

Supplementary Materials and Methods

Human tissue samples

All de-identified gastric cancer (GC) tissues were obtained from Fujian Medical University Union Hospital (FJMUUH, Fuzhou, China) from February 2012 to December 2015. The institutional review committee has approved all experimental protocols using de-identified human specimens of FJMUUH. The informed consent was obtained from subjects in this experiment. The study complied with the principles outlined in the Declaration of Helsinki. We constructed 3 tissue microarrays (TMA) from 365 cases of tumor tissues and one TMA from 124 cases of adjacent non-tumor gastric tissues (Supplementary Table 8). The clinical and pathological information and follow up information are available for the majority of these cases. We also collected GC tumor tissues and adjacent non-tumor gastric tissues from 36 GC patients with complete clinicopathological features for whole-transcriptome sequencing (Local dataset1, Supplementary Table 1).

Cell culture and reagents

Human gastric cancer cell line AGS was obtained from American Tissue Culture Collection (ATCC, Manassas, VA) and cultured in Ham's F-12 Nutrient Mixture (GIBCO, Carlsbad, CA) containing 10% fetal bovine serum (Invitrogen Life Technologies, Carlsbad, CA) and 1% penicillin/streptomycin (GIBCO). Human gastric cancer cell lines SNU-1 were obtained from ATCC (Manassas, VA). Human gastric cancer cell lines MKN28 and MKN45 cells was obtained from the Riken Cell Bank (Tsukuba, Japan) and STKM2 was a generous gift from Dr. Alexander Zaika, University of Miami. SNU-1, MKN28, MKN45 and STKM2 were maintained in RPMI/1640 medium with 10% fetal bovine serum and 1% penicillin/streptomycin. All these cell lines were maintained at 37 °C in a humidified incubator with 5% CO₂. Mycoplasma infection was routinely tested once a month. All reagents and antibodies used in the study were listed in Key Resources Table.

TFF1-knockout mouse tissue samples

TFF1-knockout (KO) mouse model of gastric tumorigenesis^{1, 2} and normal wild-type (WT) mice were maintained in a pathogen-free state following animal care committee approved protocol of the University of Miami. We collected 10 cases of TFF1-knockout mouse tissues (Histopathological diagnosis as low-grade dysplasia) with (5 cases) and without (5 cases) *H. pylori* infection (PMSS1 strain,

1 month infection) for a second whole-transcriptome sequencing (Local dataset2). Formalin fixed paraffin-embedded and frozen gastric tissues were collected from WT mice or TFF1-KO mice. Totally, 9 samples of WT mice and 31 samples of TFF1-KO mice, including 15 cases of low-grade dysplasia (LGD), 8 cases of High-grade dysplasia (HGD), and 8 cases of cancer, were enrolled in the study. The pathologists performed hematoxylin and eosin (H&E) staining to confirm pathological diagnosis and grading of the stomach tissues.

Whole-transcriptome sequencing

All tissues for whole-transcriptome sequencing were lysed with Trizol (Invitrogen), and RNA sequencing from Local dataset1 were performed by Kangchen Biotechnology Co., Ltd. (Shanghai, China) using TruSeq SR Cluster Kit v3-cBot-Hs (#GD-401-3001, Illumina) in Illumina HiSeq4000. The clinicopathological characteristics of these sequenced patients were listed in Supplemental Table 1. 10 mice stomach samples from Local dataset2 were extracted as described³. A total of 1 µg RNA from each sample was analyzed using the Illumina HiSeq 2500 platform. The Illumina (San Diego, CA) Tru-seq RNA sample prep kit was used for library preparation.

Gene expression data analysis

To analyze the expression of RASAL2 in gastric cancer, we utilized the TCGA pan-cancer dataset from NCI (<https://portal.gdc.cancer.gov/>), a series of gastric cancer datasets with unpaired adjacent non-cancer tissues (GSE27342, GSE66229, GSE63288, GSE19826, GSE79973, GSE81948, GSE51575, GSE33335, GSE63089, GSE103236, GSE112369, GSE40634, GSE45956, and GSE13873) and several paired gastric cancer datasets (GSE122401, GSE65801, and GSE13195) from GEO Datasets (<https://www.ncbi.nlm.nih.gov/gds/>). To execute the background adjustment for the raw data of the datasets from Affymetrix®, the “Affy” package in R language was used in Robust Multichip Analysis (RMA) algorithm⁴. The “lumi” package was used in the raw data of the datasets from Illumina®⁵. The “ComBat” algorithm⁶ was applied to reduce the likelihood of batch effects from non-biological technical biases. When a gene has multiple probes, the mean value of probes was used as the gene expression. All data were analyzed using R software (R 3.6.1; <https://www.r-project.org/>).

Gene set enrichment analysis

To analyze the *RASAL2*-associated signaling pathways, the patients were divided into three groups (high, median, and low) by Mean \pm SD of *RASAL2* expression. The differential expressed genes between *RASAL2*-high and -low groups were identified by using the “limma” package. Normalization Enrichment Score (NES) and the false discovery rate (FDR) of each gene set were calculated using the “clusterProfiler” (v3.12.0) package⁷. The reference gene sets, including hallmark gene sets, GO biological processes gene sets, and transcription factor targets gene sets, were downloaded from Gene Set Enrichment Analysis (GSEA) (<https://www.gsea-msigdb.org/>). Each gene set was considered significant when the FDR was less than 25%.

Immunofluorescence staining

Immunofluorescence stainings⁸ were performed as described previously. Briefly, paraffin-embedded tissues were deparaffinized in Histo-Clear (National Diagnostics, Atlanta, GA) and Histo-Clear was removed in gradient ethanol. Next, the citric acid buffer was used for antigen retrieval. 5% fetal bovine serum albumin (BSA, Sigma-Aldrich) was used as blocking reagents. They were fixed with 4% paraformaldehyde for cell sides, permeabilized with 0.5% Triton X-100, and then blocked with 5% BSA. The primary antibody (Key Resources Table) was incubated overnight at 4 °C. After washing 3 times with PBS, slides were incubated with 1: 400 Alexa Fluor-488 or Alexa Fluor-594 (Thermo Fisher, Weston, FL) secondary antibody for 1 hour in the dark. Finally, the nuclei were stained with DAPI (Vector Laboratories, Burlingame, CA). All-in-one Fluorescence Microscope (BZ-X700, Keyence Corp, Atlanta, GA) was used to acquire images.

Immunohistochemistry staining

Immunohistochemistry (IHC) stainings⁹ were performed as described previously. Briefly, paraffin-embedded tissues were deparaffinized in Histo-Clear (National Diagnostics, Atlanta, GA) and Histo-Clear was removed in gradient ethanol. Next, the citric acid buffer was used for antigen retrieval. 3% hydrogen peroxide following 5% BSA were used as blocking reagents. The primary antibody (Key Resources Table) was incubated overnight at 4 °C. After washing 3 times with PBS, slides were incubated with horseradish peroxidase (HRP)-conjugated streptavidin for 20 min at room temperature. Finally, the nuclei were stained with Hematoxylin (Maixin Biotech Co., Ltd, Fuzhou, China). Olympus FSX100 microscope (Olympus, Japan) was used to acquire images.

The scoring criteria for immunohistochemistry were described as previously⁹. Briefly, five fields were randomly selected to assess the intensity and percentage of positive cells in each slice. The intensity of tumor staining was defined as 0 (no staining), 1 (weak staining, light yellow), 2 (medium staining, yellow to brown) or 3 (strong staining, brown), and the proportion of positive tumor staining was classified as 0 ($\leq 5\%$ positive cells), 1 (6% -25% positive cells), 2 (26% -50% positive cells), or 3 ($\geq 51\%$ positive cells). The final score of one slide was expressed as the formula: the intensity score \times the proportion score (from 0 to 9 totally). Patients were defined as an expression-positive group unless their final score is 0.

Cell viability assay

The cells were seeded in 96-well plates at 1000 cells / well. The cell viability was measured in the designated time points using the CellTiter-Glo Luminescent Cell Viability kit (Promega, Madison, WI) at luminescence microplate reader (BMG Labtech) according to the manufacturer's instructions.

Transfection of DNA plasmids and siRNA

Polyjet and LipoJet reagents were used for DNA and siRNA transfection, respectively, following the manufacturer's instruction (Signagen Laboratories, Frederick, MD). The transient transfection of the indicated doses of pCMV4-p65 plasmid (purchased from Addgene)¹⁰ or pLV-RASAL2 (purchased from Vectorbuilder, Chicago, IL) was performed in 6-well plates. The cells were collected 48h for plasmids or 72h for siRNA after transfection. More details of DNA plasmids are listed in Key Resources Table. The siRNA sequences were listed in Key Resources Table.

Generation of lentivirus with shRASAL2 constructs

The control shRNA and shRASAL2 lentiviral plasmids were purchased from the Vector Builder (Guangzhou, China) (<https://en.vectorbuilder.com/>) (the target sequences were showed in Key Resources Table). The control shRNA or shRASAL2 lentiviral plasmid, and 2nd Generation lentivirus packaging system (LV003, Abmgood) were co-transfected into HEK293T cells using polyjet transfection reagent (SignaGen Laboratories). After 72h transfection, supernatants, containing lentivirus, were collected and stored at -80°C .

Establishment of RASAL2 knockdown stable cell lines

To establish stable knockdown clones, MKN28 and MKN45 were infected with the lentivirus (control shRNA or shRASAL2) in 8 ug/ml of polybrene (TR-1003, Sigma-Aldrich). After 72h infection, the cells were treated with puromycin for two weeks to select stable knockdown of RASAL cells and examined by Western blotting.

Chromatin immunoprecipitation (ChIP)

ChIP analysis was performed using ChIP-IT Express Enzymatic and ChIP-IT High Sensitivity kit (Active Motif Inc, Carlsbad, CA) according to the manufacturer's instructions. Briefly, 48 hours after transfection of the NF- κ B plasmid, or 6 hours after infection with *H. pylori*, GC cells were fixed with 1% formaldehyde (Sigma-Aldrich) for 10 minutes at room temperature, and then stop the fixation reaction by adding Glycine Stop-Fix Solution. The cell lysates were collected for DNA shearing enzyme incubation at 37°C for 10 minutes and shaken every 2 minutes to produce approximately 50-150 bp DNA fragments. The same amount of cell lysates were mixed with prebound antibody (NF- κ B) in protein G magnetic beads and spun at 4 ° C overnight, followed by eluting the protein / DNA complex and purifying the DNA. Quantitative real-time PCR was used to analyze the binding of NF- κ B to the promoter of a RASAL2 target gene. Primers for ChIP qRT-PCR were provided in Key Resources Table.

PP2A immunoprecipitation phosphatase assay

The non-radioactive Immunoprecipitation malachite green phosphatase assay kit (Millipore, Billerica, MA) was performed to measure PP2A activity. Briefly, cell lysates were harvested by lysis buffer (20 mmol / L imidazole-HCl, 2 mmol / L EDTA, 2 mmol / L EGTA, pH 7.0 with 10 μ g / mL each of aprotinin leupeptin, pepstatin, 1 mmol / L benzamidine, and 1 mmol / L PMSF with no phosphatase inhibitors) to extract total cell protein. All steps were conducted following the manufacturer's instructions, and the absorbance at 650 nm was measured by using luminescence microplate reader (BMG Labtech).

Western blotting

Western blotting was performed as described previously³. Briefly, RIPA buffer with protease inhibitors and phosphatase inhibitors (Santa Cruz Biotechnology, Dallas, TX) was used to lysate cells or liquid nitrogen-frozen tissues. The protein concentration was measured using the Bio-Rad protein assay

(Bio-Rad Laboratories, Hercules, CA). The same amount of proteins was run SDS / PAGE and transferred to nitrocellulose membrane (PerkinElmer, Waltham, MA). After blocking with 5% fetal bovine serum albumin (BSA, Sigma-Aldrich), the membrane was incubated with a specific primary antibody at 4 ° C overnight with shaking following with washing 3 times with TBST buffer for total 30 minutes. The membrane was incubated with anti-rabbit or anti-mouse secondary antibodies for two hours at room temperature and then washed three times with TBS-T for 30 minutes. Chemiluminescent reagents (Millipore, Billerica, MA) and Molecular Imager (Bio-Rad Laboratories, Hercules, CA) were used to detect protein bands.

Immunoprecipitation

Immunoprecipitation (IP) assay was used to detect the interaction between proteins. Cell lysates were collected in the lysis buffer (50 mM Tris-HCl (pH 7.4), 150 mM NaCl, 0.5% Triton X-100, 5 mM EDTA, 1x Protease inhibitors), then shaken with Protein G magnetic beads bound with the antibody at 4 ° C overnight. The immunoprecipitated complex was washed six times with PBS and boiled for ten minutes to elute the interacting complex from the beads and then subjected to SDS-PAGE for Western blotting.

Proximity ligation assay

Duolink in situ proximity ligation assay (PLA) detection kit (Sigma-Aldrich) was used to detect physical proximity between RASAL2 and PP2Aa, following the guidelines from the manufacturer as previously described⁸. In brief, cells were cultured in 8-well chamber slides following fixation with 4% paraformaldehyde buffer, permeabilization with 0.5% Triton X-100 buffer, blocking with goat serum, and incubation overnight at 4°C with two primary antibodies (Mouse RASAL2 antibody, and Rabbit PP2Aa antibody, Key Resources Table) derived from different host species. After rinsing away nonspecific binding antibodies, we performed the following steps according to the supplier's protocol, including hybridizations, ligations, detection, and slide sealing steps, and then imaged by All-in-one Fluorescence Microscope (BZ-X700, Keyence Corp, Atlanta, GA).

Quantitative real-time PCR (qRT-PCR)

Total RNA was extracted using Trizol (Invitrogen) according to the manufacturer's instructions.

Subsequently, an Advantage RT-for-PCR kit (Clontech Laboratories Inc) was used for cDNA synthesis. The public database PrimerBank (<https://pga.mgh.harvard.edu/primerbank/>) was used to obtain gene-specific primers (Key Resources Table), each pair of primers spanning 2 different exons and 1 intron. ICycler (Bio-Rad Laboratories, Hercules, CA) was used to perform qPCR to measure mRNA levels. Each sample was set triplicates and the readings of the threshold cycle number were averaged and normalized to HPRT (human) or 18S (mouse) of the same samples as described previously².

Luciferase reporter assay

The luciferase report assay was performed as previously described². The luciferase reporter plasmids (shown in Key Resources Table) were transfected into gastric cancer cells. The pSV- β -galactosidase plasmid was co-transfected with luciferase plasmids at each transfection to standardize transfection efficiency by normalizing readings to the β -Gal readout. Luciferase activity and β -galactosidase activity were measured after 48 hours of incubation. The results were expressed as relative luciferase activity: firefly luciferase activity divided by β -galactosidase activity. The experiments were performed in triplicate.

Tumor spheroid culture

MKN45 or MKN28 control and RASAL2 knockdown stable cells were seeded into ultra-low attachment 6-well dishes (Corning, USA) and cultured in serum-free DMEM/F12 supplemented with 20 ng/ml epidermal growth factor (EGF), 10 ng/ml basic fibroblast growth factor (bFGF), 2% B-27 (Life Technologies, Carlsbad, CA, USA), and 2 mM L-glutamine (Life Technologies, Carlsbad, CA, USA). Cells were incubated in a 5% CO₂ chamber at 37°C for seven days. The culture medium was changed every three days. The diameter and number of tumor spheres in three random 100x magnification fields were calculated under All-in-one Fluorescence Microscope (BZ-X700, Keyence Corp, Atlanta, GA) in the bright light model.

Human gastric cancer organoid culture

Human gastric cancer organoids culture was performed following our and other groups previous studies^{3, 11}. Briefly, tumor tissue from the antrum of the stomach was collected and cut into 2-3 mm pieces following by digestion with 2.5mg/ml Collagenase A (Sigma) for 30 minutes. 5 ml dissociation

buffer, including D-sorbitol (Sigma) and Sucrose (Sigma), was added to the tissue and shaken for 2 minutes. The final supernatant was passed through a 70 µm filter and crypts fraction was centrifuged at 150g for 5 minutes. After washing by ice-cold PBS, the gland pellet was resuspended in Matrigel™ (Trevigen) supplemented with the growth factors as described³. Finally, 50 µl Matrigel™ suspension was carefully ejected into the center of each well of 24-well plate, following by adding 0.5 ml of the IntestiCult Organoid Growth Medium (STEMCELL Technologies, Cambridge, MA). The organoids were cultured in 5% CO₂ incubator at 37°C and changed media twice a week. Organoids from the second passage were infected by lentivirus with control or RASAL2 knockdown plasmid in 15 ml tubes overnight. The diameter and number of organoids in three random 100x magnification fields were measured under a light microscope seven days after infection.

Nuclear and cytoplasmic protein extraction assay

Nuclear and cytoplasmic protein extraction was performed according to the manufacturer's instruction (Cat: 78833, Thermo Scientific™). In brief, cells were harvested with trypsin-EDTA and then centrifuged. Ice-cold CER I and then CER II were added to the cell pellet for cytoplasmic protein extraction. The insoluble (pellet) fraction which contained nuclei was suspended and incubated in ice-cold NER for nuclear protein extraction. Stored extracts at -80°C until use.

***In vitro* limiting dilution assay**

In vitro limiting dilution assay (LDA) was performed using U-bottom 96-well plate. MKN45 RASAL2-knockdown or control cells were diluted into three groups with different cell concentrations (1, 10, 100 cells/well). After 3 weeks of incubation, the number of wells with spheres was calculated. The frequency of spheroid formation was calculated using Extreme Limiting Dilution Analysis (<http://bioinf.wehi.edu.au/software/elda/>) at 21 days post incubation.

***In vivo* xenograft mice model**

MKN45 RASAL2-knockdown or control cells were suspended in RPIM1640 medium/matrigel mixture (50% medium and 50% matrigel). 3×10⁶ cells were injected subcutaneously into the flank regions of NOD/SCID mice (#001303, the Jackson Laboratory, USA). After 1 week of inoculation, mice were randomly assigned into four groups (n = 6 tumor per group): (a) vehicle (CTRL); (b) CDDP treatment

(CTRL+CDDP); (c) RASAL2 knockdown (shRASAL2); (d) combination of CDDP treatment and RASAL2 knockdown (shRASAL2+CDDP). The mice were administered with solution or cisplatin (CDDP, 2 mg/kg/3 days, ip). Tumor xenografts were measured twice a week, and tumor volume (TV) was calculated as the following formula: $TV = (\text{length} \times \text{width}^2) / 2$. The CDDP induced tumor inhibition rate was calculated at a time of sacrifice as the following formula: $(TV1 - TV2) / TV1$. TV1: the average TV of the CTRL group, TV2: the average TV of the CDDP group.

