	-0.512584	-0.648177
3	Slc25a13	0	1.09848	2.79557	3.08751	1.61682	3.33816	2.4958	2.09833	2.11968	1.3164	1.12098
3	Slc25a24	0	-0.0369442	1.19776	1.52255	1.77862	2.91765	2.26238	1.57597	0.674756	2.12028	0.0527638
3	Slc25a42	0	0.211435	0.0297767	0.655867	-0.14035	-1.22844	-1.97805	-1.49897	-1.83034	-1.77945	-1.82153
3	Slc35g1	0	0.762805	1.59541	2.91358	1.65043	1.25739	2.88184	2.12965	0.171403	1.79273	0.4861
3	Slc39a14	0	0.486495	0.420495	1.0529	3.08512	-0.842351	-0.0143231	0.342167	-0.119413	0.41427	-0.0680929
3	Slc3a2	0	0.490897	0.706264	1.11439	3.52949	1.93964	1.59443	2.08908	0.505114	0.803633	0.696928
3	Slc4a11	0	1.70719	1.19024	2.80995	1.86588	1.18956	1.03052	0.525869	-0.79942	0.457175	0.156134
3	Slc5a3	0	1.24767	2.85755	2.70096	3.14288	1.24767	1.54759	0.705552	0.546312	1.51126	1.18582
3	Slc7a1	0	0.676317	1.48251	1.34087	2.66666	-0.39249	-0.784735	0.0033037	0.128311	-0.193934	0.285083
3	Slfn10-ps	0	0.53022	0.815562	0.987574	2.19833	2.90454	2.1316	1.93348	0.753057	1.51271	-0.32262
3	Slfn3	0	-1.04343	-0.602166	0.893798	1.76997	1.24903	0.613096	1.99699	1.17146	0.316251	-0.546399
3	Slfn5	0	0.338469	1.52954	1.77567	1.63761	2.90851	2.07481	2.94883	0.547296	1.29926	0.48695
3	Smad6	0	0.0663232	0.608064	0.681367	3.52805	0.845491	1.90741	1.63979	1.05276	1.0851	0.465383
3	Smim3	0	1.11428	1.42414	1.37834	1.55856	1.51311	0.281017	0.184174	-0.421761	-1.23317	-0.772555
3	Snhg1	0	0.979184	1.66276	2.25981	3.2521	1.87416	0.733476	0.115717	0.464543	0.771156	0.555073

3	Snhg12	0	0.326496	1.73142	2.09031	2.61746	1.91311	0.17751	0.360995	0.167015	0.671326	-0.273082
3	Snhg17	0	-0.133192	0.790503	1.42356	1.90576	0.66173	-1.09612	-0.844678	-0.427763	-0.174744	-1.10602
3	Snhg5	0	1.06805	1.71	2.36767	3.16854	2.62054	0.492365	0.621572	0.971321	0.691828	1.80758
3	Snhg6	0	0.65763	1.24149	1.73083	1.47357	2.88157	0.319789	-0.220466	-0.129059	0.126341	-0.188744
3	Snord22	0	0.100709	1.74394	1.92035	1.67274	1.84855	0.479223	-0.374885	-0.267184	-0.713954	0.169031
3	Snx18	0	-0.0695028	1.39771	2.01091	1.81691	2.45822	2.75045	2.52841	1.1973	1.20609	0.377828
3	Soat2	0	0.577768	1.7616	2.04172	1.6542	1.67484	-0.0420829	-0.266566	-0.30814	-0.527745	-0.23171
3	Socs3	0	1.09583	1.47499	1.96423	2.73283	2.34485	1.14451	1.28418	0.579234	0.390057	-0.598359
3	Sox7	0	2.66108	3.30594	3.53966	2.40112	1.816	2.27304	1.51247	1.32961	1.48103	1.48557
3	Spc24	0	0.417907	0.750419	0.888263	0.444676	1.9437	-0.205693	-0.795909	-1.39404	-0.882519	-1.04918
3	Sphk1	0	-0.497576	0.0372254	0.0690824	3.33123	0.188083	0.176144	0.824715	0.452425	0.394638	0.356077
3	Spry1	0	0.0902235	1.13051	2.15872	2.99254	2.86993	1.57665	1.10738	1.05955	0.791619	0.729984
3	Spry4	0	-0.489837	2.18174	2.76575	1.84898	0.801385	0.494216	0.0842802	0.45237	1.25448	1.24249
3	Spsb1	0	1.55213	1.69746	1.54302	1.89873	2.70764	2.14536	0.800479	-0.0638296	0.0013393	0.0649197
3	Spty2d1	0	1.64928	2.47431	2.93867	1.73058	-0.478779	0.635176	1.66504	1.24878	1.72876	1.58809
3	Srgn	0	0.454554	0.856206	1.65298	2.47633	3.21712	2.08712	2.42711	1.33529	1.83712	0.50818
3	Srp54c	0	1.86008	2.10784	1.97557	0	2.10636	0	1.7874	0	0.470086	0
3	Srxn1	0	0.736732	1.23218	1.92149	2.25812	0.126303	-0.471601	-0.373226	-0.44596	-0.519336	-0.123033
3	St8sia5	0	-0.206352	-0.278034	-0.260698	-0.446532	-0.855484	-1.7076	-1.72008	-1.16431	-3.2612	-1.93795
3	Stat3	0	0.561187	1.34964	1.57445	3.14908	2.34703	1.85306	1.87701	0.80158	0.641373	-0.0615665
3	Stc2	0	-0.0909774	1.45062	2.05038	1.78583	-0.976075	-0.669189	-0.363318	0.0021881	0.425008	0.0513204
3	Steap1	0	0.138543	1.45117	1.70824	2.87047	2.96769	2.19851	2.10198	2.38334	2.29384	2.57289
3	Stk40	0	0.155639	1.06094	1.71188	1.80149	1.01375	-0.80226	-0.693379	-0.935548	-0.535746	-0.101877
3	Stra6	0	-0.21596	0.0599765	1.1324	2.95802	1.29086	0.58275	0.452783	-0.695615	-0.0678916	0.0357015
3	Stx11	0	2.18239	2.67002	3.25678	2.98645	3.74444	2.73762	3.12067	2.53801	3.03495	1.75306
3	Stxbp2	0	0.552855	2.12327	3.07767	1.84827	1.70266	1.13486	0.943798	0.135535	0.520231	-0.0482135
3	Sult1a1	0	0.955658	1.25771	2.30793	0.893483	-0.808915	1.48049	-0.272926	-0.73934	0.118994	-0.289966
3	Swap70	0	0.745536	2.10499	2.10815	2.97631	2.41388	2.97915	3.29534	1.34415	1.53835	1.78943
3	Syde1	0	-0.490586	0.216513	0.694869	2.31513	2.89278	1.63796	1.21645	0.779947	1.18063	0.52649
3	Synpo2	0	-0.448806	0.149105	0.719581	-0.367996	-1.31328	-1.18009	-1.14618	-1.99754	-2.06046	-2.35587
3	Synpo2l	0	0.263377	1.34689	1.65032	0.352212	1.77981	-0.229001	-1.04868	-0.348013	-1.08999	-0.358448
3	Synrg	0	0.454817	1.77654	2.40858	1.77931	-0.194729	-0.261104	-0.195813	-0.277438	-0.167122	0.0037224
3	Tagln2	0	0.421489	0.875119	1.18361	2.29732	3.34892	2.20966	1.66116	0.533141	1.11403	0.543695
3	Tapbpl	0	0.836632	2.64067	3.45373	1.93797	1.31055	1.21117	1.72059	0.706823	0.706211	0.643181
3	Tc2n	0	1.07032	2.45175	2.38782	2.38146	1.75449	0.529775	0.179307	0.0877905	0.186379	0.632812
3	Tcaf2	0	0.463503	1.6216	2.52015	2.47954	3.06969	3.06446	2.75066	2.25551	2.17771	2.32568
3	Tead1	0	0.550359	2.68335	3.24374	2.53387	1.86197	2.19417	1.93185	0.772456	1.4972	0.967355
3	Tes	0	0.618569	1.07901	1.38285	1.92693	3.24722	2.44177	2.16582	0.380496	1.43231	0.434794

3	Tex15	0	0.0750355	1.4537	2.0414	3.49962	1.83322	0.883116	0.400645	1.14882	1.27166	0.89341
3	Tfcp2l1	0	1.57335	3.01004	3.70652	1.83465	1.57923	2.86443	2.54549	1.96696	1.27074	1.67819
3	Tgm1	0	-0.0162094	0.935586	1.25005	2.6858	2.83263	2.34326	2.26624	1.88541	1.74361	0.87532
3	Tgm2	0	0.411689	1.20366	1.61499	2.76474	3.05163	2.31614	1.99672	0.89361	1.549	0.412856
3	Th	0	1.3858	0.549704	0.48534	0.891818	2.1672	-0.769912	-1.03188	-0.61847	-0.286058	-0.59834
3	Thbd	0	0.978841	2.11803	2.76701	2.7745	0.622636	2.02085	2.41611	1.26593	2.50089	0.446045
3	Thbs1	0	1.63581	1.40481	1.80956	2.4993	3.62994	3.14459	2.65812	1.72603	2.37158	1.21558
3	Themis	0	0.901902	1.93367	2.85185	2.2661	1.44307	0.480226	1.20229	0.605867	0.793439	-0.567268
3	Thoc6	0	0.973873	1.39686	0.906507	2.48061	2.84528	2.32614	1.57255	1.58131	1.23807	-0.454054
3	Timeless	0	0.268468	0.764439	1.0243	1.78867	2.79377	1.75066	0.986998	0.156069	0.113796	-0.700349
3	Timp1	0	0.23089	1.43582	1.55089	2.3352	2.74824	1.90403	1.791	1.15778	1.1378	-0.513523
3	Tinagl1	0	2.82994	2.13456	2.51953	1.80888	0.341538	0.972363	0.623927	0.502242	0.306361	0.4534
3	Tiparp	0	2.63896	3.32	2.81658	2.67774	1.74966	1.2842	0.996328	0.798381	1.86338	1.97103
3	Tirap	0	0.304479	1.71167	2.66438	1.78138	1.76709	0.871257	0.659129	0.0377863	0.261315	-0.631336
3	Tm4sf1	0	0.539644	0.902889	1.85857	2.98843	3.42651	2.10254	1.69402	1.23616	1.72587	1.29672
3	Tma16	0	0.772156	2.2471	1.7507	2.59663	0.54034	-0.0423038	-0.206023	0.0488973	0.174006	0.133319
3	Tmbim1	0	0.762806	1.6088	1.63541	3.25714	3.17753	2.63944	2.45479	1.29933	1.5968	1.38243
3	Tmco4	0	0.786977	1.79505	2.50302	2.79672	2.47877	2.88049	3.16498	1.5286	1.82316	0.932488
3	Tmem181c-ps	0	-0.414008	-0.341403	-0.0092236	-0.015086	0.623057	-1.81535	-1.88833	-1.94443	-2.28635	-0.781777
3	Tmem252	0	1.48657	2.11275	1.74386	2.34926	2.21156	1.20326	0.474343	0.0543669	0.448772	-0.483412
3	Tmem39a	0	0.589463	1.38629	2.44261	1.25528	1.22222	1.91772	1.04333	0.838185	0.96171	3.71093
3	Tmem69	0	0.475341	1.82026	2.32362	1.72419	1.09917	-0.460868	-0.249324	-0.305148	-0.155757	-0.0539245
3	Tmem88b	0	-0.331422	-0.2466	0.589774	2.76509	1.29913	1.12009	1.17759	0.716964	1.08365	2.47583
3	Tmod3	0	0.76085	1.71058	1.9507	2.50135	2.53804	3.2267	2.83757	1.51304	1.7934	0.603972
3	Tnc	0	0.275083	0.805491	0.984989	2.59427	2.84025	0.969723	1.00028	0.0883374	0.574731	-0.269959
3	Tnfaip6	0	2.39096	2.42254	3.68929	2.70077	1.74438	1.16706	2.5918	1.82134	1.58205	0.957454
3	Tnfrsf10b	0	0.806326	0.206191	0.224167	0.343885	1.11394	-1.25883	-0.732077	-1.85794	-1.62532	-0.98652
3	Tnfrsf12a	0	1.28371	1.53876	2.08886	2.70833	2.14756	0.611852	0.608414	-0.146244	0.0781813	0.139161
3	Tnfrsf1a	0	0.325273	1.10412	1.23278	2.4562	2.96458	2.34973	2.30499	1.00847	1.12203	0.277369
3	Tnnc1	0	0.660933	0.200705	0.669712	0.478409	0.718858	-1.15665	-1.77336	-0.891006	-2.00135	-0.375086
3	Tnnt1	0	0.244955	0.172754	0.375461	-0.75268	0.903598	-0.974791	-1.82527	-1.46401	-2.00759	-1.45243
3	Tor4a	0	0.653118	2.19658	2.58759	2.15243	1.66251	0.351548	0.141776	-0.0486719	0.318589	0.30636
3	Tpm4	0	1.77525	2.3219	2.2082	2.93755	3.4772	2.83388	2.16494	1.01812	1.5882	1.03989
3	Tppp3	0	2.14643	2.57931	3.10996	1.43891	3.52992	1.45136	1.02713	1.35291	1.66325	1.28988
3	Trh	0	2.242	1.50064	1.3988	1.90561	3.31588	0.776054	0.468625	0.459815	2.51177	1.69589
3	Trib1	0	0.395703	1.39362	1.94226	2.43637	2.35076	0.351899	0.121259	-0.26974	0.105009	0.372743
3	Trim16	0	2.08664	2.84849	2.70501	2.54383	1.2039	1.46176	0.854318	0.151455	1.53205	0.639475
3	Trim72	0	0.230299	0.623837	1.3476	0.741792	0.647692	0.377542	-0.0118427	-0.821079	-2.40479	-0.42504

3	Trip10	0	1.84437	3.10743	3.30162	2.56011	2.53583	3.08231	2.49587	0.91594	2.04472	1.70095
3	Trmt10c	0	0.335414	1.70679	3.12476	2.83428	0.416923	0.925708	0.660522	0.958819	1.61989	1.24632
3	TrnH	0	-1.66594	-1.25144	0.0838964	0.0122834	-0.522733	-1.90313	-2.71618	-2.40454	-1.66613	-1.78
3	TrnN	0	-0.538265	-0.0077574	0.278346	0.153099	0.802755	-1.60737	-2.36746	-1.72103	-1.23508	-0.171693
3	TrnP	0	-0.517763	-0.0692723	0.279157	0.425313	0.363919	-1.47812	-2.50378	-1.83697	-1.37439	-0.302317
3	Trnp1	0	0.206908	0.0418448	0.536039	-0.29582	1.14379	-1.46	-2.18582	-0.926164	-1.33663	-1.20318
3	TrnV	0	-0.429408	0.460617	0.101002	0.347949	0.204649	-1.62361	-2.21004	-1.73476	-1.61489	-1.40302
3	TrnW	0	-0.577635	-0.535954	-0.292493	-0.289175	0.282092	-2.01616	-2.81061	-1.79804	-1.7503	-1.68273
3	TrnY	0	-0.250723	-0.142737	0.82777	1.18364	0.88937	-1.02845	-2.28104	-0.449471	-0.827248	-0.805401
3	Tspan15	0	1.29759	2.59957	3.3748	2.51974	2.44926	1.03726	1.41568	0.981679	0.77269	1.13638
3	Ttf1	0	0.774719	2.22792	2.87316	2.12367	0.902595	0.555129	0.505233	-0.216841	0.503394	0.285661
3	Tubb6	0	1.22293	1.69015	2.20241	2.85294	3.17009	1.93968	1.6941	0.457473	1.09646	0.474543
3	Txnrd1	0	-0.325072	0.886871	1.91098	3.44827	0.937401	1.00545	1.10059	0.564329	0.868028	0.568395
3	Ubc	0	0.368306	1.25177	2.187	2.20727	-0.582944	0.429395	0.689881	-0.16302	-0.187782	-0.631697
3	Ucn2	0	0.473833	0.736157	0.856339	2.08353	1.60759	0.361212	-0.086888	-0.725444	-1.50987	0.0980297
3	Upp1	0	0.893014	1.76917	2.02096	3.4357	3.12833	2.65509	2.24338	1.38309	2.62187	1.63244
3	Uspl1	0	0.0991281	1.25622	2.4026	1.4148	-1.11946	-0.419785	-0.367547	-0.0403289	0.151927	-0.118819
3	Utp14b	0	2.80981	3.34902	2.97374	1.50905	1.17691	1.18712	0.932172	1.60278	2.11937	2.27137
3	Veph1	0	0.500689	1.58153	1.88295	0.924913	0.899367	-0.454541	-0.833087	-1.02469	-0.659964	-0.418474
3	Vipr2	0	0.550118	-0.0781966	0.493189	0.3738	0.877404	-1.49042	-1.32525	-0.970022	-2.09678	-1.15667
3	Vmn1r58	0	1.06169	0.865978	0.9692	0.56889	1.96599	-0.577105	-0.810062	-0.749118	-1.07854	-0.700182
3	Vmn2r55	0	0.598776	0.314326	0.284523	0.245658	1.47082	-0.906721	-0.72552	-1.35256	-1.21097	-1.86993
3	Vmn2r-ps129	0	0.0024225	1.4033	1.57266	1.40174	1.04892	-0.643377	-0.674928	-1.04831	-0.538611	-0.726349
3	Wdfy1	0	-0.46721	-0.051321	0.0651853	1.40213	0.12439	-1.16535	-1.54228	-1.72062	-1.56283	-1.57787
3	Wdr34	0	0.627909	1.95202	2.16445	1.48579	1.3074	-0.589229	-0.0754414	-0.188409	-0.192289	-0.390706
3	Wdr92	0	1.70199	2.87708	2.75758	2.50681	1.84382	0.650912	0.526157	0.740581	0.913734	0.686241
3	Wisp1	0	0.326768	0.94252	1.8879	1.14171	0.784009	-0.604309	-0.688586	-0.681254	-1.53389	-0.197046
3	Wnt4	0	-0.162677	0.252263	-0.0479803	-0.957746	0.0762544	-2.2644	-1.7505	-1.92585	-1.98246	-1.83349
3	Wnt9b	0	-0.339855	-0.383776	-0.161766	-0.148018	-0.457743	-1.59391	-2.2164	-1.81132	-2.89354	-1.65212
3	Wwtr1	0	0.331434	1.98976	2.11734	3.53881	2.25657	2.66876	2.10907	1.39314	2.06768	1.4154
3	Xaf1	0	0.510161	2.52922	2.89373	2.36132	1.6945	0.945858	1.18427	0.344404	0.437502	0.506449
3	Xcr1	0	1.75424	2.18181	2.35767	1.52875	2.0884	0.391907	1.29362	-0.196748	0.199204	-0.104414
3	Ybx3	0	0.358534	0.295617	0.915738	3.10739	2.84416	1.55927	1.06922	0.803305	1.03722	0.642316
3	Zc3h12a	0	0.634382	1.81525	2.19015	1.56287	1.23011	-0.209458	-0.205751	-0.255054	-0.258324	-0.660535
3	Zc3h12d	0	1.98933	2.09733	2.78844	2.51024	3.53757	3.1537	3.37744	1.74805	3.14607	2.25427
3	Zfand4	0	1.56484	1.7544	2.97672	2.76305	1.1151	2.82029	0.10882	1.13659	1.52118	1.64048
3	Zfp202	0	0.355894	2.01873	2.38488	1.8271	1.30352	0.0597603	-0.321067	-0.0904698	0.0465917	-0.124692
3	Zfp36	0	2.12719	1.23049	1.88743	2.65491	0.991038	1.16231	1.06394	-0.152358	0.109396	-0.417441

3	Zfp408	0	0.193256	1.50852	2.67589	0.966898	0.239816	-0.0228322	0.213165	-0.598948	-0.503987	-0.611671
3	Zfp488	0	1.36184	0.564929	1.12798	0.598573	1.34915	-0.427059	-0.270715	-1.80115	-0.538631	-0.837304
3	Zfp597	0	-0.07776	1.33504	2.21313	0.818309	-1.45576	-0.52208	-0.515443	-0.348919	0.0825865	0.470711
3	Zfp607	0	0.720034	2.14947	2.65568	2.1691	1.46702	0.134846	0.256139	-0.0235459	0.305204	0.283973
3	Zfp626	0	0.518931	1.57988	2.79543	2.55391	1.31776	-0.0221726	-0.0157162	0.262656	0.726184	0.890594
3	Zfp78	0	1.06956	1.84952	3.01243	2.33447	0.518738	-0.129234	0.0757928	0.726879	0.867453	1.05024
3	Zfp9	0	0.480447	1.62255	2.06012	0.916971	-1.53325	-0.48234	-0.170279	-0.168092	-0.208975	0.222811
3	Zfp935	0	0.733284	1.36501	1.97998	1.69105	1.02915	-0.748804	-0.599067	-0.631617	-0.49774	0.173088
3	Zic3	0	1.61713	1.35893	3.10495	1.47442	3.23801	2.49296	0.568653	1.59603	2.58018	1.90064
4	Sept1	0	0.251994	-0.491156	0.849221	0.669268	1.59688	1.14732	2.57794	1.81443	2.6208	0.909836
4	Sept2	0	0.141453	0.554192	1.29081	2.03015	2.16468	2.78173	3.02984	1.65745	2.02756	1.62306
4	Sept10	0	-0.154732	0.359333	0.566968	1.46866	2.51048	2.59462	2.40807	1.77246	1.53541	1.63065
4	1500015O10Rik	0	1.26423	1.08052	1.5897	1.96278	2.65429	2.645	2.72999	2.35554	3.63966	2.51885
4	1700003M02Rik	0	0.640993	0.520795	1.04431	1.07447	-0.11418	1.50106	1.75074	1.1828	3.0133	-0.606427
4	1700026D08Rik	0	0.163763	0.61361	0.794817	0.193418	2.20512	1.46266	1.87924	1.60154	2.72696	2.62658
4	1700040L02Rik	0	0.494242	-1.10726	0.727289	0.949242	0.786345	1.10121	1.16881	2.16189	2.24203	2.12296
4	1700084C01Rik	0	1.01731	0.877561	1.18919	1.96975	2.0711	3.24616	3.02609	2.56531	2.60348	2.0295
4	2010320M18Rik	0	0.398326	-0.143864	0.909728	0.769534	1.79855	2.30476	1.47026	2.74347	1.77781	2.47617
4	2610020H08Rik	0	1.05655	2.18613	1.591	2.08472	2.3986	3.25543	3.37459	1.28205	2.19305	1.0297
4	2610306M01Rik	0	0.863291	-0.0644491	-0.42735	-0.019383	1.01207	0.0939829	0.725317	0.990716	1.54263	3.11917
4	2810459M11Rik	0	-0.956657	-0.190569	-0.527478	0.564414	1.98518	1.63506	1.54842	1.26792	1.57311	1.04962
4	3110001I22Rik	0	0.466542	1.27397	1.94316	2.21474	0.66265	2.64622	0.433933	2.50791	2.26008	2.59626
4	4632428N05Rik	0	-0.254505	-0.357781	-0.447533	-0.230178	1.20582	2.00083	2.44494	0.99341	0.84725	0.0844334
4	4931406C07Rik	0	-0.923447	-0.329049	-0.0284274	-0.0555736	1.1799	2.5108	1.80649	0.490029	0.432714	0.0030079
4	4932438H23Rik	0	2.31768	1.8026	1.92594	3.1966	2.82542	2.94795	2.48266	2.68192	3.96576	2.40931
4	5031414D18Rik	0	0.749783	0.929767	0.861428	0.983951	1.86807	3.08435	3.09895	1.31124	0.473704	0.909741
4	5430427O19Rik	0	-0.383217	0.230545	0.12331	0.212908	2.07936	2.2676	2.29533	1.18164	1.61544	0.428194
4	9330117O12Rik	0	0.0311279	0.245962	-0.401051	-0.439881	-2.15997	0.741644	1.38957	1.35452	0.409045	0.910914
4	9630013A20Rik	0	0.265473	0.130522	0.668268	0.734034	-0.532031	2.20531	1.21236	0.626433	0.0235003	-1.75553
4	9930111J21Rik1	0	-0.618339	0.445541	0.373029	0.605037	1.27967	2.28275	2.8709	1.07116	1.34879	0.514163
4	9930111J21Rik2	0	-0.741383	-0.617842	-0.488179	-0.474807	0.0341162	0.913009	1.17338	-0.0495779	0.300833	-2.62765
4	A230001M10Rik	0	1.18579	1.09667	0.476648	-0.177223	-1.40646	-0.366348	1.65089	1.36681	1.37056	1.69208
4	A2m	0	0.119028	1.0524	1.59906	2.62928	2.44936	2.59447	2.72368	2.23618	2.10419	1.02204
4	AB124611	0	-0.0742138	0.35062	0.0840562	1.20153	2.2012	1.99768	2.36247	1.66458	1.88754	-0.0290018
4	Abca1	0	-0.147625	0.420865	0.411114	0.549472	1.08647	2.54511	2.8797	1.58864	1.70528	0.72038
4	Abca4	0	0.572951	1.3075	1.52954	1.8363	1.42104	2.62916	3.11993	2.56322	2.75568	2.75471
4	Abca8a	0	0.41586	0.164503	-0.189199	-0.49171	-0.904537	0.173697	1.00907	1.32332	1.74809	2.39734
4	Abca9	0	-0.57307	-0.348265	-0.778392	-1.31779	-0.695057	1.31916	1.99886	0.846727	0.595066	-0.0699784

4	Abcb1b	0	-0.234905	0.734069	0.804383	1.22018	1.68927	2.94639	2.58577	1.79882	1.81952	0.706246
4	Abcc4	0	0.973699	2.19943	2.71847	2.66894	1.53938	3.44514	3.25289	1.84834	2.37385	1.97695
4	Abcg1	0	-0.301686	-0.644844	-0.176118	-0.468116	0.344561	1.66446	2.62439	0.83614	1.1086	0.666992
4	Ace	0	0.32372	1.11387	1.74086	1.54098	1.39047	3.3443	2.48795	2.49846	2.36539	2.2997
4	Acss3	0	0.283686	1.2881	1.01449	0.338499	-1.47186	1.81693	1.95746	1.643	1.00231	1.37216
4	Adam12	0	-0.499917	-0.132645	-0.466759	0.555289	1.12085	2.22499	2.40914	0.324743	0.726071	-0.103285
4	Adam17	0	-0.333004	0.167578	0.323191	0.981289	1.68383	2.40495	2.66863	1.08006	0.866069	0.0321793
4	Adamts12	0	1.08718	0.294584	0.520118	1.18968	1.42769	3.01866	3.04432	1.49447	1.27738	0.526445
4	Adamts4	0	-0.0097039	-0.0262853	1.76112	3.04808	0.868522	1.90457	2.31185	1.0626	1.23323	1.1635
4	Adamtsl3	0	-0.805181	-0.52058	0.0034457	0.887642	0.913166	1.70574	2.18583	1.52462	1.85249	0.912132
4	Adcy7	0	-0.162154	0.286529	0.673508	1.11212	1.58116	2.61822	2.83218	1.18881	1.57411	0.335863
4	Adgb	0	0.570929	0.637198	0.224553	0.414423	2.16229	1.92927	2.42316	2.11794	2.24979	2.52868
4	Adgrg6	0	-0.324751	-0.176277	0.375765	1.51236	-0.246335	1.80941	2.52695	0.773645	0.07926	-0.475483
4	Adgrv1	0	-0.55588	1.45628	0.473959	1.69937	1.80611	1.97585	2.2582	1.549	2.46518	2.33525
4	Aebp1	0	0.0026131	0.169475	-0.19853	0.900733	1.7307	1.9871	2.5554	1.63057	2.28642	1.15764
4	AF357355	0	1.4246	2.34375	2.35166	1.51779	-1.07318	0.772657	1.58433	0.510237	1.14581	1.06172
4	Afap1l2	0	-0.897758	-0.146584	0.247829	1.2493	0.524701	2.25047	2.08709	1.20847	1.72161	0.323326
4	Agpat2	0	0.751914	1.4755	0.665765	2.37784	1.70112	2.60894	3.28308	2.36233	2.40279	1.09439
4	Ahnak	0	0.340348	2.40778	2.12848	2.48527	1.55539	2.73492	3.32763	1.85937	2.21342	1.2836
4	AI427809	0	-0.533757	-0.362351	-0.378162	0.532152	1.1048	2.04108	2.26083	1.38031	1.59353	0.997484
4	AI607873	0	0.831677	1.2289	1.30409	2.02223	2.57183	2.91029	3.04001	1.837	2.30216	0.485852
4	Aim1	0	0.201736	1.64273	0.963721	1.52626	2.81146	1.87853	3.12927	1.01112	1.96348	0.583016
4	Ak7	0	0.658631	0.286843	0.908385	0.815036	1.83655	2.15062	2.04098	2.29569	3.24441	2.00202
4	Alas2	0	-0.759028	-0.894986	-1.94326	0.273905	-0.234275	0.212029	1.86052	0.424605	0.100723	-1.20191
4	Alx4	0	0.806187	1.07502	1.52221	1.73823	3.01673	1.93796	2.63017	1.3863	3.47526	1.89327
4	Ampd3	0	-1.13065	0.563135	0.583914	2.70602	0.355939	1.64127	1.60681	0.315278	0.343609	0.669995
4	Angpt1	0	0.247304	0.488864	0.640614	0.914192	0.643717	2.21074	2.84855	2.28975	2.45099	1.34571
4	Angptl2	0	-0.245553	-0.473808	-0.0654588	0.424373	1.80351	1.87092	2.63578	1.04871	1.19438	0.953835
4	Ankrd44	0	-0.761317	-0.616941	-0.446026	-0.197766	0.0440225	1.84622	1.64183	0.61676	0.727985	1.97672
4	Ankrd55	0	0.0002526	0.905601	0.234512	0.725646	-0.212468	-0.0150026	1.41483	1.18116	2.69519	2.41447
4	Ano1	0	-0.160998	-0.411996	0.637749	1.79751	0.723194	2.1526	1.9924	0.830379	2.4734	1.57935
4	Ano2	0	-1.49096	-1.2115	-1.68286	-1.42592	-2.6642	-0.262154	-0.0021838	0.0323045	0.161196	0.45291
4	Anpep	0	-0.250702	-0.395443	-0.430665	0.14274	1.06348	1.71283	2.25024	1.07894	2.05719	0.172125
4	Antxr1	0	0.0778769	0.918941	0.907164	1.37389	1.49502	2.53086	3.20216	2.02112	2.34309	1.78704
4	Antxr2	0	-0.275994	0.408806	0.118039	0.743384	1.85407	2.08061	2.48253	1.42669	1.97988	0.0286692
4	Anxa1	0	-0.140405	0.441929	0.604386	0.845809	1.69306	1.63007	2.21414	1.43696	3.24832	1.21141
4	Anxa3	0	0.983215	0.798798	1.0158	1.80122	2.7015	3.13864	3.00217	1.95973	1.95154	1.05633
4	Anxa4	0	-0.255917	0.0958899	0.117913	0.569155	1.84077	2.20181	2.5242	1.41601	1.99161	0.851389

4	Anxa5	0	0.357593	0.11474	0.362902	0.704318	2.36597	2.33121	2.57802	1.65648	2.21137	1.20674
4	Aoah	0	0.103937	-0.814332	-0.495288	0.433269	1.16747	1.47535	2.61795	1.29424	1.40432	0.579135
4	Aoc3	0	0.894052	0.502943	0.783283	0.668618	1.41558	2.13332	2.82477	1.87051	2.78297	0.162863
4	Aox3	0	-0.600068	-0.510917	0.403554	0.0206909	0.785909	1.42756	2.76602	1.13186	1.50867	1.11154
4	Apobr	0	0.0578739	0.770177	0.651599	1.61922	2.53694	2.62895	2.65017	1.28797	1.94006	0.625379
4	Apoc1	0	-0.169345	-0.808388	-0.604486	-0.119965	1.03608	1.77667	2.06448	1.45323	1.27263	0.125114
4	Apod	0	0.368905	0.557776	0.605305	1.46626	2.71467	2.87832	2.4503	1.72346	1.97261	0.963631
4	Apoe	0	0.0208286	-0.129153	-0.176577	-0.302785	1.13908	2.20128	2.4149	1.55167	1.40882	0.482392
4	Apoo-ps	0	1.45499	1.09401	1.22187	1.20387	-0.220273	1.44565	1.9654	2.23077	2.78639	2.93652
4	Aqp1	0	1.75716	2.29868	2.09852	1.7632	3.34775	2.09087	3.48992	2.23393	3.23594	3.10633
4	Aqp4	0	0.074262	0.470823	0.0863443	0.392213	1.04074	2.07883	2.98325	1.89666	1.8991	0.902613
4	Arhgap18	0	-0.268257	0.249189	0.961303	0.886435	2.14476	2.66363	2.43762	1.00871	1.93597	0.732681
4	Arhgap28	0	-0.156867	0.720611	0.474232	2.52275	0.221431	1.76198	1.98028	0.799425	0.988374	-0.83862
4	Arhgap36	0	0.617557	0.34757	1.43213	1.88953	-0.597814	1.61119	1.30957	1.78464	2.93034	1.66856
4	Arhgef5	0	0.339416	-0.257876	0.465432	1.76202	-0.0726011	2.66648	2.05755	1.43455	1.93808	1.14416
4	Arhgef6	0	-0.113301	0.0500398	-0.160749	-0.107631	-0.634725	1.74163	2.44943	1.49128	1.38864	0.303292
4	Arl10	0	-0.224573	-0.51149	-1.6453	0.452858	-1.50042	0.64062	0.858589	1.05391	0.992018	1.19985
4	Arl5c	0	-0.639637	0.328773	1.46814	0.756802	1.56653	1.72489	2.87696	1.51358	0.637348	0.0715681
4	Armc3	0	1.64649	0.853502	0.724314	0.477149	2.49205	2.2691	2.40195	1.78288	2.98156	2.63145
4	Arsg	0	0.412485	0.610118	0.331478	-0.397629	0.837943	1.57291	2.67452	1.93023	1.6675	2.30959
4	Asah1	0	0.0592199	0.141411	0.502379	0.634459	1.07725	2.57766	3.05005	1.30111	1.48769	0.874833
4	Asb4	0	2.00834	1.74129	1.01717	0.6613	1.12567	0.281941	0.966174	1.55251	2.66839	3.32765
4	Ascl1	0	-1.53552	-0.951792	-0.43582	-1.19272	0.904197	1.4538	0.967776	0.76215	0.83837	0.285517
4	Atg4a	0	-0.542898	0.476468	1.59484	0.654003	1.93565	3.14465	1.43706	1.24508	1.60036	0.991535
4	Atp6v0d2	0	0.0404197	-0.523098	-0.0030794	0.0273157	0.687572	1.15669	2.26165	1.87728	2.28857	1.17559
4	Atp6v0e	0	0.412874	0.569578	1.02539	0.977225	2.80255	2.78678	2.62601	1.42207	1.8674	0.731042
4	Atp7a	0	0.551133	2.35952	2.22245	1.98034	2.58693	3.11177	3.21929	1.34736	2.29707	2.37486
4	AW551984	0	0.130305	0.3155	0.57639	0.949428	0.178649	1.32109	1.37136	2.13517	2.81838	2.4946
4	Axl	0	-0.135658	0.413333	0.358482	0.409667	1.27552	2.06777	3.11952	1.22574	0.994843	0.0036925
4	B2m	0	0.202482	0.349685	0.38541	0.511392	2.3751	2.25602	2.77448	1.71684	1.62787	0.662043
4	B3gnt9	0	1.07471	1.23629	0.987838	1.23131	1.90451	2.99332	2.93784	2.68494	2.5371	2.75052
4	B430306N03Rik	0	-0.643077	-0.407099	-0.001242	0.408658	1.64646	2.02801	2.39675	0.518297	1.23996	0.49761
4	Bace2	0	-0.126629	0.138965	-0.270822	0.630268	1.57031	1.32022	2.18674	1.67222	2.68827	0.644401
4	Baiap3	0	0.381489	-0.258848	-0.269181	0.0049384	0.700928	1.10487	1.42161	1.54439	2.6762	2.12722
4	BC026585	0	0.526669	-0.229218	0.677396	0.665748	2.21339	2.38454	2.78194	1.7591	1.66386	0.977587
4	BC147527	0	1.47187	1.50135	1.22841	1.13128	3.14774	2.82279	3.31289	2.01797	2.67169	1.96555
4	Bche	0	-0.326325	0.268071	-0.0516001	-0.603818	-1.1795	1.10626	1.65085	1.23209	1.72031	1.47811
4	Bcl10	0	0.330438	1.68818	2.72914	2.85955	0.914331	2.50566	2.535	1.39159	2.52557	2.1008

4	Bcl2a1a	0	-0.711342	0.952038	0.622225	1.82077	2.15119	2.0305	2.12751	1.7714	1.81298	0.207649
4	Bcl2a1b	0	0.486751	1.04094	1.28032	1.95482	2.80901	2.80888	2.78725	2.13955	2.16957	0.736249
4	Bcl2a1d	0	0.963153	-0.0580706	1.4902	2.11706	2.61636	2.61404	2.58669	2.0895	2.39707	1.25862
4	Bcl2l11	0	-0.136324	0.704491	0.848528	0.381728	1.61758	2.63883	2.95232	0.981753	0.732335	0.481115
4	Bco2	0	-0.0755996	0.187061	-0.460737	0.125958	1.48878	1.82609	2.58964	1.89542	0.544674	1.25721
4	Bicc1	0	-0.269563	0.0979642	0.382146	0.763322	1.87128	2.39273	2.46992	1.3291	1.56642	0.0739247
4	Birc3	0	1.11649	1.9741	2.71233	2.7953	1.43694	2.5475	3.58092	1.53232	2.49646	1.27673
4	Bmf	0	-0.273229	-0.461889	-0.623993	-0.365866	1.09743	1.90536	2.30898	1.08805	0.541369	-0.0199087
4	Bmp2k	0	-0.20965	0.7067	0.843248	1.71276	1.84314	2.91017	2.8093	1.40724	1.34515	0.952404
4	Bmp6	0	0.553554	1.70527	0.660722	0.365314	0.203662	2.1084	2.41868	1.88856	2.68176	2.28665
4	Bnc2	0	-0.641566	-0.0800102	-0.483074	0.864943	1.76787	0.820472	2.19728	1.4297	2.01853	1.09908
4	Brinp3	0	-0.895705	-2.23372	-2.80369	-0.872535	-1.91887	-1.03491	-0.858591	-0.0315991	-0.115501	0.279004
4	Bst2	0	0.149068	0.277513	0.182582	1.30779	2.38502	2.48467	2.66594	1.33584	1.77613	1.05847
4	Btk	0	-0.580529	0.0633084	0.151844	0.929221	1.99996	2.32261	2.31079	1.17034	1.39753	0.450809
4	Btla	0	2.24257	1.74381	2.05233	2.22165	0.539524	1.92069	3.33382	1.87205	3.38948	1.85687
4	C1qtnf1	0	-0.917345	-0.756847	-0.818534	0.424372	0.95322	1.43566	2.21925	0.52211	0.173673	1.12565
4	C1qtnf5	0	0.412751	0.229619	1.01684	0.72786	2.85537	2.50004	2.48503	1.3411	2.12113	1.66115
4	C1qtnf7	0	-0.427345	-0.197194	0.0101974	1.08381	1.84568	2.18426	1.68316	1.63903	2.21056	1.30831
4	C1ra	0	0.0696805	0.208624	0.42192	1.17445	1.63886	1.6135	2.99347	1.8419	2.49789	1.04154
4	C1s1	0	0.208157	0.498723	0.239142	1.20096	1.12406	1.74847	2.90619	2.21176	2.60305	1.19165
4	C2	0	-0.732876	-0.015272	-0.318183	-0.29165	0.0649859	0.829511	2.48981	1.19651	1.5396	1.44376
4	C3	0	0.315684	0.331707	0.638931	1.45091	1.69564	1.67072	2.80084	2.63158	2.61171	1.61183
4	C3ar1	0	0.352059	1.18297	1.32012	1.85667	2.67684	2.91313	2.63545	1.64293	1.89823	0.346061
4	C4b	0	0.119566	0.157206	0.364867	1.43212	2.01813	2.21939	2.64102	1.99866	2.16175	1.91365
4	C6	0	-1.05725	-0.0860641	-0.156612	-0.0570145	-1.05725	1.37184	1.90393	1.15962	1.44029	0.38554
4	Calcr	0	0.816147	0.562828	0.558768	1.54045	1.16421	0.162388	1.63829	1.20791	3.26044	2.60469
4	Calcrl	0	-0.253353	0.0033707	1.30358	2.19144	1.18183	2.49897	2.51823	1.50169	1.8517	1.67861
4	Calml4	0	0.800915	1.12643	1.3154	1.09792	2.97255	2.80316	2.42936	1.87876	2.98998	2.4172
4	Capza1	0	0.107273	1.03684	1.41836	2.33024	0.900451	2.8112	2.75285	1.21278	1.67281	0.27706
4	Car13	0	-0.656381	0.351448	1.20354	0.939707	1.14842	1.805	2.72765	1.54684	2.43458	1.21699
4	Car14	0	-0.174387	-0.0433726	0.260109	0.181686	-0.538981	1.62588	2.04967	1.62157	1.69365	2.03128
4	Card11	0	-0.273722	-0.0545449	0.0750351	-0.288618	1.95349	1.76281	2.3749	0.693182	1.77486	0.531024
4	Card6	0	-0.467349	0.199722	-0.873216	-0.933076	0.100526	1.68514	2.12362	0.757049	1.04722	1.03053
4	Cartpt	0	0.299159	-0.100214	0.107917	0.0846023	0.181883	-0.122324	0.114888	1.08677	2.09442	2.8692
4	Casp12	0	-0.0504213	0.437639	0.336477	1.2651	2.13378	2.38688	2.81338	1.82279	1.81508	1.64048
4	Casp4	0	0.200205	1.89563	1.67091	1.82091	2.78106	2.48914	2.94727	1.9404	2.26769	0.660871
4	Casq2	0	0.603636	-0.453534	-0.147594	0.424172	0.290627	2.40329	0.272035	0.193712	2.55915	1.34412
4	Cav1	0	-0.704506	-0.409011	0.641442	1.14456	1.81437	2.18604	2.1959	1.42343	1.44804	1.28255