Statistical analysis and survival analysis

Data were shown as mean \pm standard deviation (SD) of three independent experiments. A one-way ANOVA Newman-Keuls, multiple comparisons test, was performed to compare the statistical significance among 3 groups or more. A Student's t-test was used to compare the difference between 2 groups. Pearson's correlation was conducted to test the correlation between 2 continuous variables, and spearman's correlation was conducted for categorical variables. For survival analysis, we collected several gastric cancer datasets containing follow-up from TCGA and GEO Datasets (including GSE66229, GSE15459, and GSE26253). Recurrence-free survival (RFS) and overall survival (OS) were analyzed using the Kaplan-Meier method and evaluated by the log-rank test. Multivariable Cox proportional hazards model was employed to identify independent prognostic factors associated with OS in the local and GSE66229 cohorts. To determine the optimal cutoff of RASAL2 mRNA value, the function "surv_cutpoint" in "survival" package of R software was performed, and values above or below the cutoff were defined as "High" or "Low", respectively. Differences with $P \leq .05$ were considered to be significant.

References

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Table S1. Characteristics of 36 patients with gastric cancer in Local dataset1

Number	Patient ID	Age	Sex	Histopathological diagnosis	Tumor site	T stage	N stage	M stage	AJCC stage
1	NXH	70	Male	Adenocarcinoma	Cardia	T3	N0	M0	IIA
2	ZYM	60	Female	Adenocarcinoma	Mixed	T4a	N2	M0	IIIB
3	WCH	65	Male	Adenocarcinoma	Antrum	T4a	N3b	M0	IIIC
4	ZAJ	72	Female	Adenocarcinoma	Body	T4a	N3b	M0	IIIC
5	CCQ	74	Male	Adenocarcinoma	Cardia	T3	N1	M0	IIB
6	FZJ	64	Male	Adenocarcinoma	Cardia	T3	N2	M0	IIIA
7	LYH	73	Male	Adenocarcinoma	Cardia	T3	N1	M0	IIB
8	CMS	61	Male	Adenocarcinoma	Cardia	T3	N3b	M0	IIIB
9	LSX	74	Male	Adenocarcinoma	Cardia	T1	N0	M0	IA
10	CWT	70	Male	Adenocarcinoma	Cardia	T1	N0	M0	IA
11	LJH	51	Male	Adenocarcinoma	Antrum	T4a	N3b	M0	IIIC
12	ZMF	71	Male	Adenocarcinoma	Antrum	T4a	N2	M0	IIIB
13	LYQ	66	Male	Adenocarcinoma	Cardia	T3	N2	M0	IIIA
14	LYJ	70	Female	Adenocarcinoma	Cardia	T3	N2	M0	IIIA
15	YTF	79	Male	Adenocarcinoma	Cardia	T3	N2	M0	IIIA
16	QLZ	73	Female	Adenocarcinoma	Body	T2	N2	M0	IIB
17	XHY	55	Female	Adenocarcinoma	Body	T3	N3b	M0	IIIB
18	LHG	54	Male	Adenocarcinoma	Antrum	T4a	N2	M0	IIIB
19	ZDL	44	Male	Adenocarcinoma	Antrum	T3	N2	M0	IIIA
20	CBJ	72	Male	Adenocarcinoma	Body	T3	N3a	M0	IIIB
21	LYB	65	Male	Adenocarcinoma	Cardia	T3	N2	M0	IIIA
22	LDC	52	Male	Adenocarcinoma	Cardia	T3	N0	M0	IIA
23	LYH	69	Female	Adenocarcinoma	Antrum	T2	N0	M0	IB
24	YJF	66	Male	Adenocarcinoma	Cardia	T4a	N3b	M0	IIIC
25	PSQ	57	Male	Adenocarcinoma	Antrum	T3	N3b	M0	IIIB
26	LYG	67	Male	Adenocarcinoma	Body	T4a	N3b	M0	IIIC
27	GXT	67	Male	Adenocarcinoma	Cardia	T3	N3a	M0	IIIB
28	QWJ	68	Male	Adenocarcinoma	Antrum	T3	N2	M0	IIIA
29	JJB	68	Male	Adenocarcinoma	Body	T3	N3b	M0	IIIB
30	LJG	82	Male	Adenocarcinoma	Cardia	T3	N0	M0	IIA
31	HYM	58	Female	Adenocarcinoma	Cardia	T3	N0	M0	IIA
32	HJM	71	Male	Adenocarcinoma	Cardia	T2	N1	M0	IIA
33	XXB	56	Female	Adenocarcinoma	Body	T2	N2	M0	IIB
34	LSB	64	Male	Adenocarcinoma	Cardia	T3	N1	M0	IIB
35	WSJ	64	Male	Adenocarcinoma	Antrum	T3	N2	M0	IIIA
36	JJX	62	Female	Adenocarcinoma	Body	T4a	N2	M0	IIIB

Table S2. Differential expression of genes in Local dataset1

Symbol	logFC	AveExpr	t	P. Value	adj. P. Val	B
CWH43	-1.515	8.390	-10.389	0.000	0.000	25.874
MAL	-1.721	9.090	-10.134	0.000	0.000	24.841
DGKD	-1.847	12.321	-10.024	0.000	0.000	24.394
TIMP1	2.235	12.478	9.986	0.000	0.000	24.240
CHGA	-4.101	11.343	-9.884	0.000	0.000	23.825
ADH7	-1.541	8.392	-9.821	0.000	0.000	23.567
ALDH6A1	-1.720	10.985	-9.672	0.000	0.000	22.954
GKN2	-5.170	12.502	-9.466	0.000	0.000	22.108
FBP2	-2.390	9.391	-9.247	0.000	0.000	21.207
ABCC8	-1.180	8.400	-9.236	0.000	0.000	21.158
GKN1	-5.931	14.109	-9.234	0.000	0.000	21.150
SLC5A5	-3.105	10.111	-9.223	0.000	0.000	21.104
ESRRG	-3.300	10.089	-9.198	0.000	0.000	21.003
SOSTDC1	-2.341	9.627	-9.165	0.000	0.000	20.867
GRIA4	-1.799	8.739	-9.064	0.000	0.000	20.447
RAB27A	-1.066	11.768	-8.970	0.000	0.000	20.060
GCNT4	-1.986	10.037	-8.749	0.000	0.000	19.144
AKR7A3	-2.957	11.867	-8.741	0.000	0.000	19.109
PXMP2	-1.686	10.419	-8.703	0.000	0.000	18.952
ACO2	-1.216	12.481	-8.701	0.000	0.000	18.942
LGALS9C	-1.913	9.575	-8.695	0.000	0.000	18.917
MSR1	1.836	9.675	8.687	0.000	0.000	18.886
ADAMTS13	-1.033	9.347	-8.685	0.000	0.000	18.875
KCNE2	-4.075	10.965	-8.676	0.000	0.000	18.837
COL4A1	2.186	12.846	8.667	0.000	0.000	18.803
LIPF	-6.289	14.963	-8.666	0.000	0.000	18.797
FAHD2B	-1.090	9.832	-8.647	0.000	0.000	18.718
PSAPL1	-2.616	9.720	-8.645	0.000	0.000	18.711
ABCC5	-1.022	11.923	-8.644	0.000	0.000	18.707
CA4	-1.312	8.483	-8.623	0.000	0.000	18.618
SLC9A4	-3.001	10.254	-8.618	0.000	0.000	18.596
HOMER2	-2.259	10.274	-8.572	0.000	0.000	18.406
CAPN13	-2.067	9.791	-8.538	0.000	0.000	18.267
GIF	-5.480	12.694	-8.498	0.000	0.000	18.100
VSIG2	-3.347	12.287	-8.493	0.000	0.000	18.077
LGALS9B	-2.044	9.758	-8.492	0.000	0.000	18.075
PPFIBP2	-1.019	10.856	-8.479	0.000	0.000	18.020
OLFML2B	1.628	9.410	8.471	0.000	0.000	17.987
TTYH3	1.551	11.119	8.396	0.000	0.000	17.673
GATA5	-1.868	9.443	-8.384	0.000	0.000	17.623
ATP4A	-5.823	12.615	-8.363	0.000	0.000	17.538
SERPINH1	1.284	10.604	8.356	0.000	0.000	17.506
CPA2	-3.688	10.295	-8.346	0.000	0.000	17.466
ATP4B	-5.314	11.957	-8.337	0.000	0.000	17.431
WISP1	1.514	8.677	8.335	0.000	0.000	17.422
COL4A2	1.779	12.962	8.321	0.000	0.000	17.361
THSD4	-1.465	10.290	-8.301	0.000	0.000	17.279

FCGR1A	1.154	8.703	8.278	0.000	0.000	17.184
PIK3C2G	-2.422	9.857	-8.242	0.000	0.000	17.034
EPN3	-2.003	10.373	-8.237	0.000	0.000	17.014
CA9	-3.325	11.353	-8.234	0.000	0.000	17.000
RBPJL	-1.147	8.090	-8.232	0.000	0.000	16.992
INHBA	2.638	9.781	8.217	0.000	0.000	16.931
FAP	2.023	9.434	8.215	0.000	0.000	16.921
SIDT2	-1.084	11.164	-8.210	0.000	0.000	16.900
SCNN1B	-1.712	9.037	-8.201	0.000	0.000	16.864
CTXND1	-1.711	8.630	-8.199	0.000	0.000	16.856
SLC7A8	-1.501	11.036	-8.199	0.000	0.000	16.854
TREM2	1.302	8.666	8.197	0.000	0.000	16.846
FCER1G	1.448	10.460	8.164	0.000	0.000	16.709
FUT9	-2.863	10.408	-8.160	0.000	0.000	16.692
MPC1	-1.073	11.010	-8.145	0.000	0.000	16.628
CTSB	1.797	13.682	8.142	0.000	0.000	16.616
ECHDC3	-1.499	9.428	-8.131	0.000	0.000	16.572
LOXL2	1.559	10.430	8.127	0.000	0.000	16.554
SEMA6B	1.050	9.253	8.119	0.000	0.000	16.523
MFSD4A	-3.661	11.408	-8.118	0.000	0.000	16.519
PGA3	-5.696	15.973	-8.105	0.000	0.000	16.464
VSIG1	-3.404	11.593	-8.105	0.000	0.000	16.462
UBL3	-1.117	11.878	-8.104	0.000	0.000	16.459
LINC00675	-2.095	9.932	-8.082	0.000	0.000	16.368
SMIM6	-1.356	9.347	-8.072	0.000	0.000	16.328
GPT	-1.674	9.592	-8.064	0.000	0.000	16.293
LIFR	-1.981	11.180	-8.057	0.000	0.000	16.262
FBXL13	-1.160	8.637	-8.037	0.000	0.000	16.182
PGA4	-6.303	15.654	-8.032	0.000	0.000	16.161
FSIP2	-1.565	9.225	-8.026	0.000	0.000	16.133
IRX3	-1.745	9.279	-8.014	0.000	0.000	16.084
OSMR	1.287	10.503	8.009	0.000	0.000	16.063
SUCLG2	-1.218	12.384	-8.007	0.000	0.000	16.055
ADAMTS14	1.237	9.332	7.998	0.000	0.000	16.017
REP15	-2.096	10.002	-7.997	0.000	0.000	16.015
SH2B3	1.005	10.410	7.988	0.000	0.000	15.975
SOX21	-1.846	9.095	-7.980	0.000	0.000	15.943
PGA5	-6.509	15.143	-7.980	0.000	0.000	15.942
PTGDR2	-1.204	8.949	-7.978	0.000	0.000	15.936
NRG4	-1.182	8.619	-7.958	0.000	0.000	15.851
GPT2	-1.832	10.459	-7.957	0.000	0.000	15.850
IGFALS	-1.581	8.820	-7.951	0.000	0.000	15.823
CD44	1.066	12.300	7.948	0.000	0.000	15.809
NID2	1.392	9.688	7.947	0.000	0.000	15.808
PLA2G7	1.346	9.059	7.932	0.000	0.000	15.744
CLDN1	1.949	9.335	7.923	0.000	0.000	15.706
LDHD	-1.612	9.876	-7.889	0.000	0.000	15.567
CHI3L1	2.146	9.480	7.884	0.000	0.000	15.543
TRIM50	-2.699	9.450	-7.876	0.000	0.000	15.511
RASSF6	-1.531	10.844	-7.873	0.000	0.000	15.500

TTR	-1.597	8.835	-7.871	0.000	0.000	15.490
TM7SF2	-1.245	9.772	-7.849	0.000	0.000	15.399
ELOVL5	1.176	10.582	7.837	0.000	0.000	15.348
SLC26A7	-1.666	8.868	-7.832	0.000	0.000	15.327
GATA6	-1.763	11.577	-7.831	0.000	0.000	15.323
ACSS1	-1.236	12.162	-7.830	0.000	0.000	15.319
CHAD	-1.160	8.263	-7.823	0.000	0.000	15.292
EPHB3	-1.328	10.936	-7.822	0.000	0.000	15.288
TGFBI	1.591	11.630	7.814	0.000	0.000	15.252
FAM174B	-1.254	10.517	-7.803	0.000	0.000	15.208
TMEM92	-1.314	9.555	-7.798	0.000	0.000	15.188
RGL3	-1.255	9.929	-7.786	0.000	0.000	15.139
DMRTA1	-1.085	8.656	-7.785	0.000	0.000	15.131
SDS	1.523	8.726	7.782	0.000	0.000	15.120
MYRIP	-1.421	9.177	-7.775	0.000	0.000	15.093
COL6A3	2.080	12.651	7.774	0.000	0.000	15.088
PSCA	-4.157	12.590	-7.770	0.000	0.000	15.070
PKIB	-1.379	9.445	-7.762	0.000	0.000	15.039
CKB	-2.810	12.059	-7.758	0.000	0.000	15.022
HAVCR2	1.066	9.250	7.752	0.000	0.000	14.997
ERO1B	-2.060	11.006	-7.741	0.000	0.000	14.950
COL8A1	2.245	10.230	7.735	0.000	0.000	14.923
SST	-2.592	9.698	-7.727	0.000	0.000	14.892
MUC6	-4.643	13.458	-7.721	0.000	0.000	14.869
NROB2	-1.512	9.338	-7.717	0.000	0.000	14.850
STOM	1.212	11.996	7.716	0.000	0.000	14.845
PGC	-5.649	16.320	-7.713	0.000	0.000	14.833
DBT	-1.197	11.004	-7.706	0.000	0.000	14.803
TFCP2L1	-1.773	10.620	-7.705	0.000	0.000	14.800
B4GALNT3	-2.298	11.743	-7.666	0.000	0.000	14.637
ESM1	1.548	8.684	7.665	0.000	0.000	14.636
SLC2A12	-1.996	9.821	-7.664	0.000	0.000	14.632
TMEM171	-1.903	9.816	-7.636	0.000	0.000	14.513
PAIP2B	-1.685	9.970	-7.630	0.000	0.000	14.487
FCGR2A	1.530	10.022	7.626	0.000	0.000	14.473
LILRB2	1.028	9.147	7.626	0.000	0.000	14.473
ANGPT2	1.037	9.019	7.622	0.000	0.000	14.457
ADAM28	-1.807	11.685	-7.621	0.000	0.000	14.452
MT1G	-2.882	11.281	-7.620	0.000	0.000	14.450
GPRC5C	-1.867	11.149	-7.619	0.000	0.000	14.444
FPR3	1.273	9.659	7.619	0.000	0.000	14.444
XYLT2	-1.855	11.612	-7.606	0.000	0.000	14.390
VASH1	1.022	10.255	7.601	0.000	0.000	14.370
GSTA1	-2.767	11.022	-7.595	0.000	0.000	14.344
MSN	1.069	12.694	7.588	0.000	0.000	14.313
INSRR	-1.035	8.107	-7.583	0.000	0.000	14.292
CYB5R1	-1.239	11.193	-7.582	0.000	0.000	14.290
THBS1	2.400	12.043	7.570	0.000	0.000	14.242
ICAM1	1.352	10.717	7.557	0.000	0.000	14.185
F2R	1.329	10.706	7.551	0.000	0.000	14.160

NCF2	1.217	9.600	7.541	0.000	0.000	14.121
SIRPA	1.093	10.646	7.536	0.000	0.000	14.099
STX12	-1.026	11.946	-7.532	0.000	0.000	14.081
PNPLA7	-1.308	10.143	-7.525	0.000	0.000	14.054
ADHFE1	-1.405	9.501	-7.524	0.000	0.000	14.048
UPP1	1.014	9.633	7.522	0.000	0.000	14.042
THY1	1.940	11.064	7.503	0.000	0.000	13.962
SERPINB9	1.047	9.853	7.494	0.000	0.000	13.923
C11orf52	-1.167	9.501	-7.493	0.000	0.000	13.921
PDILT	-2.313	9.000	-7.480	0.000	0.000	13.867
HPN	-2.178	9.862	-7.472	0.000	0.000	13.834
CLEC5A	1.275	8.262	7.462	0.000	0.000	13.791
CYSTM1	-2.320	13.808	-7.460	0.000	0.000	13.784
WIPF3	-1.558	9.637	-7.448	0.000	0.000	13.733
APOC1	1.410	9.849	7.446	0.000	0.000	13.728
GCKR	-1.031	8.733	-7.445	0.000	0.000	13.723
ARHGEF37	-1.414	10.770	-7.436	0.000	0.000	13.687
TRIM74	-1.684	9.136	-7.435	0.000	0.000	13.682
C16orf89	-2.478	10.410	-7.435	0.000	0.000	13.680
SH3GL2	-1.621	8.615	-7.417	0.000	0.000	13.605
MDFI	1.175	8.873	7.401	0.000	0.000	13.539
SLC26A9	-2.643	10.648	-7.392	0.000	0.000	13.503
FA2H	-1.685	10.583	-7.387	0.000	0.000	13.484
EPB41L4B	-1.660	10.905	-7.382	0.000	0.000	13.461
SRPX2	1.338	9.558	7.378	0.000	0.000	13.443
ANGPTL3	-1.277	8.247	-7.375	0.000	0.000	13.434
ALDH3A1	-2.536	11.104	-7.372	0.000	0.000	13.418
ANXA10	-3.182	12.040	-7.370	0.000	0.000	13.410
LYPD6B	-1.665	9.929	-7.369	0.000	0.000	13.410
ADAMTS12	1.559	9.056	7.354	0.000	0.000	13.345
BMP1	1.076	10.055	7.353	0.000	0.000	13.341
STARD10	-1.333	11.602	-7.353	0.000	0.000	13.340
SPARC	1.819	14.034	7.318	0.000	0.000	13.198
B3GAT1	-2.136	9.605	-7.310	0.000	0.000	13.165
FXYP4	-1.194	8.239	-7.307	0.000	0.000	13.152
CAPN9	-2.210	10.260	-7.305	0.000	0.000	13.144
KLF15	-1.395	9.183	-7.305	0.000	0.000	13.144
GHRL	-2.788	10.123	-7.296	0.000	0.000	13.108
CKMT2	-1.800	9.073	-7.291	0.000	0.000	13.084
FAM189A2	-1.273	9.646	-7.289	0.000	0.000	13.076
KAZALD1	-1.186	9.932	-7.289	0.000	0.000	13.076
TPCN2	-2.138	11.150	-7.278	0.000	0.000	13.033
MUC5AC	-4.179	13.700	-7.277	0.000	0.000	13.028
FRMD1	-2.216	9.236	-7.267	0.000	0.000	12.988
UGT2B15	-1.948	9.509	-7.266	0.000	0.000	12.983
RAP1GAP	-2.363	11.400	-7.255	0.000	0.000	12.938
SELENBP1	-1.473	11.549	-7.252	0.000	0.000	12.926
ACAN	1.179	8.303	7.245	0.000	0.000	12.894
PTPRZ1	-1.399	9.534	-7.242	0.000	0.000	12.885
SLC25A4	-1.609	11.346	-7.242	0.000	0.000	12.885

GCNT2	-1.393	9.953	-7.234	0.000	0.000	12.848
MFAP2	1.486	9.256	7.224	0.000	0.000	12.808
ADAMTS9	1.186	9.575	7.218	0.000	0.000	12.786
CHRD2	1.579	9.035	7.214	0.000	0.000	12.768
TTC6	-1.108	8.693	-7.212	0.000	0.000	12.758
LILRB4	1.310	9.277	7.210	0.000	0.000	12.753
MICALL1	-1.659	10.951	-7.208	0.000	0.000	12.744
CLCNKA	-1.500	8.672	-7.202	0.000	0.000	12.718
PDIA2	-2.863	10.595	-7.196	0.000	0.000	12.694
TRIM73	-1.452	9.069	-7.177	0.000	0.000	12.617
MAP7D2	-1.608	9.503	-7.167	0.000	0.000	12.574
SLC1A2	-1.582	9.170	-7.161	0.000	0.000	12.549
FCGR3A	1.722	10.387	7.158	0.000	0.000	12.538
KLHDC7A	-1.134	9.074	-7.146	0.000	0.000	12.488
PLAU	1.665	10.805	7.129	0.000	0.000	12.417
SCGB2A1	-1.193	8.584	-7.128	0.000	0.000	12.415
AQP4	-2.751	9.393	-7.123	0.000	0.000	12.391
SLC9A2	-1.877	10.429	-7.117	0.000	0.000	12.366
GOT1	-1.061	11.218	-7.108	0.000	0.000	12.332
SERPINE1	2.074	9.978	7.103	0.000	0.000	12.309
FAM3B	-2.181	11.069	-7.102	0.000	0.000	12.305
ARHGEF28	-1.356	10.759	-7.098	0.000	0.000	12.292
KLHL23	1.255	9.379	7.094	0.000	0.000	12.272
LNX1	-1.011	9.633	-7.093	0.000	0.000	12.270
COL15A1	1.307	11.963	7.087	0.000	0.000	12.243
THBS2	2.483	10.564	7.084	0.000	0.000	12.234
KCNQ1	-2.185	11.531	-7.082	0.000	0.000	12.226
LIF	1.343	9.378	7.080	0.000	0.000	12.217
PLLP	-1.632	10.667	-7.077	0.000	0.000	12.202
CCKAR	-1.713	8.564	-7.073	0.000	0.000	12.188
FN1	2.512	12.988	7.069	0.000	0.000	12.173
BGN	1.978	11.240	7.067	0.000	0.000	12.163
IGSF3	-1.053	10.251	-7.057	0.000	0.000	12.123
PLIN5	-2.196	10.066	-7.057	0.000	0.000	12.121
CD14	1.116	10.558	7.052	0.000	0.000	12.102
DHCR24	-1.328	12.441	-7.049	0.000	0.000	12.090
ARHGDIG	-1.364	8.748	-7.045	0.000	0.000	12.073
KLK11	-2.335	10.140	-7.041	0.000	0.000	12.057
HIP1R	-1.261	11.930	-7.039	0.000	0.000	12.046
ITGAX	1.474	10.154	7.023	0.000	0.000	11.981
GNB4	1.080	10.456	7.023	0.000	0.000	11.980
CST1	2.263	8.846	7.022	0.000	0.000	11.978
TNFAIP3	1.085	10.920	7.001	0.000	0.000	11.890
PBLD	-1.515	10.562	-6.995	0.000	0.000	11.865
IL17RE	-1.076	10.249	-6.986	0.000	0.000	11.829
ACADL	-1.039	8.411	-6.978	0.000	0.000	11.797
CMTM4	-1.307	11.647	-6.973	0.000	0.000	11.775
CHIA	-4.007	10.099	-6.962	0.000	0.000	11.731
APLP1	-1.979	9.887	-6.958	0.000	0.000	11.714
SLC25A5	-1.143	13.737	-6.953	0.000	0.000	11.696

COL2A1	-2.793	9.395	-6.942	0.000	0.000	11.651
DUOX1	-2.202	10.070	-6.936	0.000	0.000	11.623
IGSF6	1.052	9.492	6.933	0.000	0.000	11.613
SH3BGRL2	-1.158	12.108	-6.930	0.000	0.000	11.599
SCNN1G	-1.574	8.546	-6.925	0.000	0.000	11.581
COL3A1	2.048	14.709	6.921	0.000	0.000	11.563
COL18A1	1.214	11.698	6.916	0.000	0.000	11.541
DCXR	-1.013	10.309	-6.910	0.000	0.000	11.518
ADGRG2	-1.050	8.737	-6.899	0.000	0.000	11.472
IFITM3	1.066	12.813	6.895	0.000	0.000	11.455
CLIC6	-2.846	11.626	-6.893	0.000	0.000	11.447
ADAMTS4	1.600	9.619	6.888	0.000	0.000	11.427
TMED6	-2.049	9.343	-6.885	0.000	0.000	11.417
TFF1	-3.413	13.702	-6.882	0.000	0.000	11.405
SSTR1	-1.709	10.056	-6.880	0.000	0.000	11.393
RORC	-1.347	9.838	-6.879	0.000	0.000	11.391
TYMP	1.431	11.396	6.875	0.000	0.000	11.374
FMNL3	1.040	10.425	6.870	0.000	0.000	11.354
ADA	-1.350	10.324	-6.866	0.000	0.000	11.339
SULT2A1	-2.388	9.197	-6.858	0.000	0.000	11.305
PXDN	1.340	10.855	6.857	0.000	0.000	11.303
TFF2	-3.588	12.799	-6.843	0.000	0.000	11.246
HAPLN3	1.092	9.498	6.838	0.000	0.000	11.225
KIAA1324	-2.209	12.119	-6.838	0.000	0.000	11.225
ASB11	-1.539	8.427	-6.835	0.000	0.000	11.213
TESC	-1.245	10.813	-6.834	0.000	0.000	11.209
HYAL1	-1.093	9.683	-6.834	0.000	0.000	11.207
SYTL1	-1.263	10.942	-6.834	0.000	0.000	11.206
KCNJ13	-1.153	8.169	-6.827	0.000	0.000	11.179
CXCL17	-2.996	11.446	-6.824	0.000	0.000	11.166
FOXA3	-1.370	10.664	-6.813	0.000	0.000	11.121
COL5A2	1.810	11.788	6.808	0.000	0.000	11.099
FNDC1	1.968	9.057	6.802	0.000	0.000	11.075
SMIM11B	-1.256	9.343	-6.801	0.000	0.000	11.074
RGMB	-1.651	11.371	-6.798	0.000	0.000	11.059
FSTL1	1.475	12.496	6.788	0.000	0.000	11.020
ASPN	1.837	10.312	6.786	0.000	0.000	11.012
MT1F	-1.725	10.323	-6.776	0.000	0.000	10.970
SGK2	-1.137	9.990	-6.775	0.000	0.000	10.968
IER5L	1.022	9.650	6.768	0.000	0.000	10.938
MYOC	-1.826	8.946	-6.766	0.000	0.000	10.931
CDC42BPG	-1.180	10.496	-6.754	0.000	0.000	10.879
CTHRC1	1.811	9.579	6.753	0.000	0.000	10.876
SULF1	2.325	10.683	6.750	0.000	0.000	10.864
DNER	-1.904	8.960	-6.747	0.000	0.000	10.850
SMIM11A	-1.395	10.392	-6.739	0.000	0.000	10.821
HEYL	1.266	9.253	6.730	0.000	0.000	10.782
ADAMTS2	1.717	9.966	6.728	0.000	0.000	10.774
COL1A1	2.307	14.245	6.722	0.000	0.000	10.752
AP003071.	-2.135	9.150	-6.717	0.000	0.000	10.729

GLUL	-1.579	14.485	-6.714	0.000	0.000	10.720
FPR1	1.179	8.956	6.710	0.000	0.000	10.703
TMPRSS2	-2.159	12.550	-6.708	0.000	0.000	10.695
IGFBP2	-2.075	12.591	-6.705	0.000	0.000	10.682
ECI2	-1.198	11.220	-6.679	0.000	0.000	10.577
NEDD4L	-1.127	11.473	-6.672	0.000	0.000	10.545
PDGFD	-1.246	10.303	-6.664	0.000	0.000	10.512
PMEPA1	1.406	11.045	6.661	0.000	0.000	10.500
COBLL1	-1.235	11.042	-6.656	0.000	0.000	10.483
CTSL	1.245	11.152	6.654	0.000	0.000	10.472
FAM198B	1.326	11.021	6.653	0.000	0.000	10.471
RDH12	-1.152	8.600	-6.651	0.000	0.000	10.460
HPGD	-2.010	11.309	-6.648	0.000	0.000	10.450
C1orf116	-1.771	11.646	-6.648	0.000	0.000	10.447
SLAMF8	1.142	9.391	6.645	0.000	0.000	10.439
RASAL2	1.060	9.421	6.643	0.000	0.000	10.431
ENTPD1	1.191	10.335	6.642	0.000	0.000	10.426
TNFRSF12F	1.303	9.649	6.639	0.000	0.000	10.414
SH3PXD2B	1.396	10.166	6.638	0.000	0.000	10.409
ANO7	-1.593	9.954	-6.635	0.000	0.000	10.395
COL1A2	1.984	13.854	6.631	0.000	0.000	10.381
NNMT	1.427	10.584	6.631	0.000	0.000	10.378
NOSTRIN	-1.003	10.651	-6.624	0.000	0.000	10.353
ACAT1	-1.100	11.502	-6.623	0.000	0.000	10.347
SIGLEC11	-1.346	8.605	-6.622	0.000	0.000	10.344
C5orf38	-1.158	8.509	-6.620	0.000	0.000	10.334
ETNPPL	-1.807	8.596	-6.618	0.000	0.000	10.329
SOX2	-1.363	9.449	-6.608	0.000	0.000	10.286
LRP8	1.240	8.610	6.603	0.000	0.000	10.265
ESRRB	-1.334	8.492	-6.591	0.000	0.000	10.216
RGS11	-1.146	9.694	-6.586	0.000	0.000	10.198
MT1X	-1.703	11.292	-6.583	0.000	0.000	10.184
KRT80	1.202	8.197	6.580	0.000	0.000	10.175
SULT1C2	-2.591	12.176	-6.576	0.000	0.000	10.157
PDCD4	-1.085	12.445	-6.572	0.000	0.000	10.142
IDH2	-1.573	12.713	-6.561	0.000	0.000	10.094
TPD52L1	-1.473	10.020	-6.558	0.000	0.000	10.086
TFR2	-1.235	9.115	-6.537	0.000	0.000	9.997
GREM2	-1.532	9.853	-6.535	0.000	0.000	9.992
RAB17	-1.248	10.503	-6.521	0.000	0.000	9.934
CRISPLD1	1.144	8.615	6.518	0.000	0.000	9.923
GC	-1.706	9.096	-6.518	0.000	0.000	9.921
FM05	-1.469	10.355	-6.502	0.000	0.000	9.855
PRRX1	1.743	9.616	6.485	0.000	0.000	9.787
FAM46C	-1.162	11.743	-6.480	0.000	0.000	9.769
RPS10-NUI	1.077	8.009	6.478	0.000	0.000	9.761
CDC25B	1.214	11.231	6.478	0.000	0.000	9.760
SULT1B1	-1.852	10.777	-6.473	0.000	0.000	9.740
CA2	-2.666	12.935	-6.472	0.000	0.000	9.736
SPI1	1.064	10.009	6.467	0.000	0.000	9.716

PALM3	-1.890	10.246	-6.466	0.000	0.000	9.711
SPP1	2.143	9.686	6.463	0.000	0.000	9.699
ALDH1A1	-2.211	13.763	-6.461	0.000	0.000	9.691
GRIP2	-1.637	9.603	-6.460	0.000	0.000	9.687
MYOF	1.120	11.435	6.456	0.000	0.000	9.672
APOE	1.529	12.128	6.454	0.000	0.000	9.665
SELE	1.614	8.928	6.439	0.000	0.000	9.603
F2RL2	1.498	9.148	6.425	0.000	0.000	9.547
DUSP4	-1.568	11.685	-6.412	0.000	0.000	9.493
SERPINA4	-1.784	9.715	-6.411	0.000	0.000	9.489
GGT6	-1.618	9.805	-6.408	0.000	0.000	9.479
CASZ1	-1.008	10.973	-6.407	0.000	0.000	9.474
ITGA5	1.154	11.100	6.405	0.000	0.000	9.466
IGF2BP3	1.420	8.602	6.398	0.000	0.000	9.436
IRX2	-1.944	9.647	-6.386	0.000	0.000	9.388
ZNF385B	-1.481	9.012	-6.385	0.000	0.000	9.385
ACADS	-1.089	10.841	-6.378	0.000	0.000	9.356
MT1M	-1.704	9.680	-6.377	0.000	0.000	9.353
CRACR2B	-1.240	10.943	-6.376	0.000	0.000	9.350
DUOXA1	-1.306	8.872	-6.376	0.000	0.000	9.348
RASSF10	-1.032	8.919	-6.366	0.000	0.000	9.310
CGNL1	-1.505	10.451	-6.357	0.000	0.000	9.271
CD93	1.101	11.367	6.356	0.000	0.000	9.268
HMGCS2	-2.310	11.017	-6.350	0.000	0.000	9.243
GALNT12	-1.123	10.971	-6.344	0.000	0.000	9.220
AZGP1	-1.972	10.967	-6.343	0.000	0.000	9.216
BICC1	1.090	9.435	6.338	0.000	0.000	9.198
C1orf210	-1.171	9.946	-6.337	0.000	0.000	9.190
KCNJ15	-1.576	9.831	-6.326	0.000	0.000	9.149
ARL14	-1.637	10.455	-6.325	0.000	0.000	9.142
RGS16	1.198	9.509	6.320	0.000	0.000	9.125
PKDCC	1.091	9.973	6.317	0.000	0.000	9.113
PLXDC2	1.314	10.817	6.308	0.000	0.000	9.076
EEF1A2	-1.213	9.018	-6.300	0.000	0.000	9.045
DEPTOR	-1.161	10.721	-6.297	0.000	0.000	9.031
NTN4	-1.144	11.043	-6.291	0.000	0.000	9.007
COL5A1	1.544	12.100	6.287	0.000	0.000	8.991
SALL4	1.156	8.522	6.284	0.000	0.000	8.981
CNTD1	-1.283	8.520	-6.276	0.000	0.000	8.948
BSPRY	-1.026	10.125	-6.274	0.000	0.000	8.938
PROM2	-1.421	10.614	-6.271	0.000	0.000	8.926
SPTSSB	-1.655	9.923	-6.270	0.000	0.000	8.922
ADH1C	-2.867	12.071	-6.268	0.000	0.000	8.916
CEBPB	1.163	11.476	6.266	0.000	0.000	8.908
PTGR1	-1.191	11.195	-6.265	0.000	0.000	8.901
HMOX1	1.374	10.055	6.261	0.000	0.000	8.887
VCAN	1.680	10.825	6.236	0.000	0.000	8.789
SLC28A2	-2.714	10.264	-6.231	0.000	0.000	8.769
SOWAHA	-1.062	9.362	-6.224	0.000	0.000	8.741
GPR155	-2.140	11.191	-6.221	0.000	0.000	8.727

TNC	1.559	11.065	6.213	0.000	0.000	8.696
NCMAP	-1.162	9.229	-6.209	0.000	0.000	8.681
CLEC3B	-1.372	10.321	-6.208	0.000	0.000	8.673
FUT1	-1.352	9.909	-6.203	0.000	0.000	8.657
HRH2	-1.643	9.936	-6.201	0.000	0.000	8.647
RBM47	-1.190	12.214	-6.200	0.000	0.000	8.643
C14orf18C	-1.103	8.201	-6.196	0.000	0.000	8.628
AKR1C1	-1.685	11.121	-6.195	0.000	0.000	8.624
RGN	-1.100	9.311	-6.192	0.000	0.000	8.610
SMIM24	-1.990	11.118	-6.192	0.000	0.000	8.610
CCL18	1.616	9.303	6.184	0.000	0.000	8.578
APOBEC2	-1.281	8.661	-6.182	0.000	0.000	8.571
PLXDC1	1.090	10.074	6.176	0.000	0.000	8.549
MT1E	-1.788	11.848	-6.172	0.000	0.000	8.530
BCAS1	-2.166	12.143	-6.163	0.000	0.000	8.495
ATP8A1	-1.068	11.139	-6.162	0.000	0.000	8.493
PDGFRB	1.403	11.396	6.154	0.000	0.000	8.462
GPNMB	1.231	10.882	6.154	0.000	0.000	8.461
C5	-1.031	9.692	-6.150	0.000	0.000	8.445
MYRF	-1.446	11.335	-6.138	0.000	0.000	8.396
AKR1B10	-2.994	12.376	-6.137	0.000	0.000	8.394
PDLIM7	1.083	10.986	6.136	0.000	0.000	8.389
CYBB	1.209	11.134	6.134	0.000	0.000	8.379
MMP14	1.166	12.577	6.133	0.000	0.000	8.377
HGD	-1.101	9.855	-6.133	0.000	0.000	8.376
IGFBP7	1.219	12.691	6.131	0.000	0.000	8.370
MRC2	1.172	11.027	6.121	0.000	0.000	8.328
CARNS1	-1.388	9.374	-6.113	0.000	0.000	8.296
GLIPR1	1.082	10.339	6.106	0.000	0.000	8.268
TMEM30B	-1.359	11.174	-6.106	0.000	0.000	8.268
FKBP10	1.153	10.285	6.105	0.000	0.000	8.265
SEMA3B	-1.177	10.828	-6.103	0.000	0.000	8.256
TNFAIP6	1.041	8.595	6.103	0.000	0.000	8.255
KIAA1958	-1.094	10.002	-6.091	0.000	0.000	8.209
GUCY1A3	1.405	9.608	6.086	0.000	0.000	8.190
SCARA5	-1.284	9.553	-6.077	0.000	0.000	8.155
SLC9A3	-2.045	10.197	-6.074	0.000	0.000	8.143
SUSD4	-1.020	9.092	-6.071	0.000	0.000	8.129
SOCS3	1.570	11.036	6.067	0.000	0.000	8.115
AC011498.	-1.053	8.452	-6.064	0.000	0.000	8.102
FOXA1	-1.592	10.446	-6.050	0.000	0.000	8.048
STRA6	1.289	8.361	6.047	0.000	0.000	8.034
ITPKA	-1.007	9.563	-6.039	0.000	0.000	8.005
ADTRP	-1.565	10.306	-6.036	0.000	0.000	7.993
PPP2R3A	-1.116	9.770	-6.032	0.000	0.000	7.977
ADAM19	1.314	10.011	6.024	0.000	0.000	7.945
ST6GALNAC	-1.619	11.151	-6.008	0.000	0.000	7.879
MT-ND3	-1.121	16.571	-6.007	0.000	0.000	7.876
TMEM125	-1.126	9.847	-5.997	0.000	0.000	7.835
FAM83F	-1.072	10.088	-5.992	0.000	0.000	7.816