4	Ccdc108	0	-0.255536	-0.549917	0.138152	0.0609011	0.00031	1.62375	1.33994	0.692913	1.91424	2.45804
4	Ccdc121	0	1.01236	0.851974	-0.167354	0.370851	1.30383	1.39791	1.75619	2.24297	2.97792	2.34486
4	Ccdc146	0	-0.117053	0.1395	-0.848694	-0.452499	1.35422	1.52609	1.16051	0.978304	2.34079	1.54257
4	Ccdc153	0	0.167414	0.212383	-0.202985	-0.213159	2.12104	1.2513	1.23166	1.60817	2.56279	1.77662
4	Ccdc170	0	0.466311	-0.231062	0.616789	0.812368	0.256239	1.34938	2.86124	2.01092	2.19706	1.72545
4	Ccdc180	0	0.665473	0.684144	-0.59093	-0.201518	0.812188	1.44281	1.6873	1.67564	2.64459	1.97598
4	Ccdc40	0	-0.624119	0.696102	0.134339	-0.0714515	1.25098	1.88395	1.94734	1.88235	2.36205	1.11521
4	Ccdc60	0	0.484853	1.01432	1.20503	2.01612	2.76729	1.86886	1.50731	2.69017	3.00829	2.67345
4	Ccdc69	0	-1.45877	0.475345	1.16426	0.592838	2.03561	1.79965	1.81317	1.33045	1.28962	0.789891
4	Ccdc81	0	2.62301	1.34608	2.13869	1.4698	3.2336	2.89883	2.46889	1.78144	3.35568	2.95872
4	Ccdc96	0	-0.907737	0.0587408	-1.43347	-0.137809	0.373591	0.94151	0.906174	0.79789	2.27703	0.819458
4	Ccl22	0	-0.0612828	0.544097	0.784918	1.39066	0.649315	0.0923179	2.92441	1.34765	1.05393	-0.899623
4	Ccl28	0	2.68064	2.67372	2.4895	1.37608	0.447423	3.01979	1.52836	1.91147	2.40983	2.80303
4	Ccl5	0	-0.0141852	-0.345312	0.258604	1.04021	1.92152	1.80499	2.79297	1.65369	1.66856	0.772225
4	Ccl6	0	0.769345	0.774814	0.945976	2.06616	2.5877	1.90641	3.29659	2.29866	2.42074	1.02037
4	Ccl8	0	0.681524	0	0	0.797782	2.26799	1.83948	2.68064	1.93272	2.17864	1.41112
4	Ccr5	0	-0.388234	0.262116	0.73927	1.77586	2.3209	2.02925	2.66052	1.43426	1.45504	0.544952
4	Ccrl2	0	1.39185	-0.175486	0.981314	0.0568114	1.90265	1.86873	2.77448	1.12348	1.96236	0.0062624
4	Cd109	0	0.502097	1.71187	1.35677	2.37984	2.25064	3.10913	3.25684	2.22944	2.47367	1.78303
4	Cd2	0	1.65173	1.13419	0	1.92158	1.89378	1.73861	2.99384	2.29356	2.97461	2.09802
4	Cd200r1	0	0.0761258	1.17959	0.507684	1.29958	1.59816	2.2874	3.10715	1.84398	2.43152	0.736484
4	Cd209a	0	0.0118134	-0.0035803	-1.43842	0.0262267	0.890027	-0.307538	2.28525	1.25152	1.09021	1.13273
4	Cd22	0	0.651039	1.08293	0.684721	0.574195	2.40093	2.69759	2.8659	1.89279	2.13747	0.645855
4	Cd274	0	0.733207	1.13114	0.738977	1.73852	2.09487	1.78244	3.26964	1.23021	1.09111	3.11275
4	Cd28	0	-0.334655	0.13861	0.381436	0.948614	1.22274	1.63921	2.68687	0.775022	1.46915	-0.808869
4	Cd300lb	0	0.274123	0.940136	1.81939	1.69571	2.62248	2.60765	2.83997	2.0205	2.47926	0.78607
4	Cd36	0	0.153618	0.389245	0.39536	1.27623	2.15323	2.37857	2.13473	0.989467	2.86323	0.774454
4	Cd38	0	0.947968	0.949697	0.871965	1.4827	1.84485	2.43749	3.34037	1.32913	1.68431	-0.102093
4	Cd3g	0	-0.697192	-0.715147	-1.03547	-0.105033	0.0942488	0.125864	1.94748	1.38801	1.62183	0.769573
4	Cd48	0	-0.118605	0.27458	-0.112363	0.634426	2.10731	2.17739	2.45371	1.62505	1.85669	0.789663
4	Cd52	0	0.114029	0.171139	0.295361	1.26178	2.41525	2.2096	2.59775	1.732	1.82415	0.585596
4	Cd53	0	0.002506	0.369978	0.647174	1.27025	2.2512	2.45903	2.69618	1.52965	1.79966	0.344345
4	Cd5l	0	-0.586114	-0.0014745	0.202828	0.861531	1.92267	2.02322	1.97888	1.75169	2.02504	0.390683
4	Cd74	0	0.275182	0.0512863	0.13176	0.872316	2.38141	1.10106	2.55968	2.02758	2.25271	0.831385
4	Cd82	0	0.620634	0.911907	0.912947	1.57555	2.52266	2.76757	3.11103	2.22278	2.3121	2.2027
4	Cd83	0	1.3496	1.67278	1.82082	1.14057	1.15634	1.7823	3.75849	2.37847	3.01835	1.60607
4	Cd84	0	-0.0288769	0.216562	0.244522	0.825689	2.16088	2.46852	2.45525	1.57904	1.71051	0.399087
4	Cd86	0	1.12189	1.70957	1.72006	1.88025	2.51515	2.88768	3.55959	2.01128	1.56699	0.619534

4	Cdc42bpg	0	0.181799	0.656551	1.34449	1.94183	2.80642	2.8374	2.39775	0.92536	1.68546	2.15788
4	Cdh1	0	-0.460351	2.47761	1.668	1.53615	1.67354	2.40232	2.2816	1.92111	2.69033	1.74338
4	Cdhr3	0	-0.0797538	0.602849	0.0359542	0.774213	0.912918	1.9966	2.3727	1.80702	2.68335	1.8128
4	Cdk5rap2	0	0.792493	1.58325	1.38421	1.57392	3.28253	2.85896	2.93735	2.55975	2.50116	2.04918
4	Cemip	0	-1.04831	-0.434737	-0.775923	-0.520525	-1.71329	0.448327	2.15768	-0.0945767	-0.0976518	-0.919889
4	Cenpj	0	-0.324277	-0.835001	0.245729	0.813257	1.70869	2.40501	1.95475	0.815102	1.357	0.533258
4	Cep192	0	-1.05969	0.0673015	0.0227413	0.346551	1.07805	2.55657	1.88386	0.536756	0.618788	-0.13287
4	Cfap43	0	-0.502151	0.0666511	-0.893435	-0.173145	0.6686	1.65274	1.49581	0.973559	1.92184	1.83637
4	Cfap44	0	-0.644225	0.321166	0.605033	0.026708	0.420492	2.1849	2.05714	1.49398	2.1854	1.53494
4	Cfap53	0	2.40994	1.57634	3.21983	3.3561	2.33117	2.98365	2.78935	3.13194	3.40699	2.80541
4	Cfap57	0	0.179193	0.639003	-0.619891	-1.15742	0.381193	0.142739	0.507456	1.34635	1.42466	2.47897
4	Cfap70	0	0.791432	1.7553	1.40735	1.7171	1.69247	2.65408	2.00127	2.74187	3.56556	2.7734
4	Cfb	0	0.10096	0.370784	0.708364	1.11707	2.46741	1.93684	2.95826	1.7377	1.99147	0.633334
4	Cfh	0	-0.0377658	0.510796	0.353915	0.894257	1.33831	2.40899	3.01927	1.62102	1.9326	0.691105
4	Cgn	0	0.980098	0.261862	0.925205	1.10011	1.3744	2.15009	2.25272	2.41942	2.78596	2.91144
4	Cgnl1	0	0.494124	1.26147	1.33752	2.05249	2.33973	3.2638	2.98826	2.11074	2.50452	2.0934
4	Chdh	0	-0.763029	-0.485822	1.28626	0.22024	-0.0324556	1.44746	1.51247	1.2539	2.14582	1.83307
4	Chp2	0	2.09873	2.31558	2.37137	2.01437	3.11656	3.78445	3.42668	2.36467	2.78855	1.7953
4	Clcn5	0	-0.442801	0.713976	0.501715	0.620428	-1.86276	0.989504	1.63592	0.865168	1.54048	1.19151
4	Cldn2	0	1.2155	2.12055	2.53007	2.73031	1.77412	3.13378	2.41979	3.08389	2.39098	3.58977
4	Clec12a	0	-0.0691145	-0.635473	0.25131	0.150405	1.34894	1.89047	2.20831	1.39208	2.21576	0.643218
4	Clec2d	0	-0.598106	0.807497	1.1619	0.916993	2.56025	1.83698	2.33077	0.456326	1.69146	0.159856
4	Clec3b	0	-0.171641	-0.40075	-0.696185	-0.802835	0.622556	1.0483	2.29994	1.29967	1.39908	-0.180045
4	Clec4a1	0	0.809971	2.11901	2.07853	2.38562	2.87106	2.33453	3.42072	1.97921	2.91096	1.16578
4	Clec4a3	0	-0.549091	-0.375854	-0.0853013	0.0306218	1.58182	1.36479	2.36716	1.34851	1.64053	0.0414972
4	Clec4e	0	-0.0819577	0.691956	0.224176	1.57358	1.58314	0.907692	2.07915	1.49603	1.76766	-1.19103
4	Clec5a	0	-0.366369	-0.207128	0.519232	1.37394	1.9395	2.13234	2.59485	1.50108	1.41304	0.559476
4	Clec7a	0	0.105529	0.39273	0.496312	1.01373	1.74799	2.31851	2.74234	2.23648	2.2737	0.864314
4	Clic6	0	0.430768	0.550193	1.20334	1.40709	0.738187	2.54054	2.33381	2.07871	2.92564	2.44038
4	Clk1	0	-0.565834	0.404101	1.41473	0.342434	-0.133597	1.94086	1.20209	1.78932	2.26229	2.0805
4	Cln5	0	0.0861507	0.823477	1.29508	1.32505	2.63258	2.98531	2.73153	1.44224	1.70084	1.06778
4	Cmtm6	0	0.0296433	0.257928	0.584092	1.25735	1.96386	2.29403	3.16664	1.22461	1.56556	0.828679
4	Cnn1	0	2.56375	3.22184	1.8245	1.12234	1.85566	2.54229	2.68305	2.12134	3.49778	2.92381
4	Cntf	0	0.664633	0.8067	1.15515	1.25269	-0.99893	1.94893	2.29464	1.90049	2.14727	1.58632
4	Cntrl	0	0.0625095	0.19651	0.457016	0.55069	2.24703	2.65089	2.46641	1.1608	1.63311	0.54522
4	Col10a1	0	0.21823	0.64523	0.939484	0.170323	-1.92081	2.12515	-0.0849534	-0.203138	-0.706475	0.0080657
4	Col12a1	0	-1.49334	0.353019	-0.381806	0.320391	-1.29854	1.28048	1.82348	0.122445	0.31604	-0.797836
4	Col13a1	0	-0.387292	-1.04209	-0.778181	-0.153029	0.806348	1.49206	1.98172	1.35471	1.15935	0.803259

4	Col14a1	0	0.392161	1.23902	0.0757162	1.09829	0.603986	2.06711	2.9885	2.32343	1.68036	2.21653
4	Col15a1	0	0.0382596	-0.0746681	-0.100253	-0.392341	1.61465	1.8947	2.57797	1.4404	1.28476	0.461557
4	Col18a1	0	0.0640337	0.294046	0.298717	1.03978	1.74952	3.02875	2.47014	0.951157	1.09744	0.452695
4	Col1a1	0	-0.144509	0.03561	-0.102508	0.52988	1.43609	2.65276	2.41681	1.11998	1.3858	0.381945
4	Col1a2	0	-0.27414	-0.244254	-0.28221	0.29461	1.46288	2.34814	2.36649	0.996848	1.28368	0.42196
4	Col3a1	0	-0.281659	0.299412	0.233233	0.560661	1.77866	2.5981	2.58981	1.1518	1.28052	0.446066
4	Col4a5	0	0.0944463	0.232558	-0.171366	0.39499	0.869165	2.4708	2.86007	1.24738	1.37248	1.17694
4	Col4a6	0	-0.167961	-0.322914	-0.210608	0.0083545	0.976129	2.05568	2.65154	1.29191	1.28308	0.601991
4	Col6a2	0	-0.816828	-1.01655	-0.610676	-0.0138959	-0.480996	1.64514	1.95127	0.410495	1.23898	0.127811
4	Col6a3	0	0.139835	0.698829	1.02742	0.923109	2.01993	3.09045	2.87945	1.6751	1.69972	1.43185
4	Col6a5	0	-0.823139	-0.330521	0.253587	-0.170854	1.30252	1.39215	1.31994	1.28971	1.33074	2.49161
4	Col8a2	0	0.236576	-0.219153	-0.0742099	1.12443	0.983334	2.01071	1.86755	1.45767	2.62684	2.11673
4	Col9a3	0	0.143474	-0.278608	-0.185043	0.493415	1.8702	2.60022	2.01209	1.1667	1.74763	1.21395
4	Colec12	0	0.27735	0.366723	0.19924	-0.247787	0.668694	2.34049	2.67221	0.95338	1.72418	-0.0178394
4	Cox6b2	0	0.196065	-0.347589	0.771046	-0.249554	2.06236	2.47166	1.38192	1.56271	1.98764	1.44586
4	Cp	0	0.44281	1.15372	1.27323	2.07082	2.11227	2.41346	3.37256	2.22274	2.5241	1.00454
4	Cped1	0	-0.221569	0.0636634	-0.0493906	0.641889	0.824183	2.3797	2.52779	1.33724	1.78923	1.62998
4	Cpne3	0	-0.156754	1.13637	0.589675	1.74486	1.95358	2.43182	2.96912	1.01852	1.52779	0.361403
4	Cpq	0	0.151861	0.562256	0.523768	0.0286794	1.35211	2.22095	2.76965	1.56657	2.44953	1.28862
4	Cpt1a	0	-0.240411	0.641483	0.87051	0.877332	1.67124	2.96592	2.69115	1.0333	0.920893	0.5469
4	Cpt2	0	-0.461063	0.709075	0.820931	1.43484	2.35959	2.33285	2.37363	1.70754	1.33446	0.152534
4	Cpxm1	0	0.619293	0.249517	0.118474	0.161913	1.11896	2.26874	2.97169	1.34606	1.96093	0.48429
4	Cpxm2	0	0.327842	0.669859	0.993884	1.4805	1.61678	1.68758	3.11199	2.34894	2.93712	1.52737
4	Cr1l	0	0.175645	0.917567	1.23482	1.83596	2.40192	2.8043	2.94711	1.39919	1.48761	0.548501
4	Crabp2	0	-0.424283	0.351914	0.523452	0.0947132	1.2909	1.88241	2.07083	1.57189	2.68161	1.61602
4	Creb3l1	0	0.628426	0.851904	1.48265	1.50271	2.75488	3.38124	1.90152	0.894572	2.47354	1.83671
4	Creb5	0	-0.0182017	2.63007	1.66692	-0.304432	-0.111503	-0.135489	1.86994	1.01165	1.08422	0.103385
4	Creg1	0	0.2014	0.212247	0.50214	0.375863	2.08605	2.58677	2.6561	1.2563	1.29486	0.272313
4	Crocc2	0	-0.48584	-0.422311	-0.921944	0.631238	0.990409	1.72547	1.04401	1.19084	2.08191	1.6002
4	Csf1	0	-0.115918	0.92131	1.98956	2.17134	2.44877	2.51089	2.96131	1.46196	1.48952	1.21325
4	Cst7	0	1.3802	1.20978	1.2466	1.87671	2.78016	2.93185	3.33157	2.92726	2.51031	1.80432
4	Ctsk	0	0.439347	0.157121	-0.368126	0.632528	-0.217418	1.88241	2.13395	0.586196	2.63212	0.586093
4	Ctss	0	0.122975	0.239648	0.302648	0.469298	2.00013	2.32906	2.76152	1.7239	1.78974	0.741686
4	Cttnbp2nl	0	0.906538	1.49382	1.87058	1.69396	2.12307	3.3283	3.49913	1.3251	1.38033	1.37339
4	Cxcl10	0	0.574913	0.996909	1.84734	2.68672	2.67626	2.61001	3.18152	1.74888	1.8991	1.09128
4	Cxcl13	0	0.731983	0	0.970807	1.21047	1.53722	1.58727	2.66307	2.58721	2.93615	1.43695
4	Cxcl16	0	0.330095	0.666063	1.07225	1.60154	2.78846	2.59885	2.82197	1.83439	2.26427	1.04569
4	Cxcl5	0	0.715512	0.968488	0.892687	1.83806	2.60396	1.81223	2.84222	2.82897	2.8695	2.17208

4	Cxcl9	0	-0.343276	0.883578	0.579458	0.406864	1.44713	2.02325	3.03707	1.78974	1.82053	0.661226
4	Cxcr4	0	0.370176	0.453463	1.08642	0.407198	2.48345	2.54565	2.74184	1.6505	2.07531	0.915531
4	Cybb	0	0.0417957	0.0361892	0.0441537	1.24255	2.09172	2.04952	2.48101	1.62916	2.18032	0.679446
4	Cybrd1	0	0.442293	0.821659	0.979776	1.01167	1.9051	3.01132	2.86047	1.47112	1.49492	0.131513
4	Cyfip1	0	-0.402204	0.0725361	0.0523674	0.480989	1.36081	2.45693	2.58506	1.05611	0.656682	0.166564
4	Cyp1b1	0	0.794358	1.92938	2.40826	2.39905	1.65598	2.92617	3.35821	2.12898	2.64595	0.993373
4	Cyp4v3	0	0.0411083	0.632643	0.611566	1.06128	1.44095	2.34678	3.20648	1.76195	2.19087	1.34377
4	Cyth4	0	-0.563022	-0.0805543	0.326567	0.695173	2.05391	2.20965	2.26831	1.15359	1.18697	0.0743201
4	Cytip	0	1.12534	0.154534	0.70122	1.48927	2.38612	1.08501	3.22034	1.47365	2.35148	0.572126
4	Dapp1	0	-0.255268	0.389386	0.200057	0.0882372	1.62712	2.6333	2.49113	1.47728	1.18481	1.18414
4	Ddr1	0	0.150516	-0.132294	-0.0625451	0.885439	1.88304	2.31699	2.65729	1.47125	1.66241	1.03975
4	Ddr2	0	0.217148	1.21847	0.845874	1.99175	2.06102	2.69105	3.15664	1.7097	2.50636	1.50615
4	Ddx58	0	-0.161592	0.316139	0.535943	1.3582	1.80197	2.5628	2.88943	1.12143	1.33871	0.542398
4	Ddx60	0	-0.0028566	-0.59693	-0.203675	0.702654	1.52761	2.16361	2.50738	0.944821	1.24067	0.318789
4	Dgkk	0	1.06774	0.77933	0.960295	1.7385	1.28794	0.679813	2.14539	1.34805	3.55764	2.64546
4	Dhrs3	0	-0.0287033	-0.0862125	-0.509356	-0.648606	1.48818	1.92636	1.91	0.915894	1.13518	1.822
4	Dlk1	0	1.41181	0.76826	0.910889	1.11196	0.67058	1.13358	1.53963	1.62965	3.09881	3.33947
4	Dnaaf3	0	0.0911638	-1.24018	0.427518	1.07293	1.36558	1.3214	2.25496	1.35094	1.82897	0.156845
4	Dnah10	0	-0.111566	0.461627	0.115506	0.633327	0.179394	2.2465	1.939	1.80267	2.40204	1.93375
4	Dnah11	0	-0.570454	-0.773556	-0.420928	0.474498	1.68044	1.47045	1.47483	0.455185	1.92726	1.5446
4	Dnah2	0	0.439042	0.199578	0.822499	0.465182	0.641847	2.17709	2.40402	2.38705	2.46512	1.99344
4	Dnah5	0	-0.56718	0.261043	-0.0584105	-1.32203	-0.791645	0.556942	1.26829	1.27017	1.76823	1.35963
4	Dnah6	0	0.0997317	0.382977	0.0255427	0.555635	-0.59153	1.49914	1.63793	2.12118	2.18154	1.96642
4	Dnah7b	0	1.58034	1.82171	1.04586	1.52782	1.76374	2.59346	3.04729	2.26303	3.76423	2.03063
4	Dnah9	0	0.165261	0.573233	0.0615258	-0.0827078	-0.490294	1.78785	1.76508	1.98956	2.31542	1.38128
4	Dnaic2	0	1.16829	1.62095	1.47603	1.35399	2.63991	3.27963	2.77803	2.57507	2.44596	3.14547
4	Dnali1	0	0.298874	-0.0958899	-0.131675	0.165693	1.66559	1.46842	1.94198	1.78079	2.52901	1.9279
4	Dnase1l1	0	-0.808886	-0.209738	0.0619941	0.328707	2.10784	1.90827	2.00829	0.716639	1.50063	0.423875
4	Dock11	0	-0.243346	0.403229	0.120234	0.203281	0.609104	2.07678	2.60416	1.70931	2.14302	0.86847
4	Dock5	0	0.182107	0.699585	0.62693	0.311508	-1.10286	1.24726	2.10548	1.64519	2.05236	1.77009
4	Dok1	0	-0.344313	0.405196	0.584025	0.906266	2.33762	2.36664	2.47657	1.80564	1.82251	0.998061
4	Dpyd	0	0.580437	0.971638	-0.119047	0.445383	-0.604227	1.08445	2.34013	1.85519	2.00709	2.07387
4	Dram1	0	-0.785864	0.660297	0.806685	0.303834	1.4505	2.01908	2.52102	1.0353	2.25041	1.28378
4	Draxin	0	1.30227	1.28253	1.14016	0.457775	0.698796	2.29474	3.54462	1.61299	2.36205	0.948106
4	Drc7	0	0.771229	1.15999	1.17536	1.43313	1.69471	2.6668	2.4332	2.50026	3.25299	2.80152
4	Drd1	0	-1.06001	-1.42967	-1.58162	-1.82986	-3.46356	-0.677976	-0.512139	-0.337132	-0.648554	-0.0801714
4	Dse	0	-0.375915	1.37471	1.46718	1.14689	1.15312	2.35636	3.10416	1.41134	1.92586	0.491786
4	Dsp	0	-1.15531	-0.621545	0.174658	-1.90957	-2.32915	-0.953985	0.422766	0.451823	0.743793	-0.410238

4	Dtx3l	0	-0.352481	0.163413	0.504149	0.864416	2.02998	2.27338	2.8095	0.784327	1.26656	0.635975
4	Ebf3	0	2.05752	1.33959	1.36561	1.89753	1.65124	2.04869	2.67067	2.62688	3.91327	2.72684
4	Ecel1	0	-0.161112	-0.591573	-0.431309	0.650279	0.70796	1.54923	1.87804	1.36358	1.95099	2.06083
4	Edn3	0	-0.845676	-0.969984	-1.50234	-1.04614	-0.0792583	0.958405	1.60505	0.963754	0.387262	0.643385
4	Ednra	0	0.307546	1.31624	1.21953	1.26364	2.76888	3.03988	2.45663	1.33022	1.69369	0.384661
4	Efemp1	0	-0.110652	0.733042	0.246924	0.331785	1.33805	1.70301	2.60645	1.78596	2.70673	1.5288
4	Egflam	0	0.0232772	-0.258441	-0.240821	0.0185234	1.97257	1.79208	1.87044	0.729828	1.69802	2.10433
4	Elf1	0	0.59766	1.33166	1.40744	1.92325	2.93545	3.06805	3.08248	1.16037	1.77475	1.55989
4	Elf4	0	0.274555	0.991525	1.31352	2.11188	2.46614	2.9731	3.06759	1.73915	1.9022	1.29259
4	Eno4	0	0.203191	0.388046	0.189818	0.734177	0.0202105	1.76521	1.8633	2.39895	2.43251	2.02908
4	Enpp1	0	0.0919487	0.412221	0.269839	0.679597	2.41201	2.64502	2.56071	1.25097	1.58094	1.04117
4	Enpp2	0	0.84297	1.21778	1.38283	1.24097	0.948242	2.59213	2.57351	2.60675	2.91609	2.8962
4	Epb4.1l2	0	-0.103765	0.187961	0.0484492	-0.208139	0.650356	2.59597	2.51643	0.907705	0.298542	0.162051
4	Eps8l1	0	0.219723	1.0965	0.696543	1.03003	2.05632	2.47027	3.296	2.20311	1.13153	1.62707
4	Epsti1	0	-0.121641	-0.0985163	-0.0404453	0.288896	2.02551	2.04758	2.57044	1.32106	1.43624	0.663827
4	Erap1	0	-0.110446	0.381883	0.404474	1.44364	1.49107	2.4839	2.99685	1.71687	1.72152	1.15732
4	Erbb2ip	0	0.124293	0.860303	1.37059	2.2174	0.463203	2.37028	2.8886	2.10709	2.17417	2.07911
4	Esyt3	0	-0.133848	-0.50454	0.807762	-0.0943583	-2.20234	-0.0239395	0.329326	0.772906	0.921852	1.69823
4	Evi2a	0	0.309392	0.134702	0.553017	0.0485165	1.35995	2.33624	2.90764	1.69059	1.75341	1.56654
4	Evi2b	0	-0.262979	-0.224424	0.371577	1.29648	1.79629	2.30636	2.09089	0.902002	1.29344	-0.455994
4	Exph5	0	-1.43412	-0.848649	-0.993428	-1.28832	-3.94092	-1.63775	-0.966905	-0.685479	-1.4444	-0.659032
4	Eya2	0	1.38566	0.999024	1.15384	1.15637	1.00725	2.89534	2.96752	1.31662	2.98132	2.4953
4	Eya4	0	-0.227543	0.382164	0.51092	-0.247389	0.458118	2.31677	2.82532	1.42271	0.940946	1.03868
4	F5	0	0.991951	1.56966	1.67018	1.96767	1.65511	3.18071	2.83978	2.85876	2.95454	2.92532
4	Fabp4	0	-0.19256	0.217772	0.876168	0.395037	1.78509	1.59272	2.56596	1.89566	2.48677	0.486373
4	Fam114a1	0	0.372036	0.775364	0.227779	1.04118	2.39529	2.93534	2.56344	1.66611	1.56538	0.768735
4	Fam129a	0	0.929743	1.19016	0.964144	1.7875	2.02343	2.43727	3.76976	1.99746	2.55306	1.71941
4	Fam167a	0	0.69921	2.30966	1.36179	2.16009	2.03112	2.71461	3.37371	2.42574	3.06002	2.30528
4	Fam179a	0	2.43159	0.454153	2.12536	3.26519	1.57978	2.29403	3.16886	1.97576	1.6176	2.29727
4	Fam180a	0	-0.779134	-0.860927	-1.06176	-0.371879	0.815356	0.809121	1.84838	1.08224	1.40321	0.901791
4	Fam198b	0	-1.57411	-2.19966	-3.13515	-1.93078	-3.43559	-0.878695	-0.757382	-2.15474	-1.81638	-1.66509
4	Fam26f	0	0.112954	0.70004	-0.579272	0.578694	1.33874	1.77321	2.78195	1.64746	2.05538	0.812706
4	Fam46a	0	1.51143	2.20883	1.78858	1.20009	3.23857	2.8262	3.4464	1.40731	2.45322	1.57776
4	Fam84b	0	-0.819757	-0.0303384	0.508628	0.0403937	-0.76236	1.7605	1.45948	1.02711	2.04893	1.42612
4	Fat4	0	-1.81988	0.780961	0.776023	-0.638566	-1.85022	0.276431	0.879006	0.533482	0.722805	-0.0162135
4	Fbln1	0	-0.0312239	0.202464	-0.29601	0.598414	2.07513	1.77526	2.42139	1.15738	2.20849	0.54403
4	Fbln5	0	-1.07847	-0.309549	0.472563	1.81608	0.150836	2.3462	1.30775	0.998366	1.44496	0.807399
4	Fbln7	0	0.2055	-0.0389153	-0.609959	-0.803415	0.636093	1.88706	1.95518	1.06219	1.81347	1.32456

4	Fbn1	0	0.179084	1.3034	1.07221	0.932048	0.358552	2.80863	3.15935	1.18134	1.77841	1.37667
4	Fbxl7	0	-0.450486	2.15415	0.628133	2.21071	1.16912	1.9349	1.9398	0.378445	2.54384	1.05863
4	Fcgr2b	0	0.069215	0.109008	0.162446	1.42555	2.13585	2.21646	2.7271	1.70098	1.48541	0.547983
4	Fcgr4	0	0.723343	0.788296	0.721642	2.01077	2.86336	2.71631	2.79114	1.99435	2.35681	1.25613
4	Fcrl1	0	0.805767	1.01831	1.47494	0.290699	2.32273	2.91519	2.80439	1.93759	2.28642	0.877948
4	Fgf2	0	0.794983	1.8333	1.94584	2.67078	-0.685853	1.06527	2.119	1.26831	0.300235	1.44475
4	Fgl2	0	0.0564774	1.11037	0.911763	1.65757	1.37191	2.04862	3.48386	1.73755	2.11283	0.719142
4	Fgr	0	-0.420353	0.0815865	0.699564	1.48207	2.53254	1.58028	2.48538	1.58789	1.95177	0.929538
4	Fkbp15	0	-0.629093	-0.0856622	-0.118765	-0.291769	0.274965	1.62216	2.55314	0.903193	0.289924	-0.795191
4	Fmo5	0	1.08944	0.578039	0.610167	-0.89311	0.727936	2.48538	2.22497	1.86143	1.55755	0.499673
4	Fmod	0	-0.656313	-0.583414	-1.227	-1.37721	-1.29468	0.970904	1.26011	0.637618	1.05477	0.401316
4	Fnip2	0	-0.385774	0.61711	0.396412	1.04965	1.23156	2.47162	2.53334	0.724067	0.664703	-0.498533
4	Folr1	0	0.82129	1.24349	2.04042	2.13626	2.87275	2.8344	2.77274	2.58956	2.87891	2.98401
4	Foxc1	0	-0.121131	0.767904	0.35849	1.05653	2.4598	2.77835	2.2706	1.46751	1.91594	0.848506
4	Foxd1	0	-1.46248	-0.199111	0.267698	0.116065	1.37817	1.73652	1.65281	0.680226	1.74421	0.892494
4	Foxj1	0	0.702106	0.131504	0.873708	1.09091	2.15853	2.73073	2.77996	1.8942	2.41243	1.82765
4	Foxn3	0	1.27056	2.14932	1.99642	1.28068	0.300402	1.96647	3.11967	2.97143	2.36483	2.38319
4	Frem2	0	-1.67355	-0.311013	-0.791479	0.0274734	-0.451284	1.14952	1.38405	1.30856	1.26801	0.486566
4	Frk	0	1.54991	1.41003	2.16145	1.10983	2.08941	3.54349	2.35293	2.85535	2.62022	0.915678
4	Frmd4a	0	0.244359	0.392566	0.523788	1.89683	0.319887	2.53632	2.14518	0.356677	0.118992	-0.599583
4	Frmd4b	0	-0.0090038	0.388432	-0.156317	0.34485	0.433863	2.24002	2.94961	1.50899	1.20495	0.854275
4	Fsip1	0	-0.238184	0.547939	0.792537	0.0612296	1.34355	1.58881	1.80234	1.54897	2.90645	2.2341
4	Fut4	0	0.852853	1.04827	1.29551	1.79068	3.06991	3.16135	2.56794	2.04029	2.5277	1.16158
4	Fzd5	0	2.50144	2.14888	2.9957	1.74473	2.10724	3.35673	3.19943	2.01748	3.61519	2.7455
4	Fzd6	0	-0.332225	0.253605	0.525954	0.803479	1.93549	2.75978	2.287	1.25994	1.719	0.510751
4	Fzd7	0	-0.627086	0.886314	0.945076	0.713635	1.95721	2.19905	2.47996	1.29181	1.97266	2.23586
4	Gabrq	0	0.73561	-0.151496	1.49946	1.26725	0.888373	0.665344	1.37401	1.45938	3.13315	2.68923
4	Galnt3	0	-0.0453679	-0.377458	0.216149	0.188006	0.241643	2.25396	2.48008	0.280251	1.13293	-0.502142
4	Galnt4	0	-0.308375	0.950542	1.25762	1.55411	2.02243	2.75575	2.91251	1.21155	1.41114	0.772381
4	Galnt6	0	0.0086013	-0.118147	1.14104	2.04722	2.55628	2.42209	2.21121	1.29542	1.91606	1.50832
4	Gata3	0	1.33852	1.00408	0.599546	-0.256273	0.450207	1.70708	1.8993	2.04147	2.98055	2.13765
4	Gatm	0	0.802147	0.739275	1.24666	1.93033	2.75326	2.58903	2.7675	2.26865	2.38879	2.94843
4	Gbgt1	0	-0.338924	-0.291139	-0.497577	-0.299274	1.08083	1.96551	2.32729	1.47301	0.925288	0.765199
4	Gbp10	0	0.151454	-2.02179	0.191875	0.364752	0.390587	1.04887	1.97757	0.592708	1.22621	0.905599
4	Gbp2	0	-0.35499	0.62877	1.27393	1.82814	2.05293	2.26561	3.002	1.48172	1.82925	0.894388
4	Gbp3	0	-0.558904	-0.360686	0.248807	1.11356	1.94466	2.17061	2.39864	0.926986	1.12055	0.859111
4	Gbp4	0	-1.14852	-0.190719	0.320097	0.733278	1.57593	1.54417	2.56457	1.0972	0.924366	0.652777
4	Gbp5	0	-1.53564	0.520644	1.15471	0.777733	1.28556	1.57008	2.36217	0.752854	0.970761	0.121013

4	Gbp6	0	-0.350736	0.184731	0.448497	1.14779	1.55437	2.17697	2.97414	1.48906	1.69992	0.918919
4	Gbp9	0	-0.459089	0.12567	0.629736	0.818626	1.54296	2.20404	2.95243	1.35389	1.55256	1.03149
4	Gfap	0	0.104441	0.467701	0.607077	1.94884	2.63746	2.61834	2.47307	1.76664	1.80196	1.08326
4	Ggh	0	-0.413006	0.415635	0.384367	0.633242	2.44291	2.32297	2.32941	1.41114	1.72711	1.22108
4	Ggta1	0	-0.0447651	1.25597	1.23025	1.94562	2.57516	2.9429	2.72823	1.87316	2.11975	1.4888
4	Ghsr	0	0.82021	1.39419	0.968064	0.638775	-1.5303	0.764514	-0.155422	0.972469	2.15666	1.71586
4	Gimap4	0	0.197034	1.05018	1.00502	1.70793	2.21448	1.82553	3.26485	1.95289	2.80936	1.46785
4	Gjb2	0	1.56184	2.88181	3.29645	2.14849	0.925665	2.23423	3.22662	1.98753	2.58354	1.46871
4	Glb1	0	0.178397	-0.37836	-0.335845	0.0628642	0.970201	2.25787	2.69546	0.896151	0.69626	0.415107
4	Glb1l	0	0.008629	1.33402	-0.770687	-0.567965	1.31241	2.50006	1.67441	0.95243	1.1643	1.00055
4	Glis3	0	-0.0153105	1.14025	1.6947	2.64483	1.08697	2.66447	2.78485	1.5971	1.22507	0.594462
4	Gm11992	0	0.377503	0.589848	0.677029	1.19356	1.50661	2.2038	2.58273	1.74048	3.24996	1.8568
4	Gm12250	0	-0.861657	0.647445	1.11505	1.19028	2.07143	2.04179	2.63593	0.96942	1.59638	0.573835
4	Gm13157	0	0.86892	1.11246	2.13251	0.982557	2.61903	1.93461	2.77236	2.01188	2.29889	-0.104669
4	Gm13251	0	0.0581779	-0.0608184	0.180158	0.302875	1.30704	2.73313	2.54579	1.30463	1.09771	0.404009
4	Gm13293	0	0.100287	1.34363	0.187695	1.5444	1.08492	2.43587	3.04356	1.49311	2.26551	1.87511
4	Gm14685	0	0.353165	0.15537	-0.948152	0.521224	-2.02911	0.624083	0.639373	0.508719	1.44401	1.446
4	Gm15880	0	1.04416	2.15233	1.8114	2.06868	3.2264	2.92268	3.61418	2.15507	1.98601	1.7143
4	Gm17757	0	0.775995	1.12647	1.07337	0.372952	1.60234	2.23813	2.76021	1.25786	1.51352	-0.812711
4	Gm18853	0	0.803817	1.08776	1.09892	0.274371	1.43279	2.2263	2.7466	1.28612	1.46608	-0.845793
4	Gm1966	0	-0.286201	-0.127769	-0.00973	0.409399	1.79614	1.7944	2.5764	1.32937	1.74851	0.306174
4	Gm21188	0	0.105686	0.720996	0.190138	0.390232	2.32821	1.70141	2.79333	1.44052	2.20146	0.579818
4	Gm21992	0	-1.76977	-1.50837	-2.55323	-1.11293	-3.35103	-0.909702	-1.20866	-0.711391	-0.214478	-0.549367
4	Gm2a	0	-0.0681057	0.0910374	0.0501172	-0.463377	1.15875	1.95488	2.88014	0.55571	0.863557	0.247946
4	Gm3558	0	1.01533	2.28249	1.31994	0.548972	0.569384	1.55647	1.96453	2.20131	2.2157	3.47879
4	Gm3636	0	1.24329	1.12934	1.60232	1.47649	-1.40382	-0.518811	0.287985	1.20674	1.73435	1.15784
4	Gm4070	0	0.409229	0.830188	0.665559	1.10108	2.06087	2.64475	3.27305	1.6361	2.03555	1.00384
4	Gm4841	0	0.958263	1.57361	0.121401	1.00339	0.491777	1.95861	3.27871	0.323137	1.51279	2.14748
4	Gm4951	0	0.478915	0.857548	1.16683	1.34167	2.76603	2.09408	3.32456	0.667687	1.4187	0.884486
4	Gm5089	0	0.366785	0.266174	-0.0190652	-0.596769	1.23988	2.18792	1.80505	1.88507	2.25655	1.12177
4	Gm5141	0	-0.753591	-1.91295	-0.756884	-0.777109	-1.46867	0.828937	0.965531	0.97698	0.572166	0.0614109
4	Gm5424	0	2.13267	2.7485	2.75387	3.17324	2.45774	2.82561	3.82482	2.89552	3.22755	3.41293
4	Gm5431	0	0.99747	0.611856	0.691667	1.02054	1.61545	2.48111	3.07415	-0.0579697	1.20489	0.122101
4	Gm6377	0	1.78641	2.24862	1.92793	1.57831	2.93403	2.27042	3.78961	2.38436	2.88938	1.15872
4	Gm7120	0	2.5722	2.67687	2.52037	0.252608	1.24575	2.27313	1.42696	1.84397	2.1329	3.10545
4	Gm8979	0	-0.150419	0.471591	0.490356	1.02237	-2.49833	1.16516	1.02431	0.511174	0.121999	0.108745
4	Gns	0	-0.0234769	0.12032	0.0644941	0.164011	1.19491	2.64995	2.57528	1.0325	0.833036	0.0998951
4	Gpam	0	-1.08372	0.0759481	-0.0134801	0.16062	-1.61928	1.15489	2.00705	0.927454	0.49525	-0.192005

4	Gpnmb	0	0.159873	0.242552	0.426741	0.716928	1.98774	2.56898	2.42008	1.94409	2.26198	0.911764
4	Gpr137b	0	0.189782	0.686924	0.227378	-0.0023625	1.036	2.68502	2.80338	1.47568	1.61019	1.01212
4	Gpr137b-ps	0	-0.0798307	0.100117	0.226672	0.560848	1.41318	2.65834	2.66644	1.19597	1.56615	0.578484
4	Gpr149	0	-0.131949	0.780693	0.516823	0.811431	0.111738	1.83111	1.91935	1.70976	2.73927	2.33714
4	Gpr160	0	-0.874684	-0.0873791	0.329888	0.275028	2.01311	2.22456	2.05878	1.01859	1.00255	1.12303
4	Gpr17	0	-0.562251	-0.0757015	-0.118898	-0.466175	0.444929	2.51824	1.4739	0.361277	-0.219352	-1.0248
4	Gpr37	0	0.113773	0.0851119	0.297018	-0.41286	0.750592	1.47483	2.30289	1.95648	1.85225	2.13101
4	Gpr50	0	1.64	0.354537	0.419296	1.17679	0.249282	1.30474	1.89029	2.1675	2.89603	2.63199
4	Gpr52	0	-1.16806	-1.04804	-1.80311	-1.63954	-3.47247	-0.718981	-0.413243	-0.251756	-0.771977	-0.115699
4	Gpr6	0	-1.16452	-1.26196	-2.29413	-2.31797	-2.80494	-0.77656	-0.510595	-0.275336	-0.134224	-0.154753
4	Gpr65	0	0.504519	0.740855	0.737537	1.6281	2.77592	2.69762	2.7724	1.72276	2.15652	0.849085
4	Grin2a	0	-0.483336	-0.262416	-1.12293	-1.57157	-3.5195	-1.52865	-0.370447	-0.283012	-0.49573	-0.689664
4	Gsap	0	0.402766	0.714233	0.590921	1.24156	2.26084	2.88979	3.023	1.88111	1.44695	1.13474
4	Gstm2	0	-0.0475029	0.685624	-0.0506573	0.850718	2.19032	2.30124	2.5021	1.58113	2.17686	1.4928
4	Gvin1	0	1.0449	0.778094	0.628788	1.03591	1.92791	2.4767	3.61473	1.53176	1.90484	0.945763
4	Gypc	0	0.018888	0.294809	0.421922	1.34964	1.74103	2.613	2.78537	1.2955	2.16915	1.39415
4	H2-Ab1	0	0.59596	0.627688	0.497284	1.13368	2.82897	1.69299	2.77621	2.20662	2.51409	1.20213
4	H2-D1	0	0.245299	0.220044	0.358217	0.879836	2.29758	2.08155	2.98911	1.6394	1.76463	0.772525
4	H2-Eb1	0	0.330892	0.191837	0.296818	0.774878	2.50543	1.33742	2.61862	2.06823	2.34562	1.13166
4	H2-K1	0	0.145569	0.0070484	0.337497	0.645455	2.15986	2.05524	2.93918	1.53921	1.61661	0.939619
4	H2-L	0	1.2858	0	0	0	0	2.06073	2.57253	1.62646	1.9643	0.795341
4	H2-M3	0	0.0782657	-0.0186151	-0.272368	0.429846	1.76875	2.12558	2.71763	1.43205	1.41964	1.0626
4	H2-Oa	0	-0.448508	-1.4022	0.177904	-1.00517	1.03095	0.948736	1.8436	1.08441	1.09584	0.749396
4	H2-Ob	0	0.85973	0.445628	0.243847	0.0818497	1.6532	2.33461	2.57487	2.11955	2.4391	1.21487
4	H2-Q1	0	1.32242	1.52945	0.620349	-0.0926816	0.334359	2.79676	1.63439	1.65407	2.67466	2.04848
4	H2-Q8	0	1.18813	2.05788	1.68795	1.72223	2.4303	2.9086	3.51684	2.97969	2.9077	2.67839
4	H2-Q9	0	0	1.54621	0.721508	1.43916	2.29405	1.99412	2.5602	1.93279	2.34032	0
4	H2-T9	0	0.0030067	0.419994	0.0576831	0.626538	2.06713	2.35462	2.81317	0.511161	1.34575	1.18991
4	Hba-a2	0	1.06121	1.46827	0.620314	1.70319	2.47689	2.57284	3.34348	2.83646	2.23335	1.71086
4	Hcrtr2	0	0.280675	0.489438	-0.504179	0.545409	-1.69661	1.17761	0.400772	2.20597	1.20716	0.681498
4	Hdc	0	1.1492	1.77364	1.88086	2.84923	1.5654	1.77409	2.16738	1.74334	3.78409	2.99103
4	Heatr5a	0	-0.532654	0.452381	0.24316	1.11129	1.40883	2.70152	2.50106	1.31438	0.726805	0.44022
4	Herc6	0	0.209015	0.234011	1.07078	1.03626	-0.283035	2.13962	3.05656	0.358148	0.246834	0.837698
4	Hfe	0	0.294285	-0.0941352	0.309538	1.25766	2.21032	2.49083	2.62894	1.55803	1.81459	0.998882
4	Hmgcs2	0	0.0042198	0.0853259	0.176633	1.49255	1.6482	2.95776	2.00447	1.15785	2.09986	1.3086
4	Hnrnpf	0	0.33504	0.912191	1.36971	2.47818	2.8557	2.83037	2.82	1.80949	1.68947	1.52036
4	Hp	0	0.791685	0.880636	1.23004	1.74116	2.79801	1.94932	3.39577	2.07693	2.18789	0.728138
4	Hpse	0	-0.274556	-0.309942	-0.103844	-0.544594	0.630321	1.53619	2.39751	1.55937	1.47842	-0.0704736