COL12A1	1.892	11.293	5.984	0.000	0.000	7.786
NKX6-2	-1.687	8.927	-5.977	0.000	0.000	7.757
C9orf152	-1.421	10.829	-5.974	0.000	0.000	7.744
DPT	-1.615	10.584	-5.960	0.000	0.000	7.691
ODAM	-1.178	8.824	-5.946	0.000	0.000	7.637
CDH11	1.338	10.526	5.942	0.000	0.000	7.618
MMP11	1.298	9.223	5.941	0.000	0.000	7.617
TFPI2	1.011	8.333	5.928	0.000	0.000	7.563
ACTN1	1.069	12.216	5.923	0.000	0.000	7.546
ANKRD22	-1.401	10.643	-5.923	0.000	0.000	7.545
RAP1GAP2	-1.292	11.050	-5.920	0.000	0.000	7.532
HTRA3	1.217	10.381	5.913	0.000	0.000	7.505
FAM177B	-1.391	9.409	-5.902	0.000	0.000	7.460
GUCA2B	-1.170	8.191	-5.899	0.000	0.000	7.450
ANGPTL2	1.119	10.445	5.898	0.000	0.000	7.448
C1S	1.385	12.521	5.894	0.000	0.000	7.431
SFRP4	2.226	9.887	5.893	0.000	0.000	7.425
GREM1	1.686	12.271	5.882	0.000	0.000	7.384
HDC	-1.415	9.961	-5.878	0.000	0.000	7.366
SH3RF2	-1.437	10.854	-5.877	0.000	0.000	7.362
PIK3AP1	1.085	10.106	5.877	0.000	0.000	7.362
PLCXD3	-1.349	9.094	-5.868	0.000	0.000	7.328
DIO2	1.219	10.381	5.867	0.000	0.000	7.323
TCEA3	-1.341	11.347	-5.864	0.000	0.000	7.311
KCNJ16	-1.734	8.967	-5.863	0.000	0.000	7.310
OSM	1.025	8.342	5.857	0.000	0.000	7.284
ENPP5	-1.098	9.055	-5.848	0.000	0.000	7.249
PTGS2	1.296	9.172	5.847	0.000	0.000	7.247
BHLHE40	1.138	11.647	5.847	0.000	0.000	7.245
RFLNA	-1.615	10.878	-5.845	0.000	0.000	7.237
MT-ND5	-1.028	17.052	-5.842	0.000	0.000	7.225
PLAUR	1.070	10.136	5.842	0.000	0.000	7.225
IL11	1.088	8.248	5.839	0.000	0.000	7.215
SERPINA5	-1.889	9.693	-5.833	0.000	0.000	7.190
COL10A1	1.951	8.842	5.829	0.000	0.000	7.177
CCKBR	-1.976	9.416	-5.823	0.000	0.000	7.152
B4GALNT2	-1.762	8.808	-5.812	0.000	0.000	7.107
MECOM	-1.087	12.011	-5.802	0.000	0.000	7.068
NOTCH3	1.291	11.083	5.798	0.000	0.000	7.054
PTPRN2	-1.206	10.948	-5.797	0.000	0.000	7.050
AKR1C2	-1.788	10.710	-5.794	0.000	0.000	7.038
CCND2	1.214	11.255	5.787	0.000	0.000	7.012
FGA	-2.266	9.651	-5.779	0.000	0.000	6.979
SMIM22	-1.278	10.906	-5.773	0.000	0.000	6.958
EMILIN1	1.114	11.555	5.769	0.000	0.000	6.941
VCAM1	1.210	10.344	5.765	0.000	0.000	6.927
CLDN18	-2.562	13.099	-5.758	0.000	0.000	6.899
RPRM	-1.100	8.468	-5.757	0.000	0.000	6.895
CDC42EP1	-1.192	12.273	-5.740	0.000	0.000	6.829
COL7A1	1.537	10.372	5.740	0.000	0.000	6.828

C6orf132	-1.168	11.160	-5.728	0.000	0.000	6.782
WNT2	1.260	8.181	5.723	0.000	0.000	6.762
ANTXR1	1.477	11.412	5.723	0.000	0.000	6.762
CD163	1.162	10.646	5.721	0.000	0.000	6.752
ADAM12	1.268	8.887	5.713	0.000	0.000	6.724
CYP3A5	-1.689	12.034	-5.712	0.000	0.000	6.718
TUBB3	1.011	8.602	5.706	0.000	0.000	6.695
SCIN	-1.207	9.797	-5.699	0.000	0.000	6.669
CSF3R	1.191	9.526	5.697	0.000	0.000	6.659
ANXA1	1.078	11.713	5.690	0.000	0.000	6.633
SERPINE2	1.185	10.111	5.681	0.000	0.000	6.598
CYP4X1	-1.085	9.405	-5.667	0.000	0.000	6.544
ARSD	-1.118	11.751	-5.666	0.000	0.000	6.542
GBP1	1.092	11.127	5.659	0.000	0.000	6.513
FOLR1	-1.654	9.443	-5.646	0.000	0.000	6.462
CKM	-1.803	8.886	-5.641	0.000	0.000	6.443
LAPTM5	1.232	12.347	5.633	0.000	0.000	6.412
FSCN1	1.026	10.320	5.632	0.000	0.000	6.408
GRIN2D	1.112	8.600	5.629	0.000	0.000	6.398
MAOA	-1.078	11.108	-5.627	0.000	0.000	6.390
DUSP19	-1.114	9.285	-5.620	0.000	0.000	6.364
LEPR	-1.375	10.182	-5.614	0.000	0.000	6.340
ADH1B	-1.610	10.497	-5.605	0.000	0.000	6.305
GSTA2	-1.269	8.752	-5.598	0.000	0.000	6.278
KIAA0895	-1.131	9.803	-5.595	0.000	0.000	6.264
SPON2	1.087	11.011	5.595	0.000	0.000	6.264
SKIL	1.046	11.009	5.595	0.000	0.000	6.264
CPXM1	1.263	9.061	5.594	0.000	0.000	6.260
TGM2	1.409	12.032	5.590	0.000	0.000	6.247
SNTB1	-1.101	10.732	-5.588	0.000	0.000	6.239
C1QC	1.071	11.450	5.581	0.000	0.000	6.211
GEM	1.163	9.963	5.580	0.000	0.000	6.208
KRT17	1.411	8.398	5.579	0.000	0.000	6.204
C2CD4B	-1.177	9.884	-5.576	0.000	0.000	6.194
SCTR	-1.061	8.646	-5.571	0.000	0.000	6.172
ALDH1A3	1.050	10.372	5.565	0.000	0.000	6.149
CAMSAP3	-1.120	10.709	-5.556	0.000	0.000	6.114
MLPH	-1.577	12.207	-5.554	0.000	0.000	6.109
DPCR1	-2.840	11.657	-5.550	0.000	0.000	6.092
TRPV6	-1.030	8.771	-5.545	0.000	0.000	6.071
SELL	1.042	9.443	5.533	0.000	0.000	6.025
C1R	1.098	12.775	5.520	0.000	0.000	5.978
FER1L6	-1.358	9.686	-5.504	0.000	0.000	5.914
CYFIP2	-1.132	10.891	-5.502	0.000	0.000	5.908
AQP9	1.067	8.542	5.500	0.000	0.000	5.902
SLC22A23	-1.162	11.328	-5.499	0.000	0.000	5.895
MAP3K21	-1.022	10.365	-5.493	0.000	0.000	5.873
LTF	-2.707	11.892	-5.492	0.000	0.000	5.868
XK	-1.014	9.902	-5.486	0.000	0.000	5.845
CTSK	1.212	11.454	5.483	0.000	0.000	5.834

MMP12	1.869	9.411	5.481	0.000	0.000	5.828
SULT1A1	-1.020	10.647	-5.462	0.000	0.000	5.755
SMPD3	-1.346	10.774	-5.454	0.000	0.000	5.726
NDRG1	-1.003	13.024	-5.453	0.000	0.000	5.722
CFD	-1.452	10.813	-5.450	0.000	0.000	5.707
OXCT1	-1.007	11.071	-5.448	0.000	0.000	5.702
CXCL8	2.149	10.118	5.445	0.000	0.000	5.690
ATP8B1	-1.141	12.151	-5.445	0.000	0.000	5.690
CXCL1	1.620	9.912	5.445	0.000	0.000	5.688
NQO1	-1.404	12.599	-5.441	0.000	0.000	5.674
SOD2	1.077	11.243	5.441	0.000	0.000	5.674
MMP9	1.581	9.672	5.441	0.000	0.000	5.673
KCNAB2	1.034	9.723	5.437	0.000	0.000	5.659
SLC16A7	-1.358	9.119	-5.436	0.000	0.000	5.656
SPOCK1	1.295	9.203	5.425	0.000	0.000	5.612
FBN1	1.431	11.033	5.419	0.000	0.000	5.589
GPBR1	-1.190	9.070	-5.417	0.000	0.000	5.582
COL6A2	1.008	13.536	5.411	0.000	0.000	5.559
HID1	-1.049	12.062	-5.409	0.000	0.000	5.550
MMP3	1.665	9.017	5.406	0.000	0.000	5.540
BCL2A1	1.090	9.059	5.353	0.000	0.000	5.340
MCAM	1.008	11.460	5.338	0.000	0.000	5.282
SLC11A1	1.084	8.881	5.327	0.000	0.000	5.241
NRP2	1.203	10.128	5.326	0.000	0.000	5.238
TRNP1	-1.522	11.321	-5.326	0.000	0.000	5.238
IL6	1.067	8.364	5.324	0.000	0.000	5.229
LRRK1	1.008	9.959	5.309	0.000	0.000	5.171
MT1H	-1.405	9.398	-5.285	0.000	0.000	5.083
FBP1	-1.210	11.392	-5.284	0.000	0.000	5.079
C1orf115	-1.117	10.695	-5.279	0.000	0.000	5.060
AADAC	-1.500	9.812	-5.245	0.000	0.000	4.933
SLC16A10	-1.057	9.400	-5.193	0.000	0.000	4.738
AKR1C3	-1.460	12.067	-5.187	0.000	0.000	4.713
ATP11A	1.011	9.617	5.181	0.000	0.000	4.691
RNASE1	-1.390	12.274	-5.170	0.000	0.000	4.651
MTMR11	1.019	10.299	5.168	0.000	0.000	4.644
FOXA2	-1.240	10.322	-5.162	0.000	0.000	4.619
VILL	-1.257	11.414	-5.157	0.000	0.000	4.602
ORM2	-1.372	9.247	-5.137	0.000	0.000	4.529
FGD4	-1.344	11.239	-5.137	0.000	0.000	4.527
C2	1.045	10.235	5.132	0.000	0.000	4.511
C1QB	1.025	11.727	5.127	0.000	0.000	4.489
JCHAIN	-2.088	14.332	-5.112	0.000	0.000	4.434
RAB27B	-1.234	10.910	-5.104	0.000	0.000	4.404
FBXO32	1.032	10.456	5.100	0.000	0.000	4.389
CYP2C9	-1.336	9.704	-5.098	0.000	0.000	4.383
COL11A1	1.747	8.532	5.087	0.000	0.000	4.342
CXCL10	1.292	9.555	5.083	0.000	0.000	4.327
DPYSL3	1.193	11.505	5.082	0.000	0.000	4.323
ATP1B1	-1.186	14.048	-5.076	0.000	0.000	4.300

CEMIP	1.584	8.677	5.072	0.000	0.000	4.285
PI16	-1.039	9.011	-5.068	0.000	0.000	4.270
ISLR	1.261	10.448	5.067	0.000	0.000	4.267
SCG3	-1.058	8.598	-5.065	0.000	0.000	4.261
ELK4	1.293	10.675	5.063	0.000	0.000	4.252
CTSE	-2.405	13.539	-5.062	0.000	0.000	4.250
IRF6	-1.031	11.145	-5.057	0.000	0.000	4.230
ZBTB7C	-1.059	9.548	-5.053	0.000	0.000	4.217
PI3	1.950	9.675	5.002	0.000	0.000	4.028
SCNN1A	-1.335	11.288	-4.992	0.000	0.000	3.993
PI15	1.270	8.796	4.986	0.000	0.000	3.970
PDK4	-1.190	11.353	-4.978	0.000	0.000	3.938
PLEK	1.097	10.212	4.963	0.000	0.000	3.886
MMP2	1.218	12.243	4.941	0.000	0.000	3.805
RARRES1	1.261	9.341	4.937	0.000	0.000	3.790
SPDEF	-1.279	10.175	-4.914	0.000	0.000	3.706
TST	-1.009	11.344	-4.912	0.000	0.000	3.700
FLNA	1.060	13.693	4.910	0.000	0.000	3.691
PTGER3	-1.502	10.105	-4.907	0.000	0.000	3.679
PKD2	1.001	9.938	4.906	0.000	0.000	3.675
THBS4	1.824	9.404	4.897	0.000	0.000	3.645
CXCL9	1.495	10.072	4.884	0.000	0.000	3.595
LIPG	1.048	9.316	4.881	0.000	0.000	3.586
CD55	1.259	10.876	4.871	0.000	0.000	3.549
SLC28A3	1.166	8.900	4.867	0.000	0.000	3.536
HOXA10	1.073	8.499	4.865	0.000	0.000	3.525
HEPH	1.300	10.086	4.856	0.000	0.000	3.493
GBP5	1.175	10.137	4.836	0.000	0.000	3.422
PRSS8	-1.366	11.920	-4.828	0.000	0.000	3.394
S100A9	1.660	10.346	4.817	0.000	0.000	3.353
CDH2	-1.086	9.207	-4.785	0.000	0.000	3.237
EMP1	1.218	11.166	4.779	0.000	0.000	3.217
RNF128	-1.118	11.118	-4.779	0.000	0.000	3.215
PRR15L	-1.257	11.514	-4.743	0.000	0.000	3.086
REG1A	-2.413	12.975	-4.665	0.000	0.000	2.808
MDK	1.126	11.597	4.644	0.000	0.000	2.732
ALDOB	-2.293	10.475	-4.630	0.000	0.000	2.684
CAPN8	-1.689	12.053	-4.628	0.000	0.000	2.676
SLC12A2	-1.017	12.713	-4.626	0.000	0.000	2.671
POU2AF1	-1.256	11.208	-4.611	0.000	0.000	2.617
GALNT6	-1.157	11.325	-4.600	0.000	0.000	2.577
B3GNT3	-1.005	11.049	-4.598	0.000	0.000	2.572
S100P	-1.775	12.981	-4.587	0.000	0.000	2.534
MUC1	-1.248	12.652	-4.586	0.000	0.000	2.530
ACSM3	-1.040	10.167	-4.543	0.000	0.000	2.380
LIPH	-1.251	11.133	-4.539	0.000	0.000	2.364
PDE3A	1.201	9.413	4.518	0.000	0.000	2.290
TPX2	1.051	10.334	4.516	0.000	0.000	2.283
ERN2	-1.270	11.221	-4.504	0.000	0.000	2.242
CHGB	-1.293	9.158	-4.489	0.000	0.000	2.188

CENPF	1.028	10.662	4.445	0.000	0.000	2.036
CXADR	-1.148	11.015	-4.421	0.000	0.000	1.953
UBE2C	1.018	9.976	4.412	0.000	0.000	1.923
KLK6	1.066	8.044	4.390	0.000	0.000	1.849
S100A8	1.197	9.482	4.384	0.000	0.000	1.828
CYP2C18	-1.349	10.150	-4.357	0.000	0.000	1.734
GABRE	1.032	9.589	4.322	0.000	0.000	1.614
AQP1	1.056	11.574	4.322	0.000	0.000	1.614
PRDM16	-1.004	9.506	-4.306	0.000	0.000	1.559
AGT	1.035	9.530	4.275	0.000	0.000	1.455
NBPF12	-1.093	11.211	-4.274	0.000	0.000	1.450
MS4A8	-1.037	9.168	-4.258	0.000	0.000	1.399
EPHB2	1.185	9.461	4.258	0.000	0.000	1.399
COMP	1.084	8.416	4.236	0.000	0.000	1.323
B3GNT7	-1.046	10.590	-4.215	0.000	0.000	1.252
TJP3	-1.011	10.975	-4.199	0.000	0.000	1.199
IFI6	1.063	11.359	4.185	0.000	0.000	1.151
FOXQ1	-1.206	11.552	-4.172	0.000	0.000	1.109
MXRA5	1.030	11.341	4.161	0.000	0.000	1.073
HOXA13	1.014	8.247	4.155	0.000	0.000	1.052
CLU	-1.102	12.546	-4.150	0.000	0.000	1.036
FGG	-1.383	8.797	-4.135	0.000	0.000	0.985
C3	1.254	12.543	4.129	0.000	0.001	0.967
CLDN7	1.505	10.136	4.111	0.000	0.001	0.908
TSPAN1	-1.503	11.985	-4.102	0.000	0.001	0.877
CXCL14	-1.311	11.555	-4.089	0.000	0.001	0.835
TRIM29	1.277	8.775	4.087	0.000	0.001	0.827
ITGA11	1.013	9.536	4.086	0.000	0.001	0.824
DAZ1	-1.551	9.231	-4.073	0.000	0.001	0.780
CAMK2N1	1.013	10.803	4.039	0.000	0.001	0.668
MMP1	1.251	11.010	4.037	0.000	0.001	0.662
AGR2	-1.657	14.659	-3.992	0.000	0.001	0.516
MSMB	-1.618	9.996	-3.989	0.000	0.001	0.506
UBD	1.417	11.026	3.984	0.000	0.001	0.491
LAMC2	1.206	10.608	3.984	0.000	0.001	0.489
MAGEA3	1.044	7.964	3.876	0.000	0.001	0.143
KRT20	-1.823	10.705	-3.833	0.000	0.001	0.008
LUM	1.142	12.879	3.812	0.000	0.001	-0.059
MMP7	1.531	9.708	3.803	0.000	0.001	-0.088
HRASLS2	-1.152	9.242	-3.786	0.000	0.001	-0.142
AL645922.	1.113	8.482	3.775	0.000	0.001	-0.175
TSPAN8	-1.379	13.177	-3.757	0.000	0.001	-0.232
PHGR1	-1.573	10.729	-3.754	0.000	0.002	-0.240
RGS1	1.041	11.189	3.748	0.000	0.002	-0.261
CLDN3	1.448	9.468	3.734	0.000	0.002	-0.304
CEACAM6	2.009	10.851	3.724	0.000	0.002	-0.334
CEACAM7	1.020	8.460	3.687	0.000	0.002	-0.449
FXYD3	-1.215	12.608	-3.683	0.000	0.002	-0.462
ONECUT2	1.242	9.469	3.673	0.000	0.002	-0.494
PLEKHS1	1.260	9.743	3.660	0.000	0.002	-0.534

A4GNT	-1.045	9.005	-3.651	0.000	0.002	-0.561
SERPINB5	1.318	9.514	3.472	0.001	0.003	-1.100
SPINK1	-1.417	13.005	-3.470	0.001	0.003	-1.105
MGAM2	1.021	8.829	3.430	0.001	0.004	-1.223
CLDN4	1.421	10.020	3.411	0.001	0.004	-1.279
C6orf58	-1.618	9.563	-3.374	0.001	0.004	-1.386
DAZ2	-1.459	9.204	-3.321	0.001	0.005	-1.537
FCGBP	-1.536	12.321	-3.318	0.001	0.005	-1.547
HKDC1	1.095	9.210	3.259	0.002	0.006	-1.714
PLA2G2A	1.137	9.418	3.213	0.002	0.006	-1.845
OLFM4	2.268	11.366	3.196	0.002	0.007	-1.891
DUOX2	-1.277	10.720	-3.125	0.003	0.008	-2.086
TMEM189-t	1.075	9.068	3.104	0.003	0.009	-2.145
AP002990.	1.367	11.166	2.930	0.005	0.013	-2.610
CXCL5	1.403	10.448	2.876	0.005	0.015	-2.748
TCN1	-1.124	10.601	-2.851	0.006	0.016	-2.813
APOA1	-1.125	9.013	-2.849	0.006	0.016	-2.817
CDH17	1.431	9.791	2.820	0.006	0.017	-2.891
REG3A	-1.553	10.828	-2.771	0.007	0.019	-3.013
KRT19	-1.092	13.410	-2.746	0.008	0.020	-3.076
DMBT1	1.654	10.795	2.723	0.008	0.021	-3.133

Table S3. Differential expression of genes in GSE40634

Symbol	logFC	AveExpr	t	P. Value	adj. P. Val	B
Nid1	5.833	7.156	42.638	0.000	0.000	33.915
Ctgf	8.550	8.725	38.712	0.000	0.000	32.593
Col5a2	7.213	7.595	36.043	0.000	0.000	31.573
Colla2	7.309	7.851	31.729	0.000	0.000	29.670
F2r	7.371	8.929	25.892	0.000	0.000	26.460
Bgn	5.928	8.939	24.840	0.000	0.000	25.784
Fbln2	6.865	8.661	23.935	0.000	0.000	25.175
Ecml	6.342	8.635	23.799	0.000	0.000	25.081
Lhfp	6.102	6.808	23.739	0.000	0.000	25.039
Ltbp3	5.621	7.368	23.611	0.000	0.000	24.950
Plat	6.875	7.593	23.280	0.000	0.000	24.716
Postn	5.984	7.785	22.729	0.000	0.000	24.319
Chi3l3	7.899	8.260	22.543	0.000	0.000	24.182
Tubb2b	4.884	6.591	22.131	0.000	0.000	23.875
2610203C2	6.735	6.943	21.971	0.000	0.000	23.753
Fstl1	5.971	7.848	21.540	0.000	0.000	23.422
Runx2	3.828	5.427	21.466	0.000	0.000	23.364
Lamb1-1	5.229	6.234	21.339	0.000	0.000	23.265
Fam102b	4.691	7.779	20.981	0.000	0.000	22.981
Igfbp3	6.870	8.390	20.516	0.000	0.000	22.604
Sphk1	4.400	6.150	20.357	0.000	0.000	22.473
Trf	6.776	7.826	20.029	0.000	0.000	22.199
Col6a3	5.414	6.944	19.864	0.000	0.000	22.059
Stx2	3.283	5.699	19.620	0.000	0.000	21.849
Serpina6	5.789	6.872	19.443	0.000	0.000	21.696
Serpine2	6.098	7.596	19.224	0.000	0.000	21.505
Schipl	4.313	6.171	19.011	0.000	0.000	21.316
Ints6	4.532	7.031	19.007	0.000	0.000	21.312
Cdh13	4.219	6.726	18.981	0.000	0.000	21.289
Gpc1	3.864	6.126	18.781	0.000	0.000	21.110
Col4a1	4.615	7.119	18.722	0.000	0.000	21.056
Pgc	-8.693	6.497	-18.651	0.000	0.000	20.992
Gif	-8.524	6.536	-18.559	0.000	0.000	20.907
Colla1	4.909	6.526	18.427	0.000	0.000	20.787
Glis2	4.616	6.204	18.344	0.000	0.000	20.710
Pla2g1b	-7.200	6.382	-18.132	0.000	0.000	20.513
Chia	-7.897	5.968	-18.100	0.000	0.000	20.483
Olfml3	4.533	6.325	18.057	0.000	0.000	20.442
Msln	7.135	7.973	18.047	0.000	0.000	20.432
Cep170	4.283	5.457	17.954	0.000	0.000	20.345
Cd302	4.352	6.813	17.822	0.000	0.000	20.219
Sparc	6.238	9.022	17.782	0.000	0.000	20.181
Cd68	4.478	6.495	17.522	0.000	0.000	19.931
Osmr	4.911	6.014	17.444	0.000	0.000	19.855
Mmd	6.031	7.443	17.438	0.000	0.000	19.848
Ptpre	3.795	6.453	17.379	0.000	0.000	19.791
Flna	5.059	8.296	17.375	0.000	0.000	19.787

Fn1	6.780	9.602	17.352	0.000	0.000	19.764
Gast	-8.955	6.171	-17.337	0.000	0.000	19.750
Samd4	3.977	5.766	17.334	0.000	0.000	19.747
Pga5	-6.048	5.402	-17.330	0.000	0.000	19.743
Cfh	4.216	6.699	17.228	0.000	0.000	19.642
Tubb6	5.308	7.401	17.213	0.000	0.000	19.628
Chrnbl	3.595	6.579	17.093	0.000	0.000	19.509
Adamts12	3.728	5.677	17.066	0.000	0.000	19.481
Fcgr3	5.808	7.350	16.936	0.000	0.000	19.352
Cald1	5.398	6.033	16.841	0.000	0.000	19.256
Chst11	3.826	6.607	16.793	0.000	0.000	19.208
Abcb1a	5.576	6.478	16.769	0.000	0.000	19.183
Hivep2	3.406	5.366	16.547	0.000	0.000	18.956
Pxdn	4.774	6.631	16.509	0.000	0.000	18.916
St3gal4	3.597	6.554	16.441	0.000	0.000	18.847
Fam176b	3.634	6.660	16.436	0.000	0.000	18.841
Mpeg1	4.317	7.454	16.420	0.000	0.000	18.825
LOC100047	5.816	6.989	16.294	0.000	0.000	18.694
Emp3	5.043	8.267	16.265	0.000	0.000	18.663
Tnc	6.282	7.165	16.259	0.000	0.000	18.657
Cd93	3.873	5.941	15.990	0.000	0.000	18.373
Zeb1	3.733	6.437	15.949	0.000	0.000	18.330
Bicc1	5.164	6.574	15.914	0.000	0.000	18.292
Tgm2	4.876	7.607	15.901	0.000	0.000	18.278
1300014IC	4.361	6.259	15.897	0.000	0.000	18.274
Mrc1	6.012	7.034	15.826	0.000	0.000	18.197
Pdia2	-6.645	5.701	-15.731	0.000	0.000	18.095
Es22	-2.710	3.702	-15.678	0.000	0.000	18.038
Tspan4	4.426	7.837	15.642	0.000	0.000	17.999
Fscn1	6.575	8.634	15.592	0.000	0.000	17.944
Cxcl16	3.342	7.335	15.573	0.000	0.000	17.924
Rnf24	2.582	6.246	15.531	0.000	0.000	17.877
Cul7	3.235	6.476	15.521	0.000	0.000	17.867
Tnfrsf12ε	3.438	9.781	15.446	0.000	0.000	17.784
Rhoc	4.829	7.790	15.269	0.000	0.000	17.588
Igfbp7	5.331	9.975	15.257	0.000	0.000	17.575
Gpr137b	3.261	7.080	15.155	0.000	0.000	17.461
Gpr137b-1	3.683	7.364	15.146	0.000	0.000	17.450
Jub	3.958	7.101	15.101	0.000	0.000	17.400
Clcf1	4.497	6.374	15.067	0.000	0.000	17.362
Serpine1	5.749	6.796	15.024	0.000	0.000	17.314
C230081A1	4.506	7.278	14.920	0.000	0.000	17.196
Bcl11a	-2.902	4.652	-14.905	0.000	0.000	17.178
Col6a1	4.364	6.792	14.897	0.000	0.000	17.169
Afap1	3.197	7.133	14.882	0.000	0.000	17.152
Ncs1	3.292	5.216	14.819	0.000	0.000	17.080
Loxl2	4.139	6.649	14.797	0.000	0.000	17.055
Slc16a7	-5.500	5.260	-14.777	0.000	0.000	17.031
Mgp	6.625	9.083	14.676	0.000	0.000	16.916
Mtap7d1	4.112	7.415	14.664	0.000	0.000	16.902

Pcolce	5.427	8.631	14.628	0.000	0.000	16.860
Otud7b	1.937	6.589	14.587	0.000	0.000	16.813
3930401B1	2.794	10.893	14.489	0.000	0.000	16.698
Marcks11	4.292	7.425	14.472	0.000	0.000	16.678
Nav1	3.490	6.300	14.451	0.000	0.000	16.653
Cmtm3	5.064	6.213	14.382	0.000	0.000	16.573
Mmp2	5.292	6.785	14.374	0.000	0.000	16.563
Pmp22	3.341	5.535	14.360	0.000	0.000	16.547
Efemp2	4.128	6.914	14.169	0.000	0.000	16.320
Cdh11	4.951	5.878	14.113	0.000	0.000	16.253
Col4a2	5.343	7.666	14.041	0.000	0.000	16.166
Atp4b	-7.867	7.259	-14.009	0.000	0.000	16.128
Lgals1	4.738	10.238	13.971	0.000	0.000	16.082
Gm14005	4.411	6.673	13.909	0.000	0.000	16.006
Map4k4	3.343	6.686	13.863	0.000	0.000	15.950
Spsb1	3.495	5.646	13.849	0.000	0.000	15.934
Kctd20	2.301	6.133	13.804	0.000	0.000	15.879
Cyplb1	4.549	6.644	13.737	0.000	0.000	15.797
Fkbp7	3.686	6.792	13.716	0.000	0.000	15.771
Wnt5a	4.252	5.583	13.715	0.000	0.000	15.770
Inhba	3.549	7.321	13.685	0.000	0.000	15.733
Slc43a3	3.381	6.194	13.559	0.000	0.000	15.577
Farpl	3.350	6.998	13.546	0.000	0.000	15.560
Hmga2	5.029	7.731	13.527	0.000	0.000	15.537
Fkbp10	3.582	6.059	13.522	0.000	0.000	15.530
Sst	-5.751	5.427	-13.514	0.000	0.000	15.521
Mrps24	-1.750	9.129	-13.506	0.000	0.000	15.511
Dpysl3	4.041	5.947	13.424	0.000	0.000	15.408
Serping1	4.826	7.604	13.407	0.000	0.000	15.386
Aldh1a2	3.897	5.101	13.384	0.000	0.000	15.357
Fxyd5	4.717	7.601	13.365	0.000	0.000	15.333
Timp1	5.407	8.090	13.317	0.000	0.000	15.273
Lum	4.563	6.767	13.265	0.000	0.000	15.208
Rras	3.719	7.835	13.260	0.000	0.000	15.201
Slc12a4	3.186	6.324	13.166	0.000	0.000	15.081
Saa3	5.670	7.300	13.143	0.000	0.000	15.052
Pdgfc	3.975	6.962	13.125	0.000	0.000	15.029
Relb	2.654	5.704	13.101	0.000	0.000	14.998
Serpinb9	3.977	6.445	13.046	0.000	0.000	14.927
Col18a1	3.651	6.753	13.041	0.000	0.000	14.921
Pdlim2	3.218	6.101	13.023	0.000	0.000	14.898
Plaur	4.094	8.196	12.943	0.000	0.000	14.794
Adamts14	3.232	6.049	12.902	0.000	0.000	14.742
Rbms1	2.256	9.692	12.901	0.000	0.000	14.740
Ctla2a	5.432	8.654	12.898	0.000	0.000	14.736
BC028528	2.979	4.842	12.871	0.000	0.000	14.701
Ctla2a	6.064	7.573	12.864	0.000	0.000	14.692
Clps	-8.298	7.652	-12.863	0.000	0.000	14.691
Sulf1	3.164	5.227	12.854	0.000	0.000	14.679
Pmepal	2.305	8.105	12.835	0.000	0.000	14.654

Serpinf1	5.975	6.574	12.812	0.000	0.000	14.624
Phxr4	2.561	5.727	12.811	0.000	0.000	14.623
Snrpn	-2.729	8.187	-12.724	0.000	0.000	14.509
Qk	4.347	6.099	12.720	0.000	0.000	14.503
Gatm	3.925	5.879	12.692	0.000	0.000	14.466
Lama5	3.646	7.136	12.686	0.000	0.000	14.458
Ctss	5.418	9.184	12.680	0.000	0.000	14.451
Col5a1	5.042	7.630	12.651	0.000	0.000	14.413
Gab2	2.942	6.529	12.632	0.000	0.000	14.388
Rasa3	3.690	6.683	12.603	0.000	0.000	14.349
Anxa8	5.226	7.544	12.582	0.000	0.000	14.320
Ptprm	2.464	5.233	12.516	0.000	0.000	14.233
Anapc13	-1.571	8.969	-12.451	0.000	0.000	14.146
Thy1	3.646	6.764	12.447	0.000	0.000	14.140
Tmem184c	4.110	6.637	12.407	0.000	0.000	14.088
Tmem119	3.383	5.105	12.397	0.000	0.000	14.074
Wipfl	2.922	5.142	12.387	0.000	0.000	14.060
Ctsk	3.496	6.311	12.346	0.000	0.000	14.005
Wwtr1	3.324	6.356	12.334	0.000	0.000	13.989
Apoe	5.299	9.076	12.313	0.000	0.000	13.960
Ccr1	4.496	5.809	12.268	0.000	0.000	13.899
Msn	5.484	9.109	12.260	0.000	0.000	13.888
Tpbg	3.720	5.791	12.229	0.000	0.000	13.847
Slco2b1	2.709	4.671	12.210	0.000	0.000	13.820
Emilin1	2.893	5.234	12.187	0.000	0.000	13.789
Myof	3.795	8.784	12.164	0.000	0.000	13.757
Cxcr7	4.824	7.355	12.133	0.000	0.000	13.716
Gm4586	4.073	10.032	12.094	0.000	0.000	13.662
Sh3pxd2b	3.472	8.049	12.079	0.000	0.000	13.641
Gngl1	2.983	7.264	12.078	0.000	0.000	13.639
Fosl1	2.683	4.985	12.048	0.000	0.000	13.599
Plec	2.511	9.229	12.020	0.000	0.000	13.559
A430081F1	2.744	5.509	12.000	0.000	0.000	13.532
Elov15	4.634	7.693	11.985	0.000	0.000	13.512
1810010DC	-7.191	5.794	-11.974	0.000	0.000	13.495
Ghr1	-7.086	6.167	-11.953	0.000	0.000	13.468
Cp	6.005	8.436	11.946	0.000	0.000	13.457
Slit2	3.831	5.761	11.939	0.000	0.000	13.448
Jdp2	2.717	4.776	11.939	0.000	0.000	13.447
4632428NC	3.484	5.578	11.914	0.000	0.000	13.413
Clqb	5.518	7.342	11.907	0.000	0.000	13.403
Syde1	2.231	4.807	11.900	0.000	0.000	13.394
Ttc28	2.325	5.508	11.877	0.000	0.000	13.362
6330406I1	3.239	4.936	11.828	0.000	0.000	13.293
Bcl2ala	4.838	6.832	11.796	0.000	0.000	13.248
Atp4a	-7.535	6.237	-11.794	0.000	0.000	13.245
Stom	2.735	6.073	11.791	0.000	0.000	13.241
Lrrc8c	4.091	5.814	11.786	0.000	0.000	13.234
Acsbg1	3.221	4.982	11.775	0.000	0.000	13.218
Plekhg2	2.938	6.537	11.755	0.000	0.000	13.191

I14ra	2.993	7.352	11.751	0.000	0.000	13.185
Fndc1	3.667	5.982	11.721	0.000	0.000	13.143
Gprc5b	3.143	7.133	11.713	0.000	0.000	13.132
Fmnl3	2.236	5.282	11.704	0.000	0.000	13.118
Mllt11	3.148	6.560	11.704	0.000	0.000	13.118
Ms4a6d	4.262	5.134	11.700	0.000	0.000	13.113
Vps18	1.897	4.732	11.690	0.000	0.000	13.098
Ccl6	6.025	9.235	11.688	0.000	0.000	13.096
Pkd2	2.523	7.308	11.679	0.000	0.000	13.082
Sdpr	3.336	7.583	11.669	0.000	0.000	13.069
2310014HC	3.463	7.081	11.638	0.000	0.000	13.025
Atp8b2	3.535	6.656	11.631	0.000	0.000	13.015
Ttyh3	1.718	5.703	11.625	0.000	0.000	13.006
Atp5g1	-1.893	10.339	-11.613	0.000	0.000	12.990
Glis3	2.792	5.179	11.612	0.000	0.000	12.988
Myo7a	3.070	5.638	11.612	0.000	0.000	12.988
Ucp2	-2.555	4.446	-11.609	0.000	0.000	12.983
Apbb2	2.877	7.797	11.566	0.000	0.000	12.922
Ndufs5	-1.594	9.114	-11.544	0.000	0.000	12.892
Rnmt	1.563	5.409	11.529	0.000	0.000	12.870
Glipr1	4.244	7.136	11.517	0.000	0.000	12.853
Bmp1	4.306	6.619	11.497	0.000	0.000	12.824
Cttbnp2n1	2.830	4.673	11.490	0.000	0.000	12.813
Klra18	4.980	6.369	11.468	0.000	0.000	12.782
Unc5b	3.099	6.400	11.427	0.000	0.000	12.723
Gm5529	-2.882	7.347	-11.419	0.000	0.000	12.712
Cts1	3.319	11.061	11.405	0.000	0.000	12.691
Dab2	4.783	6.483	11.401	0.000	0.000	12.687
270008101	2.672	4.909	11.393	0.000	0.000	12.674
Fgd3	2.560	5.282	11.386	0.000	0.000	12.665
Islr	3.333	5.239	11.377	0.000	0.000	12.651
Scarf2	3.607	5.325	11.361	0.000	0.000	12.628
Fbn1	3.879	6.197	11.351	0.000	0.000	12.613
Tubala	2.820	9.693	11.345	0.000	0.000	12.605
Ptgs2	4.460	6.256	11.314	0.000	0.000	12.560
Tstd1	-4.755	5.522	-11.295	0.000	0.000	12.532
Tnfrsf22	3.914	7.910	11.273	0.000	0.000	12.500
Thbs2	5.069	6.141	11.262	0.000	0.000	12.485
Pla2g7	4.789	6.715	11.248	0.000	0.000	12.464
Mfap5	4.947	6.394	11.235	0.000	0.000	12.444
Stx11	3.594	5.323	11.205	0.000	0.000	12.401
Dmwd	3.056	5.935	11.188	0.000	0.000	12.377
Csnk1e	2.861	6.883	11.168	0.000	0.000	12.346
Tgfb3	3.886	5.681	11.139	0.000	0.000	12.304
Abcb1b	4.124	6.353	11.135	0.000	0.000	12.298
Epn2	2.524	6.964	11.131	0.000	0.000	12.293
Ankrd1	5.383	6.873	11.117	0.000	0.000	12.272
Sparc11	4.706	7.399	11.114	0.000	0.000	12.267
Frmd4a	4.870	6.562	11.095	0.000	0.000	12.239
Col3a1	5.568	10.123	11.090	0.000	0.000	12.232