4	Hspg2	0	0.559693	0.69309	1.05852	2.55076	2.68659	2.76831	2.71518	1.43623	1.74427	0.875371
4	Hvcn1	0	-0.395804	0.144964	-0.216056	0.342176	1.69918	2.00967	2.28211	1.38543	1.45226	-0.215473
4	Hydin	0	-0.469786	-0.0021015	0.0190102	0.005776	0.277918	0.883898	1.95895	2.04295	2.17338	1.70199
4	I830077J02Rik	0	-1.60407	-0.675917	-0.207884	-1.19104	1.03906	1.12789	1.58255	0.798731	0.400477	-0.0012096
4	Icosl	0	1.66944	1.95587	3.09455	1.15733	1.98757	2.67145	3.23547	2.4486	2.7273	0.870357
4	Ifi203	0	-0.366696	0.151833	0.537262	1.26062	2.36261	1.65274	2.64086	0.889645	1.86281	0.359597
4	Ifi204	0	-0.0576467	0.503846	0.571914	1.54771	2.36215	2.4738	2.70685	1.51574	1.82029	0.634069
4	Ifi47	0	0.0456709	0.630459	1.03271	1.15578	2.06018	2.27812	3.22459	1.81549	2.25405	1.37082
4	Ifih1	0	0.0790594	0.0404521	0.407088	1.07228	1.87477	2.52901	2.8772	1.0394	1.26352	0.528432
4	Ifit1	0	-0.39302	0.319046	0.685696	1.31436	2.16804	2.31654	2.68463	0.79329	1.1943	0.36711
4	Ifit2	0	0.298404	0.157652	0.44387	0.803505	2.08221	2.43819	3.06069	1.01582	1.4212	0.869922
4	Ifit3	0	0.236387	0.533876	0.733857	1.50313	2.55517	2.58854	2.99185	1.10355	1.44503	1.00576
4	Ifit3b	0	0.641653	0.98436	0.944001	1.80103	2.59498	2.86758	3.08717	1.41813	1.24076	0.668684
4	Ifngr1	0	-0.424126	-0.260745	0.0338702	0.339185	1.65511	2.08043	2.61131	1.12705	0.993346	0.418154
4	Igf1	0	0.193422	-0.0019076	0.0182003	0.300856	1.51855	2.69548	2.49778	1.11272	0.959121	0.157698
4	Igf2	0	0.0699874	0.354037	0.133352	0.1553	-0.142017	2.53259	2.55219	1.21971	1.60357	0.951303
4	Igfbp5	0	-0.158951	0.154851	-0.0305356	0.430509	0.213303	2.01646	2.70636	1.67837	1.66324	1.41065
4	Igsf1	0	0.433367	-0.192551	0.48044	-0.556635	0.0276921	0.398123	2.10688	1.86857	2.28215	1.51464
4	Igsf10	0	-0.236536	0.526027	1.0834	1.73714	0.789667	2.53466	2.63316	1.61176	1.83492	0.107238
4	Igsf6	0	0.0497298	0.843218	0.521869	1.09332	2.545	2.65427	2.65763	1.75424	1.87291	0.899942
4	Igtp	0	-0.175711	0.916864	0.744096	1.44581	1.42614	2.45973	3.35063	1.20218	1.30313	0.952031
4	Iigp1	0	-0.666085	0.523319	0.405999	1.09035	2.02148	2.0189	2.8163	1.07582	1.37555	0.656732
4	Ikbke	0	-0.949641	-0.212407	0.144682	0.380441	1.64029	1.90195	2.33585	0.893592	1.23946	0.238408
4	Il10ra	0	-0.228138	-0.0675248	0.238322	-0.0522619	1.76979	2.10424	2.56027	1.26714	1.2498	0.205474
4	Il10rb	0	-0.503812	-0.255394	0.289031	0.672648	1.96466	2.26789	2.22505	1.17576	1.42884	0.305717
4	Il13ra1	0	0.254854	1.41563	1.61581	2.50474	2.55862	2.76925	3.11462	2.10281	2.35443	1.53801
4	Il16	0	-0.0980604	0.45988	0.363132	0.115783	1.96264	2.24224	2.35189	1.23573	1.71638	-0.232793
4	Il18bp	0	-0.651392	-0.602895	-0.0868597	0.128408	0.127894	1.59628	2.4098	0.250675	0.661429	-1.01819
4	Il18r1	0	-0.0337114	0.803489	-0.646483	0.467328	1.55686	-0.077173	2.76857	1.11006	1.84064	1.05593
4	Il2rg	0	0.130621	0.882117	1.26367	1.82097	2.73206	2.2265	3.01125	1.69004	1.84124	0.571664
4	Il6st	0	0.0043808	1.03198	0.766119	1.37712	0.541287	2.4259	3.30549	1.63948	1.82719	1.18308
4	Il7r	0	-0.669415	0.426975	-0.479556	-0.4814	1.32907	1.17272	1.78625	0.49172	2.38967	0.148546
4	Inmt	0	0.676996	-0.514037	0.82899	0.507403	1.85439	1.9077	2.48453	2.26249	2.15045	1.58286
4	Iqcg	0	0.267315	0.348538	0.117527	-0.328172	1.3237	2.49687	1.82624	1.11508	2.33302	1.8292
4	Iqck	0	-0.473982	-0.503977	-0.153427	0.0790487	0.402566	0.134768	0.730294	0.492633	1.21592	3.05065
4	Iqgap1	0	0.210654	0.736767	1.1108	1.36647	2.68682	2.79338	2.56609	1.09569	1.80917	0.443851
4	Iqub	0	0.49782	0.595964	0.962398	1.20711	1.00996	2.68448	1.99165	1.83417	2.77914	2.88602
4	Irak3	0	-0.220255	1.88526	2.1835	2.48929	0.994713	2.58407	2.75788	1.91216	2.01953	1.70572

4	Irf1	0	0.98141	0.748775	1.42006	1.40716	2.15079	2.72108	3.65145	1.33943	1.55693	0.914072
4	Irf7	0	-0.564079	-0.0574606	0.172874	0.960998	1.94126	2.06955	2.50943	0.62032	1.27122	0.281262
4	Irf8	0	-0.413873	0.141412	0.12319	0.708721	2.07635	2.26992	2.45238	1.21872	1.13542	0.250967
4	Irgm1	0	0.451143	1.3975	1.38017	2.1871	2.73072	2.72326	3.13922	1.34147	1.37214	0.788436
4	Irgm2	0	-0.439751	0.438941	0.785251	1.00354	1.8983	2.35114	2.93101	1.41575	1.64595	1.03093
4	Irs4	0	-0.0388667	0.346115	-0.0729231	0.497213	-0.358399	1.03755	1.16412	1.02474	2.5048	2.56364
4	Isg20	0	1.26176	1.39685	1.67317	2.24025	2.99307	3.17254	3.50436	2.00291	2.03368	1.44467
4	Isl1	0	0.803338	-0.341729	0.13961	0.576946	1.2402	2.64845	2.03693	1.1704	2.4364	1.69133
4	Itga1	0	-0.0558605	1.48597	1.28217	1.8518	2.61449	2.76192	3.01306	1.33532	1.61044	1.30163
4	Itga6	0	0.469917	1.26601	1.52746	1.84402	2.16577	3.02074	2.99898	1.0863	0.860319	0.508366
4	Itga8	0	-0.441116	0.753889	-0.005093	-0.369256	-0.827488	2.07206	2.19412	0.327874	1.02601	-0.178848
4	Itgal	0	0.22681	0.592593	0.185031	1.30064	2.1986	2.2248	2.90375	1.67731	1.72308	0.331369
4	Itgax	0	-0.120779	0.504166	0.789701	1.28871	1.92962	1.93403	2.79983	2.45533	2.34349	1.28071
4	Itgb2	0	-0.352248	0.237994	0.221019	1.03925	2.09233	2.39499	2.45153	1.44943	1.57425	0.5107
4	Itgbl1	0	-0.723964	-0.0769341	-1.44093	-0.90143	-1.26532	1.02749	1.45911	0.788012	1.06973	0.176645
4	Itih2	0	0.150875	0.404408	0.322351	0.917209	1.7514	2.86461	2.75361	1.472	1.79692	0.954308
4	Itih5	0	-0.0785655	0.201681	0.0978684	-0.407171	0.419656	2.39713	2.62708	1.16529	1.15585	0.823016
4	Itk	0	0.254658	0.527307	0.681338	-0.0329706	-0.334411	-0.0709041	2.83425	1.21206	2.1929	0.938669
4	Itpkb	0	0.41088	0.809208	0.615713	1.61459	-0.0851596	1.91247	2.79116	1.83292	2.65485	1.57731
4	Itpripl1	0	0.634972	1.24734	1.35411	1.76909	2.79783	3.14218	3.2351	1.6235	1.59566	1.67358
4	Jchain	0	-0.229281	-0.621789	-0.013118	-0.299562	0.165324	-0.901894	1.42426	0.550147	2.61602	-0.174853
4	Kcne1l	0	0.381887	-0.722711	-0.294572	0.104076	0.963231	2.28357	2.46372	1.174	1.00592	0.507708
4	Kcne2	0	1.19145	0.106525	1.08198	1.45369	2.39129	2.57346	2.32474	2.31502	2.7795	2.53374
4	Kcnj13	0	0.476627	0.477538	0.670611	1.60889	2.25728	2.39672	2.17371	2.68574	2.41122	2.50655
4	Kctd16	0	-0.332645	-0.0888557	-0.632514	-1.3841	-2.87379	-1.4562	-0.0808594	0.14557	-0.300748	0.77319
4	Kdr	0	-0.796747	1.24572	2.07469	2.49269	0.705091	2.16888	2.01568	0.756725	1.47225	1.07683
4	Kif13b	0	0.254844	0.35896	0.44616	0.020476	-1.86198	0.7777	1.92466	1.57456	0.832944	1.19712
4	Kif19a	0	-0.265398	-0.705657	-0.157636	-0.52858	0.529382	2.68921	1.61201	0.546571	0.886567	0.704112
4	Kif9	0	0.437421	0.782683	0.551915	0.50567	0.199882	1.84395	2.25844	2.84298	2.39323	1.70308
4	Kl	0	0.302801	0.988571	1.23127	1.61391	0.737515	2.39596	2.31159	2.57409	2.82838	2.55188
4	Klhl6	0	0.596997	0.686033	1.24875	1.65912	2.63501	3.0426	2.85821	1.86868	1.6297	0.765091
4	Klrk1	0	0.638542	1.53955	1.61689	0.342754	1.45651	0.416525	2.51416	1.31254	1.90802	-1.002
4	Krt18	0	2.05841	2.76157	2.88728	2.81673	3.26277	3.35237	2.84917	2.7485	3.51925	3.60001
4	Krt8	0	1.87206	1.53032	2.58129	3.09437	0.422985	1.75643	2.29135	1.93465	2.76848	3.02425
4	Krt80	0	2.81753	1.24655	2.04645	2.34015	-0.119735	1.75409	2.38789	0.905538	0.748572	2.24327
4	Lacc1	0	-0.223611	0.250624	0.535181	1.08988	1.87475	2.60983	2.76489	1.03895	1.31743	0.549934
4	Lag3	0	0.14087	0.17175	0.253853	0.25319	0.863195	1.67257	3.19088	2.01521	1.05608	0.527766
4	Lama1	0	-0.698187	-0.367223	-0.246331	-0.0022047	0.769646	2.43101	2.11759	1.0042	0.891917	0.49515

4	Lama2	0	-0.0452482	0.603059	1.04716	-0.237103	-0.229391	2.62344	2.34084	1.22514	1.31082	1.44827
4	Lama4	0	-1.64263	0.116287	0.497501	0.839929	0.332753	1.78144	2.18319	0.524023	0.688034	-0.103742
4	Lamb1	0	-0.0403354	1.06025	0.803341	0.484474	1.35769	3.2561	2.33559	0.86049	0.832416	0.249044
4	Lamb2	0	0.0963796	0.179855	-0.168646	0.820287	1.94726	2.52119	2.50018	1.58976	1.65074	1.0145
4	Lamc1	0	-0.241215	0.756039	1.02037	1.30635	-0.0783279	2.49562	2.66491	0.637771	0.491633	-0.0524896
4	Lamc3	0	-0.204683	-0.668584	-0.517633	-0.542742	-0.316048	2.54804	1.46362	0.827296	0.833706	0.259732
4	Lamp1	0	0.118	0.44232	0.590586	0.680855	1.20616	2.84975	2.90248	1.51994	1.38517	0.484364
4	Lamp2	0	-0.0670407	0.427033	0.563943	1.33503	1.26256	2.70356	3.0077	1.49473	1.64879	0.862654
4	Lbp	0	0.398436	0.4106	0.784244	1.60563	1.73545	2.77717	3.12943	1.83507	2.11335	1.50547
4	Lect1	0	0.0111698	0.714294	0.751758	0.195795	2.82397	1.57994	2.48618	2.13365	1.63934	1.71664
4	Lgals3	0	0.288527	0.935513	1.22283	1.92883	2.84019	2.60715	2.64485	2.02395	2.60873	1.12814
4	Lgals3bp	0	0.0888668	-0.145105	0.139443	0.886525	1.82524	2.36016	2.81103	1.26043	1.29672	0.625316
4	Lhfpl2	0	0.0437319	0.0821631	0.199894	0.494115	1.80147	2.46164	2.63121	1.04015	1.52097	0.187156
4	Lhx8	0	-0.773357	-1.41285	-0.761963	0.0261601	-0.358591	0.661085	1.17211	1.29475	1.59754	1.12011
4	Lima1	0	0.131794	1.00138	1.11726	1.63237	1.84616	2.85107	2.81716	0.514581	1.18879	0.221049
4	Lims1	0	0.0086501	1.10762	1.11332	1.87011	1.83803	2.7538	2.90392	1.07121	1.03518	0.222826
4	Lmo2	0	-0.698632	-0.31667	-0.164378	-0.167184	1.3289	2.23375	2.17555	0.919612	0.95027	0.417337
4	Lmod1	0	-0.352983	-0.55129	-0.0054706	-0.16567	1.7001	1.59798	1.79055	1.38425	2.06095	1.31374
4	Lox	0	-0.201569	1.49917	1.37	1.48279	1.06679	2.93979	2.72117	1.39167	1.57392	0.234494
4	Lpar6	0	0.856874	1.23834	1.2752	1.2277	2.9476	3.09596	2.84405	2.11625	1.7077	0.790141
4	Lpl	0	0.108724	0.393261	0.540992	1.51683	1.73953	2.17474	2.63357	1.07807	2.12016	-0.265596
4	Lpp	0	0.5708	1.68781	1.21221	1.11112	3.19355	2.86515	2.74787	1.48637	2.16684	2.27896
4	Lrmp	0	0.268412	0.312637	0.320041	0.439735	2.03631	2.62024	2.71988	1.24499	1.50583	0.436535
4	Lrp2	0	0.456043	1.0452	1.28712	0.608521	0.477646	2.50147	2.45411	2.26263	2.79213	2.15054
4	Lrrc23	0	1.24839	1.04854	-0.202547	0.01046	1.16783	2.19714	2.06835	2.2596	2.47451	2.08153
4	Lrrc27	0	-0.478268	1.28991	0.853733	-0.636645	1.53986	2.95387	0.703559	0.892334	0.302248	0.715409
4	Lrrc51	0	-0.659022	0.765397	0.185284	1.71921	2.2926	2.39631	1.04633	1.88855	1.46419	1.85497
4	Lrrc9	0	-0.0252239	0.804029	0.70444	0.545141	-1.15768	1.54843	2.17322	1.7934	1.96177	0.787369
4	Lrrtm4	0	-0.518026	-1.1732	-1.89285	-1.10172	-2.9141	-0.872436	-0.282857	0.0888485	-0.0846784	0.558526
4	Lsp1	0	-0.286352	-0.245865	0.314785	0.450213	2.05502	2.19857	2.39168	0.809191	1.44531	0.270602
4	Ltbp2	0	0.892523	1.02364	0.518023	1.63521	2.13447	2.18274	2.52483	1.12024	1.92779	-0.710458
4	Lum	0	0.0677315	0.228811	0.187005	0.826334	2.28889	2.08574	2.61198	1.6792	2.12597	0.848269
4	Ly9	0	-0.18798	0.243494	0.477375	0.968145	1.91265	2.26504	2.67212	1.92062	2.0604	0.927826
4	Lyz1	0	0.618153	0.56247	0.418024	0.831945	2.46792	2.31199	2.60423	2.25427	2.45352	0.976732
4	Lyz2	0	0.0172406	0.103158	0.018344	0.475308	1.93326	2.10355	2.3825	1.92047	2.08334	0.811762
4	Maats1	0	0.827762	1.43414	0.430369	0.672598	1.00089	2.28725	2.02274	2.34118	2.87396	2.81585
4	Mab21l2	0	0.676219	-0.0383059	-1.54291	-0.331525	-0.259508	0.617296	0.769325	1.46711	2.17733	0.988862
4	Mamdc2	0	0.284773	1.01988	1.3868	0.987349	1.28154	2.39407	2.84114	2.4771	2.96215	1.28789

4	Man2b1	0	-0.095301	-0.423594	-0.342957	-0.0220743	1.41054	2.25499	2.39005	0.994397	0.828067	0.330611
4	Man2b2	0	-0.0394853	-0.173995	-0.304678	0.0672729	1.50586	2.4625	2.38351	0.770664	0.81037	0.272623
4	Manba	0	0.65744	1.27584	0.722476	1.26418	2.54279	2.81933	3.12892	2.26858	1.804	0.997394
4	Map3k1	0	0.0406432	0.303418	0.916304	1.12083	1.45337	1.8784	2.67562	0.220461	0.473419	-0.904461
4	Map3k8	0	0.567823	2.02004	3.04099	1.01517	1.99651	2.79961	2.85601	1.77247	1.74969	0.795555
4	Mavs	0	-0.45926	-0.0872879	0.559473	1.33932	1.92899	2.48103	2.33273	1.68673	1.48073	1.18546
4	Mcoln2	0	-0.0847732	1.21593	0.792677	1.7863	1.92828	1.98394	2.90023	2.07837	2.47476	0.505329
4	Mdfic	0	0.111909	0.37107	0.611741	1.33748	2.51343	2.61646	2.61591	1.71145	1.97489	1.10255
4	Mertk	0	0.74359	1.09258	0.992187	-0.242796	-0.133923	2.07748	2.4975	0.289142	-0.189873	-0.612728
4	Met	0	-2.09238	-0.149654	-0.678534	0.440585	-2.10912	-0.057289	0.188762	0.506807	0.186395	-1.69612
4	Mfap4	0	-0.611868	-0.91371	-1.31323	-0.356969	-2.09114	1.78099	0.497767	-0.435619	0.130786	-0.532885
4	Mfrp	0	1.09845	0.868273	1.62605	1.9991	1.28847	2.92809	2.95561	3.13252	1.96598	2.63757
4	Mfsd1	0	0.0809104	0.630757	0.474105	0.953776	2.34148	2.85375	2.53776	1.3091	1.16911	0.444628
4	Mgst1	0	0.350933	0.66963	0.925951	1.89249	2.62901	2.63373	2.69794	2.06376	2.54373	1.40086
4	Micall1	0	0.73692	0.912599	1.41568	1.96708	2.09396	3.34943	3.26941	1.71423	1.57135	1.45759
4	Mir207	0	0.483654	-0.159953	0.0353473	-0.195082	-0.0139586	0.888535	1.10134	1.6515	1.72323	2.90666
4	Mitf	0	0.439457	1.34321	1.44882	1.32539	0.85545	2.70042	3.25257	1.66838	1.627	0.136669
4	Mlf1	0	1.97726	2.8188	3.19404	1.30566	2.84377	3.05386	2.07768	2.77055	3.46437	2.0472
4	Mmp12	0	-0.842447	0.625651	1.51284	2.00625	1.78245	2.00729	1.95481	1.47964	2.52753	1.45552
4	Mmp13	0	1.03629	2.19811	2.34343	2.11794	2.4231	2.6807	3.17914	2.28478	3.47668	1.1743
4	Mmp19	0	0.500745	1.22176	1.77877	2.3079	2.86679	2.69283	3.07151	1.76001	2.12755	0.877789
4	Mmp2	0	-0.0580807	0.133649	-0.437409	0.160464	1.59226	2.37673	2.46735	0.977341	1.31805	0.567759
4	Mmp3	0	0	1.06076	1.80604	2.67341	2.40815	1.99639	2.51337	2.36687	2.76602	1.51196
4	Mnda	0	1.18007	1.78356	1.87664	2.62281	3.07713	2.98962	3.43895	2.38251	2.78028	1.57792
4	Mob1a	0	-0.3125	0.782557	0.776302	1.30695	0.20028	2.44687	2.95662	1.4113	1.35333	0.503149
4	Moxd1	0	-0.232305	0.170128	-0.7283	-0.943223	-0.625262	1.53669	2.3691	0.655858	0.583781	0.667541
4	Mpeg1	0	-0.0084055	0.0319881	0.0985004	0.397251	2.03605	2.4818	2.40526	1.44045	1.40762	0.479573
4	Mr1	0	0.470601	0.443665	0.928215	0.487896	1.78265	2.90613	2.91109	1.80103	1.97178	1.55177
4	Mrc1	0	0.0033673	0.885747	0.534087	1.69552	1.6708	2.07146	3.03628	1.15	2.22964	0.233856
4	Mrc2	0	-0.538771	-0.173858	-0.474386	0.156754	1.51878	2.03621	2.32168	0.966466	1.30142	0.861255
4	Ms4a1	0	0	1.10638	1.65404	1.60747	2.03523	1.73162	2.3556	2.49312	3.32022	1.28553
4	Ms4a4b	0	-0.879294	-0.334419	-0.948537	-1.81624	0.764196	0.496142	1.53102	0.704956	1.12882	0.184203
4	Ms4a4c	0	0.181729	0.664453	0.638802	0.750576	2.80404	1.81321	2.79281	0.887656	2.16064	0.733439
4	Mtbp	0	-0.580984	0.404517	0.485526	1.66783	1.78067	2.50032	1.9398	-0.141425	0.819618	0.159019
4	Mx1	0	0.340529	0.844437	0.712359	1.63179	2.36224	2.75987	3.0879	1.20961	1.81462	0.894017
4	Mx2	0	0.140183	0.837379	1.284	1.99841	2.15662	2.6861	2.86994	0.963523	0.957863	0.344462
4	Mxra8	0	-0.174314	-0.327523	0.0063201	0.573058	1.87443	2.25557	2.23937	1.37734	1.82438	0.915235
4	Myb	0	0.688125	1.05563	1.04527	0.835193	-0.575243	2.11922	2.24239	2.39031	2.04852	2.18134

4	Myh11	0	0.422882	0.378053	0.0154982	0.339372	0.350829	2.21484	2.1181	2.1661	2.34222	1.832
4	Mylip	0	-0.320917	0.46548	1.06378	0.387542	1.29236	2.65336	2.82602	1.17662	1.05714	0.36557
4	Myo1e	0	0.54865	1.15779	1.17025	1.53414	2.2602	3.11718	3.09262	1.27161	1.56563	0.586048
4	Myo1g	0	0.157081	0.78918	0.658291	0.79526	2.581	2.50541	2.83223	1.54365	1.84329	0.768254
4	Myoc	0	-0.322223	-0.294985	-0.916199	-1.42815	-1.22356	0.238411	1.65749	0.934517	1.22155	0.526764
4	Myof	0	-0.372379	0.369796	0.602663	1.24011	1.84634	2.34059	2.64826	1.40195	2.16389	0.689584
4	Myom1	0	0.416086	1.55385	0.548314	-0.86503	-0.602712	1.90204	2.2433	0.889721	1.53455	0.655837
4	Myrf	0	0.389897	0.648456	1.29873	2.94055	0.899099	2.50276	2.93776	1.927	1.2945	1.63625
4	Naip2	0	0.0033909	0.708339	0.529471	1.39469	2.35087	2.55141	2.85683	1.42595	1.22518	0.519251
4	Naip5	0	-0.118102	0.716819	1.02995	0.937738	2.03799	2.69739	2.44746	1.07256	0.530209	-0.178109
4	Naip6	0	-1.14099	-0.555787	-0.18422	0.0897295	1.52839	1.89151	1.77718	0.997184	0.921668	-0.0089217
4	Nat2	0	0.711406	0.821181	1.44759	1.09341	2.60515	3.2125	2.68235	1.50867	2.60329	1.54411
4	Nckap1l	0	-0.0566111	-0.0333118	0.29219	1.01726	2.04622	2.49819	2.57314	1.29498	1.29997	0.421233
4	Neat1	0	0.266598	1.26209	1.72583	1.61466	2.91544	3.27333	2.50632	1.41448	1.80386	1.25191
4	Nek5	0	-0.326226	0.0352691	-0.0850773	1.00877	1.33946	1.69034	1.97051	1.59934	2.30513	2.2629
4	Nfatc1	0	0.139852	0.646358	0.172578	0.593176	1.75536	2.12325	2.6444	0.728908	0.981395	-0.738254
4	Nfe2l2	0	0.691069	0.821125	1.21052	1.33052	2.79511	2.90012	2.99411	1.99558	1.97619	0.949518
4	Nfkb1	0	-0.0004363	0.500441	1.09493	1.14606	1.94282	2.40978	3.0896	1.06652	1.52179	0.245344
4	Nfya	0	0.457763	1.12252	1.05329	1.07397	-0.0422813	2.49094	1.7486	0.679564	-0.607055	-0.872749
4	Nhlrc3	0	0.220357	1.43073	1.68993	0.18845	-0.142512	2.15267	3.00017	1.17725	0.926774	0.367108
4	Nid1	0	-0.0793978	0.513638	0.831813	1.3317	1.70718	2.91845	2.68343	0.949708	0.899065	0.272698
4	Nid2	0	0.440463	1.14183	1.20402	1.45181	2.66347	3.1894	2.9187	1.85893	2.11173	1.40543
4	Nlrc5	0	0.610509	0.656006	1.02331	1.84389	2.46931	2.46877	3.1355	1.63877	1.48275	0.319116
4	Nod1	0	0.357374	0.413582	1.02052	1.17896	1.85544	2.8131	3.22677	1.66966	1.83086	1.46504
4	Notch2	0	-0.358852	0.206932	0.361219	-0.0298149	0.782245	2.24326	2.61858	1.37285	1.87201	1.08981
4	Npy2r	0	-0.802048	-0.209421	-1.48885	-0.493255	-2.3916	0.540204	-0.381109	0.527122	1.09605	0.392339
4	Nqo1	0	0.883723	1.63214	1.92976	3.11743	2.41915	2.75984	2.69644	2.30912	3.23625	2.9107
4	Nrk	0	0.0746356	0.0015105	-0.297119	-0.0802313	-0.461876	1.84883	2.20441	1.22914	1.80048	-0.213745
4	Nt5dc1	0	1.17473	1.6736	1.58718	2.7533	2.59667	3.55597	3.19892	1.4934	1.94596	2.02174
4	Ntrk1	0	-0.784869	-0.141359	-0.297084	0.498563	0.657711	1.40528	1.57556	2.18084	0.9367	2.13799
4	Nynrin	0	-0.283043	-0.954881	-0.0451199	0.79227	0.41219	1.64329	1.58685	1.12113	1.88227	2.09072
4	Oas1c	0	-0.380981	0.261953	0.0409723	-0.0127622	1.99466	2.26237	2.09782	0.698647	1.19883	1.87658
4	Oas1g	0	-0.846467	-1.66611	-0.197645	-0.185575	1.04116	1.29566	1.57161	0.846854	1.18357	0.405856
4	Oas2	0	-0.0266424	0.486849	0.86241	1.14003	2.40432	2.32895	2.94373	1.03784	1.60777	0.512976
4	Oas3	0	0.0273023	0.985835	-0.0597162	0.524954	2.06534	2.24526	2.75622	0.698211	1.74314	0.44447
4	Oasl1	0	0.950244	1.606	1.75017	2.35873	2.59742	2.84723	3.55026	0.943522	2.28365	1.85773
4	Oasl2	0	0.0455047	0.257459	0.491887	1.35985	2.22362	2.55954	2.85443	1.13284	1.5209	0.928379
4	Ogn	0	-0.0830738	0.0085897	-0.670581	-0.369222	0.136947	1.82093	1.84579	1.42879	2.00602	1.23338

4	Onecut1	0	0.0732909	-0.498689	-0.157893	0.298918	1.38068	0.211261	0.151823	0.893644	2.06774	2.67628
4	Opalin	0	-0.447138	-0.781808	0.179829	1.53308	1.88827	1.46297	1.70317	1.36167	1.88431	1.62835
4	Osr1	0	-0.983805	-0.973824	-0.993472	-0.210344	0.843561	1.43884	1.54466	0.650816	1.45926	0.612825
4	Otx2	0	1.25655	1.25427	1.59376	1.6307	3.12614	2.45766	1.87355	2.36176	3.34898	3.07031
4	P2rx7	0	-0.390079	1.04335	0.745912	0.660096	2.36016	2.36679	2.72102	1.28224	1.18375	0.469472
4	P2ry14	0	0.668799	0.635471	0.887545	0.374003	2.69127	2.69346	2.62749	1.75308	1.84218	0.720645
4	P3h2	0	0.967685	1.03176	1.71832	1.31491	1.63213	2.16905	3.60315	2.29554	2.99815	2.17311
4	Pabpc5	0	0.867228	1.40027	-0.40199	0.281129	-1.12159	0.985554	2.0235	2.0702	1.41166	0.431488
4	Padi2	0	-0.483548	-0.50465	-0.75116	-0.912008	-0.0434185	1.00697	1.93506	1.23554	1.52045	0.979046
4	Parp14	0	-0.731004	0.256062	0.682245	0.806913	1.84268	2.24846	2.6131	0.866741	1.34769	0.416068
4	Parp4	0	-0.294113	0.352207	0.320867	0.702938	1.6426	2.55535	2.68644	1.28053	1.80212	0.831437
4	Parp9	0	-0.240667	0.564587	0.806785	1.30514	2.07902	2.55018	2.86866	1.08699	1.40282	0.501482
4	Pawr	0	1.06	2.18638	2.51159	2.86666	0.918866	2.82897	2.7815	2.4783	3.17666	2.32505
4	Pcdh20	0	-0.610154	-0.263684	-1.37636	-1.85678	-2.43722	-0.881647	-0.119503	0.554185	0.835359	-0.0716123
4	Pcdha7-g	0	-0.55883	-0.0331023	-1.49912	-1.62714	-3.1144	-0.704758	-0.680634	0.179849	-0.158055	0.114147
4	Pcdhb2	0	-0.413597	0.294827	0.267169	-1.24664	-1.38181	0.229912	1.02761	0.983419	0.816454	2.0193
4	Pcdhb21	0	-1.00034	-2.93139	-1.40198	-0.588832	-3.11346	-1.63234	-0.886052	-0.85895	-0.49497	-0.458078
4	Pcdhb9	0	-0.493947	-0.968937	-1.46411	-1.08339	-1.26971	-0.0849009	-0.331962	0.337587	0.883696	1.86898
4	Pdcd1	0	-0.127871	0.735949	1.06425	0.933479	2.43067	1.93337	2.96147	2.14131	1.60864	0.578804
4	Pdgfd	0	0.574297	0.643805	0.408643	0.977493	-0.965649	2.42833	1.98788	1.88266	1.82957	0.982515
4	Pfkfb3	0	1.29237	2.52836	2.19976	1.2716	0.336286	2.27593	3.13328	1.48752	0.830184	0.462129
4	Pgm5	0	0.778378	1.15611	0.385285	1.06341	2.13783	2.82964	2.66752	1.83445	2.63312	2.46754
4	Pgpep1	0	0.430062	-0.966427	-0.172791	0.295272	1.20491	2.37079	2.06207	1.11111	1.42967	0.319359
4	Pgr15l	0	0.629349	0.657389	1.03757	1.53511	-2.1667	0.32999	-0.143018	0.665923	1.03964	1.22074
4	Phf11c	0	-1.25464	1.29364	1.22849	0.83948	0.905151	1.4262	2.43268	0.564143	0.673596	-0.503427
4	Phf11d	0	0.212277	0.725821	0.636396	1.57432	2.25443	2.70738	3.05239	1.5256	1.93762	1.09027
4	Phldb2	0	-1.21776	0.849994	0.210935	0.560143	1.7798	1.62661	2.00898	1.00536	2.13976	0.707379
4	Phyhd1	0	0.180006	-0.157605	0.552414	0.840391	1.49911	2.95697	2.14121	0.577983	0.855342	-0.210173
4	Pik3ap1	0	-0.156985	0.782178	0.62907	1.16649	1.66683	2.71333	2.89366	1.31773	1.55818	0.360498
4	Pirb	0	0.32856	0.720319	0.866979	1.58606	2.76167	2.29737	2.77438	1.82043	2.5796	1.003
4	Pla1a	0	0.209027	0.771092	1.12037	1.45144	1.71009	2.27767	2.63284	1.52115	1.92252	-0.596563
4	Pla2g15	0	-0.0088975	-0.653127	-0.634593	-0.788095	0.687966	1.806	2.27985	-0.0012857	0.478563	-0.338722
4	Pla2g4a	0	-0.338651	0.184605	0.432814	1.89225	2.07731	2.34647	2.35304	1.21175	1.38565	0.298447
4	Pla2r1	0	0.34459	0.779745	0.260154	2.00447	2.35896	2.71599	2.39769	1.91011	2.06629	0.674099
4	Plac8	0	-1.0744	0.946095	0.76079	1.14324	2.34955	1.36175	2.31551	1.15675	1.79343	0.467282
4	Plau	0	0.417478	1.54639	2.53318	1.72327	2.88661	2.70789	3.15309	2.0103	2.01541	1.22525
4	Plce1	0	0.40385	1.12365	2.22532	3.16886	1.69611	2.71473	2.83331	2.27074	1.9478	1.42591
4	Pld1	0	1.1141	1.55542	1.02694	0.902367	1.526	3.28155	3.31937	1.89325	1.72378	2.38175

4	Plek	0	0.552712	0.862456	1.53224	1.95389	2.2883	2.82076	3.0598	1.62936	1.57289	0.308839
4	Plekhf2	0	0.473281	0.893003	1.44614	1.44411	2.21625	3.22875	3.20265	1.55206	1.54409	1.46662
4	Plekho2	0	-0.16287	0.0610645	0.75777	0.678697	1.76629	2.3787	2.69472	0.147054	1.28915	0.258899
4	Plod2	0	-0.386094	1.90079	1.34098	1.59954	2.92602	2.33192	2.28393	1.45169	1.78702	2.32061
4	Plscr1	0	0.154226	1.73328	2.28634	2.41698	2.40228	2.5526	2.97488	2.4588	2.75244	2.26807
4	Plscr2	0	-0.568626	0.777211	1.47209	1.60082	2.50935	2.19384	2.58966	1.77378	1.96603	1.35917
4	Plscr4	0	-0.432094	-0.377278	-0.0508872	0.224385	1.67419	1.84349	2.08441	1.52296	1.98203	0.860332
4	Pltp	0	-0.175376	-0.586323	-0.843796	-0.763295	0.902159	1.26308	1.97433	1.14291	1.59952	0.915437
4	Plxnb2	0	-0.0449179	-0.242208	-0.16341	0.265325	1.54023	2.54246	2.35252	1.08227	1.08692	0.364728
4	Pm20d1	0	-0.651098	0.741972	1.68752	-0.503693	1.63213	1.55884	2.54478	1.48476	1.2489	0.668844
4	Pmp22	0	1.07823	1.72146	1.48726	1.10738	2.87297	2.83278	3.56828	2.01847	1.51581	1.36765
4	Pnpla7	0	0.858527	0.854214	1.1296	-0.201553	1.32321	2.62941	2.92647	1.16261	0.367327	0.220626
4	Podn	0	0.0318725	-0.0371887	-2.14199	-0.951419	-1.80689	0.0119884	0.595116	0.193769	-0.26467	-2.15606
4	Podxl	0	-0.883351	-0.0756244	0.645148	2.06943	0.232981	0.849774	0.821275	0.573409	0.305085	2.72804
4	Pon3	0	0.396837	0.354923	0.670325	1.05935	2.29924	2.81955	2.82479	1.8795	1.75277	1.09957
4	Postn	0	0.510264	0.311495	0.737851	1.46709	1.82778	2.75088	2.91279	2.20014	2.18954	1.09417
4	Pou2af1	0	-1.73526	-0.128682	0.55588	0.240921	1.16959	0.654717	1.74651	1.21802	1.83028	0.465357
4	Pou3f4	0	-0.462494	-1.2943	-0.848391	-0.626746	-0.334614	1.69309	1.17025	1.09832	1.05774	0.913335
4	Ppl	0	0.602372	2.02132	2.58785	1.82296	1.18231	2.26558	2.99784	2.27542	2.87309	3.05147
4	Ppp1r36	0	-1.14919	0.315195	-0.513276	0.305943	1.54284	1.75791	0.859525	1.45659	2.0272	1.05552
4	Ppp1r3b	0	-0.165879	1.22068	1.46161	1.76915	2.39911	2.90651	2.84525	2.00522	1.86881	1.7189
4	Pqlc3	0	-0.200536	-0.0403518	0.0944628	0.880031	2.23841	2.35904	2.2292	0.992151	1.86327	0.884619
4	Prdm12	0	1.06082	0.0548089	0.570303	1.26481	1.32526	1.91386	2.60516	2.17246	2.40922	2.86127
4	Prdm5	0	-0.375579	0.6086	1.22331	1.31905	2.9725	2.10707	1.67546	2.28129	1.93102	1.007
4	Prelp	0	-0.466482	-0.315147	-0.616335	-0.513928	-0.27319	1.11161	1.75128	1.37784	1.83909	1.38336
4	Prlr	0	0.804374	1.33465	1.44325	1.66793	1.51446	2.69632	2.64619	2.43938	3.32289	2.87701
4	Pros1	0	-0.0363235	0.733049	1.047	2.10645	2.63432	2.70052	2.56843	1.47983	1.40938	0.832208
4	Psmb9	0	-0.704302	0.112706	0.0471214	0.52189	2.19402	1.74217	2.39608	1.34318	1.41429	0.687806
4	Ptafr	0	0.0573338	0.943849	0.104494	0.540337	1.79155	2.1833	2.89756	1.60022	1.88706	0.308969
4	Ptgdr	0	-1.19601	0.677718	0.507266	1.1411	1.48622	1.55054	2.2644	0.977938	2.03317	1.78063
4	Ptger4	0	0.587548	1.46139	2.36166	1.59786	2.13267	2.63808	3.09896	1.91352	1.3232	0.171212
4	Ptgfr	0	-1.32243	-0.726577	-0.165457	0.365145	0.702648	1.38417	1.31649	1.06633	1.62264	1.68724
4	Ptpn22	0	1.16349	0.968717	0.647532	2.27284	1.619	1.16002	3.19283	1.21319	3.17792	1.12905
4	Ptpn6	0	0.0664107	-0.27984	0.267496	0.865072	2.05574	2.30802	2.5199	1.44383	1.51074	0.412758
4	Ptprb	0	-0.191949	1.24999	0.594374	0.877532	2.25402	3.16624	2.25923	1.30969	0.996656	1.09111
4	Ptprc	0	0.100378	0.185422	0.388916	1.08219	2.11486	2.31788	2.72482	1.5921	1.72476	0.276725
4	Ptrf	0	-0.34861	0.773231	1.21205	1.48378	2.49008	2.71725	2.43911	1.44734	2.03981	1.81625
4	Pydc3	0	0.331483	0.0636906	0.0147462	0.188638	1.62242	2.00322	2.89242	0.687081	1.89236	0.515739

4	Pydc4	0	0.261926	0.601141	0.678779	0.223999	2.28884	1.81018	2.87843	-0.0857916	1.63798	0.600233
4	Pygl	0	0.761837	1.0033	1.11531	0.667905	2.94571	2.79401	3.01077	1.79536	1.72209	1.546
4	Pyhin1	0	-0.380937	0.223176	0.503584	1.48946	2.04421	2.21103	2.68535	1.46752	1.88084	0.949232
4	Pyroxd2	0	-0.106383	0.488921	-0.514708	0.721461	1.91418	2.53348	2.30952	1.08822	1.42917	1.2222
4	Rap1b	0	0.208644	1.25401	1.4153	1.95465	1.97376	3.00986	2.6938	1.16729	1.10758	0.144118
4	Rarb	0	-0.897886	-0.927379	-1.35951	-1.76655	-3.43565	-0.359632	-0.126675	-0.218954	-0.306886	-0.595297
4	Rasgrp3	0	0.155247	0.659438	1.02723	0.342863	1.83055	2.88936	2.85483	1.40954	0.827589	0.686721
4	Rassf4	0	0.521371	0.303686	0.258192	1.37658	2.12312	1.91491	3.17593	1.61218	1.93412	0.543916
4	Rassf8	0	0.0233147	1.56043	1.09253	1.85274	-0.721972	1.86408	1.96205	1.42653	2.46491	1.69081
4	Rassf9	0	-0.712853	0.452353	0.804476	0.915701	1.62232	2.40682	2.20095	1.76214	2.14474	1.7105
4	Rbm47	0	0.376721	0.867531	0.297281	1.56491	2.47219	2.86507	2.79611	1.45163	1.84533	1.22179
4	Rcn3	0	0.0193955	-0.562998	-0.650562	-0.0118796	1.50647	1.97795	2.12128	1.30993	1.34983	0.866055
4	Rdh5	0	1.33059	1.05164	0.867883	1.17147	2.67478	2.28436	2.29872	2.58727	3.04715	2.94504
4	Reep3	0	0.298256	1.35651	1.29165	1.69742	1.81816	3.01391	3.18736	1.53624	1.09467	0.588082
4	Retsat	0	-0.102996	0.685694	0.564459	0.336934	0.931286	2.67951	2.77467	1.77867	1.82611	1.04848
4	Rftn1	0	-0.0139808	-0.430003	-0.344799	0.288129	1.78949	2.21548	2.04536	1.08032	1.79938	0.989245
4	Rgs22	0	-0.252314	0.823187	0.21132	0.13355	0.816046	2.18602	1.55757	2.35486	2.38236	1.7879
4	Rhod	0	0.775709	0.518339	1.52966	2.52836	2.92217	2.61838	2.9615	2.06867	1.91146	2.12268
4	Rilpl2	0	1.79305	1.44676	1.96586	1.4526	2.87709	2.12716	3.9844	1.66044	2.6154	2.3756
4	Rin2	0	0.964865	0.981474	0.859001	-0.0635611	2.02604	3.2092	2.56603	0.994388	1.19046	0.841088
4	Ripk2	0	2.27019	2.63384	2.58124	1.51495	2.2742	3.32703	3.13381	0.656047	1.90068	1.87072
4	Rorc	0	0.848168	0.973825	0.754381	0.582838	1.68601	2.82993	2.52943	2.47064	2.72005	2.18011
4	Rp2h	0	-1.08003	0.0445071	-0.180243	0.510274	0.290768	1.66877	2.55845	1.08067	1.05832	-0.0495261
4	Rpl31-ps12	0	0.443582	0.391957	-1.66336	-1.72978	-1.17084	0.858583	0.741925	0.521337	0.678692	0.710015
4	Rps5	0	0.0609674	-0.722612	0.0132088	1.24686	1.48729	0.944732	1.6195	1.11014	1.90571	2.64399
4	Rsad2	0	0.400112	0.80193	0.821411	1.63054	2.47106	2.49504	2.95792	0.821243	1.55937	0.265747
4	Rsph1	0	0.0997665	-0.313376	-0.746422	0.0208898	1.64203	1.16343	1.54725	1.53854	2.13291	1.75404
4	Rsph4a	0	0.262256	0.428769	0.465123	0.16621	0.522925	1.64274	2.03622	1.78542	2.03176	2.97747
4	Rtp4	0	-0.537304	0.23395	0.671671	1.25091	2.02888	2.3745	2.60737	0.950813	1.34804	0.508597
4	Rwdd3	0	0.167536	-0.815305	-0.360275	-0.179674	-0.145646	0.202713	0.7597	1.08997	1.79492	2.5319
4	S1pr3	0	-0.424594	-0.143829	0.482295	1.98552	1.74622	1.77431	2.54929	1.56194	1.33157	0.333661
4	Saa3	0	0	1.16031	1.59907	2.11788	2.32492	2.46462	3.03276	2.58072	2.16662	1.59992
4	Samd9l	0	-0.745892	0.152475	-0.138712	0.836841	0.831076	2.01661	2.63246	1.11355	1.6588	0.752427
4	Sat1	0	1.09493	1.34346	1.45312	1.72735	2.99591	3.27298	2.9759	1.71295	1.85281	0.818387
4	Scara5	0	0.972191	2.18947	1.82079	2.50943	2.05003	3.32413	3.4982	2.0976	2.74775	1.65984
4	Scarb2	0	0.00114	0.898587	0.321763	0.267208	1.04953	2.89491	2.80502	1.39952	1.24603	1.13204
4	Scn9a	0	0.776027	0.108392	1.52844	1.5879	0.231873	1.58946	2.56724	1.75376	2.63527	2.63155
4	Scpep1	0	0.470057	0.369302	0.547982	1.20205	2.28419	2.76924	2.89828	1.30484	1.79734	0.797516