Mex3d	2.418	6.596	11.080	0.000	0.000	12.218
Axl	5.429	6.803	11.046	0.000	0.000	12.166
Vim	5.310	9.753	11.043	0.000	0.000	12.163
Fhod1	2.459	6.516	11.017	0.000	0.000	12.124
Fpr2	3.892	5.463	11.003	0.000	0.000	12.103
Adam19	3.182	5.527	10.983	0.000	0.000	12.073
Procr	3.345	6.855	10.967	0.000	0.000	12.050
Plala	4.073	6.525	10.964	0.000	0.000	12.046
Asap1	2.702	5.696	10.942	0.000	0.000	12.013
Prmt2	2.363	7.524	10.940	0.000	0.000	12.009
Itgav	3.146	4.932	10.934	0.000	0.000	12.001
Parvb	3.131	6.101	10.930	0.000	0.000	11.995
Adamts2	2.964	5.127	10.912	0.000	0.000	11.967
Ereg	4.391	5.896	10.884	0.000	0.000	11.925
Rin1	2.597	6.238	10.874	0.000	0.000	11.912
Bmper	2.924	5.206	10.871	0.000	0.000	11.906
Bola3	-1.298	9.263	-10.870	0.000	0.000	11.906
Nlgn2	2.822	6.151	10.845	0.000	0.000	11.868
2310007Bc	4.354	5.429	10.837	0.000	0.000	11.856
Cygb	2.949	5.735	10.835	0.000	0.000	11.852
Slc25a24	3.449	7.097	10.816	0.000	0.000	11.823
Fam38a	2.042	7.034	10.777	0.000	0.000	11.765
Gsdmc	-2.377	4.092	-10.772	0.000	0.000	11.758
Gm4076	-1.441	12.334	-10.771	0.000	0.000	11.756
A730054Jz	3.565	5.360	10.753	0.000	0.000	11.729
Uqcr10	-1.754	10.163	-10.753	0.000	0.000	11.728
Dda1	2.210	6.800	10.752	0.000	0.000	11.728
Rnf169	2.558	5.385	10.747	0.000	0.000	11.720
D10Jhu81e	-2.072	8.461	-10.719	0.000	0.000	11.678
Dse	2.803	5.315	10.680	0.000	0.000	11.618
Slit3	3.804	5.529	10.676	0.000	0.000	11.612
Dyrk3	2.436	5.127	10.676	0.000	0.000	11.612
Col8a1	4.147	6.607	10.664	0.000	0.000	11.595
Fnbp1	2.649	5.994	10.661	0.000	0.000	11.589
Grina	2.103	7.548	10.661	0.000	0.000	11.589
Ccdc80	4.338	7.187	10.638	0.000	0.000	11.555
Arg1	5.368	9.188	10.617	0.000	0.000	11.522
Fst	4.482	6.383	10.616	0.000	0.000	11.521
Zfp647	2.290	4.754	10.604	0.000	0.000	11.502
Col6a2	3.121	5.941	10.570	0.000	0.000	11.450
Capn2	2.116	9.630	10.553	0.000	0.000	11.424
Reck	1.895	4.128	10.553	0.000	0.000	11.424
Fcgr2b	3.372	7.040	10.552	0.000	0.000	11.423
Colec12	2.139	3.933	10.549	0.000	0.000	11.418
Dpy1911	3.132	7.194	10.543	0.000	0.000	11.408
Tfpi2	2.703	4.628	10.541	0.000	0.000	11.405
Zfp516	2.095	5.592	10.533	0.000	0.000	11.393
Plch2	-2.325	4.471	-10.525	0.000	0.000	11.382
Ankrd28	3.108	7.075	10.523	0.000	0.000	11.378
C1s	3.291	6.492	10.519	0.000	0.000	11.372

Fam84a	3.181	6.980	10.505	0.000	0.000	11.351
Slc1a3	-2.869	4.105	-10.501	0.000	0.000	11.345
Uqcr11	-1.774	10.290	-10.489	0.000	0.000	11.325
Pip4k2a	2.422	5.586	10.465	0.000	0.000	11.290
Antxr2	3.736	8.369	10.455	0.000	0.000	11.273
Ly86	3.535	7.259	10.452	0.000	0.000	11.269
Clec7a	4.300	7.121	10.444	0.000	0.000	11.257
LOC100038	4.729	6.237	10.444	0.000	0.000	11.256
Thbs1	4.860	7.593	10.442	0.000	0.000	11.253
Alg10b	1.649	5.147	10.404	0.000	0.000	11.195
Pdpn	3.988	5.894	10.387	0.000	0.000	11.168
S100a8	5.196	7.110	10.354	0.000	0.000	11.117
Dusp4	3.180	8.300	10.340	0.000	0.000	11.095
Irak2	1.983	6.171	10.338	0.000	0.000	11.093
Arhgap23	2.408	5.290	10.334	0.000	0.000	11.085
Emp1	3.651	9.764	10.326	0.000	0.000	11.073
Sipa1	2.274	5.164	10.316	0.000	0.000	11.058
AU020206	2.461	6.534	10.312	0.000	0.000	11.051
Nuak1	2.542	5.038	10.290	0.000	0.000	11.017
Mex3b	2.949	4.738	10.283	0.000	0.000	11.006
1700017BC	2.864	6.170	10.280	0.000	0.000	11.002
231002901	1.565	4.753	10.276	0.000	0.000	10.996
Dennd5a	3.689	7.629	10.268	0.000	0.000	10.982
Lsp1	3.159	6.513	10.236	0.000	0.000	10.932
1110012J1	2.828	7.320	10.224	0.000	0.000	10.914
5430404G1	2.989	4.856	10.224	0.000	0.000	10.913
LOC632664	3.272	6.498	10.217	0.000	0.000	10.902
Gp49a	4.274	8.260	10.214	0.000	0.000	10.897
Zfp750	-1.984	4.564	-10.211	0.000	0.000	10.893
Vcan	3.971	5.868	10.203	0.000	0.000	10.880
Gpihbp1	3.705	5.670	10.200	0.000	0.000	10.876
2310028H2	1.411	4.419	10.184	0.000	0.000	10.851
Hsd11b1	3.067	6.493	10.180	0.000	0.000	10.844
Scp2	-1.649	3.495	-10.170	0.000	0.000	10.829
Vamp5	3.206	6.937	10.160	0.000	0.000	10.813
D630004K1	-4.774	5.219	-10.141	0.000	0.000	10.782
Fstl3	2.304	5.616	10.114	0.000	0.000	10.740
Clqa	5.431	7.594	10.109	0.000	0.000	10.733
Tgfb1	4.609	6.229	10.108	0.000	0.000	10.730
Olfm1	3.140	5.331	10.085	0.000	0.000	10.695
Fam126a	2.800	5.573	10.080	0.000	0.000	10.686
Dok1	3.563	6.100	10.077	0.000	0.000	10.681
Brp44	-1.598	9.136	-10.076	0.000	0.000	10.680
Acta2	4.579	8.215	10.068	0.000	0.000	10.667
Rasal2	2.082	6.037	10.063	0.000	0.000	10.659
Apob48r	3.614	5.561	10.044	0.000	0.000	10.629
Nkx6-2	-2.953	3.964	-10.039	0.000	0.000	10.621
2310022BC	1.949	6.818	10.033	0.000	0.000	10.611
Efna4	3.142	5.765	10.017	0.000	0.000	10.586
Akap12	3.789	6.053	10.009	0.000	0.000	10.572

Gda	3.041	4.914	10.000	0.000	0.000	10.559
Zwint	3.137	8.056	9.977	0.000	0.000	10.522
Trip10	1.765	7.877	9.949	0.000	0.000	10.477
Cbx6	2.301	6.024	9.942	0.000	0.000	10.466
Slc22a1	-2.127	4.374	-9.933	0.000	0.000	10.452
Usp6n1	1.960	5.643	9.928	0.000	0.000	10.444
Sema4c	2.318	5.518	9.926	0.000	0.000	10.440
Tnfaip2	3.769	6.149	9.916	0.000	0.000	10.423
Kif26b	2.950	4.368	9.913	0.000	0.000	10.420
Bnip1	-2.652	3.689	-9.897	0.000	0.000	10.394
Mettl6	1.080	5.796	9.890	0.000	0.000	10.383
Sh3bp2	1.978	5.866	9.873	0.000	0.000	10.356
Ift57	2.126	6.613	9.871	0.000	0.000	10.352
Xdh	3.206	6.487	9.849	0.000	0.000	10.316
Atp5k	-1.214	11.046	-9.844	0.000	0.000	10.308
Gnb4	3.186	4.845	9.828	0.000	0.000	10.282
Arhgap17	1.246	6.576	9.828	0.000	0.000	10.282
Tfpi	1.689	3.693	9.827	0.000	0.000	10.280
Rap2b	2.584	6.822	9.823	0.000	0.000	10.273
Adam8	3.384	5.364	9.822	0.000	0.000	10.273
Ctla2b	4.263	5.516	9.812	0.000	0.000	10.256
Yipf3	-1.343	4.496	-9.808	0.000	0.000	10.250
F13a1	4.559	7.077	9.801	0.000	0.000	10.238
4432414F	2.029	5.495	9.800	0.000	0.000	10.237
Slc39a6	3.477	7.365	9.792	0.000	0.000	10.224
Rdx	4.264	7.331	9.769	0.000	0.000	10.187
Ptprs	2.262	7.799	9.756	0.000	0.000	10.165
AU015263	2.633	4.634	9.750	0.000	0.000	10.156
Cdh2	4.709	5.491	9.744	0.000	0.000	10.146
Chsy1	4.085	7.662	9.716	0.000	0.000	10.100
Sspn	3.879	5.549	9.712	0.000	0.000	10.093
Phlda3	3.459	6.483	9.711	0.000	0.000	10.092
Fermt2	3.703	7.046	9.709	0.000	0.000	10.088
Cyba	3.891	8.941	9.696	0.000	0.000	10.067
S100pbp	2.641	5.257	9.687	0.000	0.000	10.053
Arl4c	4.325	7.631	9.685	0.000	0.000	10.050
Ndufv3	-1.450	10.875	-9.679	0.000	0.000	10.040
Acaala	-1.953	4.438	-9.661	0.000	0.000	10.011
A130064L1	2.479	5.938	9.661	0.000	0.000	10.011
Ptk2b	1.910	6.540	9.661	0.000	0.000	10.010
I200003I1	2.878	11.420	9.648	0.000	0.000	9.990
Irx3	3.945	6.621	9.648	0.000	0.000	9.989
Mcam	2.402	4.989	9.623	0.000	0.000	9.947
Pea15a	2.626	8.014	9.613	0.000	0.000	9.931
Ndufa1	-1.249	11.049	-9.612	0.000	0.000	9.930
Clec4d	3.285	5.910	9.607	0.000	0.000	9.922
Dkk3	3.509	6.045	9.587	0.000	0.000	9.889
Rcsd1	1.600	5.131	9.569	0.000	0.000	9.860
Ext1	1.920	7.701	9.566	0.000	0.000	9.854
Gas8	1.903	5.282	9.558	0.000	0.000	9.841

Zeb2	3.521	5.647	9.556	0.000	0.000	9.838
Illr2	3.936	6.538	9.556	0.000	0.000	9.837
Socs5	2.937	7.622	9.550	0.000	0.000	9.828
Chchd10	-3.974	8.963	-9.536	0.000	0.000	9.805
Lix1l	2.493	5.219	9.519	0.000	0.000	9.777
Aes	-1.425	7.681	-9.510	0.000	0.000	9.762
Ndufb10	-1.544	9.489	-9.488	0.000	0.000	9.726
Slc25a30	2.896	5.522	9.485	0.000	0.000	9.720
Ndufa5	-1.809	9.123	-9.462	0.000	0.000	9.682
Epha2	2.812	7.399	9.458	0.000	0.000	9.676
Lrp12	2.105	5.362	9.452	0.000	0.000	9.666
Usf1	2.325	5.818	9.447	0.000	0.000	9.657
5930433N1	2.099	4.896	9.431	0.000	0.000	9.631
Arhgdig	-3.558	6.516	-9.425	0.000	0.000	9.620
Mical1	2.262	5.274	9.422	0.000	0.000	9.616
Pdgfrb	1.678	5.087	9.417	0.000	0.000	9.607
Rin3	1.899	5.168	9.409	0.000	0.000	9.593
Sirpa	2.625	5.914	9.396	0.000	0.000	9.572
6030422H2	2.373	4.945	9.380	0.000	0.000	9.546
F3	3.991	7.405	9.374	0.000	0.000	9.535
Itih5	3.748	6.014	9.372	0.000	0.000	9.533
Twist1	3.443	5.080	9.364	0.000	0.000	9.519
Mobk12a	1.596	6.350	9.362	0.000	0.000	9.515
Cytsb	2.433	6.515	9.361	0.000	0.000	9.513
Maff	2.447	7.673	9.359	0.000	0.000	9.511
Ccbe1	3.829	5.632	9.353	0.000	0.000	9.500
Plin2	2.598	9.025	9.352	0.000	0.000	9.499
Ndufb7	-1.282	10.489	-9.337	0.000	0.000	9.473
1110059G	-2.312	3.488	-9.333	0.000	0.000	9.466
Tmem71	3.010	5.426	9.325	0.000	0.000	9.454
Hint2	-1.424	8.144	-9.320	0.000	0.000	9.445
Plcd3	2.293	5.625	9.303	0.000	0.000	9.416
Clqc	4.493	7.051	9.302	0.000	0.000	9.414
Rbpms	2.895	6.595	9.298	0.000	0.000	9.408
Lpgat1	3.637	8.013	9.296	0.000	0.000	9.404
Lrrc31	-3.239	4.346	-9.285	0.000	0.000	9.387
Klhl6	3.245	4.932	9.280	0.000	0.000	9.377
A4gnt	-6.244	5.652	-9.272	0.000	0.000	9.364
Cyth2	1.777	8.508	9.262	0.000	0.000	9.347
AU018778	-5.126	5.095	-9.255	0.000	0.000	9.335
Ahnak2	3.299	7.482	9.252	0.000	0.000	9.331
Afm	-2.040	3.727	-9.237	0.000	0.000	9.305
C2cd4b	-2.816	4.851	-9.235	0.000	0.000	9.302
Ptprb	2.697	5.837	9.225	0.000	0.000	9.286
Zfp281	2.046	5.884	9.225	0.000	0.000	9.285
Fez2	2.688	6.661	9.223	0.000	0.000	9.282
1200009IC	2.423	4.733	9.222	0.000	0.000	9.281
Spred1	1.944	8.420	9.216	0.000	0.000	9.270
Ndufb8	-1.253	10.499	-9.210	0.000	0.000	9.260
Arrb2	1.933	6.999	9.209	0.000	0.000	9.258

Fes	2.053	6.061	9.196	0.000	0.000	9.236
I117rd	2.290	4.506	9.195	0.000	0.000	9.235
Hmga2-ps1	3.527	5.651	9.189	0.000	0.000	9.225
Nr0b2	-3.632	4.487	-9.185	0.000	0.000	9.217
Fosb	-3.089	4.625	-9.172	0.000	0.000	9.195
Cd99	3.048	7.152	9.157	0.000	0.000	9.169
LOC100046	-1.236	10.544	-9.152	0.000	0.000	9.161
Efnb2	3.425	7.807	9.150	0.000	0.000	9.158
Myb	-2.624	4.424	-9.150	0.000	0.000	9.157
Cdc42bpa	1.038	6.100	9.141	0.000	0.000	9.142
Htra1	2.982	7.330	9.140	0.000	0.000	9.140
LOC100048	2.035	5.957	9.122	0.000	0.000	9.110
Ndufb9	-1.458	10.964	-9.119	0.000	0.000	9.106
Zbtb20	1.917	6.644	9.116	0.000	0.000	9.100
Stxbp1	2.776	5.459	9.114	0.000	0.000	9.096
Hamp2	-5.783	5.023	-9.113	0.000	0.000	9.094
Tlr13	2.462	4.650	9.112	0.000	0.000	9.094
AU019559	2.018	4.640	9.104	0.000	0.000	9.079
Prr3	1.621	4.444	9.100	0.000	0.000	9.073
Slc20a2	2.839	7.302	9.098	0.000	0.000	9.069
Rhbdf1	2.564	7.781	9.096	0.000	0.000	9.066
Runx1	2.051	8.952	9.089	0.000	0.000	9.053
Pf4	3.439	7.124	9.079	0.000	0.000	9.037
Sumf2	2.105	5.558	9.059	0.000	0.000	9.002
Fgfr1	3.068	5.843	9.052	0.000	0.000	8.991
Ank	5.080	7.494	9.049	0.000	0.000	8.986
Frmd6	2.761	7.226	9.045	0.000	0.000	8.978
Itgb2	3.625	6.938	9.040	0.000	0.000	8.969
Slc25a35	-4.208	4.758	-9.038	0.000	0.000	8.966
B3galnt1	2.960	4.660	9.018	0.000	0.000	8.932
Dkk2	3.080	5.066	9.003	0.000	0.000	8.907
Mmp11	2.272	4.492	8.983	0.000	0.000	8.872
LOC640441	4.830	8.584	8.954	0.000	0.000	8.821
C81615	2.413	4.677	8.934	0.000	0.000	8.788
Lrpap1	-1.383	8.245	-8.929	0.000	0.000	8.779
Csgalnact	2.897	7.566	8.903	0.000	0.000	8.734
Mrpl42	-1.897	9.753	-8.903	0.000	0.000	8.733
Phldb2	2.809	8.526	8.900	0.000	0.000	8.729
Ctsz	2.391	9.906	8.894	0.000	0.000	8.718
Parp8	2.834	5.100	8.884	0.000	0.000	8.700
Polr1a	1.604	6.458	8.876	0.000	0.000	8.686
Ptpn1	1.247	8.097	8.872	0.000	0.000	8.680
Ifi2712b	-3.735	6.251	-8.865	0.000	0.000	8.668
Zdhhc15	1.924	4.965	8.864	0.000	0.000	8.665
Selp	2.320	4.851	8.861	0.000	0.000	8.661
Pramef8	2.157	4.472	8.853	0.000	0.000	8.647
3110049Jz	-3.077	4.425	-8.850	0.000	0.000	8.642
Cic	2.037	6.312	8.843	0.000	0.000	8.629
Pank3	1.929	5.943	8.842	0.000	0.000	8.628
D630002Gc	-1.112	2.944	-8.830	0.000	0.000	8.607