4	Sec14l5	0	-0.594531	1.09817	2.17449	2.49832	0.481479	1.531	2.53494	1.67998	1.33979	1.59167
4	Sema3b	0	0.826361	0.381597	0.612669	0.933967	2.17989	2.52306	2.4908	2.14308	2.40291	2.61915
4	Sema3d	0	0.556393	1.55143	1.41076	2.11947	1.61021	3.33513	3.01374	2.15704	1.89459	0.76537
4	Sema4d	0	-0.100746	0.195626	0.0009621	-0.104059	-0.0473919	2.11514	2.79903	1.15127	0.871129	0.132543
4	Sepp1	0	0.771601	0.931351	1.17968	0.353967	1.51905	2.60273	3.54992	1.44799	1.81676	1.58929
4	Serp1	0	-0.369559	1.33367	1.40526	1.70424	1.46988	2.81433	2.877	1.34677	1.0501	0.611818
4	Serpina9	0	-1.10335	-1.78232	-1.91394	-2.77529	-2.45226	-0.635233	-0.192645	-0.356762	-0.700352	0.0312277
4	Serpinb1a	0	-0.858914	0.0230225	0.73169	-0.181719	0.490995	0.748701	1.88704	1.71709	1.88961	2.11638
4	Serpinb6a	0	0.185712	0.531971	1.03845	1.16375	2.37046	2.97992	2.63839	1.5726	2.19799	1.27589
4	Serpinb6b	0	0.119807	0.50244	0.942098	0.523104	2.37599	2.71809	2.36369	1.53514	2.08109	0.512984
4	Serpinb9	0	-1.10864	0.0173296	-0.0195896	0.633201	1.81978	1.84399	1.93557	1.05241	1.72194	1.07291
4	Serpind1	0	0.042464	0.43502	0.132898	0.889565	1.1952	2.34655	2.96669	1.67913	2.0606	1.15979
4	Serpine2	0	0.912014	1.08791	1.17252	0.560287	2.14217	3.32155	2.98377	1.54946	1.38765	2.08471
4	Serpinf2	0	0.676467	1.46632	2.44368	3.17179	0.792827	2.48061	2.94518	2.22849	2.1277	1.6804
4	Serping1	0	-0.199219	0.0584434	0.188861	0.979529	1.2871	1.98215	2.77513	1.83805	2.07652	0.852719
4	Sfrp4	0	0.282032	1.62484	1.26667	0.674523	0.733501	0.212098	3.01422	0.960476	2.84102	0.961241
4	Sgpl1	0	-0.0187947	0.481738	0.524226	1.19053	1.85345	2.78961	2.87335	1.12885	1.25897	0.596584
4	Sh3pxd2b	0	0.089835	0.391678	0.0893291	1.68583	1.20591	1.88853	2.79688	0.543924	1.14173	-0.577859
4	Shroom3	0	0.992904	1.18439	2.14692	0.997185	2.04626	3.2788	3.28967	1.30845	1.89483	2.30872
4	Siglec1	0	0.0238619	-0.412529	-0.083313	0.862906	1.72422	2.42206	2.31243	1.11049	1.58415	0.422062
4	Siglecf	0	-0.0852901	-0.203319	0.192985	-0.07046	1.20805	1.46206	2.6948	1.9829	0.904425	-0.152023
4	Sirt2	0	-0.0683594	-0.286738	0.355629	0.54297	0.484722	2.63193	1.47383	0.0047241	-0.354404	-1.1194
4	Six3os1	0	-0.0571063	-0.365283	-0.380769	-0.0302613	1.13548	1.39989	1.13568	0.98976	0.901035	2.95986
4	Six4	0	0.753795	0.693076	1.91011	0.133449	-2.24839	0.307662	-0.0974754	-0.199356	0.114584	0.671349
4	Skap2	0	-0.22265	0.0555746	0.393686	1.55785	2.05662	2.47571	2.6173	1.1542	1.33442	0.825252
4	Slamf6	0	-1.10409	-0.294809	0.228361	0.450669	1.64875	1.78215	1.92678	1.39838	1.27551	-0.078271
4	Slamf7	0	-0.429291	0.440885	0.592693	1.02971	2.10542	1.72973	2.51669	1.84904	2.48788	1.05745
4	Slc10a4	0	1.28045	1.19593	-0.774272	1.08405	0.5684	2.1427	1.99662	2.13557	1.87472	2.39764
4	Slc11a1	0	0.0493417	0.59859	1.11121	1.73123	2.60756	2.24238	2.86827	1.85835	1.82948	0.585871
4	Slc12a7	0	-0.349005	0.120981	0.284268	1.41377	2.04657	2.5262	2.29028	1.40819	1.84833	1.12592
4	Slc13a4	0	-0.476488	0.226972	-0.0408351	0.361442	-0.235745	1.63965	2.28867	1.45677	2.03848	1.53742
4	Slc15a3	0	0.0892536	1.22407	1.38607	2.05357	2.52148	2.62939	2.76626	1.55389	1.81528	0.342042
4	Slc16a1	0	0.0898239	1.11092	1.15045	1.9738	1.0251	2.24424	3.25952	2.32415	2.35617	1.48452
4	Slc16a12	0	-0.691162	1.97068	0.642831	1.08178	1.2644	2.97376	1.92516	1.64369	1.50425	1.57851
4	Slc16a9	0	-0.400613	1.12549	0.984201	1.68263	2.90366	2.45853	1.98347	1.24198	2.0843	0.876816
4	Slc1a5	0	-0.855822	0.657417	0.749671	1.96925	2.02455	2.31611	2.16728	1.21173	0.876019	0.485444
4	Slc22a6	0	-1.12127	-1.61089	-2.22962	-1.50845	-0.44195	-0.0065621	0.543689	0.118007	0.629859	0.569838
4	Slc26a7	0	-1.11199	0.270903	-0.852994	-0.237138	-0.629523	0.792055	1.49115	1.02374	1.82499	1.27481

4	Slc29a3	0	-0.161152	-0.0924774	0.294156	0.639804	1.38644	2.28698	2.95311	1.15064	0.961677	0.450464
4	Slc2a10	0	-0.795514	0.28115	-1.36131	1.48539	1.04432	1.42802	1.94663	0.287875	1.04967	0.467761
4	Slc2a12	0	-0.15033	0.327416	1.20114	0.194172	0.533718	2.70791	1.79341	2.01642	1.9544	2.03053
4	Slc2a4	0	-0.13551	-0.969625	0.145039	-0.954457	0.847302	1.49707	2.13054	1.07396	1.3667	0.816281
4	Slc2a9	0	0.177498	1.00716	1.47124	-0.0064053	2.52736	2.66168	2.58322	0.845287	1.07715	1.14322
4	Slc35d3	0	-0.468132	-1.05983	-2.00859	-1.83161	-3.14931	-0.469138	-0.393234	-0.359547	-0.583487	0.0982576
4	Slc37a2	0	0.489269	0.763076	0.927365	1.4293	2.41395	2.9776	3.09848	1.64786	1.89108	1.16495
4	Slc40a1	0	-0.896231	0.188287	0.945019	-0.945619	0.988676	1.59758	2.40122	1.04722	0.891513	0.863109
4	Slc43a3	0	0.903605	1.33595	1.30685	1.74357	2.91503	3.05023	2.99816	2.39285	1.98351	0.863959
4	Slc44a1	0	0.630312	1.17568	1.15436	1.73144	2.44274	3.20974	3.16865	1.89051	1.50422	1.08783
4	Slc46a3	0	-0.0447678	0.509166	2.00084	1.02468	1.88055	2.93017	2.59212	1.15334	1.25832	0.497221
4	Slc47a1	0	-1.46846	-0.942763	-1.49922	-0.972633	-0.0049975	0.333545	1.15225	0.67329	1.29314	0.522095
4	Slc4a5	0	0.976947	1.56683	2.05417	1.93933	1.55979	3.12963	2.6101	2.80202	3.10746	3.05126
4	Slc5a7	0	-0.0651196	-0.58459	-0.549912	0.25881	-1.52411	1.18475	1.53138	1.42852	0.815391	1.36441
4	Slc6a13	0	0.109463	0.135363	-0.181406	-0.0369079	0.893585	2.12958	2.00961	1.6075	2.32075	1.75783
4	Slc6a20a	0	0.282105	0.084714	-0.379356	0.549975	-0.0634598	2.2012	2.1978	1.65216	1.85506	1.6765
4	Slc7a11	0	-0.746739	0.689166	0.948483	2.09597	0.584297	1.32061	2.73803	1.56824	2.06542	1.36953
4	Slc7a2	0	-0.177294	1.15202	1.29639	0.651695	-0.632755	1.96449	2.75726	1.37856	1.7202	0.809734
4	Slc8b1	0	0.484243	0.876647	1.25418	1.4638	2.97644	3.00038	2.5734	1.59586	2.41011	2.01852
4	Slc9a2	0	-1.18089	-0.877079	-2.05262	-1.96607	-1.86339	0.0692669	0.263803	0.0641198	0.570321	0.206904
4	Slc9a9	0	0.205163	0.0255847	-0.398067	-0.089242	0.812246	1.75164	2.93252	1.54418	1.01852	1.15737
4	Slfn1	0	0.190444	0.326368	0.614866	1.51445	2.62906	1.87028	2.90006	1.34381	2.16404	0.835334
4	Slfn2	0	0.0615198	0.330644	0.730729	1.47551	2.10673	2.20445	2.98169	1.22173	1.90138	0.35347
4	Slfn4	0	0.782919	0.252173	0.366904	1.63524	1.78619	1.65352	3.20615	1.08085	2.02418	0.0383321
4	Slfn8	0	0.0087941	0.269639	0.8285	1.56383	2.49478	2.35654	2.7923	1.3961	1.83954	0.832271
4	Smco3	0	0.500889	1.63664	1.58463	0.397439	-1.36366	1.23707	1.15435	1.54866	1.66376	2.12102
4	Smo	0	0.145926	0.0368263	-0.376265	0.732017	2.0006	2.21809	2.17936	1.09435	2.09217	1.58762
4	Smoc1	0	0.560672	-0.0982776	0.558862	0.765357	2.54508	1.8382	2.44171	1.85396	2.52911	1.18388
4	Snap23	0	0.213791	0.675177	0.93531	1.56056	1.52248	2.87868	2.99201	0.976601	0.985744	0.258472
4	Sned1	0	-0.909657	-0.0603208	-0.482081	-0.0067108	-0.219442	1.00606	2.68843	0.502872	1.33188	0.724552
4	Snx33	0	0.872946	1.18706	1.36356	1.11849	1.3404	3.49149	3.23094	1.79383	1.67745	1.26766
4	Snx5	0	0.108263	0.855603	0.76344	0.487017	1.79809	2.68915	3.05762	1.71864	1.74562	0.978441
4	Snx9	0	-0.137927	0.577238	0.0199881	0.695277	1.42431	2.38906	3.03339	1.42907	1.29441	1.18084
4	Soat1	0	-0.21683	0.443361	0.259062	0.535398	1.51822	2.51004	2.81701	1.26039	1.3975	0.392431
4	Socs4	0	0.578738	1.91466	1.85544	2.81444	0.0760267	2.09805	2.62283	2.38969	2.34853	1.75134
4	Socs6	0	0.158	1.32069	2.05731	1.90711	1.44717	3.39713	2.64594	1.1183	2.14735	1.28092
4	Sod3	0	-0.638396	0.234608	-1.09004	-0.622789	1.25408	1.88629	1.78706	1.02679	0.90598	0.589337
4	Sostdc1	0	1.14293	0.187613	0.539361	0.189321	2.00297	2.05525	1.78468	2.35519	2.46789	2.54259

4	Sowahc	0	0.543789	1.53271	1.78176	1.363	1.7139	3.23123	3.39823	2.12001	2.20001	1.55882
4	Sox10	0	-0.581752	-0.989215	0.370848	1.08325	1.73924	2.10226	1.41533	1.39893	1.15567	1.54904
4	Sox21	0	-1.79231	-1.17428	0.674005	-0.151779	-0.601927	0.731444	0.220647	1.08359	1.13791	1.30491
4	Sp100	0	-0.358876	-0.553386	-0.342118	0.571847	1.56011	1.8455	2.39098	1.06523	1.34791	0.199113
4	Sp140	0	0.174126	0.320681	0.261244	0.86607	2.45201	2.34956	2.76265	1.61408	1.71119	1.18379
4	Spag16	0	0.463674	1.05515	1.02104	0.865567	0.760118	2.27951	2.01321	2.60641	3.00912	2.46245
4	Spata13	0	-0.229278	0.700023	0.943524	0.879783	1.83899	2.64449	3.07846	1.28962	1.2002	0.939243
4	Spata17	0	1.6582	0.779055	2.06264	1.3525	2.18472	3.2317	1.60865	2.27087	3.25671	2.81686
4	Spata18	0	0.258375	0.616233	-0.105299	0.22468	0.71482	2.33348	2.01061	1.48126	2.57247	2.00341
4	Spata6	0	1.3999	1.25561	1.25895	2.00696	3.28161	3.2031	3.02448	2.08864	2.62472	1.98133
4	Spef2	0	0.651588	0.570551	0.0661182	0.304716	2.13815	2.3309	2.08068	2.06197	2.56143	1.85429
4	Spint1	0	-0.3558	0.196472	0.673904	1.6891	2.28681	2.34952	2.64808	1.22357	1.20061	1.05386
4	Spn	0	-0.792485	0.417818	1.24042	1.21149	2.1242	1.55831	2.42323	1.84905	2.20079	0.926319
4	Sqrdl	0	0.0039129	-0.187584	0.179455	0.248457	2.19865	2.14719	2.3598	1.45259	1.72968	0.857909
4	Srebf1	0	-0.300976	-0.615284	-0.785673	0.236082	1.30729	1.60902	2.10095	1.25746	1.61344	0.949975
4	Sstr4	0	-0.668608	-0.946546	-0.938117	-0.953373	-3.87161	-0.62743	-0.576822	-0.640293	-0.577475	-1.1013
4	St14	0	0.274011	0.644681	1.09738	1.20451	2.47211	2.38431	3.06794	1.67001	1.09778	0.338255
4	St8sia6	0	1.76724	2.65181	2.51624	2.10931	1.13039	2.42932	3.25207	3.50354	2.8971	1.78285
4	Stap1	0	0	1.21956	1.45947	1.67905	2.03633	2.23696	2.55829	2.38385	3.22459	1.75274
4	Stard6	0	0.815305	1.07463	1.33326	1.53389	1.70084	2.02869	1.69949	2.40692	2.06285	-1.01284
4	Stat1	0	-0.0321456	0.061297	0.282867	1.00197	1.62472	2.4825	2.93278	0.89218	0.996799	0.543928
4	Steap4	0	0.697375	1.50929	1.7073	2.60475	1.63417	1.47307	3.23335	2.94458	2.87091	1.39465
4	Stk10	0	-0.389633	0.0012652	0.04798	0.382031	1.46968	2.3453	2.67039	0.924713	1.04251	0.402164
4	Stk17b	0	0.780442	1.44602	1.57562	1.55208	0.961975	2.95525	3.61118	1.44515	2.03204	1.10591
4	Stk33	0	-0.295912	0.0315649	-0.0008048	1.15198	1.57748	0.469317	1.09617	1.59078	2.60889	2.34629
4	Stom	0	-0.262867	1.05616	0.646576	1.25618	2.58795	2.68363	2.4639	1.38625	1.76029	0.817615
4	Ston1	0	-0.0115381	0.641711	0.981798	2.28071	0.352735	3.20626	1.62665	0.886962	1.33964	0.338099
4	Stxbp3	0	1.09347	2.00585	3.73139	2.33721	1.28577	2.80046	2.88392	2.06667	2.38382	1.9203
4	Sulf1	0	0.459651	0.501789	0.845733	1.8799	1.25567	2.56834	3.21503	2.06628	2.29673	1.55372
4	Sulf2	0	0.169002	-0.0166656	0.593131	1.39707	0.736967	2.47514	2.8446	1.07986	0.719381	-0.15847
4	Svep1	0	-0.567159	0.0417174	-0.742737	-0.503465	-1.20958	1.45471	2.00572	0.686976	1.07472	0.622709
4	Svil	0	0.522326	0.9532	1.24274	0.977233	1.76132	3.1532	3.31694	1.5588	1.57047	1.28325
4	Syne2	0	0.221746	1.29095	1.36025	1.05107	1.81615	2.96078	3.01636	2.33316	2.39367	1.83737
4	Sytl4	0	0.759775	1.08869	1.81433	1.95555	2.01517	0.908728	2.19764	1.95024	3.41986	3.04119
4	T2	0	0.364445	0.629729	0.80977	0.622908	2.15468	1.88303	2.40451	1.03886	2.74912	2.68836
4	Tac1	0	-0.489358	-0.55221	-0.740267	-1.37502	-3.0254	-0.397336	-0.0120096	-0.0832653	0.388454	0.655852
4	Tagap	0	-0.619024	-0.592295	-0.967854	-0.837479	-0.58524	1.36011	1.88175	0.0245345	-0.127691	-1.49164
4	Tbc1d2b	0	-0.911244	-0.121272	-0.455317	-0.0960275	-0.765139	1.54421	2.4038	0.37123	0.947472	0.372347

4	Tbx15	0	-1.13582	0.457733	-0.111741	0.0558114	0.631796	1.9589	2.11004	0.936336	1.7685	0.150479
4	Tbx18	0	-0.135265	0.19408	-0.0349771	0.179686	2.19504	2.07235	2.44612	1.14247	1.7515	0.71006
4	Tcfl5	0	-0.0941918	0.0681303	-0.12052	1.83178	-2.35747	0.434466	-0.0274086	0.596015	-0.0539711	-0.727812
4	Tec	0	0.570451	1.19611	1.23731	1.06196	2.59463	3.0009	2.98841	1.75702	2.25919	0.923823
4	Tek	0	-0.97757	-1.56636	-1.32848	0.215084	0.306011	1.5696	1.20389	0.698435	0.552971	0.232842
4	Tfap2b	0	0.674453	0.341035	0.664657	1.33592	2.25562	2.58335	2.48371	1.92158	2.95412	1.5486
4	Tfpi	0	0.148229	0.414048	0.486273	1.35727	2.33387	2.63892	2.69139	1.95483	1.90503	1.22027
4	Tgfbr1	0	-0.60827	-0.0116272	0.15141	0.0987394	1.19871	2.04758	2.67618	1.22828	0.790884	0.0897783
4	Tgfbr2	0	-0.307481	0.437381	0.619368	0.987321	1.72037	2.77463	2.74407	1.36312	1.29694	0.735709
4	Tgif2	0	-0.658452	0.235181	1.21617	1.87487	2.08909	2.63566	1.76726	0.778144	1.70616	1.5348
4	Tgtp1	0	0.758991	2.14594	1.62596	2.08289	2.54915	2.43042	3.17401	0.946209	2.85896	2.78483
4	Tgtp2	0	-1.30116	-1.20774	0.245028	-1.14783	0.408472	0.781452	1.69492	0.881562	1.08228	0.437625
4	Thbs2	0	-0.741667	0.0206693	0.001456	1.05188	1.33612	2.0055	2.27606	1.3309	2.07942	0.781618
4	Thbs4	0	0.0703683	0.716125	0.680534	0.409903	0.214979	2.44464	2.60089	2.03714	2.04486	1.71538
4	Ticam2	0	-0.0477244	0.0797236	0.674035	1.05929	2.50504	2.46279	2.53416	1.26778	1.70933	0.867311
4	Tifa	0	1.21192	1.66822	1.78423	1.26021	2.54646	3.27252	3.59195	1.52273	1.95729	1.49841
4	Tlr1	0	0.986542	1.16636	1.83377	2.60752	2.9836	2.88479	3.25032	2.36095	2.44299	1.50894
4	Tlr13	0	0.211656	0.778241	0.680517	1.62115	2.32459	2.69966	2.52168	1.1301	1.41386	-0.0836693
4	Tlr2	0	0.40868	0.242847	0.863634	1.7308	2.23637	2.43153	2.79625	1.70216	1.44886	0.0946217
4	Tlr3	0	-0.213592	0.344596	0.184942	0.372471	0.571274	2.31174	2.74248	1.81135	1.66574	1.02209
4	Tlr4	0	0.763792	1.8017	1.44454	2.30434	2.50421	3.05187	3.27702	2.14359	2.5265	1.07627
4	Tlr6	0	-0.147846	1.12939	1.05526	1.32745	2.66012	2.43431	2.82016	1.45745	1.58672	0.527313
4	Tlr8	0	-0.137664	0.660568	0.617209	1.09964	1.57391	2.54941	2.87024	1.59559	2.23499	0.766469
4	Tlr9	0	-0.235099	0.746175	0.212181	0.19905	1.50102	2.21802	2.87241	1.44932	1.18371	0.153686
4	Tmem123	0	0.54715	0.61832	0.980312	1.85209	2.27478	2.64301	3.28967	1.98093	2.21369	1.5059
4	Tmem154	0	0.481269	0.820932	1.525	1.24431	2.32725	3.07488	2.90718	1.88258	2.21964	0.838608
4	Tmem220	0	-0.141	0.720185	0.862435	0.406451	2.61306	2.35861	2.14037	1.38007	2.13576	2.11181
4	Tmem232	0	0.945406	-1.12162	1.19777	0.103126	0.0497066	0.665063	0.854438	1.01955	2.92698	0.848278
4	Tmem45a	0	0.669173	1.58471	1.28349	2.32908	2.05332	3.26482	2.15611	1.95991	3.36507	1.50206
4	Tmem72	0	1.69509	1.6663	2.32451	2.02072	2.22796	3.46727	2.54185	2.63783	3.40213	3.35309
4	Tnfaip2	0	1.05473	0.784101	1.51353	2.19789	2.58418	2.63499	3.37921	2.29221	2.73027	1.50347
4	Tnfaip3	0	1.25459	1.50389	3.06651	1.7941	0.826107	1.96786	2.92826	1.6846	1.74301	-0.032421
4	Tnfrsf11a	0	-0.1409	0.84355	0.85757	1.08594	1.79137	2.6005	2.4597	0.452862	0.412066	-0.329492
4	Tnfrsf11b	0	-0.576697	0.22724	0.360808	0.930247	-0.651325	1.44023	1.8979	1.1387	2.57007	0.69686
4	Tnfsf10	0	-1.84016	-0.575605	0.0240901	-0.163813	0.766131	1.24109	1.97447	0.814744	0.619327	0.280574
4	Tnni1	0	1.52987	0.241371	0.0482453	2.76749	1.48126	2.72321	2.21836	1.37756	2.11965	1.71507
4	Tns3	0	1.05382	1.81952	1.93574	1.45426	1.70835	3.48723	3.42572	1.73219	1.68828	1.04635
4	Tnxb	0	-0.563808	-0.901371	-0.170225	0.646709	0.986644	1.43151	2.39669	1.45655	1.35652	0.329181

4	Tor3a	0	-0.124013	0.0712898	0.50538	0.787485	1.89001	2.32181	2.92281	1.26128	1.48785	0.682679
4	Traf1	0	0.779364	-0.304703	0.366139	1.10105	1.77354	1.40275	2.4232	1.55972	2.17341	-0.538564
4	Trem2	0	-0.204659	-0.208833	-0.227768	0.21925	1.81779	2.12859	2.28963	1.49949	1.42519	0.552846
4	Treml2	0	-0.899307	0.582642	0.617299	1.10351	2.17072	2.05858	2.41403	1.35167	1.53946	0.575784
4	Trib2	0	-3.59471	-2.23027	-1.8722	-2.08616	-2.89728	-2.06984	-2.34338	-0.806348	-1.19566	-1.19654
4	Trim12a	0	0.0783207	0.296154	0.720094	0.856348	2.24718	2.44942	2.80898	1.71811	2.06714	1.48622
4	Trim21	0	-0.368672	0.324954	0.359648	1.2856	1.5187	2.51861	2.76771	1.33663	1.75358	0.993279
4	Trim25	0	0.617494	1.23735	1.09835	2.1011	2.87144	2.7006	3.27968	1.35619	1.75728	1.22022
4	Trim30a	0	-0.0631868	0.43371	0.784098	1.37381	2.3552	2.50013	2.89165	1.28943	1.5222	0.74019
4	Trim30d	0	0.0478596	-0.0269431	0.283527	1.03655	1.96996	2.38489	2.80572	1.32253	1.66054	0.842981
4	Trim34a	0	0.0473573	0.399911	0.791365	0.744191	1.99738	2.57444	2.97613	1.42486	1.92867	1.096
4	Trim59	0	-1.08506	0.296845	1.56532	-0.554562	0.782262	1.52206	1.89081	1.43812	1.67181	1.3041
4	Trim68	0	-0.642257	0.402332	-0.536398	-0.143369	0.295522	1.39043	2.5979	-0.0145299	1.69231	0.336179
4	Trp53inp1	0	1.889	3.57157	1.6241	2.93868	1.30765	2.54694	3.15388	1.43306	1.74283	1.97095
4	Trpv4	0	1.01144	0.514657	0.403434	2.88688	2.12294	2.47062	2.80574	1.53713	2.01076	1.13704
4	Tshr	0	-0.891947	0.107918	-1.25397	0.708738	1.33275	1.36105	1.89643	1.33304	1.14367	0.905472
4	Tsnaxip1	0	0.58896	0.60826	0.415924	0.213788	1.20975	2.10929	1.81157	2.28904	3.07201	1.86801
4	Tspan18	0	0.803035	0.816671	0.488147	-0.470978	1.96729	1.23786	1.73382	1.67618	3.11918	1.61886
4	Ttc12	0	0.454595	0.796053	0.498696	1.13948	2.57682	3.15328	2.18075	1.88061	2.19473	1.71425
4	Ttc21a	0	0.397757	0.0076896	0.425035	0.972804	0.43581	2.26322	2.34146	2.34868	2.28136	1.78027
4	Ttr	0	1.34062	1.21642	1.92551	2.05236	3.11723	3.08821	2.29485	2.65678	3.02006	3.12127
4	Tuft1	0	2.17024	1.80854	0.78412	2.21017	-0.425446	2.14556	2.74008	2.01781	2.03102	1.54621
4	Txlnb	0	0.252519	0.38483	-0.255451	-0.859497	0.458654	0.865667	1.3751	1.29275	1.90461	2.57875
4	Txnip	0	3.04083	2.91774	1.8505	1.82515	2.27519	3.30836	3.82555	2.212	2.24774	2.19421
4	Uaca	0	0.712317	1.72892	1.50012	1.60815	3.04799	3.37483	2.67739	1.26139	2.07151	1.24926
4	Ucma	0	-1.14786	0.0753867	-0.533684	-1.04498	-0.809343	0.0564911	0.880243	1.1086	1.87604	1.16572
4	Ugt1a6b	0	0.756969	0.356773	0.931792	1.18608	1.34177	3.48916	2.44371	2.141	1.57416	1.93742
4	Unc93b1	0	-0.088979	-0.0547049	-0.215444	0.391888	1.82676	2.27466	2.51612	1.33816	1.34108	0.671906
4	Upb1	0	1.25341	2.07504	1.07269	0.973194	1.83688	2.09388	3.06665	2.78479	3.29111	2.42653
4	Usp18	0	0.0470722	0.145745	0.332961	1.28367	2.29734	2.42854	2.6195	1.08214	1.58884	0.463521
4	Usp53	0	0.566828	1.81653	2.18198	1.06949	-1.40529	1.00716	1.34852	0.687034	0.922995	-0.259603
4	Usp54	0	0.809942	1.83164	1.90821	0.523302	-1.82202	0.479268	0.448082	0.413761	0.0475697	-0.113366
4	Vav2	0	0.251599	0.224531	0.655225	0.636247	-0.0752968	2.26224	2.47501	0.177854	0.958657	-0.927036
4	Vcam1	0	0.460961	1.23752	2.03396	1.14386	1.4093	2.42816	3.76777	1.90824	1.91352	1.52951
4	Vcan	0	0.176845	0.787986	0.75806	0.904951	1.5073	3.07096	2.88496	1.29446	0.731472	0.548419
4	Vrk2	0	0.185887	0.041218	-0.0346963	0.535328	1.74869	2.51088	2.64358	1.52144	1.50036	0.721975
4	Vstm4	0	-0.415177	-0.815645	-0.306848	-0.147902	1.28968	1.74879	1.53724	0.937605	2.13935	0.866882
4	Vwa5a	0	-0.422753	0.007974	0.326266	1.36874	1.65764	2.3167	2.59445	1.41911	1.77253	0.92503

4	Vwa5b1	0	-1.25754	0.545372	0.0858527	-0.749399	-0.763138	0.537047	1.48276	1.22214	1.75711	1.17585
4	Wdfy2	0	0.723249	1.03584	0.240385	1.62444	-1.09037	1.53218	2.76119	1.35559	1.06547	1.29759
4	Wdr63	0	1.14214	-0.0421447	-0.100504	1.26825	0.41657	1.67207	2.08628	2.36186	2.6724	1.62271
4	Wfdc17	0	0.322984	0.737742	0.593386	0.0293529	2.60752	2.40184	2.27557	1.774	2.06905	0.77
4	Wipf1	0	-0.581146	0.543309	0.623454	1.03439	2.29884	2.4313	2.4672	0.993827	1.35101	0.56924
4	Xdh	0	1.13534	2.35557	2.33692	1.77577	2.11051	3.36426	3.29244	1.49751	1.6774	0.863409
4	Xrn1	0	-0.546037	0.35256	0.452376	-0.220694	-1.7277	0.561589	1.27771	0.831844	0.867218	2.087
4	Zak	0	-0.106774	0.242641	0.41984	2.95375	0.329915	1.46827	1.94146	0.312294	0.900228	-0.324968
4	Zbp1	0	-0.238676	0.300678	0.527993	1.22393	2.28289	2.17282	2.61442	1.20102	1.6669	0.181427
4	Zbtb7c	0	-0.300117	0.947547	2.85541	2.02879	0.138478	1.51727	1.49995	0.752394	2.31627	1.43405
4	Zc3hav1	0	0.771904	1.71329	1.29407	1.83113	2.48146	3.03039	3.54354	1.53918	1.9488	1.2105
4	Zdhhc23	0	-0.755282	-0.715752	-1.24946	-0.809646	-3.67944	-0.448766	-0.25414	-0.145854	-0.815581	-0.582511
4	Zfp185	0	1.20748	0.874197	1.54247	2.44325	1.26103	2.44768	2.73054	2.3568	2.87758	3.26892
4	Zfp217	0	0.127272	0.101378	0.115943	0.847801	1.96524	2.3851	2.88619	1.39517	1.26198	0.758602
4	Zfp229	0	0.577763	1.57116	1.78833	2.19197	2.00188	3.27772	2.96598	1.63873	2.72965	1.0346
4	Zfp273	0	-2.0965	-1.96976	-1.73759	-1.26467	-1.57164	0.706332	-0.4406	-0.316977	0.439956	-0.115634
4	Zfp36l1	0	0.290813	0.646674	1.09227	1.28603	2.7311	2.73098	2.87829	1.25289	1.78854	0.912905
4	Zfp36l2	0	-0.629826	-0.357733	0.256496	0.931691	2.02934	2.28192	2.05156	0.925972	1.33602	0.471362
4	Zfp429	0	1.67965	1.17604	1.57229	2.68885	1.77123	3.08847	3.3686	2.1438	3.17116	1.73085
4	Zfp516	0	0.600148	2.33684	3.24757	0.19192	0.301826	1.93928	1.4568	0.694392	1.04151	1.12723
4	Zfp658	0	-0.78914	-1.77265	0.313744	-0.0679817	0.22259	0.942117	1.55976	0.63266	1.22929	1.45284
4	Zfp677	0	-0.206958	0.763202	0.138153	1.01548	1.93461	2.22794	2.63157	1.65875	2.33906	1.5813
4	Zfp759	0	-0.499685	-1.41572	-0.547986	-0.65406	-2.38725	0.184391	0.642732	1.00002	0.37138	0.623163
4	Zic1	0	-0.097202	0.040039	0.461078	1.07344	1.65723	2.01019	1.80942	1.11075	2.67464	2.44514
4	Zic5	0	-0.5767	0.469831	-0.20608	0.444917	0.765658	2.23473	2.329	1.72449	1.82688	1.02229

Innate

Gene	Log2 (1h vs. pre)	Log2 (3h vs. pre)	Log2 (6h vs. pre)	Log2 (1d vs. pre)	Log2 (3d vs. pre)	Log2 (1w vs. pre)	Log2 (2w vs. pre)	Log2 (1m vs. pre)	Log2 (2m vs. pre)	Log2 (6m vs. pre)	sig
Sell	5.0944	5.6449	5.4058	6.0184	6.9385	5.6404	8.28	5.8615	8.1602	0	#N/A
Cd8a	3.2792	2.9576	5.1443	4.7019	5.0474	3.3759	7.6067	6.1246	6.7838	6.0463	#N/A
C3	0.8447	0.8876	1.7096	3.8823	4.5371	4.4705	7.4944	7.0415	6.9883	4.3129	C3
Klrc1	2.3865	0	0	0	5.7006	3.0464	7.0219	4.3482	5.5159	0	#N/A
Cd96	4.4945	2.796	4.3458	3.889	0	0	6.4634	3.5901	5.0845	0	#N/A
Cd226	3.4729	2.9521	0	4.3576	0	0	6.1396	3.8881	6.0507	4.2546	#N/A
Ulbp1	0	4.3542	3.6887	4.8033	7.191	6.5857	6.0124	4.2976	5.2125	3.5124	#N/A
Cybb	0.1	0.0866	0.1057	2.9732	5.0051	4.9041	5.9366	3.8983	5.2171	1.6258	Cybb
Cd74	0.5445	0.1015	0.2607	1.726	4.7119	2.1786	5.0646	4.0118	4.4572	1.645	Cd74
Pdcd1	-0.2142	1.2329	1.7829	1.5638	4.0719	3.2388	4.9611	3.5872	2.6948	0.9696	Pdcd1
Cd19	0	0	2.7234	3.4153	0	0	4.6394	5.121	7.3935	4.3856	#N/A
Cd3g	-1.6267	-1.6686	-2.416	-0.2451	0.2199	0.2937	4.544	3.2386	3.7842	1.7956	Cd3g
Icos	1.6708	1.5719	2.1561	1.5156	3.197	2.6291	4.3093	2.6045	2.8496	1.5933	#N/A
Cd3e	0.1416	-0.5353	-0.5937	1.8041	-3.3313	0.9187	4.2014	2.673	3.4452	2.467	#N/A
Fcgr2b	0.1034	0.1628	0.2427	2.1296	3.1906	3.3111	4.0739	2.541	2.219	0.8186	Fcgr2b
Ncf4	0.2786	0.5396	1.1271	2.4873	4.1758	3.6023	3.9527	2.5169	2.8662	1.5653	Ncf4
Klrk1	0.9785	2.3591	2.4776	0.5252	2.2319	0.6383	3.8526	2.0113	2.9237	-1.5354	Klrk1
Card11	-0.4423	-0.0881	0.1213	-0.4664	3.1568	2.8486	3.8378	1.1202	2.8681	0.8581	Card11
Blk	0	0	0	2.1662	0	0	3.8294	3.9894	6.1618	0	#N/A
Ctss	0.1695	0.3303	0.4172	0.6469	2.7569	3.2102	3.8063	2.3761	2.4669	1.0223	Ctss
Ptpn6	0.0998	-0.4205	0.402	1.2999	3.0891	3.4682	3.7866	2.1696	2.2702	0.6202	Ptpn6
Ptprc	0.1373	0.2537	0.532	1.4805	2.8932	3.1709	3.7276	2.178	2.3595	0.3786	Ptprc
Asb12	2.9925	2.9521	2.7376	0	0	3.9833	3.6822	0	2.9612	3.5124	#N/A
Cd160	2.9925	2.796	4.6105	2.1662	0	0	3.6157	2.1805	4.9788	0	#N/A
Itgb2	-0.5172	0.3494	0.3245	1.5258	3.0718	3.5162	3.5992	2.128	2.3112	0.7498	Itgb2
Tyrobp	0.0645	0.1475	0.1429	1.0426	3.4014	3.7381	3.5957	2.4152	2.1719	0.5491	Tyrobp
Tnfrsf14	0.3729	-0.2333	1.1441	0.861	3.4408	2.5939	3.5705	1.9879	2.0987	-0.6166	#N/A
Itgb7	0.649	0.2301	1.3101	1.3999	3.2371	2.0173	3.5036	1.6613	2.3121	1.1253	Itgb7
Cyba	0.3217	0.0958	0.3291	1.3676	3.8764	3.6251	3.4848	2.2375	2.5009	0.8009	Cyba
Pik3ap1	-0.189	0.9416	0.7573	1.4043	2.0066	3.2664	3.4835	1.5863	1.8758	0.434	Pik3ap1
Ctsh	0.0324	-0.2862	0.0658	0.5314	3.6814	3.2854	3.4746	2.0551	2.1402	0.9724	Ctsh
Psmb8	-0.516	-0.5524	-0.3231	1.2659	3.2868	2.8771	3.4286	1.7156	1.9045	0.8602	Psmb8

Klrd1	-0.4648	-4.0767	0.716	0.2341	2.9205	-0.1511	3.416	1.7831	2.1523	-4.0767	#N/A
Cd86	1.0539	1.606	1.6158	1.7663	2.3627	2.7127	3.3439	1.8894	1.472	0.582	Cd86
Psmb9	-0.9778	0.1565	0.0654	0.7246	3.0461	2.4187	3.3266	1.8648	1.9635	0.9549	Psmb9
Btk	-0.8065	0.088	0.2109	1.2909	2.7785	3.2267	3.2103	1.6259	1.9415	0.6263	Btk
Tap1	-0.5433	-0.4643	0.3919	1.443	2.5487	2.2939	3.1878	1.0676	1.294	0.8906	Tap1
B2m	0.2281	0.394	0.4343	0.5762	2.6762	2.542	3.1262	1.9345	1.8342	0.746	B2m
Itgal	0.2405	0.6284	0.1962	1.3793	2.3315	2.3593	3.0793	1.7787	1.8273	0.3514	Itgal
Fyb	0.2899	0.4126	0.7606	1.4027	3.1725	3.1659	3.0589	1.7154	1.6131	0.3099	Fyb
Kif2c	0.5565	1.0934	0.098	1.3466	5.2306	4.3413	3.0451	1.7952	1.3432	-0.3858	Kif2c
Uba7	0.2762	-0.4042	-0.5826	0.658	2.9385	3.1005	3.0304	1.7508	1.3938	0.5119	Uba7
Cd28	-0.3733	0.1546	0.4254	1.058	1.3638	1.8283	2.9968	0.8644	1.6386	-0.9022	Cd28
Cd36	0.2152	0.5452	0.5538	1.7877	3.0161	3.3318	2.9902	1.386	4.0107	1.0848	Cd36
Psma8	2.0677	2.429	2.1036	2.9831	3.2089	2.9132	2.9275	2.3367	2.0252	2.1519	#N/A
Icam1	1.5323	1.5745	3.1504	2.573	2.4591	2.4282	2.913	1.5589	1.843	1.3047	Icam1
Ctsc	-0.0233	-0.1652	0.2516	1.9976	2.9091	2.6761	2.9075	1.374	1.637	0.2433	Ctsc
Ctsd	0.1489	0.0864	0.1593	0.6176	3.1401	3.4722	2.9019	1.589	1.3668	0.829	Ctsd
Vav1	-0.2154	0.1398	0.5475	1.4654	3.1654	2.9002	2.8899	1.5063	1.3741	0.3454	Vav1
Cd247	0.5427	0.1822	-0.833	1.5296	2.1296	-1.7206	2.7428	1.3678	1.1936	-4.1971	#N/A
Lyn	0.2484	0.4018	0.5045	1.3517	2.3077	2.6211	2.7036	1.4305	1.2863	0.4297	Lyn
Btla	1.8166	1.4126	1.6625	1.7997	0.437	1.5559	2.7006	1.5165	2.7457	1.5042	Btla
Ncf2	0.0431	0.1139	0.6884	0.8265	2.4645	2.4004	2.6692	1.4061	1.5561	0.1475	Ncf2
Lat	1.4111	1.3141	1.3932	1.02	1.9798	1.0548	2.5469	1.6795	2.3057	0.0577	#N/A
Lcp2	-0.3807	0.323	0.5443	1.6301	2.5125	2.6955	2.4988	1.0861	1.1546	0.1239	Lcp2
Cd40	0.3977	0.4486	1.1199	1.6414	2.8859	1.9117	2.4468	1.0794	1.2691	0.9959	Cd40
Plcg2	0.0416	0.1069	0.2146	0.9007	2.5255	2.5945	2.4345	1.2421	1.1621	0.19	Plcg2
Amica1	1.2759	1.2651	2.0614	1.4651	2.2061	0.9604	2.3974	0.0045	1.1868	-0.351	Amica1
Hcst	-0.8271	-0.4177	0.6669	0.7594	3.197	3.2718	2.3925	0.9371	1.0692	-0.0965	#N/A
Syk	-0.2857	-0.2429	-0.2594	0.702	1.8876	2.0796	2.3732	0.9845	1.253	-0.0596	Syk
Ctla4	-3.2137	-3.2137	-0.4902	0.6753	-3.2137	0.7657	2.2508	-1.0331	1.5363	-3.2137	#N/A
Cd200r1	0.0548	0.8497	0.3657	0.9361	1.1512	1.6477	2.2381	1.3282	1.7515	0.5305	Cd200r1
Cd40lg	2.3865	0	0	0	4.2808	0	2.1973	0	2.9612	0	#N/A
Cd79b	-1.5864	-4.5859	-0.5453	-0.1937	2.513	1.7243	2.0675	2.0696	3.0221	-0.2003	#N/A
Trim21	-0.2752	0.2426	0.2685	0.9597	1.1337	1.8801	2.066	0.9978	1.309	0.7415	Trim21
Itgb5	0.0052	-0.0428	-0.2331	0.0221	1.6718	2.18	1.9824	1.014	0.8136	0.24	Itgb5
Dtx3l	-0.2414	0.1119	0.3453	0.5921	1.3904	1.5571	1.9243	0.5372	0.8675	0.4356	Dtx3l
Mrc2	-0.4416	-0.1425	-0.3888	0.1285	1.2448	1.6689	1.9029	0.7921	1.0667	0.7059	Mrc2
Ctsb	0.067	0.1213	0.1953	0.4376	1.8553	2.172	1.8242	0.8212	0.8626	0.2342	Ctsb
Tap2	0.2001	-0.1887	0.1019	0.9118	1.5336	1.284	1.8078	0.6993	0.9396	0.6714	Tap2