Sytl1	-3.051	4.737	-8.810	0.000	0.000	8.573
St6galnac	2.042	5.092	8.793	0.000	0.000	8.542
Itga2	2.852	5.361	8.784	0.000	0.000	8.526
Fcgr4	3.991	5.466	8.782	0.000	0.000	8.523
Rab34	2.900	7.568	8.779	0.000	0.000	8.517
Icam1	2.875	6.074	8.777	0.000	0.000	8.514
LOC552904	2.034	5.770	8.776	0.000	0.000	8.514
Pilrb1	3.626	6.068	8.774	0.000	0.000	8.508
Ctxnl	2.749	5.179	8.773	0.000	0.000	8.508
Ppih	1.679	5.223	8.766	0.000	0.000	8.495
Large	2.573	6.820	8.765	0.000	0.000	8.493
Lama4	2.155	5.585	8.761	0.000	0.000	8.487
9630010G1	2.293	7.875	8.758	0.000	0.000	8.482
Fam195a	-2.531	7.019	-8.757	0.000	0.000	8.480
Tnnt2	5.142	6.377	8.756	0.000	0.000	8.477
Agrn	2.221	8.690	8.748	0.000	0.000	8.464
Fam198b	2.953	5.022	8.746	0.000	0.000	8.460
Caprin2	2.324	5.787	8.724	0.000	0.000	8.422
Fhl	-1.721	9.893	-8.718	0.000	0.000	8.412
Git2	1.584	7.579	8.694	0.000	0.000	8.370
AA409587	1.980	6.048	8.694	0.000	0.000	8.369
Clqtnf5	2.094	5.614	8.694	0.000	0.000	8.369
Pdk2	-1.455	4.243	-8.691	0.000	0.000	8.363
Tyrobp	4.414	7.848	8.688	0.000	0.000	8.359
1700024N2	-2.346	4.012	-8.681	0.000	0.000	8.346
4931406P1	2.232	6.622	8.680	0.000	0.000	8.344
Cnn2	3.862	7.904	8.679	0.000	0.000	8.343
Dnajb6	1.917	7.527	8.669	0.000	0.000	8.324
Gngl3	-2.578	3.781	-8.667	0.000	0.000	8.321
Ctdpl	1.555	6.684	8.666	0.000	0.000	8.320
5330409NC	-2.084	4.128	-8.662	0.000	0.000	8.312
Ehbp111	2.137	4.848	8.658	0.000	0.000	8.305
Acvr1	2.180	5.353	8.656	0.000	0.000	8.302
Ankrd50	3.246	8.052	8.643	0.000	0.000	8.280
Palmd	4.387	7.693	8.639	0.000	0.000	8.273
Hmgcl11	3.230	5.398	8.638	0.000	0.000	8.270
St6galnac	-3.036	6.341	-8.637	0.000	0.000	8.268
Sox4	2.662	8.115	8.633	0.000	0.000	8.262
Lepr	4.281	5.293	8.632	0.000	0.000	8.260
Clec4n	4.328	6.450	8.610	0.000	0.000	8.220
Cyp2c55	-1.491	4.207	-8.589	0.000	0.000	8.184
1700040LC	-2.778	4.344	-8.575	0.000	0.000	8.159
5830411K2	2.214	4.637	8.575	0.000	0.000	8.158
3000002C1	1.090	12.326	8.571	0.000	0.000	8.152
Cd248	1.506	5.022	8.568	0.000	0.000	8.147
Mdk	2.599	4.481	8.564	0.000	0.000	8.139
Slc16a5	-3.487	4.186	-8.561	0.000	0.000	8.134
Rdh10	2.597	9.756	8.557	0.000	0.000	8.126
Phyh	-3.181	9.105	-8.556	0.000	0.000	8.124
AW987390	2.099	5.633	8.554	0.000	0.000	8.121

Man2a2	2.638	6.221	8.552	0.000	0.000	8.118
Mex3a	1.923	5.562	8.549	0.000	0.000	8.113
Plxdc2	2.430	5.790	8.547	0.000	0.000	8.110
Homer3	1.756	4.781	8.547	0.000	0.000	8.108
Kif3a	2.368	6.851	8.546	0.000	0.000	8.106
9030418K	1.977	4.566	8.541	0.000	0.000	8.099
Prosl	2.610	6.558	8.507	0.000	0.000	8.037
Ces1	-1.486	3.226	-8.505	0.000	0.000	8.034
Lcn2	5.611	6.871	8.505	0.000	0.000	8.034
Cr1f2	2.505	6.144	8.504	0.000	0.000	8.032
Thbs3	1.943	4.983	8.502	0.000	0.000	8.028
Apoo	-1.899	8.104	-8.499	0.000	0.000	8.023
Gjb3	2.524	5.007	8.498	0.000	0.000	8.021
Pigy1	-1.451	7.713	-8.496	0.000	0.000	8.018
Mxra8	4.037	7.471	8.484	0.000	0.000	7.997
Arhgap24	-2.241	5.426	-8.482	0.000	0.000	7.993
Ndufv1	-1.210	9.867	-8.473	0.000	0.000	7.978
Sned1	2.821	4.497	8.469	0.000	0.000	7.970
H2-Ke6	-2.154	7.059	-8.469	0.000	0.000	7.969
Glb112	-2.317	4.011	-8.461	0.000	0.000	7.955
Aebp1	3.363	5.892	8.454	0.000	0.000	7.943
Plod1	2.052	6.056	8.448	0.000	0.000	7.932
1100001G	3.874	5.436	8.448	0.000	0.000	7.932
Agap1	2.431	6.782	8.448	0.000	0.000	7.932
9930017N	1.958	5.703	8.443	0.000	0.000	7.923
Porcn	2.856	7.263	8.439	0.000	0.000	7.916
Elk3	2.418	4.623	8.437	0.000	0.000	7.912
Eid2	2.384	7.198	8.434	0.000	0.000	7.907
AU042950	1.693	4.512	8.428	0.000	0.000	7.896
D230019N	1.381	4.680	8.420	0.000	0.000	7.882
Fkbp14	2.232	5.882	8.415	0.000	0.000	7.872
Ubxn10	-2.003	3.834	-8.412	0.000	0.000	7.868
Fcer1g	3.737	6.976	8.410	0.000	0.000	7.863
Lhfp12	2.059	5.059	8.408	0.000	0.000	7.861
8-Sep	1.186	6.754	8.401	0.000	0.000	7.848
2010107E	-1.134	10.316	-8.395	0.000	0.000	7.838
Ksr1	1.569	4.752	8.395	0.000	0.000	7.837
Nb11	3.621	7.220	8.394	0.000	0.000	7.835
Aox1	3.387	6.016	8.392	0.000	0.000	7.832
Serpinh1	3.171	8.011	8.384	0.000	0.000	7.817
A530088H	-2.335	4.052	-8.380	0.000	0.000	7.810
Zfp532	2.840	6.318	8.379	0.000	0.000	7.809
Lamc2	2.725	7.952	8.378	0.000	0.000	7.806
Fkbp1a	2.103	10.085	8.368	0.000	0.000	7.789
59304300	1.950	3.774	8.366	0.000	0.000	7.784
Ssh1	1.296	5.444	8.363	0.000	0.000	7.780
Cttn	2.597	6.371	8.360	0.000	0.000	7.774
Cdk9	1.254	9.068	8.360	0.000	0.000	7.774
Kdm6b	1.798	5.813	8.350	0.000	0.000	7.757
Adamts1	3.383	6.081	8.349	0.000	0.000	7.755

My19	4.169	6.092	8.336	0.000	0.000	7.730
Rnpep	-1.824	7.036	-8.321	0.000	0.000	7.703
Acacb	-3.528	4.839	-8.319	0.000	0.000	7.701
2200001I1	-2.427	4.106	-8.310	0.000	0.000	7.683
Ppargclb	-3.613	6.863	-8.306	0.000	0.000	7.676
Limd2	2.058	7.514	8.301	0.000	0.000	7.667
Bnip2	2.384	8.308	8.294	0.000	0.000	7.655
Angpt14	3.901	8.205	8.291	0.000	0.000	7.649
Adamts4	2.579	5.450	8.287	0.000	0.000	7.642
Csf1r	4.658	8.437	8.286	0.000	0.000	7.641
Cd34	2.581	5.297	8.279	0.000	0.000	7.627
Ldb1	2.029	6.973	8.275	0.000	0.000	7.621
Hsbp111	-1.857	3.800	-8.265	0.000	0.000	7.603
Bacel	1.861	7.043	8.259	0.000	0.000	7.591
Mapklip11	2.564	6.441	8.259	0.000	0.000	7.591
Spon1	2.079	5.552	8.253	0.000	0.000	7.580
Tgfb1	2.442	5.076	8.250	0.000	0.000	7.575
Foxj3	1.240	7.991	8.245	0.000	0.000	7.567
Fabp3	-5.570	5.946	-8.241	0.000	0.000	7.558
4930445K1	1.084	4.864	8.235	0.000	0.000	7.547
Inhbb	2.647	6.194	8.233	0.000	0.000	7.543
Cdy1	2.395	5.460	8.231	0.000	0.000	7.541
Cpxml	3.948	6.126	8.230	0.000	0.000	7.538
Tnfrsf23	2.464	4.848	8.219	0.000	0.000	7.519
Slc25a5	-1.459	11.440	-8.208	0.000	0.000	7.499
Ndufv2	-1.250	10.813	-8.205	0.000	0.000	7.492
Prrt1	-1.196	3.532	-8.188	0.000	0.000	7.462
A130012E1	1.657	5.126	8.185	0.000	0.000	7.456
Lama3	4.547	6.729	8.185	0.000	0.000	7.456
Phyhd1	1.836	5.530	8.182	0.000	0.000	7.452
Srgn	4.407	9.511	8.179	0.000	0.000	7.445
Ltk	-2.119	4.229	-8.176	0.000	0.000	7.440
Ddah2	2.694	6.598	8.176	0.000	0.000	7.439
Mcee	-2.082	7.459	-8.165	0.000	0.000	7.419
Ddit4	2.353	8.587	8.164	0.000	0.000	7.417
Ncoa5	1.057	6.127	8.160	0.000	0.000	7.411
Rgs16	2.674	5.021	8.159	0.000	0.000	7.410
Pogk	1.536	5.876	8.151	0.000	0.000	7.394
Cep120	1.731	6.266	8.148	0.000	0.000	7.389
Pard3b	-1.675	5.178	-8.145	0.000	0.000	7.383
Socs6	2.245	5.944	8.144	0.000	0.000	7.382
Aldh5a1	-1.942	5.065	-8.143	0.000	0.000	7.379
Ssh2	2.112	6.970	8.142	0.000	0.000	7.378
Ppl	2.540	6.459	8.140	0.000	0.000	7.375
Celf4	1.860	4.963	8.129	0.000	0.000	7.353
Fam65a	2.167	6.351	8.123	0.000	0.000	7.343
Jun	-2.206	8.919	-8.119	0.000	0.000	7.335
Dzip11	2.193	5.924	8.116	0.000	0.000	7.330
Itpka	-2.754	4.298	-8.115	0.000	0.000	7.328
Fyn	1.713	5.390	8.102	0.000	0.000	7.305

Ndufb2	-1.524	9.044	-8.099	0.000	0.000	7.299
Mnt	1.419	7.892	8.099	0.000	0.000	7.299
Prrx2	3.952	5.640	8.093	0.000	0.000	7.288
Fgd5	2.506	4.886	8.089	0.000	0.000	7.280
Aim1	2.389	6.543	8.085	0.000	0.000	7.274
Kcnk16	-1.178	3.349	-8.083	0.000	0.000	7.269
Hspa41	2.725	7.576	8.081	0.000	0.000	7.266
LOC100046	2.314	8.563	8.072	0.000	0.000	7.249
Mfap2	2.150	4.930	8.061	0.000	0.000	7.229
Prkcdbp	2.736	6.598	8.058	0.000	0.000	7.224
B2302140C	2.794	7.079	8.058	0.000	0.000	7.223
Pfdn1	2.468	9.236	8.055	0.000	0.000	7.218
Net1	2.443	7.668	8.053	0.000	0.000	7.214
Lim2	-1.116	3.521	-8.045	0.000	0.000	7.199
Tgif1	2.435	8.299	8.044	0.000	0.000	7.197
Pdgfr1	3.203	5.384	8.042	0.000	0.000	7.194
Zfp90	1.963	6.393	8.034	0.000	0.000	7.179
Atxn7	-1.422	4.502	-8.033	0.000	0.000	7.176
Tpst2	2.321	7.639	8.029	0.000	0.000	7.169
Ankrd24	-1.347	5.729	-8.024	0.000	0.000	7.161
Rab2b	1.760	4.387	8.012	0.000	0.000	7.139
Crispld2	3.246	4.949	8.009	0.000	0.000	7.134
Fbn2	2.681	5.041	8.005	0.000	0.000	7.126
Vash1	1.758	4.962	8.004	0.000	0.000	7.123
Pygl	3.105	6.540	7.987	0.000	0.000	7.093
Zfp821	1.253	5.099	7.985	0.000	0.000	7.089
Dram1	3.132	5.782	7.984	0.000	0.000	7.087
Ndufs7	-1.549	9.941	-7.982	0.000	0.000	7.083
Olfml2b	2.720	6.441	7.963	0.000	0.000	7.047
Nup62	1.678	7.232	7.961	0.000	0.000	7.043
LOC100047	-4.838	5.187	-7.949	0.000	0.000	7.022
2310040G2	-1.140	5.200	-7.942	0.000	0.000	7.009
Spred3	2.094	4.887	7.940	0.000	0.000	7.006
Cira	2.575	4.884	7.935	0.000	0.000	6.995
Crtc3	2.038	6.132	7.933	0.000	0.000	6.993
Smox	2.750	6.888	7.932	0.000	0.000	6.990
Tagln	3.917	7.862	7.925	0.000	0.000	6.976
Arid5b	2.501	6.604	7.917	0.000	0.000	6.962
Arl8a	1.761	6.804	7.912	0.000	0.000	6.953
Mmp12	3.823	6.431	7.909	0.000	0.000	6.947
Zmynd10	-1.134	3.239	-7.908	0.000	0.000	6.946
Pear1	1.682	5.682	7.904	0.000	0.000	6.938
Rbpms2	2.765	5.572	7.903	0.000	0.000	6.936
Htra3	1.963	6.184	7.897	0.000	0.000	6.926
Ier3	3.116	9.613	7.897	0.000	0.000	6.925
Lilrb3	2.319	4.668	7.893	0.000	0.000	6.918
Myo5a	3.375	5.164	7.889	0.000	0.000	6.911
AU018552	2.397	4.720	7.888	0.000	0.000	6.907
Pank1	-3.099	5.481	-7.880	0.000	0.000	6.893
Skap2	1.674	8.611	7.879	0.000	0.000	6.892

Emcn	2.870	5.672	7.876	0.000	0.000	6.885
Txnrd3	1.675	4.969	7.874	0.000	0.000	6.882
Fzd4	-2.297	5.650	-7.873	0.000	0.000	6.880
Gsdma2	-5.209	5.418	-7.872	0.000	0.000	6.878
Cox5b	-1.072	10.890	-7.871	0.000	0.000	6.877
Syt14	-3.302	4.815	-7.871	0.000	0.000	6.876
Bag2	2.241	6.296	7.866	0.000	0.000	6.866
Retsat	-2.254	6.765	-7.865	0.000	0.000	6.866
Gvin1	4.322	6.386	7.864	0.000	0.000	6.862
Cycs	-1.987	9.426	-7.860	0.000	0.000	6.855
Adam15	1.527	4.102	7.855	0.000	0.000	6.846
Pogz	1.738	5.407	7.854	0.000	0.000	6.845
Nhedc2	-2.766	4.531	-7.853	0.000	0.000	6.843
Sod2	-1.666	8.920	-7.851	0.000	0.000	6.839
1810049H1	-2.062	6.791	-7.847	0.000	0.000	6.832
493340401	-1.252	4.199	-7.846	0.000	0.000	6.829
Pcbp3	1.808	5.845	7.839	0.000	0.000	6.817
Kctd18	1.212	5.071	7.831	0.000	0.000	6.802
Tpm4	2.056	10.812	7.823	0.000	0.000	6.787
Btbd7	1.665	5.245	7.821	0.000	0.000	6.783
Bbs12	2.430	4.981	7.819	0.000	0.000	6.779
Frzb	2.868	4.555	7.818	0.000	0.000	6.777
Igsf6	2.270	4.314	7.815	0.000	0.000	6.771
Ptpn23	1.295	5.140	7.807	0.000	0.000	6.756
Stab1	2.206	6.136	7.806	0.000	0.000	6.755
Kcne2	-5.861	4.695	-7.803	0.000	0.000	6.750
Ggtal	2.895	6.708	7.797	0.000	0.000	6.738
Adamts9	1.921	4.472	7.789	0.000	0.000	6.722
Zyx	2.261	6.857	7.776	0.000	0.000	6.698
Sh2d6	-2.236	3.647	-7.773	0.000	0.000	6.693
Loxl3	3.615	6.005	7.772	0.000	0.000	6.690
Jak1	1.236	7.596	7.768	0.000	0.000	6.683
AI662270	2.434	4.640	7.745	0.000	0.000	6.640
Hmox1	2.487	5.887	7.734	0.000	0.000	6.619
Fam174b	-3.905	5.975	-7.734	0.000	0.000	6.619
Klkb1	-1.013	3.376	-7.733	0.000	0.000	6.617
1700019DC	-2.210	3.644	-7.726	0.000	0.000	6.604
4930565B1	1.834	5.284	7.722	0.000	0.000	6.597
Ulk2	1.706	5.232	7.718	0.000	0.000	6.589
Pik3ca	2.529	6.625	7.718	0.000	0.000	6.588
AI746446	-1.055	3.997	-7.716	0.000	0.000	6.585
Lmna	1.565	8.889	7.715	0.000	0.000	6.582
Enpp5	-2.844	6.856	-7.713	0.000	0.000	6.580
Ccl9	4.010	8.052	7.712	0.000	0.000	6.577
Etv6	1.171	5.115	7.710	0.000	0.000	6.574
Cbr1	-2.344	9.615	-7.706	0.000	0.000	6.566
Gm11428	4.750	7.407	7.705	0.000	0.000	6.564
Phlpp2	1.158	5.226	7.700	0.000	0.000	6.554
Gtdcl	1.778	5.893	7.695	0.000	0.000	6.545
Pitpnc1	2.261	5.644	7.692	0.000	0.000	6.539