Cd80	1.0707	1.0134	1.5339	1.1999	2.236	0.7308	1.7746	0.9281	1.5259	1.9343	#N/A
Lgmn	0.1931	0.1831	0.2877	0.5865	2.3139	2.1247	1.7293	0.7063	0.6684	0.2614	Lgmn
Ifitm1	-1.2604	0.1034	0.1205	1.7659	2.9373	1.4381	1.7269	0.9183	0.9837	0.5426	Ifitm1
Socs3	1.4058	1.8922	2.5199	3.5059	3.0082	1.4683	1.6474	0.7431	0.5004	-0.7676	Socs3
Pdcd1lg2	-2.965	-0.169	0.1232	2.537	-2.965	1.4197	1.6434	1.3285	0.79	1.9338	#N/A
Erap1	-0.0605	0.209	0.2214	0.7902	0.8162	1.3596	1.6404	0.9398	0.9423	0.6335	Erap1
Trim63	0.829	2.8255	0.7163	1.6342	2.0824	1.3842	1.622	2.1653	2.1428	2.409	#N/A
Ctsa	-0.0469	-0.1489	-0.0869	0.24	1.3604	1.7962	1.6139	0.6589	0.505	0.0482	Ctsa
Ube2c	0.5748	0.7112	1.266	1.3839	4.7387	3.1351	1.5886	0.2993	0.5963	-0.0138	Ube2c
Map3k8	0.3141	1.1174	1.6822	0.5616	1.1044	1.5487	1.5799	0.9805	0.9679	0.4401	Map3k8
Mrc1	0.0017	0.4589	0.2767	0.8785	0.8656	1.0732	1.5731	0.5958	1.1552	0.1212	Mrc1
Cd79a	0.2911	-0.0256	0.0654	0.4974	1.0583	0.0511	1.533	1.0985	2.9232	0.2491	#N/A
Ube2l6	-0.3016	-0.2114	-0.2775	0.2585	1.2609	1.1985	1.5274	0.3784	0.617	0.0806	Ube2l6
Kif15	0.6236	0.4496	0.3577	0.6294	3.4721	2.8899	1.4919	0.4175	0.6703	-0.2928	Kif15
Cd274	0.3259	0.5027	0.3284	0.7727	0.9311	0.7922	1.4532	0.5468	0.485	1.3835	Cd274
Kif22	-0.4568	0.1917	0.2849	1.0876	3.5753	2.3971	1.4308	0.5316	0.048	0.5105	Kif22
Kif20a	-0.9218	-0.1306	-0.001	-0.4607	3.4048	2.6686	1.4008	0.5179	0.1305	-0.424	Kif20a
Kif18a	1.1239	0.6967	0.6092	1.1832	2.2578	1.9036	1.3759	0.8273	0.8574	0.5326	Kif18a
Vcam1	0.1674	0.4494	0.7386	0.4154	0.5117	0.8817	1.3681	0.6929	0.6948	0.5554	Vcam1
Cdc20	-0.1295	0.7841	-0.159	0.4293	3.6366	2.3447	1.3233	0.2422	-0.5537	-2.1995	Cdc20
Vasp	0.4026	0.0394	0.4332	0.9634	1.4543	1.3891	1.3084	0.3911	0.7594	0.1041	Vasp
Blnk	0.1605	0.6933	1.2485	0.7719	1.0985	1.193	1.3038	0.2929	0.2369	-0.4639	Blnk
Was	0.3221	0.6158	0.5514	0.4838	1.4745	1.0435	1.2834	0.3702	0.2664	-0.021	Was
Itk	0.1152	0.2385	0.3081	-0.0149	-0.1512	-0.0321	1.2818	0.5481	0.9917	0.4245	Itk
Cdh1	-0.2579	1.388	0.9344	0.8606	0.9375	1.3458	1.2782	1.0762	1.5071	0.9766	Cdh1
Rasgrp3	0.0655	0.2784	0.4336	0.1447	0.7727	1.2196	1.205	0.595	0.3493	0.2899	Rasgrp3
Ctsk	0.2443	0.0874	-0.2047	0.3518	-0.1209	1.0469	1.1868	0.326	1.4638	0.326	Ctsk
Spsb2	0.4932	0.3978	0.2808	0.9008	2.073	1.3165	1.1326	0.8199	0.9459	0.5578	Spsb2
Nfkbie	-0.2384	0.0341	0.1221	0.2455	1.1197	0.7467	1.1285	0.2243	0.2596	-0.4942	Nfkbie
Psme2	-0.0469	-0.3544	-0.1657	0.5024	1.528	0.971	1.1003	0.5048	0.6171	0.3882	Psme2
Itgb1	0.0573	0.2697	0.2705	0.6815	1.1575	1.128	1.0421	0.498	0.6511	0.4027	Itgb1
Lrr1	1.5295	-0.0075	1.5231	1.3056	4.4858	2.8512	1.0407	0.1241	-2.965	0.1521	#N/A
Psme1	0.0898	0.178	0.1012	0.3746	1.4899	0.998	1.0387	0.5907	0.6431	0.4604	Psme1
Shc1	0.0129	0.2436	0.4724	0.5669	1.0256	1.0726	1.0148	-0.0098	0.3329	-0.0229	Shc1
Rel	0.6275	0.6615	0.9227	0.5684	0.3503	0.2523	0.9293	0.2979	0.1943	-0.6274	Rel
Kif11	0.0397	0.2772	0.2052	0.1338	2.5877	1.865	0.9195	0.4318	0.191	-0.0555	Kif11
Itpr2	0.1402	0.1811	0.1763	0.1693	0.9336	1.0591	0.8771	0.3109	0.1997	-0.0178	Itpr2
Sipa1	-0.0335	-0.2485	0.0236	0.343	1.7482	1.1051	0.8565	0.2697	0.3233	0.0044	Sipa1

Dnm2	0.1518	0.1045	0.2428	0.5617	0.743	1.0083	0.8372	0.4215	0.2937	0.1721	Dnm2
Itpr3	0.0423	-0.2935	-0.0151	0.5078	0.9324	1.1711	0.8292	0.4695	0.4906	0.7321	Itpr3
Orai1	0.3226	0.0201	0.2536	0.4283	1.6705	1.0792	0.792	0.0866	0.1593	0.0627	Orai1
Pvrl2	0.4094	0.3091	0.5219	0.5666	1.7256	0.9239	0.7804	0.7043	0.5828	0.6343	Pvrl2
Trib3	-0.2439	0.7124	0.6673	1.3601	0.9693	-0.9029	0.7779	0.0479	-0.0112	-0.3205	#N/A
Csk	-0.0374	-0.0702	-0.0302	0.417	1.1255	0.8152	0.7286	0.2309	0.4927	0.1797	Csk
Ripk2	0.4624	0.5364	0.5257	0.3085	0.4632	0.6776	0.6383	0.1336	0.3871	0.381	Ripk2
Ctso	-0.0338	0.1763	0.2813	0.0728	0.1174	0.4899	0.632	0.3995	0.338	0.329	#N/A
Rap1b	0.0474	0.285	0.3216	0.4442	0.4485	0.684	0.6121	0.2653	0.2517	0.0327	Rap1b
Prkcq	0.2914	0.0705	0.3817	0.0863	0.2496	0.6226	0.601	0.5934	0.4344	0.3604	#N/A
Malt1	-0.0526	0.1842	0.4683	0.4092	0.2727	0.3759	0.5949	0.1512	0.1021	-0.0294	Malt1
Cd34	-0.0367	0.0612	0.0441	0.1372	0.1754	0.3837	0.5938	0.4238	0.2881	0.3529	#N/A
Rela	0.1259	0.0987	0.3783	0.5899	0.5953	0.6446	0.5912	0.1803	0.1615	0.0465	Rela
Icam2	0.095	-0.3935	-0.1558	0.6376	1.2253	0.8776	0.5705	0.183	0.6155	0.2726	#N/A
Lnpep	-0.0819	0.2818	-0.1468	-0.2056	-0.7051	0.1057	0.5612	0.3268	0.3036	0.2294	#N/A
Map3k14	0.1284	0.4356	0.6481	0.5154	0.4744	0.5809	0.5579	-0.1794	0.2994	-0.4282	Map3k14
Bcl10	0.0711	0.3632	0.5871	0.6152	0.1967	0.5391	0.5454	0.2994	0.5433	0.452	Bcl10
Rap1a	0.0759	0.1876	0.2628	0.3477	0.4452	0.5101	0.5084	0.3514	0.4439	0.1598	#N/A
Lck	-0.3856	-0.3974	-0.3615	-0.1789	0.2409	-0.8957	0.4898	0.3634	0.4409	-0.7459	#N/A
Ap1m2	0.8386	0.5382	1.0175	-0.1979	-5.405	-1.3554	0.478	0.2867	-0.0138	0.2496	#N/A
Trim36	-0.3613	-0.0669	0.0713	-0.0064	0.0122	0.2641	0.4685	0.2519	0.3014	0.2824	#N/A
Pag1	-0.0805	-0.002	0.1096	-0.0634	0.1192	0.3443	0.4593	0.0739	0.0349	-0.0952	#N/A
Sec24d	-0.2123	0.2942	0.4449	0.5098	0.1372	0.397	0.4586	0.1914	0.2861	0.1652	#N/A
Dync2h1	0.207	0.2916	0.1581	-0.04	-0.3191	0.2367	0.4375	0.4729	0.4562	0.457	#N/A
Anapc13	0.3067	0.2618	0.2997	0.1753	1.1337	0.3824	0.4354	0.3121	0.4268	0.3592	#N/A
Rilp	0.1667	0.1933	0.6138	0.6812	0.4981	0.1394	0.4211	-0.0146	1.0031	0.442	#N/A
Asb2	0.277	0.2089	0.4993	0.4872	0.81	0.4231	0.4208	-0.0664	0.3858	0.0693	#N/A
Pik3cd	-0.1608	-0.2836	-0.1423	-0.0543	0.3912	0.3114	0.4204	-0.087	-0.1732	-0.4668	#N/A
Kif23	0.7057	0.7383	0.7565	-0.1003	2.5207	1.9743	0.4129	-0.2129	-0.1375	-0.3058	Kif23
Yes1	-0.0898	0.2559	0.3129	0.3647	-0.2648	0.3974	0.3951	0.1937	0.3382	0.2552	#N/A
Pak2	-0.0134	0.1169	0.08	0.2108	0.2326	0.3578	0.3825	0.1421	0.0942	-0.0007	#N/A
Rapgef3	0.3879	0.1387	0.1786	0.1775	0.256	0.2868	0.3768	0.2462	0.2267	0.1489	#N/A
Cbl	-0.0676	0.2837	0.0443	0.0609	-0.4599	0.056	0.3736	0.1287	0.1047	0.0335	#N/A
Asb4	0.7436	0.6447	0.3766	0.2449	0.4168	0.1044	0.3577	0.5748	0.988	1.2321	Asb4
Dync1h1	0.0646	0.1145	-0.0431	-0.1512	-0.3904	0.1318	0.3545	0.2918	0.2126	0.3142	#N/A
Dync2li1	0.0525	-0.0994	0.0166	0.0859	-0.1818	0.334	0.3526	0.4286	0.4718	0.2868	#N/A
Nck1	0.1431	0.2368	0.2327	0.1428	-0.008	0.2068	0.3505	0.3843	0.42	0.5323	#N/A
Cd81	-0.0231	-0.0894	-0.0024	0.1126	0.3331	0.3721	0.3406	0.0817	0.0373	-0.0788	#N/A

Gan	0.1625	0.5318	0.4485	0.57	-0.2778	0.1211	0.3401	0.3993	0.3121	0.1336	#N/A
Fbxo17	0.433	1.2159	1.4797	1.2486	0.8718	0.201	0.3336	0.0095	0.2672	0.2058	Fbxo17
Foxo4	0.1179	0.0839	0.2536	0.034	0.4047	0.4459	0.3197	0.1183	0.3283	0.214	#N/A
Sec61a1	-0.0513	-0.0978	0.2042	0.5235	0.5735	0.2528	0.3133	-0.1348	-0.0029	-0.2989	#N/A
Cul7	-0.2437	-0.4886	-0.3946	-0.1412	-0.0768	0.125	0.3099	0.0875	0.1195	0.0437	#N/A
Rnf144b	-0.0319	0.1515	0.0464	-0.0387	-0.2906	0.1357	0.2945	-0.0848	-0.0053	0.0584	#N/A
Clta	-0.0156	-0.1046	-0.1659	-0.0117	0.6151	0.3881	0.2893	0.1266	0.1301	0.1578	#N/A
Skp2	-0.1368	-0.016	0.3622	0.2281	-0.1356	0.3261	0.2883	-0.0877	0.1124	0.2879	#N/A
Pdia3	0.1408	0.2286	-0.0108	0.1194	0.514	0.4403	0.2801	0.159	0.047	-0.2027	#N/A
Trip12	-0.0245	0.2137	0.1291	0.0799	-0.4527	0.1571	0.2781	0.1979	0.1732	0.1606	#N/A
Spsb1	0.5349	0.585	0.5318	0.6544	0.9332	0.7394	0.2759	-0.022	0.0005	0.0224	Spsb1
Icam4	-0.1945	0.6344	0.136	0.0262	-0.1937	0.5362	0.2555	-0.2881	0.6571	-0.9062	#N/A
Cdc26	0.0474	-0.1273	0.0351	0.147	0.4086	0.2604	0.2445	0.3655	0.4419	0.5048	#N/A
Sh3kbp1	-0.0539	-0.0646	-0.222	-0.0856	-0.0457	0.1767	0.2437	0.0538	0.0007	0.0922	#N/A
Psme4	0.0255	0.1849	0.2394	0.224	-0.0594	0.0674	0.2431	0.0613	0.0612	0.0073	#N/A
Traf6	0.038	0.3547	0.5471	0.4203	-0.1795	0.231	0.2418	0.1304	0.1848	0.1355	#N/A
Trat1	0.1844	-1.5857	1.7931	1.1348	0.3084	-0.2132	0.2416	0.2633	0.5474	-0.3544	#N/A
Anapc1	-0.2224	-0.0404	-0.1198	-0.0372	-0.3629	0.1179	0.2376	0.118	0.039	0.1142	#N/A
Sec61b	-0.0633	-0.4694	-0.3888	0.3272	0.9541	0.4431	0.2263	0.0349	0.3495	0.301	#N/A
Ikbkb	0.0638	-0.0605	-0.0971	-0.1208	-0.2638	0.1467	0.2126	-0.0007	-0.0717	-0.0523	#N/A
Nedd4	-0.1304	0.0304	-0.0861	-0.0524	-0.6804	0.1314	0.2121	0.1828	0.0922	0.1376	#N/A
Phlpp1	-0.0704	-0.0991	-0.1918	-0.3461	-0.7111	-0.0412	0.2119	0.2416	0.0846	0.0746	#N/A
Sec13	-0.0089	-0.0015	0.0678	0.195	0.2342	0.2363	0.21	0.0954	-0.0335	-0.0689	#N/A
Cdkn1b	0.2451	0.1559	0.0852	-0.0274	0.1444	0.1794	0.2057	0.1697	0.2328	0.0823	#N/A
Psmb10	0.1197	0.1787	0.1707	0.1182	0.9954	0.088	0.202	-0.009	0.142	0.175	#N/A
Cltc	-0.0191	0.1763	-0.0084	-0.1464	-0.6869	0.0332	0.1994	0.1549	0.0338	0.0474	#N/A
Klc3	-0.2969	-0.6715	-0.7038	-0.3579	0.273	0.1737	0.1989	0.0298	0.2631	0.6409	#N/A
Cdc23	-0.0549	-0.0325	-0.0089	-0.0834	-0.4813	0.1561	0.1987	0.2636	0.1509	0.2964	#N/A
Tab2	-0.109	-0.0006	0.1018	0.1377	0.2525	0.2416	0.1964	0.0492	0.0523	0.0235	#N/A
Wwp1	-0.0824	0.0005	-0.0029	-0.023	-0.2972	0.1996	0.1956	0.066	-0.1217	-0.0718	#N/A
Rps27a	0.1037	0.1529	0.2455	0.3379	1.1719	0.2611	0.1955	0.1488	0.3032	0.1641	#N/A
Pik3r3	0.0665	0.1398	0.1816	0.0838	-0.3877	0.3729	0.1916	0.0968	0.0553	0.0104	#N/A
Nfkbia	0.5199	0.4644	0.304	0.5425	0.9523	0.1397	0.1913	-0.3802	-0.1448	-0.3242	#N/A
Ube2f	0.0964	0.3843	0.3494	0.2893	0.253	0.0943	0.1881	0.1375	0.1579	0.3905	#N/A
Rchy1	0.0528	0.1687	0.2818	0.4374	0.0973	0.0204	0.1875	0.1052	0.259	0.1312	#N/A
Psmd4	0.1336	0.0571	0.1353	0.1601	0.59	0.2628	0.1866	0.1317	0.2078	0.228	#N/A
Anapc7	-0.0947	-0.3496	-0.0841	0.0092	0.2752	0.135	0.1864	0.0162	0.0226	-0.01	#N/A
Ube3a	0.2331	0.1868	0.1099	0.2783	0.2616	0.0844	0.1845	0.267	0.2638	0.1977	#N/A

Nras	-0.0977	0.0826	0.2208	0.4146	0.7532	0.3034	0.1833	-0.1681	-0.2261	-0.2207	#N/A
Ubr2	-0.0785	-0.0741	-0.085	-0.0272	-0.6199	0.0764	0.1736	0.0653	-0.0087	0.0426	#N/A
Psma1	0.1013	0.0864	0.0194	0.1452	0.3395	0.1737	0.1673	0.2252	0.1518	0.0804	#N/A
Racgap1	-0.0394	-0.0299	0.1892	0.0811	1.1276	0.903	0.1619	-0.0716	-0.3405	0.1403	Racgap1
Ubr4	-0.0383	0.0359	-0.1477	-0.1485	-0.5814	0.0315	0.1602	0.0993	0.0391	0.1299	#N/A
Psmc2	0.1624	0.1609	0.1614	0.3124	0.2699	0.1481	0.157	0.2189	0.1697	0.3605	#N/A
Cblb	0.0508	0.1535	0.2483	0.0432	-0.7329	0.0748	0.1491	0.1485	-0.0084	-0.0796	#N/A
Sos1	0.0409	0.0063	0.0314	0.026	-0.5953	-0.0553	0.1468	0.1348	0.2294	0.2845	#N/A
Psma6	0.109	0.1509	0.1587	0.339	0.552	0.1908	0.1441	0.2648	0.2893	0.3122	#N/A
Mdm2	0.0887	0.3787	0.4971	0.7286	0.1471	0.2825	0.1431	-0.0694	-0.0766	-0.0863	#N/A
Ppp2r1b	0.0009	0.3184	0.3849	0.586	0.2917	0.3132	0.1428	-0.0245	-0.0183	-0.1442	Ppp2r1b
Anapc2	-0.1337	-0.2993	-0.2199	-0.0881	-0.1203	0.1095	0.1427	0.0626	0.0907	0.0951	#N/A
Ap1s2	0.0893	0.0928	0.0503	0.0932	-0.0657	0.1754	0.1412	0.2198	0.3718	0.4227	#N/A
Canx	0.0344	0.1589	0.0163	0.0232	-0.306	0.0452	0.1406	0.0533	0.0964	-0.0147	#N/A
Asb5	0.7019	0.0836	0.298	0.9788	0.1984	0.3848	0.1402	-0.4678	-0.5626	0.433	#N/A
Pik3ca	0.1504	0.083	0.1139	0.0891	0.3115	0.1606	0.1402	0.137	0.1266	0.0258	#N/A
Ube2l3	-0.0477	0.0328	0.0304	0.1064	0.1191	0.1552	0.1353	0.0057	-0.0444	-0.0291	#N/A
Psmd5	-0.0754	0.015	0.0172	-0.04	-0.3297	0.0586	0.1304	0.1929	0.1478	0.2763	#N/A
Sar1b	-0.1344	0.0057	-0.0239	0.1522	-0.0383	0.0142	0.128	0.055	-0.0142	-0.0201	#N/A
Ctsf	0.062	-0.1394	-0.0689	-0.0765	-0.1937	0.1139	0.1277	0.0016	-0.0814	-0.0756	#N/A
Klc4	-0.1206	-0.4238	-0.4257	-0.2358	0.3464	0.2008	0.1267	-0.132	0.0545	0.2053	#N/A
Ube2j2	-0.3016	-0.3113	-0.551	0.2304	0.1216	0.1472	0.1229	0.2094	0.1687	0.1046	#N/A
Uba6	0.0599	-0.0905	-0.1558	-0.1304	-0.7465	-0.0015	0.1228	0.1594	0.1842	0.1882	#N/A
Cdc27	0.0229	0.1652	0.253	0.2223	-0.3104	0.1072	0.1226	0.0887	0.0669	0.0907	#N/A
Atg7	-0.0449	-0.1162	-0.0241	-0.018	0.1319	0.1675	0.1163	0.1132	-0.047	-0.2099	#N/A
Uba2	-0.0297	-0.0345	0.0404	0.0333	-0.1654	0.0561	0.113	0.1655	0.0293	0.1192	#N/A
Psmd6	-0.0138	0.0683	0.137	0.258	0.0386	0.0824	0.1114	0.1343	0.1451	0.1502	#N/A
Smurf2	-0.2218	0.0375	0.0789	0.0528	-0.5034	0.1214	0.1047	0.1039	0.1659	0.1592	#N/A
Kif5b	0.2369	0.2542	0.2823	0.4086	0.6033	0.1606	0.1039	0.17	0.1952	0.0859	#N/A
Psmc3	0.0824	0.1007	0.1655	0.1264	0.267	0.1344	0.1015	0.1382	0.1136	0.1699	#N/A
Rictor	0.0652	0.0871	0.132	0.0036	-0.7102	-0.0015	0.1014	0.0712	-0.0123	-0.0581	#N/A
Prkg1	0.0554	0.1465	-0.1111	-0.2633	-0.3222	-0.1036	0.0973	0.1148	0.0779	0.1134	#N/A
Psmb6	0.059	0.0056	0.032	0.195	0.928	0.1073	0.0971	0.0891	0.1067	0.0966	#N/A
Pvr	0.3054	0.7595	0.9973	1.1678	0.7437	0.2526	0.097	0.0065	0.0873	-0.0181	Pvr
Spsb4	0.4354	0.0625	0.4797	0.1075	0.9424	0.1686	0.0947	0.4297	0.3261	-0.205	#N/A
Rnf6	0.112	0.158	0.2109	0.1309	-0.2475	0.0621	0.094	0.1968	0.1437	0.2554	#N/A
Ube2u	0.1555	0.55	-0.1867	0.1347	0.5414	0.7677	0.0924	0.6024	0.8174	0.8372	#N/A
Uba52	0.0634	-0.0022	0.0663	0.1718	0.8394	0.2313	0.092	0.0729	0.0519	-0.0345	#N/A

Psmd9	0.2692	0.2192	0.2076	0.3044	0.4865	0.2949	0.0881	0.1224	0.1731	0.1504	#N/A
Huwe1	-0.0183	0.0714	-0.029	-0.1102	-0.5159	-0.0349	0.0838	0.1551	0.1009	0.17	#N/A
Ap1m1	-0.2083	-0.2658	-0.3073	-0.1475	-0.5618	-0.0263	0.0828	-0.1189	-0.1703	-0.2297	#N/A
Rac1	-0.0338	0.0959	0.0351	0.0131	0.169	0.1731	0.081	-0.0058	-0.0266	-0.0069	#N/A
Arf1	-0.0031	0.0249	-0.0116	0.0297	-0.1103	0.0541	0.0772	0.0825	0.0009	0.0886	#N/A
Klhl20	-0.3655	-0.0324	-0.1032	-0.1711	-0.7384	-0.0249	0.0717	-0.0291	-0.0382	0.0118	#N/A
Psmd10	0.1517	-0.0162	-0.0584	0.0029	-0.0845	0.0006	0.0703	0.115	0.2387	0.1624	#N/A
Tpp2	-0.0141	0.0891	0.0361	0.0117	-0.152	0.0576	0.0696	0.0762	0.0122	0.1013	#N/A
Psmf1	0.007	0.0831	0.0865	0.1225	-0.071	0.0136	0.0695	-0.0064	-0.034	0.1127	#N/A
Psmd2	0.0117	-0.0671	-0.0574	0.144	0.0324	0.0708	0.0673	0.0163	-0.0205	0.0698	#N/A
Uba1	0.0189	-0.0061	-0.0108	-0.0349	-0.035	0.0523	0.0672	0.0346	0.0302	0.1083	#N/A
Sec24c	-0.0008	-0.081	0.0385	0.0959	-0.1477	-0.0703	0.0665	0.0092	-0.1123	-0.098	#N/A
Rnf138	-0.1351	-0.1236	0.1996	0.1068	-0.2526	-0.1965	0.0647	-0.1565	-0.1228	-0.2868	#N/A
Anapc4	-0.0755	0.051	0.0475	0.1018	0.0037	0.0768	0.0643	0.163	0.1676	0.1753	#N/A
Cul1	-0.0264	0.095	0.0512	0.0187	-0.5105	0.0813	0.0639	0.1907	0.1569	0.1165	#N/A
Psma3	0.135	0.1543	0.2016	0.2613	0.6299	0.1184	0.0622	0.1164	0.1011	-0.0251	#N/A
Ubr1	-0.1852	-0.0196	-0.1192	-0.0854	-0.6138	-0.0831	0.062	0.1023	0.0706	0.054	#N/A
Nfkbib	0.1749	0.1186	0.0213	0.2068	0.4085	0.1918	0.06	-0.0344	0.076	0.1707	#N/A
Itgav	-0.0355	0.0963	-0.0299	-0.072	-0.0127	0.1329	0.0576	0.0001	-0.1683	-0.1209	#N/A
Raf1	-0.0668	-0.0584	-0.0684	-0.0219	-0.3105	0.059	0.0572	-0.0798	0.0265	0.0834	#N/A
Foxo1	-0.0881	0.0267	-0.0975	-0.2052	-0.2147	0.0012	0.0562	-0.0998	0.0097	-0.0933	#N/A
Asb3	-0.0153	-0.0325	-0.1526	-0.1666	-0.4564	-0.0072	0.0548	0.1427	0.0942	-0.1024	#N/A
Pik3r1	0.2878	0.0934	0.1236	-0.0455	-0.1833	0.0582	0.0532	-0.0524	-0.0908	-0.0086	#N/A
Anapc10	-0.1972	-0.0191	-0.1167	0.0465	-0.0212	0.1198	0.0528	0.3191	0.2421	0.1131	#N/A
Psmd13	0.0275	0.0762	-0.1483	0.0459	0.306	0.0663	0.0496	-0.0051	0.0434	0.2261	#N/A
Ube4a	-0.1182	-0.0878	-0.0248	0.0212	-0.3109	-0.0027	0.0459	0.0593	0.0252	-0.0639	#N/A
Mtor	-0.065	-0.0176	-0.0668	-0.1465	-0.4696	-0.0702	0.0457	0.0686	-0.0199	0.0394	#N/A
Fbxo4	-0.3018	-0.1526	0.0472	0.3009	0.2117	0.1706	0.0452	-0.2676	-0.0505	-0.0968	#N/A
Ppp2r5a	-0.0298	0.2006	0.0693	-0.0428	-0.4164	-0.0374	0.0446	0.2074	0.1371	0.1108	#N/A
Hspa5	0.329	0.2614	0.1222	0.2767	0.1907	0.1906	0.0393	0.2479	0.0244	-0.1611	#N/A
Kif26a	-0.0112	-0.2482	0.1543	0.1723	0.6304	0.2938	0.038	-0.3749	-0.0712	-0.3987	#N/A
Socs1	-0.2105	-1.3025	-1.3351	0.7175	1.4283	0.0432	0.0374	-0.7251	0.143	0.1343	#N/A
Dync1i2	0.1491	0.2504	0.1686	0.0384	0.4778	0.1887	0.0351	0.0574	0.0371	-0.0158	#N/A
Cul3	0.0198	0.2099	0.111	0.1192	-0.4917	0.0779	0.0335	0.1419	0.1012	0.0437	#N/A
Sec31a	-0.0826	-0.127	-0.1113	0.0647	-0.4014	0.032	0.0307	0.028	-0.1261	-0.0426	#N/A
Psma2	0.0285	-0.0198	0.072	0.2756	0.4841	0.0698	0.0259	0.1503	0.1546	0.17	#N/A
Fbxw8	-0.043	-0.0748	-0.0812	0.1613	0.2203	0.0793	0.0255	-0.007	-0.1033	-0.1925	#N/A
Psmd12	0.052	0.0667	0.1615	0.2542	0.2214	0.1573	0.0229	0.139	0.2089	0.183	#N/A

Dctn4	-0.0275	0.1804	0.0902	0.0119	-0.3276	0.0328	0.0221	0.0004	-0.0495	-0.0385	#N/A
Dctn6	-0.071	-0.0832	-0.0682	-0.1375	-0.257	-0.0535	0.0217	0.0925	0.124	0.2762	#N/A
Fbxo3	-0.0202	-0.0809	-0.0938	0.012	-0.4574	-0.0159	0.0209	0.0441	0.0454	0.2424	#N/A
Det1	-0.4673	-0.3569	-0.4109	0.0542	-0.2626	0.1282	0.0185	-0.3357	-0.4142	-0.0191	#N/A
Mapkap1	0.0284	-0.1088	-0.1522	-0.1469	-0.204	0.0134	0.0183	-0.0059	-0.0821	-0.1291	#N/A
Cdc16	0.0615	0.0407	0.0827	0.2077	0.1816	0.0905	0.018	-0.0433	-0.0282	-0.0484	#N/A
Klhl13	-0.0774	-0.1384	-0.1852	-0.0826	-0.7589	-0.02	0.0169	0.1112	0.1466	0.146	#N/A
Fbxo2	0.0843	0.0191	-0.1201	-0.0885	0.4135	0.0922	0.0153	-0.0229	0.2809	0.3122	#N/A
Psmb7	0.2083	0.2503	0.2453	0.2345	0.7238	0.1395	0.0151	0.0971	0.0021	0.0733	#N/A
Herc2	-0.0094	0.0959	-0.0731	-0.2529	-0.861	-0.1265	0.0138	0.037	-0.0445	0.0123	#N/A
Uba3	0.0355	0.0929	0.0163	0.0118	-0.3366	0.0752	0.0134	0.1589	0.1469	0.2002	#N/A
Ap1g1	-0.0587	0.0457	-0.0239	0.0196	-0.6317	-0.0973	0.0116	-0.0306	-0.0673	-0.0261	#N/A
Cul5	-0.161	-0.0082	0.0087	0.0038	-0.3064	-0.063	0.0098	0.1066	0.0775	0.1243	#N/A
Map3k7	-0.0993	0.0775	0.028	0.0887	-0.3758	-0.0147	0.0091	-0.1434	-0.1484	-0.1186	#N/A
Ikbkg	-0.117	-0.0416	-0.0377	0.0117	-0.3504	0.0097	0.0055	0.0376	0.0078	0.146	#N/A
Foxo3	0.0619	-0.0357	-0.1408	-0.2152	-1.711	-0.2145	0.001	-0.1376	-0.2783	-0.0928	#N/A
Psmd14	0.0853	0.1283	0.0012	0.222	0.3312	0.0343	0.0003	0.1345	0.0342	0.084	#N/A
Plcg1	-0.0531	-0.0921	-0.2229	-0.2841	-0.6613	-0.0766	1.443E-05	-0.075	-0.1864	-0.2043	#N/A
Raet1e	0	0	0	3.0404	0	0	0	0	0	3.3911	#N/A
Cd207	0	0	2.2102	0	0	0	0	0	0	0	#N/A
Kif2b	0	2.9576	0	3.1507	0	0	0	0	0	0	#N/A
Asb17	0	0	0	0	0	0	0	0	0	0	#N/A
Vprbp	0.0618	-0.0549	-0.0987	-0.0294	-0.3315	-0.1266	-0.0025	0.0605	0.1495	0.1477	#N/A
Psma5	-0.1269	-0.3265	-0.3275	0.0804	0.1857	-0.0385	-0.0043	0.0006	0.0483	0.1024	#N/A
Psmc6	0.0674	0.1381	0.161	0.2537	0.0282	0.0398	-0.0082	0.1764	0.1321	0.0117	#N/A
Klhl9	-0.2012	-0.0498	-0.1527	-0.0979	-0.572	-0.0922	-0.012	-0.0192	0.0115	-0.0834	#N/A
Psmc5	0.2136	0.2341	0.2648	0.1216	0.079	-0.0608	-0.0124	0.027	0.0839	0.1534	#N/A
Sec24b	-0.0351	-0.0202	-0.0454	0.0118	-0.2967	0.0182	-0.0136	-0.0534	-0.136	-0.2533	#N/A
Dctn1	0.0123	-0.1099	-0.1282	-0.1272	-0.1488	-0.0969	-0.0139	0.0315	-0.0191	0.0589	#N/A
Akt1	-0.0447	-0.1288	-0.0463	-0.0348	-0.2168	-0.0397	-0.0146	-0.053	-0.1506	-0.0786	#N/A
Ube2e1	0.1519	0.1397	0.1185	0.0339	-0.4119	0.0176	-0.0149	0.1728	0.1179	0.0762	#N/A
Psmd1	0.0266	0.1072	0.0247	0.1783	0.7024	0.1166	-0.0217	0.0331	-0.0008	0.0888	#N/A
Hectd3	-0.0009	-0.15	-0.1941	-0.1217	0.0329	0.0341	-0.0221	0.0546	0.036	0.0913	#N/A
Enah	0.1404	0.2504	0.1959	-0.0271	-0.3824	-0.0752	-0.029	-0.0194	0.0236	0.0897	#N/A
Ube2d3	-0.0058	0.1146	0.0208	0.1404	-0.1562	-0.0323	-0.0313	0.0864	0.0787	0.155	#N/A
Ap1b1	0.0487	-0.0086	0.0462	-0.0286	-0.2656	-0.1349	-0.0338	-0.0527	-0.085	0.0071	#N/A
Fyn	-0.0505	0.0499	-0.044	-0.0358	-0.1627	0.1586	-0.035	-0.0985	-0.2164	-0.208	#N/A
Pik3cb	-0.1451	0.0113	-0.1431	-0.0396	-0.5349	-0.1518	-0.035	-0.1407	-0.086	-0.0318	#N/A

Blmh	-0.0277	0.0348	-0.0407	-0.0186	0.0981	-0.0573	-0.0357	0.006	0.0312	0.119	#N/A
Psmb4	-0.0414	-0.066	-0.1401	0.1108	0.5538	-0.0098	-0.0409	0.0862	0.1337	0.3152	#N/A
Fbxo6	-0.2886	-0.2441	0.0653	0.048	0.1245	-0.0594	-0.0415	-0.2172	0.0584	-0.239	#N/A
Rbck1	-0.2084	-0.3815	-0.2673	-0.2765	-0.2847	-0.0461	-0.0417	-0.2084	-0.1782	-0.1432	#N/A
Bad	0.0295	-0.2879	-0.1752	0.0075	0.548	-0.1158	-0.0424	-0.1872	0.0602	-0.0456	#N/A
Ube2z	0.0112	-0.0605	-0.0462	0.0662	0.015	-0.1669	-0.0437	-0.1024	-0.1488	-0.0177	#N/A
Arih2	0.1156	0.258	0.2359	0.2353	-0.2399	0.0788	-0.0439	-0.033	-0.0409	0.1016	#N/A
Kir3dl2	0.7174	0.9441	-0.8059	0.6112	1.2618	0.6543	-0.047	1.0734	1.3365	1.6618	#N/A
Chuk	-0.1367	0.2676	0.2442	0.2323	-0.3123	-0.0199	-0.0471	-0.0782	-0.0523	-0.1714	#N/A
Cd3d	0.3111	0.2187	0.2934	-0.2194	0.4783	-0.7863	-0.0476	-0.3926	-0.1425	0.1505	#N/A
Lrsam1	-0.0913	-0.2344	-0.2507	-0.1021	-0.0475	-0.1032	-0.048	-0.1158	-0.0656	-0.1621	#N/A
Park2	-0.0597	-0.0393	0.0182	-0.1915	-0.4041	-0.285	-0.0499	-0.2585	-0.0535	-0.2437	#N/A
Pja1	0.0696	-0.0267	0.0241	-0.1195	-0.5126	-0.1696	-0.0503	0.0701	0.0829	0.2108	#N/A
Anapc5	0.0153	0.0753	-0.0656	-0.1939	-0.0544	0.0209	-0.0511	0.0358	-0.0746	0.0536	#N/A
Ube2r2	0.0652	0.1286	0.1016	0.0582	0.6444	0.0413	-0.0515	-0.0354	-0.028	0.1066	#N/A
Psmc1	0.1196	0.1635	0.1181	0.1628	0.6296	0.0134	-0.0554	0.0848	0.0409	0.1024	#N/A
Sec23a	-0.129	0.015	-0.0376	-0.1487	-0.9349	-0.1743	-0.0591	-0.0212	-0.0448	-0.0263	#N/A
Rnf34	0.0742	0.1061	0.1406	-0.0846	-0.2948	-0.0778	-0.061	0.046	0.1231	0.1765	#N/A
Psma7	0.0336	-0.0451	-0.0106	0.0813	1.1516	0.0399	-0.0624	0.052	0.0744	0.0484	#N/A
Psmd11	0.0016	-0.0469	-0.0127	0.2396	0.801	-0.0695	-0.0624	-0.0613	-0.1404	-0.1187	#N/A
Dync1li2	0.0137	0.0733	0.056	0.0138	-0.4794	-0.1694	-0.063	-0.0349	-0.0172	0.0964	#N/A
Creb1	-0.1335	-0.1209	-0.1018	-0.0676	-0.0744	-0.0454	-0.0634	0.0176	0.0165	0.0741	#N/A
Wsb1	-0.2134	0.0198	-0.0146	0.0292	-0.3441	0.1553	-0.0669	0.0082	-0.0153	-0.0618	#N/A
Dynll2	0.126	0.0582	-0.0089	-0.0588	-0.2753	-0.1764	-0.0678	-0.1515	0.0819	0.1392	#N/A
Fbxw11	-0.0395	0.0987	0.072	0.0745	-0.4819	-0.1054	-0.0698	-0.0682	-0.0575	0.0398	#N/A
Ube2d1	-0.002	-0.0166	0.0248	-0.0594	-0.1743	0.033	-0.0726	0.0002	-0.0143	-0.0804	#N/A
Rnf123	-0.0824	-0.2081	-0.2239	-0.2597	-0.5074	-0.1971	-0.0761	-0.0007	-0.1998	0.0344	#N/A
Kras	0.0462	0.1109	0.0463	0.121	-0.1894	-0.0705	-0.0763	0.0094	-0.0248	0.0739	#N/A
Keap1	-0.0332	-0.159	-0.1066	-0.0346	0.4067	0.0128	-0.0775	-0.1382	-0.0391	-0.0624	#N/A
Dctn5	-0.0471	-0.0325	-0.1255	-0.0274	-0.1235	-0.0265	-0.0815	-0.0891	-0.2261	-0.1626	#N/A
Ube2v2	0.1656	0.0986	0.1136	-0.0049	-0.4946	-0.195	-0.0826	0.0908	0.1534	0.0121	#N/A
Trim11	-0.0819	-0.0452	-0.0277	-0.211	0.2652	-0.0427	-0.0852	-0.1125	-0.1513	0.015	#N/A
Uba5	0.0533	0.1373	0.1948	0.2409	0.2683	-0.0386	-0.0854	0.0086	0.0203	-0.0178	#N/A
Psmc4	0.077	0.031	0.0514	0.1759	0.5456	0.0636	-0.0887	0.0055	-0.0126	0.0818	#N/A
Cdc42	0.0165	0.0605	-0.0303	-0.0367	0.0552	-0.093	-0.0921	-0.0046	-0.0672	0.0797	#N/A
Psmb3	0.0983	-0.0691	-0.0797	0.2503	1.0023	0.0583	-0.0923	-0.1316	-0.0083	-0.0239	#N/A
Ube3c	-0.0215	0.129	0.0704	0.0305	-0.5811	-0.0881	-0.0927	0.0012	-0.0607	-0.0332	#N/A
Calr	0.1147	-0.0476	-0.3208	-0.127	0.4465	0.1858	-0.0948	-0.0692	-0.161	-0.05	#N/A

Ppp2ca	0.0028	0.1012	0.0332	-0.1332	-0.3209	-0.1349	-0.0966	-0.0092	-0.037	-0.0101	#N/A
Psmb2	-0.049	-0.2104	-0.1684	0.1747	0.5407	-0.0081	-0.0988	-0.1109	-0.1791	-0.0876	#N/A
Tsc2	-0.1016	-0.1027	-0.1237	-0.177	-0.2205	-0.1759	-0.1003	-0.1733	-0.2762	-0.2549	#N/A
Lrrc41	-0.0679	-0.0667	-0.0724	0.1246	-0.4663	-0.2002	-0.1006	-0.2689	-0.0598	-0.0849	#N/A
Ap2a1	-0.0621	-0.2171	-0.2715	-0.2063	-0.4939	-0.1805	-0.1013	-0.1213	-0.1939	-0.2298	#N/A
Akt2	-0.0848	-0.0641	-0.2288	-0.1609	0.131	-0.1044	-0.1015	-0.197	-0.2316	-0.1028	#N/A
Rnf4	-0.0484	0.1057	0.1421	0.224	-0.3902	-0.2585	-0.1015	-0.1645	-0.1442	0.0352	#N/A
Ube2h	0.0563	0.1109	0.1717	0.0529	-0.2009	-0.0829	-0.104	-0.0704	-0.0613	0.039	#N/A
Psmb1	0.0832	-0.0412	0.062	0.1062	0.8215	0.0766	-0.1048	0.0796	0.1013	0.1821	#N/A
Sae1	0.0237	0.0109	-0.0253	-0.078	0.3027	-0.0709	-0.1048	-0.0403	-0.0924	0.0557	#N/A
Actr1a	0.0142	-0.0171	0.0081	-0.0678	-0.3296	-0.127	-0.107	-0.0541	-0.1463	2.885E-05	#N/A
Rnf25	0.0034	0.1254	0.0385	-0.0588	0.0878	0.0598	-0.1077	0.0203	-0.0131	-0.0041	#N/A
Kif3b	-0.0373	0.004	-0.0884	-0.1621	-0.6459	-0.1486	-0.1098	-0.0339	-0.154	0.1265	#N/A
Ube2s	0.1178	0.0872	0.1312	0.1691	0.7316	-0.0427	-0.11	-0.0982	-0.0274	-0.1509	#N/A
Casp9	-0.0077	-0.0165	-0.0406	-0.1684	-0.0434	-0.2426	-0.1139	-0.2262	-0.1792	-0.1329	#N/A
Pja2	-0.0661	0.0105	-0.113	-0.3268	-0.9012	-0.2757	-0.115	0.0451	-0.0157	0.0471	#N/A
Evl	-0.0738	-0.0164	-0.0298	-0.2066	-0.2353	-0.2183	-0.1192	-0.217	-0.2707	-0.2461	#N/A
Dzip3	0.0103	-0.0009	-0.1541	-0.0875	-0.2057	-0.1898	-0.1194	0.0958	0.1343	0.1641	#N/A
Ube2n	0.0071	0.0771	-0.0056	-0.0916	-0.2677	-0.1667	-0.1201	-0.0476	-0.0426	-0.0365	#N/A
Asb13	-0.037	0.0383	-0.0189	-0.1649	-0.3035	-0.2383	-0.1233	-0.1662	-0.1767	-0.1182	#N/A
Mkrn1	0.0509	0.1032	0.0776	-0.0854	-0.2999	-0.1667	-0.1274	-0.062	-0.1386	0.0296	#N/A
Ppp2r5b	-0.0051	0.0598	-0.0364	-0.161	-0.1131	-0.2205	-0.1289	-0.1682	-0.1746	-0.0631	#N/A
Ube2q2	-0.0131	0.05	0.0451	-0.0857	-0.5833	-0.1663	-0.1307	0.0494	0.1061	0.1381	#N/A
Anapc11	0.0608	-0.0931	-0.1206	0.0071	0.6594	-0.0256	-0.1358	-0.0394	-0.0309	-0.0985	#N/A
Rnf41	0.0173	-0.0148	-0.075	-0.1262	-0.2111	-0.1505	-0.1371	-0.1202	-0.0948	-0.0754	#N/A
Asb8	0.0065	-0.1906	-0.1353	-0.1422	0.2384	-0.137	-0.1383	-0.1511	-0.1087	0.0576	#N/A
Pten	-0.0167	0.0925	-0.0181	-0.0705	-0.5328	-0.1853	-0.1407	-0.1289	-0.1817	-0.1522	#N/A
Psma4	-0.1027	-0.1375	-0.1628	0.0018	0.8354	-0.0148	-0.1443	0.009	0.0564	0.0799	#N/A
Kif2a	-0.0219	-0.0022	-0.0926	-0.0458	-0.1641	-0.1333	-0.145	-0.0741	-0.082	-0.1587	#N/A
Sh3gl2	0.0991	0.2009	0.2899	0.0403	-0.5559	-0.2359	-0.1465	-0.1784	-0.1667	-0.2103	#N/A
Them4	0.0314	-0.2063	-0.2688	-0.0326	0.0959	-0.1449	-0.149	-0.0188	0.0025	-0.0104	#N/A
Cul2	-0.0296	-0.1122	-0.1155	-0.0679	-0.4655	-0.1233	-0.1537	-0.0577	-0.0502	-0.1956	#N/A
Psmd7	0.0065	-0.0325	-0.0708	0.1263	0.4344	-0.0039	-0.1549	-0.0481	0.0047	0.1064	#N/A
Ube2j1	-0.0912	0.0731	0.0803	-0.0821	-0.6261	-0.1858	-0.1551	-0.0689	-0.166	-0.0744	#N/A
Asb7	-0.147	-0.1335	-0.0055	0.047	-0.2357	-0.0846	-0.1568	-0.1977	-0.2821	-0.0774	#N/A
Sec61g	0.1283	0.1562	0.2035	0.3675	1.3783	0.2382	-0.1621	0.0768	0.0286	0.2434	#N/A
Stim1	-0.0599	-0.1206	-0.1213	-0.2789	-0.466	-0.1932	-0.165	-0.144	-0.1905	-0.0526	#N/A
Ppp2r5e	-0.1038	-0.023	-0.1258	-0.1202	-0.5457	-0.2016	-0.1666	-0.0684	-0.1011	-0.0814	#N/A

Ube2w	0.0575	0.0245	-0.0383	-0.0684	-0.4092	-0.1023	-0.1689	0.1637	0.0322	0.1039	#N/A
Cdc34	-0.0998	-0.2107	-0.0632	0.1256	0.4897	-0.1507	-0.169	-0.1857	-0.0976	-0.0208	#N/A
Btrc	0.0073	-0.0528	-0.1193	-0.2321	-0.62	-0.2936	-0.1694	-0.0245	-0.1157	0.0182	#N/A
Klc1	-0.003	-0.0446	-0.1109	-0.1239	-0.4974	-0.2012	-0.1765	-0.02	-0.0448	0.2293	#N/A
Ap2m1	0.0499	0.107	0.1199	-0.0338	-0.1723	-0.2224	-0.1784	-0.1013	-0.1552	-0.0061	#N/A
Ube2q1	0.0002	-0.0424	-0.023	-0.1385	-0.1452	-0.1229	-0.1839	-0.1191	-0.0991	-0.1629	#N/A
Ap2s1	0.0459	0.2181	0.0375	-0.1096	0.7598	-0.0653	-0.1895	-0.1623	-0.1805	-0.2699	#N/A
Dctn2	0.0367	0.0143	0.001	-0.053	0.1894	-0.0943	-0.1901	-0.0229	-0.1058	-0.0577	#N/A
Ube2g2	0.18	0.2996	0.4083	0.2111	-0.0369	-0.1942	-0.192	-0.1546	-0.1538	0.0852	#N/A
Tceb1	0.0499	0.15	0.0878	-0.0826	-0.1952	-0.1544	-0.1926	0.0026	-0.0367	0.0615	#N/A
Pdpk1	-0.0499	0.0584	-0.0323	-0.2407	-0.9029	-0.3415	-0.1938	-0.1298	-0.1981	-0.2198	#N/A
Psmd8	0.0635	0.0081	0.0072	-0.0961	0.2599	-0.0851	-0.196	-0.2053	-0.2213	-0.3167	#N/A
Vhl	0.0556	0.1177	0.0184	-0.0783	-0.0582	-0.1452	-0.1987	-0.1346	-0.2904	0.062	#N/A
Ube2k	0.0152	-0.0019	-0.0632	-0.0639	-0.1711	-0.1697	-0.2053	-0.0569	-0.0969	-0.026	#N/A
Smurf1	-0.0152	0.0039	-0.0687	-0.1078	-0.6162	-0.2374	-0.2071	-0.2033	-0.2679	-0.3417	#N/A
Osbpl1a	-0.0929	-0.0564	-0.1367	-0.3714	-0.6573	-0.3697	-0.219	-0.0589	-0.1808	0.0846	#N/A
Psmd3	-0.1288	-0.1886	-0.3314	0.108	0.1152	-0.1694	-0.2233	-0.2143	-0.1795	-0.1699	#N/A
Mlst8	-0.0736	0.051	-0.0431	-0.217	-0.4431	-0.3355	-0.2288	-0.1956	-0.3058	-0.1964	#N/A
Ap2b1	-0.0353	0.001	-0.1683	-0.3204	-0.7349	-0.4006	-0.2327	-0.2058	-0.3001	-0.2629	#N/A
Ppp2r5c	-0.0854	0.0686	-0.0296	-0.1847	-0.4516	-0.2921	-0.2378	-0.1411	-0.2178	-0.1658	#N/A
Prkacb	-0.171	-0.1216	-0.2658	-0.3382	-1.2216	-0.299	-0.2385	-0.0788	-0.1553	-0.0222	#N/A
Ube2o	-0.0667	-0.1585	-0.2223	-0.2658	-0.3327	-0.3233	-0.2392	-0.1821	-0.2093	-0.1872	#N/A
Nr4a1	1.0704	0.2239	-0.0814	-0.4506	-0.7038	-0.3898	-0.2403	-0.1203	0.4267	0.9167	Nr4a1
Calm2	-0.0231	0.0145	-0.1395	-0.4467	-0.375	-0.1833	-0.2411	0.0624	-0.0193	0.1003	#N/A
Pik3r2	-0.1418	-0.1413	-0.2466	-0.2488	-0.3392	-0.2419	-0.2446	-0.1374	-0.2608	-0.1065	#N/A
Trim32	-0.1648	-0.1496	-0.2076	-0.374	-0.7865	-0.2872	-0.2515	-0.1021	-0.13	-0.0673	#N/A
Stub1	-0.0135	-0.1894	-0.2109	-0.1438	0.0335	-0.1469	-0.2595	-0.1587	-0.0965	0.076	#N/A
Dnm1	-0.0598	-0.114	-0.1535	-0.3991	-0.7595	-0.2902	-0.2606	-0.1594	-0.2487	-0.0631	#N/A
Asb16	-0.5856	0.1383	-0.133	-0.5297	-0.5955	-0.1473	-0.2607	0.7965	0.9555	0.325	#N/A
Ppp2r5d	-0.0466	0.0086	0.1197	-0.0684	-0.1471	-0.2798	-0.2637	-0.2815	-0.2751	-0.2769	#N/A
Dctn3	0.0855	-0.0562	0.0296	-0.0075	0.2358	-0.218	-0.2643	-0.1162	-0.2124	-0.1555	#N/A
Zap70	-0.0196	0.2095	-0.4348	-0.7114	0.2475	-0.6123	-0.2656	-0.2438	-0.0188	-0.0426	#N/A
Ube2b	0.0038	0.0055	-0.0609	-0.1824	-0.3555	-0.3232	-0.267	-0.1614	-0.0635	-0.0193	#N/A
Kifap3	0.0081	-0.0014	-0.1216	-0.334	-0.0579	-0.2792	-0.268	-0.125	-0.1945	-0.1486	#N/A
Rnf220	-0.1646	-0.2336	-0.2778	-0.2463	-0.4394	-0.2763	-0.2692	-0.2216	-0.1984	-0.1527	#N/A
Ube2g1	-0.1338	-0.0421	-0.0594	-0.0556	-0.5825	-0.2366	-0.2769	-0.1629	-0.1902	-0.2374	#N/A
Ube2a	-0.0457	-0.1365	-0.2065	-0.22	-0.3808	-0.2532	-0.2778	-0.1892	-0.2588	-0.1866	#N/A
Tceb2	0.0967	-0.0019	0.0834	0.0952	1.0314	0.0263	-0.2821	-0.0578	-0.035	-0.023	#N/A

Dync1i1	0.0267	0.0073	-0.026	-0.1886	-0.2431	-0.3357	-0.284	-0.1424	-0.1244	-0.0204	#N/A
Ppp2cb	-0.0532	0.0524	-0.0231	-0.0878	-0.263	-0.1911	-0.2912	-0.1421	-0.1146	-0.1555	#N/A
Pak1	-0.0266	0.0379	-0.095	-0.3288	-0.6091	-0.3648	-0.293	-0.134	-0.253	-0.1024	#N/A
Rapgef4	0.0988	0.3057	0.3007	0.0802	-0.9114	-0.4037	-0.2938	-0.0333	-0.3485	0.0733	#N/A
Psmb5	-0.072	-0.2791	-0.3245	-0.0404	0.2718	-0.2405	-0.3009	-0.1312	-0.2864	-0.1295	#N/A
Ube2e3	-0.0985	0.0034	-0.0362	-0.0893	-0.2716	-0.2141	-0.3024	-0.2224	-0.124	-0.2996	#N/A
Ube3b	-0.131	-0.0901	-0.1116	-0.1226	-0.6643	-0.3724	-0.3057	-0.3112	-0.4854	-0.2566	#N/A
Crtam	0.3595	0.7744	-0.1645	2.4895	0.9082	-0.2678	-0.3141	-1.5966	0.5176	-0.267	#N/A
Ppp2r1a	0.0095	-0.0955	-0.1653	-0.1959	-0.1258	-0.3294	-0.3143	-0.1904	-0.2024	0.366	#N/A
Prkaca	-0.0372	-0.1909	-0.2318	-0.2076	-0.4747	-0.3737	-0.3162	-0.2343	-0.2668	-0.2459	#N/A
Cxadr	0.1399	0.5654	0.5832	0.0521	-0.4679	-0.3264	-0.3185	-0.4464	-0.2412	-0.2616	#N/A
Asb1	-0.1479	-0.1705	-0.1402	-0.2366	-0.6766	-0.4615	-0.3216	-0.1823	-0.2338	-0.1932	#N/A
Ap2a2	-0.0823	-0.1298	-0.1526	-0.2047	-0.3131	-0.3298	-0.3254	-0.2999	-0.3209	-0.286	#N/A
Grb2	0.0168	-0.0152	-0.0421	-0.1772	-0.1066	-0.3826	-0.3284	-0.3767	-0.3794	-0.3095	#N/A
Npepps	-0.0263	-0.0272	-0.1644	-0.1605	0.0985	-0.297	-0.3332	-0.2994	-0.3083	-0.3847	#N/A
Trim37	-0.0992	0.0684	-0.1197	-0.4094	-1.0778	-0.4781	-0.3353	-0.1624	-0.2888	-0.2177	#N/A
Rbx1	-0.117	-0.2344	-0.2445	-0.0732	0.0136	-0.3288	-0.3398	-0.221	-0.2291	-0.2529	#N/A
Akt3	-0.2181	-0.0165	-0.2217	-0.4044	-1.0856	-0.5043	-0.3503	-0.1723	-0.2924	-0.292	#N/A
Akt1s1	-0.2696	-0.4461	-0.5251	-0.1394	0.0612	-0.1911	-0.3528	-0.3858	-0.2403	-0.0202	#N/A
Cdkn1a	1.1811	1.7311	1.641	2.1773	1.5199	0.3539	-0.3531	-0.5891	-0.5845	-0.5515	Cdkn1a
Rnf182	0.0484	0.1319	0.1811	-0.1534	0.263	-0.1704	-0.3537	-0.3241	-0.1788	-0.1894	#N/A
Rap1gap	-0.0664	-0.11	-0.0828	-0.3584	-0.715	-0.3376	-0.3547	-0.3833	-0.3812	-0.3607	#N/A
Zbtb16	0.719	0.8032	0.3527	0.4714	-0.0431	-0.3574	-0.3704	-0.1961	-0.2133	-0.1365	Zbtb16
Cd4	-0.8405	-1.0117	-1.5877	-2.9474	-2.3622	-0.6532	-0.3728	-0.9612	-0.6964	-1.0381	Cd4
Kif5a	0.046	0.1923	0.1622	0.1006	-0.6674	-0.523	-0.3739	-0.1362	-0.2835	0.0444	#N/A
Ywhab	-0.0546	-0.0296	-0.092	-0.175	-0.1669	-0.339	-0.376	-0.2488	-0.2923	-0.2652	#N/A
Calm3	-0.0326	-0.0692	-0.1542	-0.4157	-0.1913	-0.4526	-0.3792	-0.2299	-0.2442	-0.0611	#N/A
Ywhaz	-0.1104	-0.1263	-0.3351	-0.3412	-0.4476	-0.4518	-0.3847	-0.2855	-0.3501	-0.141	#N/A
Ube2m	0.0247	-0.0853	-0.058	-0.0003	0.2632	-0.3562	-0.3867	-0.3241	-0.3235	-0.3163	#N/A
Fbxo44	0.0353	-0.0732	-0.0226	-0.1415	0.1937	-0.2657	-0.3924	-0.189	-0.2816	-0.2532	#N/A
Gsk3a	-0.1166	-0.1129	-0.1396	-0.2624	-0.4361	-0.4524	-0.394	-0.35	-0.3193	-0.2217	#N/A
Ube2e2	-0.017	-0.0716	-0.1671	-0.3551	-0.3309	-0.4569	-0.3946	-0.2303	-0.3175	-0.0678	#N/A
Klc2	-0.0813	-0.3429	-0.4008	-0.4189	-0.5316	-0.4707	-0.3974	-0.1923	-0.2195	-0.0314	#N/A
Ap1s1	-0.0012	-0.0206	-0.1997	-0.2407	0.0165	-0.3382	-0.4064	-0.255	-0.3254	0.2422	#N/A
Kif3c	-0.1193	-0.1649	-0.2378	-0.2955	-0.9738	-0.4739	-0.4069	-0.3118	-0.3803	-0.2585	#N/A
Asb6	0.0072	-0.2185	-0.1466	-0.0192	-0.1645	-0.3494	-0.4075	-0.3432	-0.3296	-0.35	#N/A
Calm1	-0.0021	0.0531	-0.0815	-0.3136	-0.3869	-0.449	-0.4155	-0.2536	-0.3661	-0.2158	#N/A
Prkcb	-0.1078	-0.0503	-0.2218	-0.5834	-0.8916	-0.6087	-0.4173	-0.3761	-0.4962	-0.3699	Prkcb

Fbxw7	0.0556	-0.1774	-0.371	-0.4329	-0.4399	-0.4483	-0.4252	-0.2701	-0.3758	-0.139	#N/A
Rasgrp1	-0.1237	0.0226	-0.0881	-0.4521	-1.0014	-0.5046	-0.4288	-0.3923	-0.5837	-0.4176	#N/A
Asb11	-0.4247	-0.1243	-0.4723	-0.5482	-0.1636	-0.3834	-0.4527	-0.1993	-0.3008	0.0229	#N/A
Src	-0.0701	-0.0588	-0.0515	-0.1433	-0.3246	-0.4111	-0.4582	-0.3902	-0.4517	-0.3101	#N/A
Ubox5	-0.265	-0.2326	-0.1824	-0.2981	-1.0064	-0.6594	-0.486	-0.4328	-0.6462	-0.6727	#N/A
Hras	-0.0208	-0.1443	-0.1782	-0.3391	-0.1097	-0.501	-0.5146	-0.3436	-0.3932	-0.4522	#N/A
Sptbn2	-0.2341	-0.2537	-0.4522	-0.6616	-1.4037	-0.7894	-0.5321	-0.3875	-0.6594	-0.4979	#N/A
Rps6kb2	-0.1276	-0.2023	-0.1667	-0.2343	0.1039	-0.3164	-0.537	-0.3637	-0.4691	-0.3788	#N/A
Sec61a2	-0.0581	-0.0852	-0.0771	-0.1755	-0.3823	-0.3883	-0.5411	-0.3214	-0.3769	-0.354	#N/A
Rasgrp2	-0.2144	-0.6542	-0.6303	-0.9415	-0.8612	-0.7173	-0.5438	-0.4496	-0.4518	-0.2853	Rasgrp2
Grap2	-0.2487	-0.1407	-0.0691	-0.1792	0.1885	-0.8888	-0.546	-0.8439	-0.8208	-0.4212	Grap2
Dynll1	0.057	-0.1584	-0.2182	-0.2214	0.1325	-0.3152	-0.5573	-0.2684	-0.3981	-0.3661	#N/A
Actr1b	-0.1621	-0.303	-0.3298	-0.3659	-0.6196	-0.6531	-0.5604	-0.4831	-0.3529	0.7137	#N/A
Rap1gap2	-0.11	-0.0989	-0.0204	-0.1602	-0.973	-0.689	-0.6316	-0.5395	-0.6888	-0.4797	#N/A
Trim9	-0.0842	-0.191	-0.3176	-0.471	-0.7984	-0.7274	-0.8155	-0.5377	-0.7798	-0.6846	#N/A
Fbxo27	-0.4546	-0.8063	-0.7392	-0.497	-1.2653	-0.9658	-0.8164	-0.5782	-0.6359	-0.5902	#N/A
Asb15	-0.8656	-1.0277	-0.9168	-0.4624	-1.0535	-4.9245	-1.3482	-1.0177	-2.4325	-0.58	#N/A
Asb9	-3.2137	-3.2137	-0.476	-3.2137	-3.2137	-3.2137	-3.2137	-3.2137	-3.2137	-3.2137	#N/A
Kir3dl1	-0.5501	-0.3793	-3.3313	-3.3313	0.5397	-3.3313	-3.3313	-3.3313	-3.3313	0.0597	#N/A

Adaptive

Gene	Log2(1h vs. pre)	Log2(3h vs. pre)	Log2(6h vs. pre)	Log2(1d vs. pre)	Log2(3d vs. pre)	Log2(1w vs. pre)	Log2(2w vs. pre)	Log2(1m vs. pre)	Log2(2m vs. pre)	Log2(6m vs. pre)	sig
Sell	5.0944	5.6449	5.4058	6.0184	6.9385	5.6404	8.28	5.8615	8.1602	0	#N/A
Cd8a	3.2792	2.9576	5.1443	4.7019	5.0474	3.3759	7.6067	6.1246	6.7838	6.0463	#N/A
C3	0.8447	0.8876	1.7096	3.8823	4.5371	4.4705	7.4944	7.0415	6.9883	4.3129	C3
Klrc1	2.3865	0	0	0	5.7006	3.0464	7.0219	4.3482	5.5159	0	#N/A
Cd96	4.4945	2.796	4.3458	3.889	0	0	6.4634	3.5901	5.0845	0	#N/A
Cd226	3.4729	2.9521	0	4.3576	0	0	6.1396	3.8881	6.0507	4.2546	#N/A
Ulbp1	0	4.3542	3.6887	4.8033	7.191	6.5857	6.0124	4.2976	5.2125	3.5124	#N/A
Cybb	0.1	0.0866	0.1057	2.9732	5.0051	4.9041	5.9366	3.8983	5.2171	1.6258	Cybb
Cd74	0.5445	0.1015	0.2607	1.726	4.7119	2.1786	5.0646	4.0118	4.4572	1.645	Cd74
Pdcd1	-0.2142	1.2329	1.7829	1.5638	4.0719	3.2388	4.9611	3.5872	2.6948	0.9696	Pdcd1
Cd19	0	0	2.7234	3.4153	0	0	4.6394	5.121	7.3935	4.3856	#N/A
Cd3g	-1.6267	-1.6686	-2.416	-0.2451	0.2199	0.2937	4.544	3.2386	3.7842	1.7956	Cd3g
Icos	1.6708	1.5719	2.1561	1.5156	3.197	2.6291	4.3093	2.6045	2.8496	1.5933	#N/A
Cd3e	0.1416	-0.5353	-0.5937	1.8041	-3.3313	0.9187	4.2014	2.673	3.4452	2.467	#N/A
Fcgr2b	0.1034	0.1628	0.2427	2.1296	3.1906	3.3111	4.0739	2.541	2.219	0.8186	Fcgr2b
Ncf4	0.2786	0.5396	1.1271	2.4873	4.1758	3.6023	3.9527	2.5169	2.8662	1.5653	Ncf4
Klrk1	0.9785	2.3591	2.4776	0.5252	2.2319	0.6383	3.8526	2.0113	2.9237	-1.5354	Klrk1
Card11	-0.4423	-0.0881	0.1213	-0.4664	3.1568	2.8486	3.8378	1.1202	2.8681	0.8581	Card11
Blk	0	0	0	2.1662	0	0	3.8294	3.9894	6.1618	0	#N/A
Ctss	0.1695	0.3303	0.4172	0.6469	2.7569	3.2102	3.8063	2.3761	2.4669	1.0223	Ctss
Ptpn6	0.0998	-0.4205	0.402	1.2999	3.0891	3.4682	3.7866	2.1696	2.2702	0.6202	Ptpn6
Ptprc	0.1373	0.2537	0.532	1.4805	2.8932	3.1709	3.7276	2.178	2.3595	0.3786	Ptprc
Asb12	2.9925	2.9521	2.7376	0	0	3.9833	3.6822	0	2.9612	3.5124	#N/A
Cd160	2.9925	2.796	4.6105	2.1662	0	0	3.6157	2.1805	4.9788	0	#N/A
Itgb2	-0.5172	0.3494	0.3245	1.5258	3.0718	3.5162	3.5992	2.128	2.3112	0.7498	Itgb2
Tyrobp	0.0645	0.1475	0.1429	1.0426	3.4014	3.7381	3.5957	2.4152	2.1719	0.5491	Tyrobp
Tnfrsf14	0.3729	-0.2333	1.1441	0.861	3.4408	2.5939	3.5705	1.9879	2.0987	-0.6166	#N/A
Itgb7	0.649	0.2301	1.3101	1.3999	3.2371	2.0173	3.5036	1.6613	2.3121	1.1253	Itgb7
Cyba	0.3217	0.0958	0.3291	1.3676	3.8764	3.6251	3.4848	2.2375	2.5009	0.8009	Cyba
Pik3ap1	-0.189	0.9416	0.7573	1.4043	2.0066	3.2664	3.4835	1.5863	1.8758	0.434	Pik3ap1

Ctsh	0.0324	-0.2862	0.0658	0.5314	3.6814	3.2854	3.4746	2.0551	2.1402	0.9724	Ctsh
Psmb8	-0.516	-0.5524	-0.3231	1.2659	3.2868	2.8771	3.4286	1.7156	1.9045	0.8602	Psmb8
Klrd1	-0.4648	-4.0767	0.716	0.2341	2.9205	-0.1511	3.416	1.7831	2.1523	-4.0767	#N/A
Cd86	1.0539	1.606	1.6158	1.7663	2.3627	2.7127	3.3439	1.8894	1.472	0.582	Cd86
Psmb9	-0.9778	0.1565	0.0654	0.7246	3.0461	2.4187	3.3266	1.8648	1.9635	0.9549	Psmb9
Btk	-0.8065	0.088	0.2109	1.2909	2.7785	3.2267	3.2103	1.6259	1.9415	0.6263	Btk
Tap1	-0.5433	-0.4643	0.3919	1.443	2.5487	2.2939	3.1878	1.0676	1.294	0.8906	Tap1
B2m	0.2281	0.394	0.4343	0.5762	2.6762	2.542	3.1262	1.9345	1.8342	0.746	B2m
Itgal	0.2405	0.6284	0.1962	1.3793	2.3315	2.3593	3.0793	1.7787	1.8273	0.3514	Itgal
Fyb	0.2899	0.4126	0.7606	1.4027	3.1725	3.1659	3.0589	1.7154	1.6131	0.3099	Fyb
Kif2c	0.5565	1.0934	0.098	1.3466	5.2306	4.3413	3.0451	1.7952	1.3432	-0.3858	Kif2c
Uba7	0.2762	-0.4042	-0.5826	0.658	2.9385	3.1005	3.0304	1.7508	1.3938	0.5119	Uba7
Cd28	-0.3733	0.1546	0.4254	1.058	1.3638	1.8283	2.9968	0.8644	1.6386	-0.9022	Cd28
Cd36	0.2152	0.5452	0.5538	1.7877	3.0161	3.3318	2.9902	1.386	4.0107	1.0848	Cd36
Psma8	2.0677	2.429	2.1036	2.9831	3.2089	2.9132	2.9275	2.3367	2.0252	2.1519	#N/A
Icam1	1.5323	1.5745	3.1504	2.573	2.4591	2.4282	2.913	1.5589	1.843	1.3047	Icam1
Ctsc	-0.0233	-0.1652	0.2516	1.9976	2.9091	2.6761	2.9075	1.374	1.637	0.2433	Ctsc
Ctsd	0.1489	0.0864	0.1593	0.6176	3.1401	3.4722	2.9019	1.589	1.3668	0.829	Ctsd
Vav1	-0.2154	0.1398	0.5475	1.4654	3.1654	2.9002	2.8899	1.5063	1.3741	0.3454	Vav1
Cd247	0.5427	0.1822	-0.833	1.5296	2.1296	-1.7206	2.7428	1.3678	1.1936	-4.1971	#N/A
Lyn	0.2484	0.4018	0.5045	1.3517	2.3077	2.6211	2.7036	1.4305	1.2863	0.4297	Lyn
Btla	1.8166	1.4126	1.6625	1.7997	0.437	1.5559	2.7006	1.5165	2.7457	1.5042	Btla
Ncf2	0.0431	0.1139	0.6884	0.8265	2.4645	2.4004	2.6692	1.4061	1.5561	0.1475	Ncf2
Lat	1.4111	1.3141	1.3932	1.02	1.9798	1.0548	2.5469	1.6795	2.3057	0.0577	#N/A
Lcp2	-0.3807	0.323	0.5443	1.6301	2.5125	2.6955	2.4988	1.0861	1.1546	0.1239	Lcp2
Cd40	0.3977	0.4486	1.1199	1.6414	2.8859	1.9117	2.4468	1.0794	1.2691	0.9959	Cd40
Plcg2	0.0416	0.1069	0.2146	0.9007	2.5255	2.5945	2.4345	1.2421	1.1621	0.19	Plcg2
Amica1	1.2759	1.2651	2.0614	1.4651	2.2061	0.9604	2.3974	0.0045	1.1868	-0.351	Amica1
Hcst	-0.8271	-0.4177	0.6669	0.7594	3.197	3.2718	2.3925	0.9371	1.0692	-0.0965	#N/A
Syk	-0.2857	-0.2429	-0.2594	0.702	1.8876	2.0796	2.3732	0.9845	1.253	-0.0596	Syk
Ctla4	-3.2137	-3.2137	-0.4902	0.6753	-3.2137	0.7657	2.2508	-1.0331	1.5363	-3.2137	#N/A
Cd200r1	0.0548	0.8497	0.3657	0.9361	1.1512	1.6477	2.2381	1.3282	1.7515	0.5305	Cd200r1
Cd40lg	2.3865	0	0	0	4.2808	0	2.1973	0	2.9612	0	#N/A
Cd79b	-1.5864	-4.5859	-0.5453	-0.1937	2.513	1.7243	2.0675	2.0696	3.0221	-0.2003	#N/A
Trim21	-0.2752	0.2426	0.2685	0.9597	1.1337	1.8801	2.066	0.9978	1.309	0.7415	Trim21

Itgb5	0.0052	-0.0428	-0.2331	0.0221	1.6718	2.18	1.9824	1.014	0.8136	0.24	Itgb5
Dtx3l	-0.2414	0.1119	0.3453	0.5921	1.3904	1.5571	1.9243	0.5372	0.8675	0.4356	Dtx3l
Mrc2	-0.4416	-0.1425	-0.3888	0.1285	1.2448	1.6689	1.9029	0.7921	1.0667	0.7059	Mrc2
Ctsb	0.067	0.1213	0.1953	0.4376	1.8553	2.172	1.8242	0.8212	0.8626	0.2342	Ctsb
Tap2	0.2001	-0.1887	0.1019	0.9118	1.5336	1.284	1.8078	0.6993	0.9396	0.6714	Tap2
Cd80	1.0707	1.0134	1.5339	1.1999	2.236	0.7308	1.7746	0.9281	1.5259	1.9343	#N/A
Lgmn	0.1931	0.1831	0.2877	0.5865	2.3139	2.1247	1.7293	0.7063	0.6684	0.2614	Lgmn
Ifitm1	-1.2604	0.1034	0.1205	1.7659	2.9373	1.4381	1.7269	0.9183	0.9837	0.5426	Ifitm1
Socs3	1.4058	1.8922	2.5199	3.5059	3.0082	1.4683	1.6474	0.7431	0.5004	-0.7676	Socs3
Pdcd1lg2	-2.965	-0.169	0.1232	2.537	-2.965	1.4197	1.6434	1.3285	0.79	1.9338	#N/A
Erap1	-0.0605	0.209	0.2214	0.7902	0.8162	1.3596	1.6404	0.9398	0.9423	0.6335	Erap1
Trim63	0.829	2.8255	0.7163	1.6342	2.0824	1.3842	1.622	2.1653	2.1428	2.409	#N/A
Ctsa	-0.0469	-0.1489	-0.0869	0.24	1.3604	1.7962	1.6139	0.6589	0.505	0.0482	Ctsa
Ube2c	0.5748	0.7112	1.266	1.3839	4.7387	3.1351	1.5886	0.2993	0.5963	-0.0138	Ube2c
Map3k8	0.3141	1.1174	1.6822	0.5616	1.1044	1.5487	1.5799	0.9805	0.9679	0.4401	Map3k8
Mrc1	0.0017	0.4589	0.2767	0.8785	0.8656	1.0732	1.5731	0.5958	1.1552	0.1212	Mrc1
Cd79a	0.2911	-0.0256	0.0654	0.4974	1.0583	0.0511	1.533	1.0985	2.9232	0.2491	#N/A
Ube2l6	-0.3016	-0.2114	-0.2775	0.2585	1.2609	1.1985	1.5274	0.3784	0.617	0.0806	Ube2l6
Kif15	0.6236	0.4496	0.3577	0.6294	3.4721	2.8899	1.4919	0.4175	0.6703	-0.2928	Kif15
Cd274	0.3259	0.5027	0.3284	0.7727	0.9311	0.7922	1.4532	0.5468	0.485	1.3835	Cd274
Kif22	-0.4568	0.1917	0.2849	1.0876	3.5753	2.3971	1.4308	0.5316	0.048	0.5105	Kif22
Kif20a	-0.9218	-0.1306	-0.001	-0.4607	3.4048	2.6686	1.4008	0.5179	0.1305	-0.424	Kif20a
Kif18a	1.1239	0.6967	0.6092	1.1832	2.2578	1.9036	1.3759	0.8273	0.8574	0.5326	Kif18a
Vcam1	0.1674	0.4494	0.7386	0.4154	0.5117	0.8817	1.3681	0.6929	0.6948	0.5554	Vcam1
Cdc20	-0.1295	0.7841	-0.159	0.4293	3.6366	2.3447	1.3233	0.2422	-0.5537	-2.1995	Cdc20
Vasp	0.4026	0.0394	0.4332	0.9634	1.4543	1.3891	1.3084	0.3911	0.7594	0.1041	Vasp
Blnk	0.1605	0.6933	1.2485	0.7719	1.0985	1.193	1.3038	0.2929	0.2369	-0.4639	Blnk
Was	0.3221	0.6158	0.5514	0.4838	1.4745	1.0435	1.2834	0.3702	0.2664	-0.021	Was
Itk	0.1152	0.2385	0.3081	-0.0149	-0.1512	-0.0321	1.2818	0.5481	0.9917	0.4245	Itk
Cdh1	-0.2579	1.388	0.9344	0.8606	0.9375	1.3458	1.2782	1.0762	1.5071	0.9766	Cdh1
Rasgrp3	0.0655	0.2784	0.4336	0.1447	0.7727	1.2196	1.205	0.595	0.3493	0.2899	Rasgrp3
Ctsk	0.2443	0.0874	-0.2047	0.3518	-0.1209	1.0469	1.1868	0.326	1.4638	0.326	Ctsk
Spsb2	0.4932	0.3978	0.2808	0.9008	2.073	1.3165	1.1326	0.8199	0.9459	0.5578	Spsb2
Nfkbie	-0.2384	0.0341	0.1221	0.2455	1.1197	0.7467	1.1285	0.2243	0.2596	-0.4942	Nfkbie
Psme2	-0.0469	-0.3544	-0.1657	0.5024	1.528	0.971	1.1003	0.5048	0.6171	0.3882	Psme2

Itgb1	0.0573	0.2697	0.2705	0.6815	1.1575	1.128	1.0421	0.498	0.6511	0.4027	Itgb1
Lrr1	1.5295	-0.0075	1.5231	1.3056	4.4858	2.8512	1.0407	0.1241	-2.965	0.1521	#N/A
Psme1	0.0898	0.178	0.1012	0.3746	1.4899	0.998	1.0387	0.5907	0.6431	0.4604	Psme1
Shc1	0.0129	0.2436	0.4724	0.5669	1.0256	1.0726	1.0148	-0.0098	0.3329	-0.0229	Shc1
Rel	0.6275	0.6615	0.9227	0.5684	0.3503	0.2523	0.9293	0.2979	0.1943	-0.6274	Rel
Kif11	0.0397	0.2772	0.2052	0.1338	2.5877	1.865	0.9195	0.4318	0.191	-0.0555	Kif11
Itpr2	0.1402	0.1811	0.1763	0.1693	0.9336	1.0591	0.8771	0.3109	0.1997	-0.0178	Itpr2
Sipa1	-0.0335	-0.2485	0.0236	0.343	1.7482	1.1051	0.8565	0.2697	0.3233	0.0044	Sipa1
Dnm2	0.1518	0.1045	0.2428	0.5617	0.743	1.0083	0.8372	0.4215	0.2937	0.1721	Dnm2
Itpr3	0.0423	-0.2935	-0.0151	0.5078	0.9324	1.1711	0.8292	0.4695	0.4906	0.7321	Itpr3
Orai1	0.3226	0.0201	0.2536	0.4283	1.6705	1.0792	0.792	0.0866	0.1593	0.0627	Orai1
Pvrl2	0.4094	0.3091	0.5219	0.5666	1.7256	0.9239	0.7804	0.7043	0.5828	0.6343	Pvrl2
Trib3	-0.2439	0.7124	0.6673	1.3601	0.9693	-0.9029	0.7779	0.0479	-0.0112	-0.3205	#N/A
Csk	-0.0374	-0.0702	-0.0302	0.417	1.1255	0.8152	0.7286	0.2309	0.4927	0.1797	Csk
Ripk2	0.4624	0.5364	0.5257	0.3085	0.4632	0.6776	0.6383	0.1336	0.3871	0.381	Ripk2
Ctso	-0.0338	0.1763	0.2813	0.0728	0.1174	0.4899	0.632	0.3995	0.338	0.329	#N/A
Rap1b	0.0474	0.285	0.3216	0.4442	0.4485	0.684	0.6121	0.2653	0.2517	0.0327	Rap1b
Prkcq	0.2914	0.0705	0.3817	0.0863	0.2496	0.6226	0.601	0.5934	0.4344	0.3604	#N/A
Malt1	-0.0526	0.1842	0.4683	0.4092	0.2727	0.3759	0.5949	0.1512	0.1021	-0.0294	Malt1
Cd34	-0.0367	0.0612	0.0441	0.1372	0.1754	0.3837	0.5938	0.4238	0.2881	0.3529	#N/A
Rela	0.1259	0.0987	0.3783	0.5899	0.5953	0.6446	0.5912	0.1803	0.1615	0.0465	Rela
Icam2	0.095	-0.3935	-0.1558	0.6376	1.2253	0.8776	0.5705	0.183	0.6155	0.2726	#N/A
Lnpep	-0.0819	0.2818	-0.1468	-0.2056	-0.7051	0.1057	0.5612	0.3268	0.3036	0.2294	#N/A
Map3k14	0.1284	0.4356	0.6481	0.5154	0.4744	0.5809	0.5579	-0.1794	0.2994	-0.4282	Map3k14
Bcl10	0.0711	0.3632	0.5871	0.6152	0.1967	0.5391	0.5454	0.2994	0.5433	0.452	Bcl10
Rap1a	0.0759	0.1876	0.2628	0.3477	0.4452	0.5101	0.5084	0.3514	0.4439	0.1598	#N/A
Lck	-0.3856	-0.3974	-0.3615	-0.1789	0.2409	-0.8957	0.4898	0.3634	0.4409	-0.7459	#N/A
Ap1m2	0.8386	0.5382	1.0175	-0.1979	-5.405	-1.3554	0.478	0.2867	-0.0138	0.2496	#N/A
Trim36	-0.3613	-0.0669	0.0713	-0.0064	0.0122	0.2641	0.4685	0.2519	0.3014	0.2824	#N/A
Pag1	-0.0805	-0.002	0.1096	-0.0634	0.1192	0.3443	0.4593	0.0739	0.0349	-0.0952	#N/A
Sec24d	-0.2123	0.2942	0.4449	0.5098	0.1372	0.397	0.4586	0.1914	0.2861	0.1652	#N/A
Dync2h1	0.207	0.2916	0.1581	-0.04	-0.3191	0.2367	0.4375	0.4729	0.4562	0.457	#N/A
Anapc13	0.3067	0.2618	0.2997	0.1753	1.1337	0.3824	0.4354	0.3121	0.4268	0.3592	#N/A
Rilp	0.1667	0.1933	0.6138	0.6812	0.4981	0.1394	0.4211	-0.0146	1.0031	0.442	#N/A
Asb2	0.277	0.2089	0.4993	0.4872	0.81	0.4231	0.4208	-0.0664	0.3858	0.0693	#N/A

Pik3cd	-0.1608	-0.2836	-0.1423	-0.0543	0.3912	0.3114	0.4204	-0.087	-0.1732	-0.4668	#N/A
Kif23	0.7057	0.7383	0.7565	-0.1003	2.5207	1.9743	0.4129	-0.2129	-0.1375	-0.3058	Kif23
Yes1	-0.0898	0.2559	0.3129	0.3647	-0.2648	0.3974	0.3951	0.1937	0.3382	0.2552	#N/A
Pak2	-0.0134	0.1169	0.08	0.2108	0.2326	0.3578	0.3825	0.1421	0.0942	-0.0007	#N/A
Rapgef3	0.3879	0.1387	0.1786	0.1775	0.256	0.2868	0.3768	0.2462	0.2267	0.1489	#N/A
Cbl	-0.0676	0.2837	0.0443	0.0609	-0.4599	0.056	0.3736	0.1287	0.1047	0.0335	#N/A
Asb4	0.7436	0.6447	0.3766	0.2449	0.4168	0.1044	0.3577	0.5748	0.988	1.2321	Asb4
Dync1h1	0.0646	0.1145	-0.0431	-0.1512	-0.3904	0.1318	0.3545	0.2918	0.2126	0.3142	#N/A
Dync2li1	0.0525	-0.0994	0.0166	0.0859	-0.1818	0.334	0.3526	0.4286	0.4718	0.2868	#N/A
Nck1	0.1431	0.2368	0.2327	0.1428	-0.008	0.2068	0.3505	0.3843	0.42	0.5323	#N/A
Cd81	-0.0231	-0.0894	-0.0024	0.1126	0.3331	0.3721	0.3406	0.0817	0.0373	-0.0788	#N/A
Gan	0.1625	0.5318	0.4485	0.57	-0.2778	0.1211	0.3401	0.3993	0.3121	0.1336	#N/A
Fbxo17	0.433	1.2159	1.4797	1.2486	0.8718	0.201	0.3336	0.0095	0.2672	0.2058	Fbxo17
Foxo4	0.1179	0.0839	0.2536	0.034	0.4047	0.4459	0.3197	0.1183	0.3283	0.214	#N/A
Sec61a1	-0.0513	-0.0978	0.2042	0.5235	0.5735	0.2528	0.3133	-0.1348	-0.0029	-0.2989	#N/A
Cul7	-0.2437	-0.4886	-0.3946	-0.1412	-0.0768	0.125	0.3099	0.0875	0.1195	0.0437	#N/A
Rnf144b	-0.0319	0.1515	0.0464	-0.0387	-0.2906	0.1357	0.2945	-0.0848	-0.0053	0.0584	#N/A
Clta	-0.0156	-0.1046	-0.1659	-0.0117	0.6151	0.3881	0.2893	0.1266	0.1301	0.1578	#N/A
Skp2	-0.1368	-0.016	0.3622	0.2281	-0.1356	0.3261	0.2883	-0.0877	0.1124	0.2879	#N/A
Pdia3	0.1408	0.2286	-0.0108	0.1194	0.514	0.4403	0.2801	0.159	0.047	-0.2027	#N/A
Trip12	-0.0245	0.2137	0.1291	0.0799	-0.4527	0.1571	0.2781	0.1979	0.1732	0.1606	#N/A
Spsb1	0.5349	0.585	0.5318	0.6544	0.9332	0.7394	0.2759	-0.022	0.0005	0.0224	Spsb1
Icam4	-0.1945	0.6344	0.136	0.0262	-0.1937	0.5362	0.2555	-0.2881	0.6571	-0.9062	#N/A
Cdc26	0.0474	-0.1273	0.0351	0.147	0.4086	0.2604	0.2445	0.3655	0.4419	0.5048	#N/A
Sh3kbp1	-0.0539	-0.0646	-0.222	-0.0856	-0.0457	0.1767	0.2437	0.0538	0.0007	0.0922	#N/A
Psme4	0.0255	0.1849	0.2394	0.224	-0.0594	0.0674	0.2431	0.0613	0.0612	0.0073	#N/A
Traf6	0.038	0.3547	0.5471	0.4203	-0.1795	0.231	0.2418	0.1304	0.1848	0.1355	#N/A
Trat1	0.1844	-1.5857	1.7931	1.1348	0.3084	-0.2132	0.2416	0.2633	0.5474	-0.3544	#N/A
Anapc1	-0.2224	-0.0404	-0.1198	-0.0372	-0.3629	0.1179	0.2376	0.118	0.039	0.1142	#N/A
Sec61b	-0.0633	-0.4694	-0.3888	0.3272	0.9541	0.4431	0.2263	0.0349	0.3495	0.301	#N/A
Ikbkb	0.0638	-0.0605	-0.0971	-0.1208	-0.2638	0.1467	0.2126	-0.0007	-0.0717	-0.0523	#N/A
Nedd4	-0.1304	0.0304	-0.0861	-0.0524	-0.6804	0.1314	0.2121	0.1828	0.0922	0.1376	#N/A
Phlpp1	-0.0704	-0.0991	-0.1918	-0.3461	-0.7111	-0.0412	0.2119	0.2416	0.0846	0.0746	#N/A
Sec13	-0.0089	-0.0015	0.0678	0.195	0.2342	0.2363	0.21	0.0954	-0.0335	-0.0689	#N/A
Cdkn1b	0.2451	0.1559	0.0852	-0.0274	0.1444	0.1794	0.2057	0.1697	0.2328	0.0823	#N/A

Psmb10	0.1197	0.1787	0.1707	0.1182	0.9954	0.088	0.202	-0.009	0.142	0.175	#N/A
Cltc	-0.0191	0.1763	-0.0084	-0.1464	-0.6869	0.0332	0.1994	0.1549	0.0338	0.0474	#N/A
Klc3	-0.2969	-0.6715	-0.7038	-0.3579	0.273	0.1737	0.1989	0.0298	0.2631	0.6409	#N/A
Cdc23	-0.0549	-0.0325	-0.0089	-0.0834	-0.4813	0.1561	0.1987	0.2636	0.1509	0.2964	#N/A
Tab2	-0.109	-0.0006	0.1018	0.1377	0.2525	0.2416	0.1964	0.0492	0.0523	0.0235	#N/A
Wwp1	-0.0824	0.0005	-0.0029	-0.023	-0.2972	0.1996	0.1956	0.066	-0.1217	-0.0718	#N/A
Rps27a	0.1037	0.1529	0.2455	0.3379	1.1719	0.2611	0.1955	0.1488	0.3032	0.1641	#N/A
Pik3r3	0.0665	0.1398	0.1816	0.0838	-0.3877	0.3729	0.1916	0.0968	0.0553	0.0104	#N/A
Nfkbia	0.5199	0.4644	0.304	0.5425	0.9523	0.1397	0.1913	-0.3802	-0.1448	-0.3242	#N/A
Ube2f	0.0964	0.3843	0.3494	0.2893	0.253	0.0943	0.1881	0.1375	0.1579	0.3905	#N/A
Rchy1	0.0528	0.1687	0.2818	0.4374	0.0973	0.0204	0.1875	0.1052	0.259	0.1312	#N/A
Psmd4	0.1336	0.0571	0.1353	0.1601	0.59	0.2628	0.1866	0.1317	0.2078	0.228	#N/A
Anapc7	-0.0947	-0.3496	-0.0841	0.0092	0.2752	0.135	0.1864	0.0162	0.0226	-0.01	#N/A
Ube3a	0.2331	0.1868	0.1099	0.2783	0.2616	0.0844	0.1845	0.267	0.2638	0.1977	#N/A
Nras	-0.0977	0.0826	0.2208	0.4146	0.7532	0.3034	0.1833	-0.1681	-0.2261	-0.2207	#N/A
Ubr2	-0.0785	-0.0741	-0.085	-0.0272	-0.6199	0.0764	0.1736	0.0653	-0.0087	0.0426	#N/A
Psma1	0.1013	0.0864	0.0194	0.1452	0.3395	0.1737	0.1673	0.2252	0.1518	0.0804	#N/A
Racgap1	-0.0394	-0.0299	0.1892	0.0811	1.1276	0.903	0.1619	-0.0716	-0.3405	0.1403	Racgap1
Ubr4	-0.0383	0.0359	-0.1477	-0.1485	-0.5814	0.0315	0.1602	0.0993	0.0391	0.1299	#N/A
Psmc2	0.1624	0.1609	0.1614	0.3124	0.2699	0.1481	0.157	0.2189	0.1697	0.3605	#N/A
Cblb	0.0508	0.1535	0.2483	0.0432	-0.7329	0.0748	0.1491	0.1485	-0.0084	-0.0796	#N/A
Sos1	0.0409	0.0063	0.0314	0.026	-0.5953	-0.0553	0.1468	0.1348	0.2294	0.2845	#N/A
Psma6	0.109	0.1509	0.1587	0.339	0.552	0.1908	0.1441	0.2648	0.2893	0.3122	#N/A
Mdm2	0.0887	0.3787	0.4971	0.7286	0.1471	0.2825	0.1431	-0.0694	-0.0766	-0.0863	#N/A
Ppp2r1b	0.0009	0.3184	0.3849	0.586	0.2917	0.3132	0.1428	-0.0245	-0.0183	-0.1442	Ppp2r1b
Anapc2	-0.1337	-0.2993	-0.2199	-0.0881	-0.1203	0.1095	0.1427	0.0626	0.0907	0.0951	#N/A
Ap1s2	0.0893	0.0928	0.0503	0.0932	-0.0657	0.1754	0.1412	0.2198	0.3718	0.4227	#N/A
Canx	0.0344	0.1589	0.0163	0.0232	-0.306	0.0452	0.1406	0.0533	0.0964	-0.0147	#N/A
Asb5	0.7019	0.0836	0.298	0.9788	0.1984	0.3848	0.1402	-0.4678	-0.5626	0.433	#N/A
Pik3ca	0.1504	0.083	0.1139	0.0891	0.3115	0.1606	0.1402	0.137	0.1266	0.0258	#N/A
Ube2l3	-0.0477	0.0328	0.0304	0.1064	0.1191	0.1552	0.1353	0.0057	-0.0444	-0.0291	#N/A
Psmd5	-0.0754	0.015	0.0172	-0.04	-0.3297	0.0586	0.1304	0.1929	0.1478	0.2763	#N/A
Sar1b	-0.1344	0.0057	-0.0239	0.1522	-0.0383	0.0142	0.128	0.055	-0.0142	-0.0201	#N/A
Ctsf	0.062	-0.1394	-0.0689	-0.0765	-0.1937	0.1139	0.1277	0.0016	-0.0814	-0.0756	#N/A
Klc4	-0.1206	-0.4238	-0.4257	-0.2358	0.3464	0.2008	0.1267	-0.132	0.0545	0.2053	#N/A

Ube2j2	-0.3016	-0.3113	-0.551	0.2304	0.1216	0.1472	0.1229	0.2094	0.1687	0.1046	#N/A
Uba6	0.0599	-0.0905	-0.1558	-0.1304	-0.7465	-0.0015	0.1228	0.1594	0.1842	0.1882	#N/A
Cdc27	0.0229	0.1652	0.253	0.2223	-0.3104	0.1072	0.1226	0.0887	0.0669	0.0907	#N/A
Atg7	-0.0449	-0.1162	-0.0241	-0.018	0.1319	0.1675	0.1163	0.1132	-0.047	-0.2099	#N/A
Uba2	-0.0297	-0.0345	0.0404	0.0333	-0.1654	0.0561	0.113	0.1655	0.0293	0.1192	#N/A
Psmd6	-0.0138	0.0683	0.137	0.258	0.0386	0.0824	0.1114	0.1343	0.1451	0.1502	#N/A
Smurf2	-0.2218	0.0375	0.0789	0.0528	-0.5034	0.1214	0.1047	0.1039	0.1659	0.1592	#N/A
Kif5b	0.2369	0.2542	0.2823	0.4086	0.6033	0.1606	0.1039	0.17	0.1952	0.0859	#N/A
Psmc3	0.0824	0.1007	0.1655	0.1264	0.267	0.1344	0.1015	0.1382	0.1136	0.1699	#N/A
Rictor	0.0652	0.0871	0.132	0.0036	-0.7102	-0.0015	0.1014	0.0712	-0.0123	-0.0581	#N/A
Prkg1	0.0554	0.1465	-0.1111	-0.2633	-0.3222	-0.1036	0.0973	0.1148	0.0779	0.1134	#N/A
Psmb6	0.059	0.0056	0.032	0.195	0.928	0.1073	0.0971	0.0891	0.1067	0.0966	#N/A
Pvr	0.3054	0.7595	0.9973	1.1678	0.7437	0.2526	0.097	0.0065	0.0873	-0.0181	Pvr
Spsb4	0.4354	0.0625	0.4797	0.1075	0.9424	0.1686	0.0947	0.4297	0.3261	-0.205	#N/A
Rnf6	0.112	0.158	0.2109	0.1309	-0.2475	0.0621	0.094	0.1968	0.1437	0.2554	#N/A
Ube2u	0.1555	0.55	-0.1867	0.1347	0.5414	0.7677	0.0924	0.6024	0.8174	0.8372	#N/A
Uba52	0.0634	-0.0022	0.0663	0.1718	0.8394	0.2313	0.092	0.0729	0.0519	-0.0345	#N/A
Psmd9	0.2692	0.2192	0.2076	0.3044	0.4865	0.2949	0.0881	0.1224	0.1731	0.1504	#N/A
Huwe1	-0.0183	0.0714	-0.029	-0.1102	-0.5159	-0.0349	0.0838	0.1551	0.1009	0.17	#N/A
Ap1m1	-0.2083	-0.2658	-0.3073	-0.1475	-0.5618	-0.0263	0.0828	-0.1189	-0.1703	-0.2297	#N/A
Rac1	-0.0338	0.0959	0.0351	0.0131	0.169	0.1731	0.081	-0.0058	-0.0266	-0.0069	#N/A
Arf1	-0.0031	0.0249	-0.0116	0.0297	-0.1103	0.0541	0.0772	0.0825	0.0009	0.0886	#N/A
Klhl20	-0.3655	-0.0324	-0.1032	-0.1711	-0.7384	-0.0249	0.0717	-0.0291	-0.0382	0.0118	#N/A
Psmd10	0.1517	-0.0162	-0.0584	0.0029	-0.0845	0.0006	0.0703	0.115	0.2387	0.1624	#N/A
Tpp2	-0.0141	0.0891	0.0361	0.0117	-0.152	0.0576	0.0696	0.0762	0.0122	0.1013	#N/A
Psmf1	0.007	0.0831	0.0865	0.1225	-0.071	0.0136	0.0695	-0.0064	-0.034	0.1127	#N/A
Psmd2	0.0117	-0.0671	-0.0574	0.144	0.0324	0.0708	0.0673	0.0163	-0.0205	0.0698	#N/A
Uba1	0.0189	-0.0061	-0.0108	-0.0349	-0.035	0.0523	0.0672	0.0346	0.0302	0.1083	#N/A
Sec24c	-0.0008	-0.081	0.0385	0.0959	-0.1477	-0.0703	0.0665	0.0092	-0.1123	-0.098	#N/A
Rnf138	-0.1351	-0.1236	0.1996	0.1068	-0.2526	-0.1965	0.0647	-0.1565	-0.1228	-0.2868	#N/A
Anapc4	-0.0755	0.051	0.0475	0.1018	0.0037	0.0768	0.0643	0.163	0.1676	0.1753	#N/A
Cul1	-0.0264	0.095	0.0512	0.0187	-0.5105	0.0813	0.0639	0.1907	0.1569	0.1165	#N/A
Psma3	0.135	0.1543	0.2016	0.2613	0.6299	0.1184	0.0622	0.1164	0.1011	-0.0251	#N/A
Ubr1	-0.1852	-0.0196	-0.1192	-0.0854	-0.6138	-0.0831	0.062	0.1023	0.0706	0.054	#N/A
Nfkbib	0.1749	0.1186	0.0213	0.2068	0.4085	0.1918	0.06	-0.0344	0.076	0.1707	#N/A

Itgav	-0.0355	0.0963	-0.0299	-0.072	-0.0127	0.1329	0.0576	0.0001	-0.1683	-0.1209	#N/A
Raf1	-0.0668	-0.0584	-0.0684	-0.0219	-0.3105	0.059	0.0572	-0.0798	0.0265	0.0834	#N/A
Foxo1	-0.0881	0.0267	-0.0975	-0.2052	-0.2147	0.0012	0.0562	-0.0998	0.0097	-0.0933	#N/A
Asb3	-0.0153	-0.0325	-0.1526	-0.1666	-0.4564	-0.0072	0.0548	0.1427	0.0942	-0.1024	#N/A
Pik3r1	0.2878	0.0934	0.1236	-0.0455	-0.1833	0.0582	0.0532	-0.0524	-0.0908	-0.0086	#N/A
Anapc10	-0.1972	-0.0191	-0.1167	0.0465	-0.0212	0.1198	0.0528	0.3191	0.2421	0.1131	#N/A
Psmd13	0.0275	0.0762	-0.1483	0.0459	0.306	0.0663	0.0496	-0.0051	0.0434	0.2261	#N/A
Ube4a	-0.1182	-0.0878	-0.0248	0.0212	-0.3109	-0.0027	0.0459	0.0593	0.0252	-0.0639	#N/A
Mtor	-0.065	-0.0176	-0.0668	-0.1465	-0.4696	-0.0702	0.0457	0.0686	-0.0199	0.0394	#N/A
Fbxo4	-0.3018	-0.1526	0.0472	0.3009	0.2117	0.1706	0.0452	-0.2676	-0.0505	-0.0968	#N/A
Ppp2r5a	-0.0298	0.2006	0.0693	-0.0428	-0.4164	-0.0374	0.0446	0.2074	0.1371	0.1108	#N/A
Hspa5	0.329	0.2614	0.1222	0.2767	0.1907	0.1906	0.0393	0.2479	0.0244	-0.1611	#N/A
Kif26a	-0.0112	-0.2482	0.1543	0.1723	0.6304	0.2938	0.038	-0.3749	-0.0712	-0.3987	#N/A
Socs1	-0.2105	-1.3025	-1.3351	0.7175	1.4283	0.0432	0.0374	-0.7251	0.143	0.1343	#N/A
Dync1i2	0.1491	0.2504	0.1686	0.0384	0.4778	0.1887	0.0351	0.0574	0.0371	-0.0158	#N/A
Cul3	0.0198	0.2099	0.111	0.1192	-0.4917	0.0779	0.0335	0.1419	0.1012	0.0437	#N/A
Sec31a	-0.0826	-0.127	-0.1113	0.0647	-0.4014	0.032	0.0307	0.028	-0.1261	-0.0426	#N/A
Psma2	0.0285	-0.0198	0.072	0.2756	0.4841	0.0698	0.0259	0.1503	0.1546	0.17	#N/A
Fbxw8	-0.043	-0.0748	-0.0812	0.1613	0.2203	0.0793	0.0255	-0.007	-0.1033	-0.1925	#N/A
Psmd12	0.052	0.0667	0.1615	0.2542	0.2214	0.1573	0.0229	0.139	0.2089	0.183	#N/A
Dctn4	-0.0275	0.1804	0.0902	0.0119	-0.3276	0.0328	0.0221	0.0004	-0.0495	-0.0385	#N/A
Dctn6	-0.071	-0.0832	-0.0682	-0.1375	-0.257	-0.0535	0.0217	0.0925	0.124	0.2762	#N/A
Fbxo3	-0.0202	-0.0809	-0.0938	0.012	-0.4574	-0.0159	0.0209	0.0441	0.0454	0.2424	#N/A
Det1	-0.4673	-0.3569	-0.4109	0.0542	-0.2626	0.1282	0.0185	-0.3357	-0.4142	-0.0191	#N/A
Mapkap1	0.0284	-0.1088	-0.1522	-0.1469	-0.204	0.0134	0.0183	-0.0059	-0.0821	-0.1291	#N/A
Cdc16	0.0615	0.0407	0.0827	0.2077	0.1816	0.0905	0.018	-0.0433	-0.0282	-0.0484	#N/A
Klhl13	-0.0774	-0.1384	-0.1852	-0.0826	-0.7589	-0.02	0.0169	0.1112	0.1466	0.146	#N/A
Fbxo2	0.0843	0.0191	-0.1201	-0.0885	0.4135	0.0922	0.0153	-0.0229	0.2809	0.3122	#N/A
Psmb7	0.2083	0.2503	0.2453	0.2345	0.7238	0.1395	0.0151	0.0971	0.0021	0.0733	#N/A
Herc2	-0.0094	0.0959	-0.0731	-0.2529	-0.861	-0.1265	0.0138	0.037	-0.0445	0.0123	#N/A
Uba3	0.0355	0.0929	0.0163	0.0118	-0.3366	0.0752	0.0134	0.1589	0.1469	0.2002	#N/A
Ap1g1	-0.0587	0.0457	-0.0239	0.0196	-0.6317	-0.0973	0.0116	-0.0306	-0.0673	-0.0261	#N/A
Cul5	-0.161	-0.0082	0.0087	0.0038	-0.3064	-0.063	0.0098	0.1066	0.0775	0.1243	#N/A
Map3k7	-0.0993	0.0775	0.028	0.0887	-0.3758	-0.0147	0.0091	-0.1434	-0.1484	-0.1186	#N/A
Ikbkg	-0.117	-0.0416	-0.0377	0.0117	-0.3504	0.0097	0.0055	0.0376	0.0078	0.146	#N/A

Foxo3	0.0619	-0.0357	-0.1408	-0.2152	-1.711	-0.2145	0.001	-0.1376	-0.2783	-0.0928	#N/A
Psmd14	0.0853	0.1283	0.0012	0.222	0.3312	0.0343	0.0003	0.1345	0.0342	0.084	#N/A
Plcg1	-0.0531	-0.0921	-0.2229	-0.2841	-0.6613	-0.0766	1.443E-05	-0.075	-0.1864	-0.2043	#N/A
Raet1e	0	0	0	3.0404	0	0	0	0	0	3.3911	#N/A
Cd207	0	0	2.2102	0	0	0	0	0	0	0	#N/A
Kif2b	0	2.9576	0	3.1507	0	0	0	0	0	0	#N/A
Asb17	0	0	0	0	0	0	0	0	0	0	#N/A
Vprbp	0.0618	-0.0549	-0.0987	-0.0294	-0.3315	-0.1266	-0.0025	0.0605	0.1495	0.1477	#N/A
Psma5	-0.1269	-0.3265	-0.3275	0.0804	0.1857	-0.0385	-0.0043	0.0006	0.0483	0.1024	#N/A
Psmc6	0.0674	0.1381	0.161	0.2537	0.0282	0.0398	-0.0082	0.1764	0.1321	0.0117	#N/A
Klhl9	-0.2012	-0.0498	-0.1527	-0.0979	-0.572	-0.0922	-0.012	-0.0192	0.0115	-0.0834	#N/A
Psmc5	0.2136	0.2341	0.2648	0.1216	0.079	-0.0608	-0.0124	0.027	0.0839	0.1534	#N/A
Sec24b	-0.0351	-0.0202	-0.0454	0.0118	-0.2967	0.0182	-0.0136	-0.0534	-0.136	-0.2533	#N/A
Dctn1	0.0123	-0.1099	-0.1282	-0.1272	-0.1488	-0.0969	-0.0139	0.0315	-0.0191	0.0589	#N/A
Akt1	-0.0447	-0.1288	-0.0463	-0.0348	-0.2168	-0.0397	-0.0146	-0.053	-0.1506	-0.0786	#N/A
Ube2e1	0.1519	0.1397	0.1185	0.0339	-0.4119	0.0176	-0.0149	0.1728	0.1179	0.0762	#N/A
Psmd1	0.0266	0.1072	0.0247	0.1783	0.7024	0.1166	-0.0217	0.0331	-0.0008	0.0888	#N/A
Hectd3	-0.0009	-0.15	-0.1941	-0.1217	0.0329	0.0341	-0.0221	0.0546	0.036	0.0913	#N/A
Enah	0.1404	0.2504	0.1959	-0.0271	-0.3824	-0.0752	-0.029	-0.0194	0.0236	0.0897	#N/A
Ube2d3	-0.0058	0.1146	0.0208	0.1404	-0.1562	-0.0323	-0.0313	0.0864	0.0787	0.155	#N/A
Ap1b1	0.0487	-0.0086	0.0462	-0.0286	-0.2656	-0.1349	-0.0338	-0.0527	-0.085	0.0071	#N/A
Fyn	-0.0505	0.0499	-0.044	-0.0358	-0.1627	0.1586	-0.035	-0.0985	-0.2164	-0.208	#N/A
Pik3cb	-0.1451	0.0113	-0.1431	-0.0396	-0.5349	-0.1518	-0.035	-0.1407	-0.086	-0.0318	#N/A
Blmh	-0.0277	0.0348	-0.0407	-0.0186	0.0981	-0.0573	-0.0357	0.006	0.0312	0.119	#N/A
Psmb4	-0.0414	-0.066	-0.1401	0.1108	0.5538	-0.0098	-0.0409	0.0862	0.1337	0.3152	#N/A
Fbxo6	-0.2886	-0.2441	0.0653	0.048	0.1245	-0.0594	-0.0415	-0.2172	0.0584	-0.239	#N/A
Rbck1	-0.2084	-0.3815	-0.2673	-0.2765	-0.2847	-0.0461	-0.0417	-0.2084	-0.1782	-0.1432	#N/A
Bad	0.0295	-0.2879	-0.1752	0.0075	0.548	-0.1158	-0.0424	-0.1872	0.0602	-0.0456	#N/A
Ube2z	0.0112	-0.0605	-0.0462	0.0662	0.015	-0.1669	-0.0437	-0.1024	-0.1488	-0.0177	#N/A
Arih2	0.1156	0.258	0.2359	0.2353	-0.2399	0.0788	-0.0439	-0.033	-0.0409	0.1016	#N/A
Kir3dl2	0.7174	0.9441	-0.8059	0.6112	1.2618	0.6543	-0.047	1.0734	1.3365	1.6618	#N/A
Chuk	-0.1367	0.2676	0.2442	0.2323	-0.3123	-0.0199	-0.0471	-0.0782	-0.0523	-0.1714	#N/A
Cd3d	0.3111	0.2187	0.2934	-0.2194	0.4783	-0.7863	-0.0476	-0.3926	-0.1425	0.1505	#N/A
Lrsam1	-0.0913	-0.2344	-0.2507	-0.1021	-0.0475	-0.1032	-0.048	-0.1158	-0.0656	-0.1621	#N/A
Park2	-0.0597	-0.0393	0.0182	-0.1915	-0.4041	-0.285	-0.0499	-0.2585	-0.0535	-0.2437	#N/A

Pja1	0.0696	-0.0267	0.0241	-0.1195	-0.5126	-0.1696	-0.0503	0.0701	0.0829	0.2108	#N/A
Anapc5	0.0153	0.0753	-0.0656	-0.1939	-0.0544	0.0209	-0.0511	0.0358	-0.0746	0.0536	#N/A
Ube2r2	0.0652	0.1286	0.1016	0.0582	0.6444	0.0413	-0.0515	-0.0354	-0.028	0.1066	#N/A
Psmc1	0.1196	0.1635	0.1181	0.1628	0.6296	0.0134	-0.0554	0.0848	0.0409	0.1024	#N/A
Sec23a	-0.129	0.015	-0.0376	-0.1487	-0.9349	-0.1743	-0.0591	-0.0212	-0.0448	-0.0263	#N/A
Rnf34	0.0742	0.1061	0.1406	-0.0846	-0.2948	-0.0778	-0.061	0.046	0.1231	0.1765	#N/A
Psma7	0.0336	-0.0451	-0.0106	0.0813	1.1516	0.0399	-0.0624	0.052	0.0744	0.0484	#N/A
Psmd11	0.0016	-0.0469	-0.0127	0.2396	0.801	-0.0695	-0.0624	-0.0613	-0.1404	-0.1187	#N/A
Dync1li2	0.0137	0.0733	0.056	0.0138	-0.4794	-0.1694	-0.063	-0.0349	-0.0172	0.0964	#N/A
Creb1	-0.1335	-0.1209	-0.1018	-0.0676	-0.0744	-0.0454	-0.0634	0.0176	0.0165	0.0741	#N/A
Wsb1	-0.2134	0.0198	-0.0146	0.0292	-0.3441	0.1553	-0.0669	0.0082	-0.0153	-0.0618	#N/A
Dynll2	0.126	0.0582	-0.0089	-0.0588	-0.2753	-0.1764	-0.0678	-0.1515	0.0819	0.1392	#N/A
Fbxw11	-0.0395	0.0987	0.072	0.0745	-0.4819	-0.1054	-0.0698	-0.0682	-0.0575	0.0398	#N/A
Ube2d1	-0.002	-0.0166	0.0248	-0.0594	-0.1743	0.033	-0.0726	0.0002	-0.0143	-0.0804	#N/A
Rnf123	-0.0824	-0.2081	-0.2239	-0.2597	-0.5074	-0.1971	-0.0761	-0.0007	-0.1998	0.0344	#N/A
Kras	0.0462	0.1109	0.0463	0.121	-0.1894	-0.0705	-0.0763	0.0094	-0.0248	0.0739	#N/A
Keap1	-0.0332	-0.159	-0.1066	-0.0346	0.4067	0.0128	-0.0775	-0.1382	-0.0391	-0.0624	#N/A
Dctn5	-0.0471	-0.0325	-0.1255	-0.0274	-0.1235	-0.0265	-0.0815	-0.0891	-0.2261	-0.1626	#N/A
Ube2v2	0.1656	0.0986	0.1136	-0.0049	-0.4946	-0.195	-0.0826	0.0908	0.1534	0.0121	#N/A
Trim11	-0.0819	-0.0452	-0.0277	-0.211	0.2652	-0.0427	-0.0852	-0.1125	-0.1513	0.015	#N/A
Uba5	0.0533	0.1373	0.1948	0.2409	0.2683	-0.0386	-0.0854	0.0086	0.0203	-0.0178	#N/A
Psmc4	0.077	0.031	0.0514	0.1759	0.5456	0.0636	-0.0887	0.0055	-0.0126	0.0818	#N/A
Cdc42	0.0165	0.0605	-0.0303	-0.0367	0.0552	-0.093	-0.0921	-0.0046	-0.0672	0.0797	#N/A
Psmb3	0.0983	-0.0691	-0.0797	0.2503	1.0023	0.0583	-0.0923	-0.1316	-0.0083	-0.0239	#N/A
Ube3c	-0.0215	0.129	0.0704	0.0305	-0.5811	-0.0881	-0.0927	0.0012	-0.0607	-0.0332	#N/A
Calr	0.1147	-0.0476	-0.3208	-0.127	0.4465	0.1858	-0.0948	-0.0692	-0.161	-0.05	#N/A
Ppp2ca	0.0028	0.1012	0.0332	-0.1332	-0.3209	-0.1349	-0.0966	-0.0092	-0.037	-0.0101	#N/A
Psmb2	-0.049	-0.2104	-0.1684	0.1747	0.5407	-0.0081	-0.0988	-0.1109	-0.1791	-0.0876	#N/A
Tsc2	-0.1016	-0.1027	-0.1237	-0.177	-0.2205	-0.1759	-0.1003	-0.1733	-0.2762	-0.2549	#N/A
Lrrc41	-0.0679	-0.0667	-0.0724	0.1246	-0.4663	-0.2002	-0.1006	-0.2689	-0.0598	-0.0849	#N/A
Ap2a1	-0.0621	-0.2171	-0.2715	-0.2063	-0.4939	-0.1805	-0.1013	-0.1213	-0.1939	-0.2298	#N/A
Akt2	-0.0848	-0.0641	-0.2288	-0.1609	0.131	-0.1044	-0.1015	-0.197	-0.2316	-0.1028	#N/A
Rnf4	-0.0484	0.1057	0.1421	0.224	-0.3902	-0.2585	-0.1015	-0.1645	-0.1442	0.0352	#N/A
Ube2h	0.0563	0.1109	0.1717	0.0529	-0.2009	-0.0829	-0.104	-0.0704	-0.0613	0.039	#N/A
Psmb1	0.0832	-0.0412	0.062	0.1062	0.8215	0.0766	-0.1048	0.0796	0.1013	0.1821	#N/A

Gene											
Sae1	0.0237	0.0109	-0.0253	-0.078	0.3027	-0.0709	-0.1048	-0.0403	-0.0924	0.0557	#N/A
Actr1a	0.0142	-0.0171	0.0081	-0.0678	-0.3296	-0.127	-0.107	-0.0541	-0.1463	2.885E-05	#N/A
Rnf25	0.0034	0.1254	0.0385	-0.0588	0.0878	0.0598	-0.1077	0.0203	-0.0131	-0.0041	#N/A
Kif3b	-0.0373	0.004	-0.0884	-0.1621	-0.6459	-0.1486	-0.1098	-0.0339	-0.154	0.1265	#N/A
Ube2s	0.1178	0.0872	0.1312	0.1691	0.7316	-0.0427	-0.11	-0.0982	-0.0274	-0.1509	#N/A
Casp9	-0.0077	-0.0165	-0.0406	-0.1684	-0.0434	-0.2426	-0.1139	-0.2262	-0.1792	-0.1329	#N/A
Pja2	-0.0661	0.0105	-0.113	-0.3268	-0.9012	-0.2757	-0.115	0.0451	-0.0157	0.0471	#N/A
Evl	-0.0738	-0.0164	-0.0298	-0.2066	-0.2353	-0.2183	-0.1192	-0.217	-0.2707	-0.2461	#N/A
Dzip3	0.0103	-0.0009	-0.1541	-0.0875	-0.2057	-0.1898	-0.1194	0.0958	0.1343	0.1641	#N/A
Ube2n	0.0071	0.0771	-0.0056	-0.0916	-0.2677	-0.1667	-0.1201	-0.0476	-0.0426	-0.0365	#N/A
Asb13	-0.037	0.0383	-0.0189	-0.1649	-0.3035	-0.2383	-0.1233	-0.1662	-0.1767	-0.1182	#N/A
Mkrn1	0.0509	0.1032	0.0776	-0.0854	-0.2999	-0.1667	-0.1274	-0.062	-0.1386	0.0296	#N/A
Ppp2r5b	-0.0051	0.0598	-0.0364	-0.161	-0.1131	-0.2205	-0.1289	-0.1682	-0.1746	-0.0631	#N/A
Ube2q2	-0.0131	0.05	0.0451	-0.0857	-0.5833	-0.1663	-0.1307	0.0494	0.1061	0.1381	#N/A
Anapc11	0.0608	-0.0931	-0.1206	0.0071	0.6594	-0.0256	-0.1358	-0.0394	-0.0309	-0.0985	#N/A
Rnf41	0.0173	-0.0148	-0.075	-0.1262	-0.2111	-0.1505	-0.1371	-0.1202	-0.0948	-0.0754	#N/A
Asb8	0.0065	-0.1906	-0.1353	-0.1422	0.2384	-0.137	-0.1383	-0.1511	-0.1087	0.0576	#N/A
Pten	-0.0167	0.0925	-0.0181	-0.0705	-0.5328	-0.1853	-0.1407	-0.1289	-0.1817	-0.1522	#N/A
Psma4	-0.1027	-0.1375	-0.1628	0.0018	0.8354	-0.0148	-0.1443	0.009	0.0564	0.0799	#N/A
Kif2a	-0.0219	-0.0022	-0.0926	-0.0458	-0.1641	-0.1333	-0.145	-0.0741	-0.082	-0.1587	#N/A
Sh3gl2	0.0991	0.2009	0.2899	0.0403	-0.5559	-0.2359	-0.1465	-0.1784	-0.1667	-0.2103	#N/A
Them4	0.0314	-0.2063	-0.2688	-0.0326	0.0959	-0.1449	-0.149	-0.0188	0.0025	-0.0104	#N/A
Cul2	-0.0296	-0.1122	-0.1155	-0.0679	-0.4655	-0.1233	-0.1537	-0.0577	-0.0502	-0.1956	#N/A
Psmd7	0.0065	-0.0325	-0.0708	0.1263	0.4344	-0.0039	-0.1549	-0.0481	0.0047	0.1064	#N/A
Ube2j1	-0.0912	0.0731	0.0803	-0.0821	-0.6261	-0.1858	-0.1551	-0.0689	-0.166	-0.0744	#N/A
Asb7	-0.147	-0.1335	-0.0055	0.047	-0.2357	-0.0846	-0.1568	-0.1977	-0.2821	-0.0774	#N/A
Sec61g	0.1283	0.1562	0.2035	0.3675	1.3783	0.2382	-0.1621	0.0768	0.0286	0.2434	#N/A
Stim1	-0.0599	-0.1206	-0.1213	-0.2789	-0.466	-0.1932	-0.165	-0.144	-0.1905	-0.0526	#N/A
Ppp2r5e	-0.1038	-0.023	-0.1258	-0.1202	-0.5457	-0.2016	-0.1666	-0.0684	-0.1011	-0.0814	#N/A
Ube2w	0.0575	0.0245	-0.0383	-0.0684	-0.4092	-0.1023	-0.1689	0.1637	0.0322	0.1039	#N/A
Cdc34	-0.0998	-0.2107	-0.0632	0.1256	0.4897	-0.1507	-0.169	-0.1857	-0.0976	-0.0208	#N/A
Btrc	0.0073	-0.0528	-0.1193	-0.2321	-0.62	-0.2936	-0.1694	-0.0245	-0.1157	0.0182	#N/A
Klc1	-0.003	-0.0446	-0.1109	-0.1239	-0.4974	-0.2012	-0.1765	-0.02	-0.0448	0.2293	#N/A
Ap2m1	0.0499	0.107	0.1199	-0.0338	-0.1723	-0.2224	-0.1784	-0.1013	-0.1552	-0.0061	#N/A
Ube2q1	0.0002	-0.0424	-0.023	-0.1385	-0.1452	-0.1229	-0.1839	-0.1191	-0.0991	-0.1629	#N/A

Ap2s1	0.0459	0.2181	0.0375	-0.1096	0.7598	-0.0653	-0.1895	-0.1623	-0.1805	-0.2699	#N/A
Dctn2	0.0367	0.0143	0.001	-0.053	0.1894	-0.0943	-0.1901	-0.0229	-0.1058	-0.0577	#N/A
Ube2g2	0.18	0.2996	0.4083	0.2111	-0.0369	-0.1942	-0.192	-0.1546	-0.1538	0.0852	#N/A
Tceb1	0.0499	0.15	0.0878	-0.0826	-0.1952	-0.1544	-0.1926	0.0026	-0.0367	0.0615	#N/A
Pdpk1	-0.0499	0.0584	-0.0323	-0.2407	-0.9029	-0.3415	-0.1938	-0.1298	-0.1981	-0.2198	#N/A
Psmd8	0.0635	0.0081	0.0072	-0.0961	0.2599	-0.0851	-0.196	-0.2053	-0.2213	-0.3167	#N/A
Vhl	0.0556	0.1177	0.0184	-0.0783	-0.0582	-0.1452	-0.1987	-0.1346	-0.2904	0.062	#N/A
Ube2k	0.0152	-0.0019	-0.0632	-0.0639	-0.1711	-0.1697	-0.2053	-0.0569	-0.0969	-0.026	#N/A
Smurf1	-0.0152	0.0039	-0.0687	-0.1078	-0.6162	-0.2374	-0.2071	-0.2033	-0.2679	-0.3417	#N/A
Osbpl1a	-0.0929	-0.0564	-0.1367	-0.3714	-0.6573	-0.3697	-0.219	-0.0589	-0.1808	0.0846	#N/A
Psmd3	-0.1288	-0.1886	-0.3314	0.108	0.1152	-0.1694	-0.2233	-0.2143	-0.1795	-0.1699	#N/A
Mlst8	-0.0736	0.051	-0.0431	-0.217	-0.4431	-0.3355	-0.2288	-0.1956	-0.3058	-0.1964	#N/A
Ap2b1	-0.0353	0.001	-0.1683	-0.3204	-0.7349	-0.4006	-0.2327	-0.2058	-0.3001	-0.2629	#N/A
Ppp2r5c	-0.0854	0.0686	-0.0296	-0.1847	-0.4516	-0.2921	-0.2378	-0.1411	-0.2178	-0.1658	#N/A
Prkacb	-0.171	-0.1216	-0.2658	-0.3382	-1.2216	-0.299	-0.2385	-0.0788	-0.1553	-0.0222	#N/A
Ube2o	-0.0667	-0.1585	-0.2223	-0.2658	-0.3327	-0.3233	-0.2392	-0.1821	-0.2093	-0.1872	#N/A
Nr4a1	1.0704	0.2239	-0.0814	-0.4506	-0.7038	-0.3898	-0.2403	-0.1203	0.4267	0.9167	Nr4a1
Calm2	-0.0231	0.0145	-0.1395	-0.4467	-0.375	-0.1833	-0.2411	0.0624	-0.0193	0.1003	#N/A
Pik3r2	-0.1418	-0.1413	-0.2466	-0.2488	-0.3392	-0.2419	-0.2446	-0.1374	-0.2608	-0.1065	#N/A
Trim32	-0.1648	-0.1496	-0.2076	-0.374	-0.7865	-0.2872	-0.2515	-0.1021	-0.13	-0.0673	#N/A
Stub1	-0.0135	-0.1894	-0.2109	-0.1438	0.0335	-0.1469	-0.2595	-0.1587	-0.0965	0.076	#N/A
Dnm1	-0.0598	-0.114	-0.1535	-0.3991	-0.7595	-0.2902	-0.2606	-0.1594	-0.2487	-0.0631	#N/A
Asb16	-0.5856	0.1383	-0.133	-0.5297	-0.5955	-0.1473	-0.2607	0.7965	0.9555	0.325	#N/A
Ppp2r5d	-0.0466	0.0086	0.1197	-0.0684	-0.1471	-0.2798	-0.2637	-0.2815	-0.2751	-0.2769	#N/A
Dctn3	0.0855	-0.0562	0.0296	-0.0075	0.2358	-0.218	-0.2643	-0.1162	-0.2124	-0.1555	#N/A
Zap70	-0.0196	0.2095	-0.4348	-0.7114	0.2475	-0.6123	-0.2656	-0.2438	-0.0188	-0.0426	#N/A
Ube2b	0.0038	0.0055	-0.0609	-0.1824	-0.3555	-0.3232	-0.267	-0.1614	-0.0635	-0.0193	#N/A
Kifap3	0.0081	-0.0014	-0.1216	-0.334	-0.0579	-0.2792	-0.268	-0.125	-0.1945	-0.1486	#N/A
Rnf220	-0.1646	-0.2336	-0.2778	-0.2463	-0.4394	-0.2763	-0.2692	-0.2216	-0.1984	-0.1527	#N/A
Ube2g1	-0.1338	-0.0421	-0.0594	-0.0556	-0.5825	-0.2366	-0.2769	-0.1629	-0.1902	-0.2374	#N/A
Ube2a	-0.0457	-0.1365	-0.2065	-0.22	-0.3808	-0.2532	-0.2778	-0.1892	-0.2588	-0.1866	#N/A
Tceb2	0.0967	-0.0019	0.0834	0.0952	1.0314	0.0263	-0.2821	-0.0578	-0.035	-0.023	#N/A
Dync1i1	0.0267	0.0073	-0.026	-0.1886	-0.2431	-0.3357	-0.284	-0.1424	-0.1244	-0.0204	#N/A
Ppp2cb	-0.0532	0.0524	-0.0231	-0.0878	-0.263	-0.1911	-0.2912	-0.1421	-0.1146	-0.1555	#N/A
Pak1	-0.0266	0.0379	-0.095	-0.3288	-0.6091	-0.3648	-0.293	-0.134	-0.253	-0.1024	#N/A

Rapgef4	0.0988	0.3057	0.3007	0.0802	-0.9114	-0.4037	-0.2938	-0.0333	-0.3485	0.0733	#N/A
Psmb5	-0.072	-0.2791	-0.3245	-0.0404	0.2718	-0.2405	-0.3009	-0.1312	-0.2864	-0.1295	#N/A
Ube2e3	-0.0985	0.0034	-0.0362	-0.0893	-0.2716	-0.2141	-0.3024	-0.2224	-0.124	-0.2996	#N/A
Ube3b	-0.131	-0.0901	-0.1116	-0.1226	-0.6643	-0.3724	-0.3057	-0.3112	-0.4854	-0.2566	#N/A
Crtam	0.3595	0.7744	-0.1645	2.4895	0.9082	-0.2678	-0.3141	-1.5966	0.5176	-0.267	#N/A
Ppp2r1a	0.0095	-0.0955	-0.1653	-0.1959	-0.1258	-0.3294	-0.3143	-0.1904	-0.2024	0.366	#N/A
Prkaca	-0.0372	-0.1909	-0.2318	-0.2076	-0.4747	-0.3737	-0.3162	-0.2343	-0.2668	-0.2459	#N/A
Cxadr	0.1399	0.5654	0.5832	0.0521	-0.4679	-0.3264	-0.3185	-0.4464	-0.2412	-0.2616	#N/A
Asb1	-0.1479	-0.1705	-0.1402	-0.2366	-0.6766	-0.4615	-0.3216	-0.1823	-0.2338	-0.1932	#N/A
Ap2a2	-0.0823	-0.1298	-0.1526	-0.2047	-0.3131	-0.3298	-0.3254	-0.2999	-0.3209	-0.286	#N/A
Grb2	0.0168	-0.0152	-0.0421	-0.1772	-0.1066	-0.3826	-0.3284	-0.3767	-0.3794	-0.3095	#N/A
Npepps	-0.0263	-0.0272	-0.1644	-0.1605	0.0985	-0.297	-0.3332	-0.2994	-0.3083	-0.3847	#N/A
Trim37	-0.0992	0.0684	-0.1197	-0.4094	-1.0778	-0.4781	-0.3353	-0.1624	-0.2888	-0.2177	#N/A
Rbx1	-0.117	-0.2344	-0.2445	-0.0732	0.0136	-0.3288	-0.3398	-0.221	-0.2291	-0.2529	#N/A
Akt3	-0.2181	-0.0165	-0.2217	-0.4044	-1.0856	-0.5043	-0.3503	-0.1723	-0.2924	-0.292	#N/A
Akt1s1	-0.2696	-0.4461	-0.5251	-0.1394	0.0612	-0.1911	-0.3528	-0.3858	-0.2403	-0.0202	#N/A
Cdkn1a	1.1811	1.7311	1.641	2.1773	1.5199	0.3539	-0.3531	-0.5891	-0.5845	-0.5515	Cdkn1a
Rnf182	0.0484	0.1319	0.1811	-0.1534	0.263	-0.1704	-0.3537	-0.3241	-0.1788	-0.1894	#N/A
Rap1gap	-0.0664	-0.11	-0.0828	-0.3584	-0.715	-0.3376	-0.3547	-0.3833	-0.3812	-0.3607	#N/A
Zbtb16	0.719	0.8032	0.3527	0.4714	-0.0431	-0.3574	-0.3704	-0.1961	-0.2133	-0.1365	Zbtb16
Cd4	-0.8405	-1.0117	-1.5877	-2.9474	-2.3622	-0.6532	-0.3728	-0.9612	-0.6964	-1.0381	Cd4
Kif5a	0.046	0.1923	0.1622	0.1006	-0.6674	-0.523	-0.3739	-0.1362	-0.2835	0.0444	#N/A
Ywhab	-0.0546	-0.0296	-0.092	-0.175	-0.1669	-0.339	-0.376	-0.2488	-0.2923	-0.2652	#N/A
Calm3	-0.0326	-0.0692	-0.1542	-0.4157	-0.1913	-0.4526	-0.3792	-0.2299	-0.2442	-0.0611	#N/A
Ywhaz	-0.1104	-0.1263	-0.3351	-0.3412	-0.4476	-0.4518	-0.3847	-0.2855	-0.3501	-0.141	#N/A
Ube2m	0.0247	-0.0853	-0.058	-0.0003	0.2632	-0.3562	-0.3867	-0.3241	-0.3235	-0.3163	#N/A
Fbxo44	0.0353	-0.0732	-0.0226	-0.1415	0.1937	-0.2657	-0.3924	-0.189	-0.2816	-0.2532	#N/A
Gsk3a	-0.1166	-0.1129	-0.1396	-0.2624	-0.4361	-0.4524	-0.394	-0.35	-0.3193	-0.2217	#N/A
Ube2e2	-0.017	-0.0716	-0.1671	-0.3551	-0.3309	-0.4569	-0.3946	-0.2303	-0.3175	-0.0678	#N/A
Klc2	-0.0813	-0.3429	-0.4008	-0.4189	-0.5316	-0.4707	-0.3974	-0.1923	-0.2195	-0.0314	#N/A
Ap1s1	-0.0012	-0.0206	-0.1997	-0.2407	0.0165	-0.3382	-0.4064	-0.255	-0.3254	0.2422	#N/A
Kif3c	-0.1193	-0.1649	-0.2378	-0.2955	-0.9738	-0.4739	-0.4069	-0.3118	-0.3803	-0.2585	#N/A
Asb6	0.0072	-0.2185	-0.1466	-0.0192	-0.1645	-0.3494	-0.4075	-0.3432	-0.3296	-0.35	#N/A
Calm1	-0.0021	0.0531	-0.0815	-0.3136	-0.3869	-0.449	-0.4155	-0.2536	-0.3661	-0.2158	#N/A
Prkcb	-0.1078	-0.0503	-0.2218	-0.5834	-0.8916	-0.6087	-0.4173	-0.3761	-0.4962	-0.3699	Prkcb

Fbxw7	0.0556	-0.1774	-0.371	-0.4329	-0.4399	-0.4483	-0.4252	-0.2701	-0.3758	-0.139	#N/A
Rasgrp1	-0.1237	0.0226	-0.0881	-0.4521	-1.0014	-0.5046	-0.4288	-0.3923	-0.5837	-0.4176	#N/A
Asb11	-0.4247	-0.1243	-0.4723	-0.5482	-0.1636	-0.3834	-0.4527	-0.1993	-0.3008	0.0229	#N/A
Src	-0.0701	-0.0588	-0.0515	-0.1433	-0.3246	-0.4111	-0.4582	-0.3902	-0.4517	-0.3101	#N/A
Ubox5	-0.265	-0.2326	-0.1824	-0.2981	-1.0064	-0.6594	-0.486	-0.4328	-0.6462	-0.6727	#N/A
Hras	-0.0208	-0.1443	-0.1782	-0.3391	-0.1097	-0.501	-0.5146	-0.3436	-0.3932	-0.4522	#N/A
Sptbn2	-0.2341	-0.2537	-0.4522	-0.6616	-1.4037	-0.7894	-0.5321	-0.3875	-0.6594	-0.4979	#N/A
Rps6kb2	-0.1276	-0.2023	-0.1667	-0.2343	0.1039	-0.3164	-0.537	-0.3637	-0.4691	-0.3788	#N/A
Sec61a2	-0.0581	-0.0852	-0.0771	-0.1755	-0.3823	-0.3883	-0.5411	-0.3214	-0.3769	-0.354	#N/A
Rasgrp2	-0.2144	-0.6542	-0.6303	-0.9415	-0.8612	-0.7173	-0.5438	-0.4496	-0.4518	-0.2853	Rasgrp2
Grap2	-0.2487	-0.1407	-0.0691	-0.1792	0.1885	-0.8888	-0.546	-0.8439	-0.8208	-0.4212	Grap2
Dynll1	0.057	-0.1584	-0.2182	-0.2214	0.1325	-0.3152	-0.5573	-0.2684	-0.3981	-0.3661	#N/A
Actr1b	-0.1621	-0.303	-0.3298	-0.3659	-0.6196	-0.6531	-0.5604	-0.4831	-0.3529	0.7137	#N/A
Rap1gap2	-0.11	-0.0989	-0.0204	-0.1602	-0.973	-0.689	-0.6316	-0.5395	-0.6888	-0.4797	#N/A
Trim9	-0.0842	-0.191	-0.3176	-0.471	-0.7984	-0.7274	-0.8155	-0.5377	-0.7798	-0.6846	#N/A
Fbxo27	-0.4546	-0.8063	-0.7392	-0.497	-1.2653	-0.9658	-0.8164	-0.5782	-0.6359	-0.5902	#N/A
Asb15	-0.8656	-1.0277	-0.9168	-0.4624	-1.0535	-4.9245	-1.3482	-1.0177	-2.4325	-0.58	#N/A
Asb9	-3.2137	-3.2137	-0.476	-3.2137	-3.2137	-3.2137	-3.2137	-3.2137	-3.2137	-3.2137	#N/A
Kir3dl1	-0.5501	-0.3793	-3.3313	-3.3313	0.5397	-3.3313	-3.3313	-3.3313	-3.3313	0.0597	#N/A

M1

variable	Log2(1h vs. pre)	Log2(3h vs. pre)	Log2(6h vs. pre)	Log2(1d vs. pre)	Log2(3d vs. pre)	Log2(1w vs. pre)	Log2(2w vs. pre)	Log2(1m vs. pre)	Log2(2m vs. pre)	Log2(6m vs. pre)	sig in ipsil
Msr1	0.7661	1.9148	2.9975	6.0052	6.8634	6.4221	5.5621	3.4625	5.0246	0.6762	Msr1
Plbd1	-0.3607	0.5347	-1.213	1.7424	4.702	2.1335	4.3592	2.236	3.4207	0.6	Plbd1
Pik3ap1	-0.189	0.9416	0.7573	1.4043	2.0066	3.2664	3.4835	1.5863	1.8758	0.434	Pik3ap1
Tgfbi	0.2683	0.704	1.6805	3.0172	4.805	3.1379	3.2901	1.7671	2.3935	1.128	Tgfbi
Cxcr4	0.4181	0.5122	1.2272	0.46	2.8053	2.8755	3.0972	1.8644	2.3442	1.0342	Cxcr4
Slc7a7	-0.1549	0.1504	0.1683	1.1786	3.1614	3.1971	3.0735	1.6722	1.3284	0.6771	Slc7a7
Aif1	0.2041	0.1244	0.0169	0.7316	3.5881	2.9864	3.0277	1.6723	1.4656	0.6108	Aif1
Cfh	-0.0337	0.4562	0.3161	0.7987	1.1953	2.1516	2.6967	1.4478	1.7261	0.6173	Cfh
Tifab	-0.3064	-1.2465	-0.9669	0.7016	2.4811	2.0614	2.4657	1.2752	0.7313	0.394	Tifab
Tor3a	-0.0896	0.0515	0.3653	0.5692	1.366	1.6781	2.1125	0.9116	1.0754	0.4934	Tor3a
Slco2b1	-0.2339	-0.0043	-0.2095	0.2753	1.5797	1.7132	1.8207	0.6664	0.4704	0.1379	Slco2b1
Fgd2	-0.3493	-0.5078	-1.0372	-0.1639	1.8714	1.8618	1.7045	0.4685	0.3929	0.0336	Fgd2
Abca9	-0.4224	-0.2567	-0.5737	-0.9713	-0.5123	0.9723	1.4733	0.6241	0.4386	-0.0516	Abca9
Txnip	1.1422	1.096	0.6951	0.6856	0.8546	1.2427	1.437	0.8309	0.8443	0.8242	Txnip
Axl	-0.0614	0.1872	0.1624	0.1856	0.5778	0.9366	1.413	0.5552	0.4506	0.0017	Axl
Ada	1.9422	2.4373	1.6388	2.3399	1.6453	2.2218	1.3011	1.2158	1.1277	1.0432	#N/A
Colec12	0.1171	0.1548	0.0841	-0.1046	0.2823	0.9882	1.1282	0.4025	0.7279	-0.0075	Colec12
Maf	-0.0073	0.0344	-0.1599	-0.1086	1.2103	1.2498	1.1046	0.4598	0.5852	0.4025	Maf
Plxdc2	0.0615	0.0712	-0.1456	-0.033	0.7363	1.2086	1.0955	0.476	0.3074	0.1659	Plxdc2
P2ry13	-0.6751	-0.9548	-0.8223	-0.6894	0.487	1.2694	1.0314	0.3388	-0.1498	-0.2098	P2ry13
Filip1l	0.9118	1.0357	0.7743	1.0065	1.5368	0.9954	0.8257	0.4351	0.977	0.483	Filip1l
Rcbtb2	-0.0386	-0.0381	-0.0858	0.0789	0.6915	0.8881	0.8109	0.346	0.3658	0.0361	Rcbtb2
Gatm	0.2214	0.2041	0.3441	0.5328	0.7599	0.7146	0.7639	0.6262	0.6593	0.8138	Gatm
Marco	0.1416	-3.3313	-3.3313	0.6417	0.9494	1.4716	0.6772	-1.1508	0.6807	2.2604	#N/A
Rapsn	0.1338	-0.2053	-0.5605	-0.4226	2.4421	1.2059	0.5753	1.6603	0.4927	-0.2822	#N/A
Rcn1	-0.0124	0.0415	-0.0839	-0.098	0.2723	0.459	0.5403	0.4426	0.5707	0.6313	#N/A
Acss1	0.044	0.1529	-0.0494	-0.006	0.2321	0.5284	0.5237	0.2988	0.3148	0.3472	#N/A
Ptger3	-0.5827	0.7139	0.0221	0.6813	0.0915	-0.0381	0.4943	0.5954	0.1762	0.6361	#N/A
Gja1	0.0724	0.2358	0.1188	-0.3094	-0.1705	0.45	0.4781	0.317	0.3441	0.2059	#N/A
Dst	0.0227	0.2093	0.061	-0.0114	-0.3731	0.2682	0.4083	0.342	0.2962	0.3063	#N/A

Kcnj10	0.2231	0.2072	0.186	0.0816	0.5185	0.452	0.4001	0.1356	0.1831	-0.0475	#N/A
Sfi1	-0.2268	-0.4755	-0.3964	-0.2758	0.0113	0.3787	0.3516	0.2005	0.1406	0.0693	#N/A
Lcorl	-0.0657	0.0979	0.0218	0.1002	-0.5935	0.4575	0.3242	0.2073	0.3229	0.2797	#N/A
Pla2g16	0.1425	0.1627	0.2451	-0.1064	0.5541	0.2159	0.3081	0.3566	0.3564	0.5379	#N/A
Srd5a3	-0.169	-0.1894	-0.1765	-0.0306	0.5123	0.1362	0.2535	-0.0568	-0.2257	0.014	#N/A
Ocel1	-0.1094	-0.1532	-0.2688	0.281	0.0841	0.3649	0.2429	-0.1671	0.0209	-0.0918	#N/A
Tm7sf3	0.0217	0.0679	0.1782	0.0541	0.2007	0.189	0.1942	0.0934	0.0849	0.1344	#N/A
Arsb	-0.24	-0.1614	-0.3653	-0.4359	-0.561	0.1694	0.1846	-0.0714	-0.1602	0.0812	#N/A
Cap1	-0.0217	0.0496	-0.0039	-0.0881	-0.3072	0.1505	0.1783	-0.0638	-0.139	0.0458	#N/A
Lama3	-0.009	0.1645	0.1269	0.0471	-0.9016	0.0272	0.1205	0.1098	0.2616	-0.1177	#N/A
Fam135a	-0.1021	0.185	0.2504	0.3588	-0.571	0.027	0.1176	0.0731	0.1747	0.2237	#N/A
Hmgn3	0.1281	-0.0195	0.0268	0.1123	0.5519	0.2226	0.101	0.2521	0.2584	0.3944	#N/A
Bckdhb	0.2211	0.2695	0.1694	-0.0204	0.3192	0.0033	0.1	0.1305	0.164	0.1516	#N/A
Haus2	0.0193	0.2736	0.3724	0.395	0.1415	0.0408	0.092	-0.0089	-0.0603	-0.0829	#N/A
Lyplal1	-0.0172	0.1064	-0.2586	0.1136	0.2023	0.1158	0.0463	0.1187	0.1263	0.2614	#N/A
Crim1	0.0035	0.1179	0.117	0.0156	-0.3295	-0.0904	0.0238	0.0328	0.1252	-0.0231	#N/A
Tubb2b	-0.0801	-0.0124	-0.1885	0.259	0.903	0.0571	0.0205	-0.0507	-0.0734	0.1315	#N/A
Glo1	0.0793	0.1242	0.1294	0.0527	0.0481	-0.0114	-0.013	0.1196	0.1551	0.1639	#N/A
Slc35a1	-0.08	-0.2259	0.0249	0.041	-0.0151	-0.06	-0.0361	-0.0834	-0.0312	-0.2034	#N/A
Comt	0.0709	0.4468	0.628	0.3094	0.531	-0.0752	-0.0642	-0.3174	-0.4621	-0.4255	Comt
Marcksl1	-0.1113	-0.1289	-0.1272	0.1507	0.5858	0.0378	-0.0774	-0.2471	-0.3487	-0.4548	#N/A
Nrcam	-0.1468	0.0307	-0.2083	-0.2222	-0.6595	-0.2838	-0.0797	-0.0656	-0.2145	-0.1817	#N/A
Acyp2	0.1573	0.0733	0.1695	0.0531	0.2652	0.0908	-0.1136	0.2136	0.3581	0.2988	#N/A
Rab10	-0.1033	-0.0467	-0.0085	0.0857	-0.1705	-0.1544	-0.1413	-0.2291	-0.2244	-0.26	#N/A
Ttc3	0.1123	0.0688	-0.0752	-0.224	0.0642	-0.1925	-0.1448	0.0975	0.0513	0.1318	#N/A
Rmnd1	-0.4489	-0.2385	-0.296	-0.4788	-1.464	-0.4482	-0.1518	-0.2576	-0.5797	-0.4284	#N/A
Rfx3	-0.2082	-0.2909	-0.3139	-0.4018	-0.9972	-0.1846	-0.1537	-0.0938	-0.2381	-0.2687	#N/A
Gnb4	-0.3497	-0.2497	-0.349	-0.6358	-0.7642	-0.3352	-0.1785	-0.1896	-0.5187	-0.2487	#N/A
Cadm1	-0.0486	-0.0066	-0.2158	-0.241	-0.2365	-0.1436	-0.1901	-0.1266	-0.1044	-0.0692	#N/A
Galnt11	-0.0856	-0.0627	-0.0428	-0.2043	-0.5857	-0.2087	-0.2212	-0.1411	-0.2244	-0.0346	#N/A
Ppp2r5c	-0.0854	0.0686	-0.0296	-0.1847	-0.4516	-0.2921	-0.2378	-0.1411	-0.2178	-0.1658	#N/A
Capn5	-0.1477	-0.1742	-0.119	-0.2329	-0.5824	-0.2145	-0.2517	-0.2002	-0.2362	-0.292	#N/A
Rasal2	-0.1524	-0.1903	-0.0949	-0.2135	-0.4758	-0.3622	-0.2811	-0.1683	-0.2712	-0.1374	#N/A
Fam124a	0.0017	-0.0888	-0.0393	0.0533	0.4068	-0.2856	-0.3028	-0.2051	-0.2888	-0.0553	#N/A
Cxcl14	0.0196	0.0028	-0.0251	-0.1707	-0.0663	-0.2773	-0.3076	-0.154	-0.1092	-0.0139	#N/A

Nat8l	0.0339	-0.0927	-0.0877	-0.2701	-0.375	-0.5599	-0.3589	-0.2999	-0.3077	-0.2832	#N/A
Gda	-0.1075	0.1052	-0.203	-0.3971	-0.7856	-0.4793	-0.3836	-0.2715	-0.3216	-0.1966	#N/A
Hddc3	-0.4949	-0.1448	-0.0106	-0.6211	-0.6684	-0.3605	-0.3901	-0.4593	-0.4246	-0.3151	#N/A
Ogfrl1	-0.0056	0.0794	0.0499	-0.1969	-0.3022	-0.281	-0.3914	-0.2789	-0.3042	-0.2584	#N/A
Alad	0.0072	0.0978	0.1358	-0.0633	-0.0113	-0.364	-0.394	-0.2647	-0.1193	-0.0999	#N/A
Atp6v0e2	-0.0481	-0.0848	-0.1841	-0.2632	-0.3127	-0.4686	-0.395	-0.239	-0.375	-0.2534	#N/A
Malat1	0.1903	0.0042	0.0249	-0.0199	0.4889	-0.166	-0.4167	-0.4271	-0.3071	-0.6091	Malat1
Eno2	-0.0502	-0.2474	-0.2228	-0.3451	-0.2985	-0.4504	-0.4813	-0.3289	-0.3616	-0.2763	#N/A
Abhd1	0.2496	1.0593	0.71	0.0175	-2.0803	-1.0324	-0.5389	-0.2395	-0.381	-0.4148	#N/A
Cnrip1	-0.178	-0.2352	-0.3754	-0.4689	-0.6105	-0.6139	-0.6177	-0.3585	-0.4868	-0.4053	#N/A

M2

Gene	Log2(1h vs.	Log2(3h vs.	Log2(6h vs.	Log2(1d vs.	Log2(3d vs.	Log2(1w vs.	Log2(2w vs.	Log2(1m	Log2(2m	Log2(6m	sig
Mefv	0	3.8969	4.0463	5.7507	7.1478	5.2012	8.0138	6.4572	6.8929	3.1171	#N/A
Lgals3	0.8257	2.6773	3.4996	5.52	8.1282	7.4613	7.5691	5.7922	7.4658	3.2286	Lgals3
C3	0.8447	0.8876	1.7096	3.8823	4.5371	4.4705	7.4944	7.0415	6.9883	4.3129	C3
Tlr1	1.9487	2.3039	3.6223	5.1507	5.8936	5.6984	6.4204	4.6636	4.8257	2.9806	Tlr1
Zbp1	-0.5331	0.6716	1.1793	2.7338	5.0991	4.8533	5.8396	2.6826	3.7232	0.4052	Zbp1
C6	-3.2137	-0.2616	-0.476	-0.1733	-3.2137	4.1699	5.7873	3.5248	4.378	1.1719	C6
Tlr8	-0.2574	1.2349	1.1538	2.0557	2.9423	4.7659	5.3657	2.9828	4.1781	1.4328	Tlr8
Cfb	0.1761	0.6469	1.2358	1.9488	4.3045	3.3789	5.1609	3.0315	3.4742	1.1049	Cfb
Ccr2	-0.3674	0.0329	1.2749	2.7114	5.8447	2.517	4.8435	2.9787	3.5483	0.7228	Ccr2
Crp	4.1779	5.9266	5.0214	4.9982	4.2808	4.7312	4.5069	2.9049	4.0193	6.0723	#N/A
Irf7	-0.9881	-0.1007	0.3028	1.6833	3.4004	3.6251	4.3957	1.0866	2.2267	0.4927	Irf7
Nlrc5	0.8492	0.9125	1.4234	2.5647	3.4347	3.4339	4.3613	2.2794	2.0624	0.4439	Nlrc5
Tlr2	0.6189	0.3678	1.3078	2.621	3.3866	3.6821	4.2345	2.5776	2.1941	0.1433	Tlr2
Casp4	0.2755	2.6087	2.2995	2.5059	3.8273	3.4255	4.056	2.6703	3.1208	0.9095	Casp4
Cd180	-0.7752	-0.4444	0.0056	1.831	4.0125	4.2502	4.0292	2.0064	1.9065	1.3796	Cd180
Ctss	0.1695	0.3303	0.4172	0.6469	2.7569	3.2102	3.8063	2.3761	2.4669	1.0223	Ctss
C8a	2.9925	3.0229	4.7905	4.0536	0	0	3.7121	4.0685	4.6282	4.2546	#N/A
Ly86	0.1167	-0.0633	0.183	1.5538	3.72	3.2955	3.6561	2.1493	1.858	1.5055	Ly86
C1qa	0.1612	0.0516	0.0721	0.9521	3.5243	3.496	3.5266	2.1347	1.7529	0.5517	C1qa
Tlr9	-0.2833	0.899	0.2556	0.2398	1.8085	2.6724	3.4608	1.7462	1.4262	0.1852	Tlr9
C1qc	0.1625	-0.1769	-0.1325	0.9669	3.3915	3.591	3.4605	1.9799	1.7534	0.3681	C1qc
C8b	3.6119	4.789	4.8097	4.6137	4.8461	5.2796	3.45	4.0685	3.5033	0	#N/A
Ticam2	-0.0645	0.1077	0.9109	1.4316	3.3854	3.3283	3.4248	1.7133	2.31	1.1721	Ticam2
C1qb	0.0471	0.08	0.2249	1.0503	3.3913	3.428	3.4071	2.0186	1.8061	0.5325	C1qb
Unc93b1	-0.1182	-0.0727	-0.2863	0.5207	2.4272	3.0223	3.3432	1.778	1.7819	0.8928	Unc93b1
Tlr4	0.7638	1.8018	1.4446	2.3045	2.5044	3.0521	3.2772	2.1437	2.5266	1.0763	Tlr4
Tlr7	0.7562	1.0712	0.6201	1.3413	2.7084	3.2237	3.2531	1.7155	1.2473	0.1425	Tlr7
Btk	-0.8065	0.088	0.2109	1.2909	2.7785	3.2267	3.2103	1.6259	1.9415	0.6263	Btk
Pycard	-0.3802	-0.7271	0.1085	1.8235	3.3971	3.2135	3.1604	1.7252	1.7955	0.9743	Pycard
Uba7	0.2762	-0.4042	-0.5826	0.658	2.9385	3.1005	3.0304	1.7508	1.3938	0.5119	Uba7
Saa1	-0.0522	1.0228	2.195	1.2285	2.2294	2.2127	2.9448	0.9663	0.8488	-3.3313	#N/A

Dhx58	-0.7402	-0.5558	0.1691	0.3177	2.2703	2.446	2.9039	0.7246	1.0187	-0.5628	Dhx58
Tlr6	-0.1488	1.1364	1.0618	1.3357	2.6767	2.4495	2.8377	1.4665	1.5966	0.5306	Tlr6
Cd14	1.1662	1.8458	2.8967	4.1347	2.6672	2.0606	2.7357	1.5652	1.3045	0.438	Cd14
Cfh	-0.0337	0.4562	0.3161	0.7987	1.1953	2.1516	2.6967	1.4478	1.7261	0.6173	Cfh
Card9	0.6373	0.014	0.2608	1.5883	3.286	2.9098	2.6049	1.599	1.6632	1.2231	Card9
Ikbke	-1.0379	-0.2322	0.1581	0.4158	1.7928	2.0787	2.553	0.9766	1.3547	0.2606	Ikbke
Lbp	0.3249	0.3348	0.6394	1.3091	1.415	2.2643	2.5515	1.4962	1.7231	1.2275	Lbp
Ripk3	-2.0652	-0.2242	-0.2746	2.487	3.372	2.1525	2.508	0.0689	1.1152	-5.0577	#N/A
Nfkb2	0.8118	0.7774	1.4816	1.778	2.1182	2.012	2.4713	1.2823	1.3342	0.9029	Nfkb2
Ddx58	-0.1369	0.2678	0.4539	1.1503	1.5262	2.1705	2.4472	0.9498	1.1338	0.4594	Ddx58
Plcg2	0.0416	0.1069	0.2146	0.9007	2.5255	2.5945	2.4345	1.2421	1.1621	0.19	Plcg2
C2	-0.7135	-0.0149	-0.3098	-0.2839	0.0633	0.8076	2.424	1.1649	1.4989	1.4056	C2
C9	0	0	0	0	0	0	2.3603	0	0	0	#N/A
Birc3	0.7179	1.2693	1.7439	1.7973	0.9239	1.6379	2.3024	0.9852	1.6051	0.8209	Birc3
Trim25	0.414	0.8296	0.7364	1.4088	1.9253	1.8107	2.199	0.9093	1.1782	0.8182	Trim25
Ifih1	0.0602	0.0308	0.3101	0.8169	1.4282	1.9266	2.1918	0.7918	0.9625	0.4026	Ifih1
Casp8	-0.347	0.1121	0.2744	1.1457	2.3855	2.2463	2.043	0.8587	0.7602	0.1516	Casp8
Irak4	0.1993	-0.0307	0.3061	1.2048	2.1175	1.8254	2.0305	1.0446	0.8366	0.1879	Irak4
Casp1	0.0165	0.0809	-0.4584	0.8009	2.032	1.8643	2.0171	1.0428	1.3881	0.7977	Casp1
Ly96	-0.0274	0.948	0.6932	1.1724	2.6934	1.8794	1.999	0.5911	1.6085	0.8137	Ly96
Irf1	0.5341	0.4075	0.7728	0.7658	1.1705	1.4809	1.9872	0.729	0.8473	0.4975	Irf1
Pros1	-0.0276	0.5575	0.7962	1.6019	2.0034	2.0537	1.9533	1.1254	1.0718	0.6329	Pros1
Ctsb	0.067	0.1213	0.1953	0.4376	1.8553	2.172	1.8242	0.8212	0.8626	0.2342	Ctsb
Nlrp3	-0.8664	-0.1147	0.3069	1.0311	1.627	1.7825	1.767	0.4134	-0.0773	-0.6841	Nlrp3
Cdk1	-0.1329	-0.3615	-0.6316	0.297	4.8475	3.4254	1.7322	0.0793	-0.0379	-0.1608	Cdk1
Lgmn	0.1931	0.1831	0.2877	0.5865	2.3139	2.1247	1.7293	0.7063	0.6684	0.2614	Lgmn
Mapkapk3	-0.0389	0.2543	0.496	1.0539	1.729	1.3536	1.7145	0.6816	0.7111	0.0941	Mapkapk3
Irak3	-0.1324	1.1329	1.3121	1.4959	0.5978	1.5528	1.6573	1.1491	1.2136	1.025	Irak3
Ube2l6	-0.3016	-0.2114	-0.2775	0.2585	1.2609	1.1985	1.5274	0.3784	0.617	0.0806	Ube2l6
Nod1	0.1653	0.1913	0.472	0.5453	0.8582	1.3011	1.4924	0.7722	0.8468	0.6776	Nod1
Ccr6	-0.5785	0.8125	-0.2416	-2.965	-2.965	-2.965	1.4515	0.9231	-0.2178	-2.965	#N/A
Txnip	1.1422	1.096	0.6951	0.6856	0.8546	1.2427	1.437	0.8309	0.8443	0.8242	Txnip
Nlrc4	0.1632	0.7324	0.4155	-0.2551	1.6301	1.3605	1.4156	0.361	1.2016	-0.1465	Nlrc4
P2rx7	-0.1931	0.5166	0.3693	0.3268	1.1686	1.1719	1.3473	0.6349	0.5861	0.2325	P2rx7
Myd88	0.1427	0.6496	0.8947	1.5325	1.6629	1.2331	1.3126	0.5756	0.6461	0.1863	Myd88

Tnfaip3	0.5592	0.6704	1.3669	0.7997	0.3682	0.8772	1.3053	0.7509	0.7769	-0.0145	Tnfaip3
Rps6ka1	-0.1912	-0.1454	0.1421	0.3075	1.0974	1.3522	1.3034	0.5857	0.4514	0.353	Rps6ka1
Ripk1	-0.0118	0.7567	0.5272	0.9695	1.2085	1.2449	1.2786	0.3715	0.7827	0.1845	Ripk1
Isg15	-0.2446	-0.4773	-0.0905	0.4216	1.4166	0.9318	1.2471	-0.6849	-0.1566	-0.9316	Isg15
Pstpip1	-0.1011	0.0361	0.3426	0.6033	1.36	0.7688	1.2346	0.5548	1.1812	0.0492	Pstpip1
Ctsk	0.2443	0.0874	-0.2047	0.3518	-0.1209	1.0469	1.1868	0.326	1.4638	0.326	Ctsk
Cfi	-3.9021	-3.9021	0.704	-3.9021	3.1968	1.5636	1.1702	-0.014	1.2653	0.1585	#N/A
Art1	-0.2211	-3.2137	-0.4902	-3.2137	-3.2137	-0.3699	1.1402	-3.2137	-0.7216	-3.2137	#N/A
Rnf125	1.4952	2.3657	1.5589	2.9364	2.0159	1.0669	1.1357	1.0255	1.265	1.2791	Rnf125
Mbl2	0.0344	0.0579	-0.2274	0.9478	-2.965	-2.965	1.1144	-2.965	0.7429	0.426	#N/A
Aim2	0.2248	0.2489	0.2702	0.3068	1.5728	1.2097	1.1099	0.3559	0.3311	-0.3176	Aim2
Mavs	-0.2032	-0.0386	0.2475	0.5925	0.8534	1.0976	1.032	0.7462	0.6551	0.5245	Mavs
Tlr3	-0.0775	0.125	0.0671	0.1351	0.2072	0.8386	0.9948	0.6571	0.6043	0.3708	Tlr3
Ticam1	0.4479	0.2924	0.2075	0.4845	1.0139	0.6926	0.9047	0.3975	0.4865	0.2741	Ticam1
Ager	-1.3364	-1.3094	-0.8427	-1.028	0.5827	0.4468	0.8801	0.1219	-0.4111	-1.8336	#N/A
Rnf135	0.1641	-0.1347	-0.3036	0.0321	0.62	0.7506	0.8397	0.3023	0.1185	0.1914	Rnf135
Dnm2	0.1518	0.1045	0.2428	0.5617	0.743	1.0083	0.8372	0.4215	0.2937	0.1721	Dnm2
Map3k1	0.0123	0.0918	0.2772	0.3391	0.4397	0.5683	0.8095	0.0667	0.1432	-0.2737	Map3k1
Mapkapk2	0.1558	0.3629	0.5005	0.7397	0.8672	0.6126	0.748	0.1472	0.1353	-0.0994	Mapkapk2
Fadd	-0.4382	-0.247	-0.5202	0.1626	0.8338	0.8144	0.6477	0.2721	0.1089	-0.3497	Fadd
Sigirr	-0.087	-0.7127	0.173	1.0169	1.3988	0.2573	0.6417	0.6483	0.2061	-0.1192	#N/A
Capza1	0.025	0.2414	0.3302	0.5425	0.2096	0.6544	0.6408	0.2823	0.3894	0.0645	Capza1
Ripk2	0.4624	0.5364	0.5257	0.3085	0.4632	0.6776	0.6383	0.1336	0.3871	0.381	Ripk2
Masp2	0.8552	1.8133	1.5074	0.3285	0.8503	-0.0134	0.6108	0.2451	0.3933	0.2725	#N/A
Rela	0.1259	0.0987	0.3783	0.5899	0.5953	0.6446	0.5912	0.1803	0.1615	0.0465	Rela
Masp1	0.0209	0.1079	0.2739	0.3853	0.4604	0.5987	0.5683	0.0449	0.2712	0.249	#N/A
Atf1	0.0175	0.1451	0.2852	0.4837	0.1251	0.4891	0.4785	-0.1366	0.2436	-0.0835	#N/A
Tirap	0.2031	1.1415	1.7768	1.188	1.1784	0.581	0.4396	0.0252	0.1743	-0.421	Tirap
Casp2	0.0749	0.4454	0.4129	0.0943	0.2096	0.4019	0.3902	0.2263	0.3105	0.4085	#N/A
Peli2	0.078	0.2728	0.3513	0.1574	0.431	0.2801	0.3743	0.1158	0.1065	0.104	#N/A
Irf3	-0.0255	-0.1523	0.0536	0.1218	0.6719	0.5417	0.3249	0.305	-0.0773	0.0006	#N/A
S100b	0.1395	0.1326	0.1973	-0.0068	0.5585	0.0788	0.3034	0.3085	0.345	0.5035	#N/A
Capza2	0.0574	0.1734	0.1591	0.0514	-0.0951	0.2621	0.2974	0.1526	0.1067	0.0651	#N/A
Irak2	0.3482	0.2653	0.0191	-0.0736	-0.0268	0.35	0.2596	-0.0254	-0.1725	-0.0837	#N/A
Eea1	0.059	0.0721	0.1258	0.1771	0.4764	0.2246	0.2547	0.2061	0.2004	0.0404	#N/A

Traf6	0.038	0.3547	0.5471	0.4203	-0.1795	0.231	0.2418	0.1304	0.1848	0.1355	#N/A
App	0.0572	0.0405	0.039	-0.1559	-0.5309	0.0972	0.2309	0.1845	0.1181	0.2285	#N/A
Birc2	0.1376	0.1376	0.2296	0.0996	-0.201	0.1858	0.2141	0.3038	0.2026	0.1418	#N/A
Ikbkb	0.0638	-0.0605	-0.0971	-0.1208	-0.2638	0.1467	0.2126	-0.0007	-0.0717	-0.0523	#N/A
Prkcsh	0.1794	0.0286	0.054	0.1005	0.3062	0.2078	0.2089	0.1425	0.0903	0.0584	#N/A
Tab2	-0.109	-0.0006	0.1018	0.1377	0.2525	0.2416	0.1964	0.0492	0.0523	0.0235	#N/A
Rps27a	0.1037	0.1529	0.2455	0.3379	1.1719	0.2611	0.1955	0.1488	0.3032	0.1641	#N/A
Nfkbia	0.5199	0.4644	0.304	0.5425	0.9523	0.1397	0.1913	-0.3802	-0.1448	-0.3242	#N/A
Nod2	1.4552	1.0577	1.2955	0.292	0.3442	0.2906	0.1811	0.4688	0.2896	-0.4097	#N/A
Irf2	0.064	-0.0094	-0.0487	-0.0196	0.126	0.0737	0.1788	-0.0106	-0.0885	0.0922	#N/A
Hsp90b1	0.3031	0.2323	-0.0116	0.0612	0.5517	0.2513	0.1738	0.1992	0.2187	0.0482	#N/A
Traf2	-0.136	-0.2138	-0.1406	-0.0589	0.3045	0.032	0.1506	-0.1908	-0.0344	-0.1094	#N/A
Peli1	0.2291	0.2608	0.2687	0.1988	0.0581	0.1966	0.1437	0.0706	0.1137	0.206	#N/A
Ppp2r1b	0.0009	0.3184	0.3849	0.586	0.2917	0.3132	0.1428	-0.0245	-0.0183	-0.1442	Ppp2r1b
Tbk1	-0.0682	0.0329	0.0221	-0.0121	-0.1921	0.2247	0.1332	0.1775	0.0885	0.3065	#N/A
C8g	-0.0427	-0.9587	0.8106	-0.154	0.9147	0.255	0.1285	0.6632	0.8801	-0.5779	#N/A
Nlrx1	-0.4287	-0.3079	-0.0988	8.656E-05	0.2937	0.2303	0.1274	0.0696	-0.273	-0.4145	#N/A
Hmgb1	0.0637	0.0122	-0.0765	0.0883	0.779	0.2503	0.1266	0.1965	0.2013	0.1432	#N/A
Pcbp2	0.0672	0.2457	0.1832	0.1148	0.0293	0.1397	0.119	0.0641	-0.0041	-0.0985	#N/A
Ddost	-0.0546	-0.1387	-0.0953	0.0917	0.4698	0.2481	0.105	-0.074	-0.122	0.03	#N/A
Tank	-0.0102	0.0927	0.13	0.0706	-0.4232	0.1118	0.1032	0.1368	0.0927	-0.0022	#N/A
Tax1bp1	0.1347	0.1748	0.1361	0.1379	0.3274	0.0806	0.095	0.1769	0.1959	0.1339	#N/A
Uba52	0.0634	-0.0022	0.0663	0.1718	0.8394	0.2313	0.092	0.0729	0.0519	-0.0345	#N/A
Map2k7	0.0349	0.033	-0.0122	0.0975	-0.038	0.0424	0.0737	0.0442	0.0711	0.0782	#N/A
Tlr5	-0.1047	-0.0416	-0.6225	-0.1273	0.2327	-0.5114	0.0669	0.0184	-0.765	-2.0334	#N/A
Rps6ka5	-0.3654	-0.2587	-0.3315	-0.3777	-1.2318	-0.0464	0.0659	-0.0005	0.124	0.1376	#N/A
Nfkbib	0.1749	0.1186	0.0213	0.2068	0.4085	0.1918	0.06	-0.0344	0.076	0.1707	#N/A
Cd55	0.0909	-0.4731	-0.3134	0.1698	-0.4413	-0.1882	0.0512	0.1772	0.4304	-0.0877	#N/A
Ep300	-0.238	-0.2127	-0.0805	-0.1043	-0.3901	-0.0374	0.0425	-0.0513	-0.0283	-0.1143	#N/A
Pik3c3	-0.0783	-0.1165	-0.1748	-0.2864	-0.4212	-0.1387	0.0241	0.0382	-0.0621	-0.0297	#N/A
Pik3r4	-0.076	-0.103	-0.2506	-0.1509	-0.2528	-0.0199	0.0179	0.0144	-0.0773	-0.1429	#N/A
Map3k7	-0.0993	0.0775	0.028	0.0887	-0.3758	-0.0147	0.0091	-0.1434	-0.1484	-0.1186	#N/A
Ikbkg	-0.117	-0.0416	-0.0377	0.0117	-0.3504	0.0097	0.0055	0.0376	0.0078	0.146	#N/A
Cfd	0	0	0	0	3.871	0	0	0	0	0	#N/A
Prss2	0	0	2.2102	0	0	0	0	0	0	0	#N/A

Ifna2	0	2.9576	0	0	0	0	0	0	0	0	#N/A
Ifna6	0	0	3.0882	0	0	0	0	0	0	0	#N/A
Ifna1	0	0	2.8529	0	0	0	0	0	0	0	#N/A
Ifna16	2.3865	0	0	0	0	0	0	0	0	0	#N/A
Defa3	0	0	0	0	0	0	0	0	0	0	#N/A
Defa4	0	0	0	0	0	0	0	0	0	0	#N/A
Defa5	0	0	0	0	0	0	0	0	0	0	#N/A
Defa6	0	0	0	0	0	0	0	0	0	0	#N/A
Ifna14	0	0	0	0	0	0	0	0	0	0	#N/A
Ifna4	0	0	0	0	0	0	0	0	0	0	#N/A
Ifna5	0	0	0	0	0	0	0	0	0	0	#N/A
Ifna7	0	0	0	0	0	0	0	0	0	0	#N/A
Ifnb1	0	0	0	0	0	0	0	0	0	0	#N/A
Mef2a	-0.032	0.0259	0.0164	-0.0808	-0.536	-0.047	-0.0031	-0.0607	-0.1453	-0.112	#N/A
Mapk3	-0.1472	-0.1438	-0.0757	-0.1944	0.1587	0.1079	-0.0159	-0.0851	-0.1177	0.1387	#N/A
Cnpy3	-0.0462	-0.0793	-0.3066	-0.2084	-0.0424	-0.0983	-0.0248	-0.0102	-0.0384	0.0029	#N/A
Panx1	0.0216	0.0499	-0.1438	0.1047	0.0392	-0.0511	-0.0294	-0.0158	0.1095	0.2361	#N/A
Ube2d3	-0.0058	0.1146	0.0208	0.1404	-0.1562	-0.0323	-0.0313	0.0864	0.0787	0.155	#N/A
Crebbp	0.0827	-0.0461	-0.0174	-0.0061	0.2267	-0.0326	-0.0331	-0.0442	-0.1811	-0.1575	#N/A
Sike1	-0.2056	-0.1829	-0.2037	-0.0822	-0.6157	0.0014	-0.0362	-0.0733	-0.1778	-0.1067	#N/A
Bcl2	0.1311	0.026	-0.14	-0.1408	0.1943	-0.0193	-0.0448	0.0003	0.0729	0.084	#N/A
Chuk	-0.1367	0.2676	0.2442	0.2323	-0.3123	-0.0199	-0.0471	-0.0782	-0.0523	-0.1714	#N/A
Atg5	-0.1863	-0.2156	-0.2663	-0.2381	-0.0943	-0.0386	-0.055	-0.1254	-0.0609	-0.192	#N/A
Mapk14	-0.1131	-0.0391	-0.1383	-0.1065	-0.5281	-0.1799	-0.0578	-0.1353	-0.2746	-0.1402	#N/A
Creb1	-0.1335	-0.1209	-0.1018	-0.0676	-0.0744	-0.0454	-0.0634	0.0176	0.0165	0.0741	#N/A
Map2k2	-0.0221	-0.192	-0.3545	-0.1388	0.975	-0.0224	-0.0685	-0.193	-0.1719	-0.1338	#N/A
Fos	2.4588	1.9868	1.5712	1.0582	-0.0218	-0.0989	-0.0686	0.1359	0.6456	0.5504	Fos
Ube2d1	-0.002	-0.0166	0.0248	-0.0594	-0.1743	0.033	-0.0726	0.0002	-0.0143	-0.0804	#N/A
Tab1	0.0204	-0.0588	-0.4691	-0.1746	-0.2109	0.0242	-0.0741	-0.1012	-0.2682	-0.3557	#N/A
Bcl2l1	0.1575	0.1143	0.1523	0.3288	0.1028	-0.0142	-0.0925	-0.2181	-0.2148	-0.1107	#N/A
Ppp2ca	0.0028	0.1012	0.0332	-0.1332	-0.3209	-0.1349	-0.0966	-0.0092	-0.037	-0.0101	#N/A
Hsp90ab1	0.1452	0.1915	0.1437	0.2219	0.1322	-0.0893	-0.1023	-0.0161	0.0487	0.06	#N/A
Dusp6	0.2852	0.0684	0.0846	-0.1344	0.1606	-0.0168	-0.1124	-0.1518	-0.0731	0.0294	#N/A
Casp9	-0.0077	-0.0165	-0.0406	-0.1684	-0.0434	-0.2426	-0.1139	-0.2262	-0.1792	-0.1329	#N/A
Ube2n	0.0071	0.0771	-0.0056	-0.0916	-0.2677	-0.1667	-0.1201	-0.0476	-0.0426	-0.0365	#N/A

Map2k3	-0.1252	0.2759	0.3875	0.5369	0.8267	0.2217	-0.1426	-0.15	0.0207	-0.0016	#N/A
Irak1	-0.011	0.4773	0.6934	0.576	0.8636	-0.1045	-0.1593	-0.2922	-0.2211	-0.3241	Irak1
Map2k4	-0.0167	0.0398	-0.0493	-0.1444	-0.6289	-0.2228	-0.1645	-0.045	-0.071	0.0652	#N/A
Cd46	-0.5373	-0.3341	-0.3544	-0.2596	-2.1734	-0.6371	-0.1649	-0.6879	-0.1469	-0.69	#N/A
Cyld	-0.1343	-0.1095	-0.184	-0.3966	-0.8756	-0.3016	-0.1826	-0.1491	-0.2131	-0.1274	#N/A
Ube2k	0.0152	-0.0019	-0.0632	-0.0639	-0.1711	-0.1697	-0.2053	-0.0569	-0.0969	-0.026	#N/A
C4a	-0.1761	-0.32	-1.7687	-0.4355	0.0396	0.4712	-0.2118	-0.0578	-0.3605	-0.7722	#N/A
Atf2	0.0018	0.054	-0.0112	-0.1484	-0.5912	-0.295	-0.2118	-0.1677	-0.1137	0.6305	#N/A
Traf3	-0.3491	-0.0389	0.0388	0.0238	-0.8428	-0.4329	-0.2161	-0.1648	-0.2263	-0.2545	#N/A
Atg12	0.1462	0.3448	0.3386	0.1167	-0.1761	-0.1531	-0.2171	-0.086	-0.132	-0.0546	#N/A
C7	-1.0077	-1.3417	-1.0371	-0.7435	-1.2269	-0.6057	-0.23	-0.6633	-0.3373	-0.2829	#N/A
Rps6ka3	-0.1186	0.0101	-0.1307	-0.1092	-0.9259	-0.3339	-0.2499	-0.2788	-0.4023	-0.3726	#N/A
Dnm1	-0.0598	-0.114	-0.1535	-0.3991	-0.7595	-0.2902	-0.2606	-0.1594	-0.2487	-0.0631	#N/A
Ppp2r5d	-0.0466	0.0086	0.1197	-0.0684	-0.1471	-0.2798	-0.2637	-0.2815	-0.2751	-0.2769	#N/A
Map2k1	-0.1139	-0.1001	-0.2468	-0.3837	-0.736	-0.345	-0.2725	-0.1311	-0.2228	-0.1054	#N/A
Mapk1	-0.1805	-0.0473	-0.2132	-0.3447	-1.0271	-0.3584	-0.2727	-0.164	-0.2736	-0.0722	#N/A
Jun	1.116	1.0446	0.8176	0.4791	0.4077	-0.0704	-0.2784	-0.4122	-0.1534	-0.2631	Jun
Otud5	-0.0715	-0.176	-0.3575	-0.2541	-0.2461	-0.2889	-0.2878	-0.2737	-0.2255	0.0287	#N/A
Ppp2cb	-0.0532	0.0524	-0.0231	-0.0878	-0.263	-0.1911	-0.2912	-0.1421	-0.1146	-0.1555	#N/A
Mef2c	-0.1778	-0.2429	-0.5124	-0.4464	-0.4783	-0.4376	-0.2963	-0.218	-0.478	-0.1717	#N/A
Tab3	-0.0459	0.1331	0.0356	-0.0891	-0.9084	-0.2809	-0.3036	-0.0809	-0.2003	-0.1276	#N/A
Mapk12	0.4246	0.4417	0.1622	0.3867	0.2142	0.0981	-0.3061	-0.2511	-0.2783	-0.0054	#N/A
Map2k6	-0.0933	0.1424	-0.1555	-0.2702	-0.4423	-0.3508	-0.3095	-0.3434	-0.2744	-0.1537	#N/A
Ppp2r1a	0.0095	-0.0955	-0.1653	-0.1959	-0.1258	-0.3294	-0.3143	-0.1904	-0.2024	0.366	#N/A
Mapk7	-0.1141	-0.4916	-0.356	-0.4	-0.3558	-0.21	-0.3235	-0.7307	-0.4519	-0.685	#N/A
Dusp3	0.0023	-0.1417	-0.2059	-0.3316	-0.3381	-0.3722	-0.3307	-0.2563	-0.3232	-0.3031	#N/A
Mapk9	-0.1145	0.0114	-0.0391	-0.2415	-0.9632	-0.4598	-0.3323	-0.1861	-0.2601	-0.1217	#N/A
Mapk8	-0.1107	-0.0251	-0.0517	-0.1647	-0.7994	-0.4392	-0.3367	-0.1929	-0.2486	-0.1566	#N/A
Mapk10	-0.0941	-0.0659	-0.2269	-0.3641	-0.9084	-0.4142	-0.3594	-0.2217	-0.3394	-0.1773	#N/A
Cd4	-0.8405	-1.0117	-1.5877	-2.9474	-2.3622	-0.6532	-0.3728	-0.9612	-0.6964	-1.0381	Cd4
Peli3	-0.2325	-0.2052	-0.4316	-0.4841	-1.1847	-0.4965	-0.3794	-0.3157	-0.2048	-0.1892	#N/A
Rps6ka2	-0.0506	-0.0266	-0.1312	-0.4052	-0.99	-0.473	-0.3989	-0.1938	-0.4939	-0.1782	#N/A
Dusp7	-0.0696	-0.3801	-0.2508	-0.1625	-0.2161	-0.394	-0.4109	-0.3768	-0.4599	-0.3703	#N/A
Ecsit	-0.0253	-0.1079	-0.1259	-0.09	0.0743	-0.352	-0.4162	-0.3356	-0.3388	-0.3064	#N/A
Mapk13	-0.2124	-0.3695	-0.8267	-0.7288	0.1623	-0.7952	-0.4667	-0.7964	-1.6407	-1.2509	#N/A

Pin1	-0.2116	-0.1149	-0.3401	-0.3291	-0.1455	-0.4423	-0.4671	-0.3621	-0.3283	-0.0608	#N/A
Defb1	-0.2638	0.422	0.2893	0.6606	0.8523	0.3335	-0.5667	0.1566	0.119	0.676	#N/A
Dusp4	0.2089	0.4835	-0.0363	-0.4074	-1.021	-0.7138	-0.5705	-0.0982	-0.1838	0.0662	#N/A
Elk1	-0.1769	-0.1113	-0.106	0.0172	-0.5407	-0.3889	-0.6253	-0.4808	-0.6365	-0.7399	#N/A
Mapk11	-0.0843	0.0217	-0.1368	-0.5171	-0.696	-0.8661	-0.7642	-0.6157	-0.8276	-0.6019	Mapk11

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This study invovles animal models:
Yes

Experimental groups and study timeline

The experimental group(s) have been clearly defined in the article, including number of animals in each experimental arm of the study:	Yes
An account of the control group is provided, and number of animals in the control group has been reported. If no controls were used, the rationale has been stated:	Yes
An overall study timeline is provided:	Yes

Inclusion and exclusion criteria

A priori inclusion and exclusion criteria for tested animals were defined and have been reported in the article:	Yes

Randomization

Animals were randomly assigned to the experimental groups. If the work being submitted does not contain multiple experimental groups, or if random assignment was not used, adequate explanations have been provided:	Yes
Type and methods of randomization have been described:	Yes
Methods used for allocation concealment have been reported:	N/A

Blinding

Blinding procedures have been described with regard to masking of group/treatment assignment from the experimenter. The rationale for nonblinding of the experimenter has been provided, if such was not feasible:	N/A
Blinding procedures have been described with regard to masking of group assignment during outcome assessment:	N/A

Sample size and power calculations

Formal sample size and power calculations were conducted based on a priori determined outcome(s) and treatment effect, and the data have been reported. A formal size assessment was not conducted and a rationale has been provided:	Yes

Data reporting and statistical methods

Number of animals in each group: randomized, tested, lost to follow-up, or died have been reported. If the experimentation involves repeated measurements, the number of animals assessed at each time point is provided, for all experimental groups:	Yes
Baseline data on assessed outcome(s) for all experimental groups have been reported:	Yes
Details on important adverse events and death of animals during the course of experimentation have been provided, for all experimental arms:	Yes
Statistical methods used have been reported:	Yes
Numeric data on outcomes have been provided in text, or in a tabular format with the main article or as supplementary tables, in addition to the figures:	Yes

Experimental details, ethics, and funding statements

Details on experimentation including stroke model, formulation and dosage of therapeutic agent, site and route of administration, use of anesthesia and analgesia, temperature control during experimentation, and postprocedural monitoring have been described:	Yes
Different sex animals have been used. If not, the reason/justification is provided:	Yes

Statements on approval by ethics boards and ethical conduct of studies have been provided: Yes

Statements on funding and conflicts of interests have been provided: Yes

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