Atp5h	-1.018	11.077	-7.690	0.000	0.000	6.536
Klf13	1.911	7.731	7.683	0.000	0.000	6.522
Tmem150a	1.724	6.433	7.680	0.000	0.000	6.517
84304370C	1.434	3.919	7.676	0.000	0.000	6.509
D10Ert61	2.211	5.325	7.675	0.000	0.000	6.508
Hic1	1.204	4.416	7.672	0.000	0.000	6.502
Cyb5r3	1.819	9.507	7.664	0.000	0.000	6.486
BC004004	-1.111	8.947	-7.650	0.000	0.000	6.460
Tmem140	2.143	5.286	7.647	0.000	0.000	6.454
D030029Jz	2.514	7.447	7.630	0.000	0.000	6.422
Chrm1	-1.724	4.161	-7.627	0.000	0.000	6.415
LOC10004z	2.304	5.278	7.624	0.000	0.000	6.410
Fam20a	2.585	5.712	7.618	0.000	0.000	6.400
Grn	1.085	10.579	7.615	0.000	0.000	6.394
St8sia4	2.811	5.305	7.614	0.000	0.000	6.392
Zswim4	1.403	4.594	7.613	0.000	0.000	6.389
Cav1	3.226	7.256	7.610	0.000	0.000	6.384
Zfp740	1.691	6.915	7.606	0.000	0.000	6.377
Sh3kbp1	2.586	5.509	7.606	0.000	0.000	6.376
Casp3	2.854	5.534	7.605	0.000	0.000	6.375
LOC100047	2.232	6.598	7.604	0.000	0.000	6.372
Arap3	3.424	5.337	7.598	0.000	0.000	6.362
Gata4	-3.892	5.241	-7.596	0.000	0.000	6.357
Flot2	2.032	5.888	7.596	0.000	0.000	6.357
Cdk6	3.872	8.016	7.593	0.000	0.000	6.351
Rab12	1.905	7.057	7.592	0.000	0.000	6.350
Sh2d2a	-1.110	3.509	-7.589	0.000	0.000	6.344
Prss53	-1.244	3.026	-7.589	0.000	0.000	6.344
Anxa5	1.850	10.697	7.586	0.000	0.000	6.339
Baspl	4.340	9.960	7.585	0.000	0.000	6.336
Mthfd21	2.674	6.565	7.583	0.000	0.000	6.332
Tmem8	-3.513	5.767	-7.579	0.000	0.000	6.324
1700020C1	-3.177	5.325	-7.575	0.000	0.000	6.318
LOC10004z	-8.212	7.524	-7.572	0.000	0.000	6.312
Cyp4f39	-1.369	2.945	-7.569	0.000	0.000	6.306
Pak2	1.742	6.072	7.568	0.000	0.000	6.305
Chi314	-4.819	4.849	-7.567	0.000	0.000	6.303
Gstcd	1.965	6.629	7.562	0.000	0.000	6.292
Ch25h	1.836	4.769	7.558	0.000	0.000	6.285
Plekhg3	1.633	6.222	7.557	0.000	0.000	6.283
Lif	2.693	5.021	7.544	0.000	0.000	6.259
Ncf2	2.636	5.599	7.537	0.000	0.000	6.245
Zcchc24	3.130	6.297	7.537	0.000	0.000	6.245
Bid	2.585	6.813	7.537	0.000	0.000	6.245
Fkbp5	2.770	7.786	7.532	0.000	0.000	6.236
Ankrd11	1.388	8.244	7.525	0.000	0.000	6.222
2510022Dz	-1.352	5.086	-7.524	0.000	0.000	6.220
Arhgef2	1.616	5.945	7.524	0.000	0.000	6.219
Ndufa3	-1.402	10.236	-7.521	0.000	0.000	6.215
Uqcrfs1	-1.334	10.107	-7.520	0.000	0.000	6.213

Kdm5a	2.434	7.492	7.519	0.000	0.000	6.210
Myo9b	1.313	7.772	7.499	0.000	0.000	6.173
Hexb	2.908	7.767	7.493	0.000	0.000	6.160
Zfand2a	2.592	8.059	7.493	0.000	0.000	6.160
Tmem132a	1.972	5.413	7.492	0.000	0.000	6.158
Cd14	3.627	8.469	7.490	0.000	0.000	6.154
Fcgrt	2.586	6.622	7.485	0.000	0.000	6.145
Clasp1	1.457	4.330	7.484	0.000	0.000	6.143
Ankrd37	3.389	5.291	7.484	0.000	0.000	6.142
Enah	1.903	4.528	7.483	0.000	0.000	6.142
E330018Dc	2.016	6.207	7.477	0.000	0.000	6.130
Srcap	1.493	5.451	7.476	0.000	0.000	6.128
Nckap11	2.217	5.585	7.470	0.000	0.000	6.115
Gtf3c4	1.201	6.930	7.464	0.000	0.000	6.104
Crlf1	3.694	6.462	7.455	0.000	0.000	6.088
Sox11	2.899	4.929	7.453	0.000	0.000	6.084
Grasp	3.483	7.628	7.450	0.000	0.000	6.078
Ldhb	-3.479	7.894	-7.448	0.000	0.000	6.074
Pdzn3	2.752	6.450	7.446	0.000	0.000	6.070
Fap	2.980	5.247	7.445	0.000	0.000	6.068
Tmem176a	2.803	9.067	7.443	0.000	0.000	6.063
Nrn1	4.926	7.755	7.441	0.000	0.000	6.061
Ogdh	-1.945	4.726	-7.441	0.000	0.000	6.060
Hbegf	2.567	7.750	7.434	0.000	0.000	6.047
Hp	4.207	6.708	7.425	0.000	0.000	6.029
Trip6	2.431	7.792	7.425	0.000	0.000	6.029
Ednra	1.602	4.725	7.421	0.000	0.000	6.022
Bckdhb	-2.882	6.854	-7.416	0.000	0.000	6.013
Gpr124	2.447	4.614	7.416	0.000	0.000	6.011
Zcchc4	1.655	4.280	7.416	0.000	0.000	6.011
Flot1	1.374	8.122	7.415	0.000	0.000	6.010
LOC100047	-2.601	8.265	-7.413	0.000	0.000	6.007
Rgs2	2.532	8.045	7.411	0.000	0.000	6.002
Thbd	1.981	5.338	7.409	0.000	0.000	5.999
Col12a1	2.345	5.271	7.397	0.000	0.000	5.975
Tmem89	-1.129	4.210	-7.392	0.000	0.000	5.965
Gpm6b	2.565	6.147	7.388	0.000	0.000	5.957
Dcaf15	1.393	5.806	7.384	0.000	0.000	5.950
Etfb	-1.485	9.416	-7.378	0.000	0.000	5.939
Ccdc132	1.755	4.409	7.376	0.000	0.000	5.936
Tmem176b	2.141	10.169	7.373	0.000	0.000	5.928
Fgfbp1	-5.075	6.171	-7.361	0.000	0.000	5.906
Magix	-1.234	3.507	-7.358	0.000	0.000	5.901
Mef2a	2.470	7.093	7.353	0.000	0.000	5.890
Bex2	-3.089	5.333	-7.347	0.000	0.000	5.878
Gstt1	-3.575	6.778	-7.338	0.000	0.000	5.862
Svil	2.747	7.474	7.337	0.000	0.000	5.859
Nras	2.378	8.312	7.333	0.000	0.000	5.850
Pmaip1	3.393	7.562	7.331	0.000	0.000	5.848
Ltbp2	3.874	5.925	7.331	0.000	0.000	5.847

Ahsg	-1.247	3.316	-7.329	0.000	0.000	5.844
Ptgs1	3.120	7.498	7.328	0.000	0.000	5.841
5330426P1	2.853	4.849	7.323	0.000	0.000	5.832
Pilra	2.737	5.850	7.323	0.000	0.000	5.831
Gm7901	3.240	6.680	7.319	0.000	0.000	5.824
Ptpr	2.585	5.205	7.317	0.000	0.000	5.821
Hmgal	2.195	8.969	7.303	0.000	0.000	5.793
Grb2	1.142	7.154	7.297	0.000	0.000	5.781
Pitx1	-2.315	4.225	-7.297	0.000	0.000	5.781
Epc2	1.645	7.920	7.295	0.000	0.000	5.778
Fbxl12	1.530	5.972	7.294	0.000	0.000	5.775
A930001A2	-1.523	3.282	-7.292	0.000	0.000	5.771
2010007HC	-3.371	5.606	-7.289	0.000	0.000	5.766
Flt1	2.052	5.176	7.285	0.000	0.000	5.759
Sh3bgrl3	1.876	10.633	7.284	0.000	0.000	5.755
C3ar1	2.580	4.513	7.283	0.000	0.000	5.754
Penk	3.958	6.705	7.277	0.000	0.000	5.741
Ipo9	2.361	6.304	7.274	0.000	0.000	5.736
Fam189b	2.539	6.137	7.256	0.000	0.000	5.702
Mmp14	2.468	5.326	7.255	0.000	0.000	5.699
Sumo3	1.714	9.730	7.254	0.000	0.000	5.698
1700022C2	-1.805	5.418	-7.253	0.000	0.000	5.696
Hspa2	1.928	6.069	7.252	0.000	0.000	5.694
Hk2	2.940	8.857	7.246	0.000	0.000	5.681
E130107B1	1.326	5.141	7.237	0.000	0.000	5.663
Trio	2.430	6.866	7.234	0.000	0.000	5.659
Gm5256	-2.016	8.469	-7.231	0.000	0.000	5.653
Ptpn12	2.865	8.995	7.227	0.000	0.000	5.644
Sec1414	-2.587	4.466	-7.223	0.000	0.000	5.637
Tcirgl	1.703	7.128	7.222	0.000	0.000	5.634
Cycs	-1.399	10.384	-7.219	0.000	0.000	5.629
Hps6	1.223	4.321	7.214	0.000	0.000	5.619
Flnb	2.089	9.241	7.213	0.000	0.000	5.618
Ingl	1.527	8.482	7.210	0.000	0.000	5.612
Spata1	1.690	4.347	7.202	0.000	0.000	5.597
Thap4	-1.868	8.510	-7.201	0.000	0.000	5.595
1810013A2	-1.434	4.395	-7.197	0.000	0.000	5.586
Rai14	2.378	8.179	7.194	0.000	0.000	5.581
Pprc1	1.415	6.903	7.191	0.000	0.000	5.575
Mtvr2	2.445	7.198	7.188	0.000	0.000	5.569
Csf2rb	2.433	4.739	7.188	0.000	0.000	5.568
Syp	-1.216	3.247	-7.185	0.000	0.000	5.562
H6pd	2.705	7.966	7.177	0.000	0.000	5.547
Add1	2.445	6.622	7.174	0.000	0.000	5.541
C030004M1	-1.505	3.291	-7.172	0.000	0.000	5.537
Uros	-1.691	6.585	-7.171	0.000	0.000	5.535
Epn1	-1.001	6.026	-7.164	0.000	0.000	5.521
Klk1	-6.099	5.371	-7.161	0.000	0.000	5.516
B9d2	1.484	5.212	7.160	0.000	0.000	5.514
Elac1	1.537	4.476	7.160	0.000	0.000	5.512

Itgb1	2.862	9.403	7.156	0.000	0.000	5.505
Illr1	2.620	6.222	7.147	0.000	0.000	5.487
Fam129b	2.441	8.715	7.147	0.000	0.000	5.487
Frmd8	1.645	6.527	7.144	0.000	0.000	5.482
Mettl14	1.096	6.712	7.122	0.000	0.000	5.439
49304150z	-2.883	3.710	-7.119	0.000	0.000	5.433
Gm5101	-2.038	3.486	-7.108	0.000	0.000	5.410
Eif4ebp1	2.107	8.612	7.107	0.000	0.000	5.409
Mtap4	2.278	6.987	7.107	0.000	0.000	5.409
Dgcr14	1.279	5.070	7.102	0.000	0.000	5.399
Tial	1.312	7.819	7.099	0.000	0.000	5.392
Sdhb	-1.307	10.217	-7.098	0.000	0.000	5.391
Pfkfb4	2.043	5.061	7.097	0.000	0.000	5.389
Coq4	-1.471	5.783	-7.089	0.000	0.000	5.374
Pdcd11	1.335	6.586	7.086	0.000	0.000	5.367
Zc3hav11	1.916	6.079	7.081	0.000	0.000	5.358
Gjb4	2.748	4.555	7.079	0.000	0.000	5.353
Zfp513	1.053	6.544	7.077	0.000	0.000	5.351
Ncf4	2.776	5.607	7.072	0.000	0.000	5.340
Prl2c2	4.704	5.997	7.072	0.000	0.000	5.339
Bms1	1.358	6.970	7.071	0.000	0.000	5.338
Cry1	1.396	5.936	7.067	0.000	0.000	5.330
Ttc39c	2.015	5.540	7.065	0.000	0.000	5.327
Pdp2	-1.248	4.867	-7.065	0.000	0.000	5.326
Arhgef17	2.183	4.711	7.062	0.000	0.000	5.320
Creb311	-2.396	6.458	-7.045	0.000	0.000	5.286
Tmem47	2.001	4.494	7.041	0.000	0.000	5.279
D3Wsu106e	1.906	5.365	7.035	0.000	0.000	5.266
Nudt4	2.567	7.968	7.034	0.000	0.000	5.264
Fgf1	2.686	5.512	7.031	0.000	0.000	5.259
Idh3b	-1.206	9.318	-7.026	0.000	0.000	5.249
Lsg1	1.690	7.378	7.026	0.000	0.000	5.248
Gcnt1	1.077	3.972	7.025	0.000	0.000	5.247
1110004F1	1.005	8.602	7.025	0.000	0.000	5.246
Figf	1.921	4.222	7.021	0.000	0.000	5.240
Itga3	1.633	6.308	7.019	0.000	0.000	5.234
Pip5k1a	1.926	8.277	7.017	0.000	0.000	5.231
Zfp566	1.862	4.797	7.017	0.000	0.000	5.231
Pnliprp2	-3.207	4.676	-7.011	0.000	0.000	5.220
C130051FC	1.472	4.492	6.998	0.000	0.000	5.194
Rnase1	-4.331	5.028	-6.995	0.000	0.000	5.188
Fzd2	2.234	5.192	6.992	0.000	0.000	5.180
Abca9	2.220	4.577	6.986	0.000	0.000	5.170
Tnfsf9	2.737	5.066	6.985	0.000	0.000	5.168
Dlgap4	1.236	8.295	6.983	0.000	0.000	5.164
Sqstm1	2.466	9.103	6.978	0.000	0.000	5.154
Heatr3	1.640	6.038	6.974	0.000	0.000	5.145
Rusc2	2.020	5.132	6.972	0.000	0.000	5.142
Znf512b	1.264	5.891	6.969	0.000	0.000	5.135
Dpp4	-2.648	5.151	-6.968	0.000	0.000	5.132

5730410E1	-2.939	4.237	-6.963	0.000	0.000	5.124
Pik3ip1	2.607	5.044	6.962	0.000	0.000	5.121
E230008N1	-1.530	3.884	-6.958	0.000	0.000	5.114
Ms4a4d	2.961	4.828	6.955	0.000	0.000	5.107
Rtn4	3.211	9.258	6.955	0.000	0.000	5.107
Creg1	-1.629	8.727	-6.954	0.000	0.000	5.105
Tctn2	1.175	4.448	6.950	0.000	0.000	5.098
Abcb6	-1.936	6.578	-6.946	0.000	0.000	5.090
Uqcrc2	-1.184	10.280	-6.944	0.000	0.000	5.085
Bcat2	-2.698	5.551	-6.942	0.000	0.000	5.081
Cd33	2.017	4.844	6.939	0.000	0.000	5.075
Mertk	2.204	6.000	6.935	0.000	0.000	5.069
Rab11fip5	2.857	6.402	6.927	0.000	0.000	5.052
S100a9	4.231	7.307	6.926	0.000	0.000	5.051
Atf5	2.373	6.063	6.924	0.000	0.000	5.045
L3mbt13	1.828	5.417	6.924	0.000	0.000	5.045
2810432L1	-3.975	6.003	-6.919	0.000	0.000	5.035
9430038IC	-1.101	5.282	-6.919	0.000	0.000	5.035
1700101I1	-1.194	4.007	-6.917	0.000	0.000	5.031
Oxct1	-2.931	8.344	-6.917	0.000	0.000	5.031
Rem2	2.412	5.461	6.914	0.000	0.000	5.026
Rnf145	2.673	7.169	6.911	0.000	0.000	5.020
Gm14176	1.131	9.749	6.910	0.000	0.000	5.018
Zfp322a	1.584	6.108	6.909	0.000	0.000	5.016
Ndufab1	-1.159	10.504	-6.908	0.000	0.000	5.014
Lgi2	2.053	5.572	6.908	0.000	0.000	5.013
Patz1	1.771	6.391	6.907	0.000	0.000	5.012
5330431KC	1.801	4.563	6.906	0.000	0.000	5.010
Suv39h1	3.063	6.027	6.906	0.000	0.000	5.009
LOC632075	-4.103	5.085	-6.904	0.000	0.000	5.005
Usp20	1.827	5.475	6.904	0.000	0.000	5.005
Rab31	2.631	8.154	6.903	0.000	0.000	5.003
Pitpnb	1.610	6.635	6.902	0.000	0.000	5.001
Lyz2	4.577	9.710	6.900	0.000	0.000	4.997
Mpst	-3.686	5.102	-6.896	0.000	0.000	4.990
BB114814	-1.398	3.191	-6.891	0.000	0.000	4.980
Kctd10	2.162	8.946	6.890	0.000	0.000	4.977
Tmx2	-1.563	8.905	-6.886	0.000	0.000	4.971
Tgfb2	2.666	5.234	6.882	0.000	0.000	4.961
Lhx5	-1.286	3.271	-6.881	0.000	0.000	4.960
Plxnb1	2.079	5.284	6.881	0.000	0.000	4.959
Sema3a	3.190	5.722	6.877	0.000	0.000	4.951
Ccng2	2.756	8.144	6.876	0.000	0.000	4.949
Cx3c11	1.820	6.204	6.873	0.000	0.000	4.944
Mirhg1	2.096	5.887	6.872	0.000	0.000	4.941
Ier5	1.554	7.021	6.869	0.000	0.000	4.936
Coq7	-1.454	8.269	-6.868	0.000	0.000	4.933
Pds5b	2.147	5.567	6.865	0.000	0.000	4.928
Tcf3	2.141	6.934	6.863	0.000	0.000	4.924
Lphn1	2.338	5.367	6.861	0.000	0.000	4.921

Pid1	2.483	5.653	6.857	0.000	0.000	4.911
Pbx2	1.341	6.115	6.854	0.000	0.000	4.905
Pamr1	3.256	5.629	6.853	0.000	0.000	4.904
S100a4	4.841	8.098	6.850	0.000	0.000	4.897
Vsig1	-2.929	4.721	-6.849	0.000	0.000	4.895
Zfp826	1.561	5.842	6.847	0.000	0.000	4.892
Dnajc15	-1.891	8.260	-6.843	0.000	0.000	4.883
Fam69a	2.049	6.325	6.842	0.000	0.000	4.881
Xpc	2.387	6.241	6.841	0.000	0.000	4.879
Hltf	1.247	3.854	6.840	0.000	0.000	4.878
Ldlrap1	1.741	6.183	6.836	0.000	0.000	4.868
Cyth3	1.713	7.788	6.831	0.000	0.000	4.860
Prkg2	1.414	3.885	6.829	0.000	0.000	4.855
Nelf	1.318	9.529	6.825	0.000	0.000	4.848
Tnni3	-5.174	4.958	-6.821	0.000	0.000	4.839
Pm20d1	-1.626	3.910	-6.817	0.000	0.000	4.831
LOC10004	1.006	8.335	6.816	0.000	0.000	4.829
Rdh7	-3.826	4.338	-6.815	0.000	0.000	4.828
Ncor2	2.129	7.389	6.815	0.000	0.000	4.827
Coll4a1	2.242	5.274	6.813	0.000	0.000	4.822
Eng	1.487	5.604	6.808	0.000	0.000	4.814
Mier1	1.465	7.378	6.806	0.000	0.000	4.810
Cd3e	-1.263	4.752	-6.805	0.000	0.000	4.807
Vegfc	2.649	5.318	6.802	0.000	0.000	4.800
Rundc3b	3.229	5.887	6.799	0.000	0.000	4.795
Pnliprp1	-4.344	4.944	-6.797	0.000	0.000	4.792
Cyp27b1	-1.208	3.132	-6.795	0.000	0.000	4.787
Guk1	-1.459	8.261	-6.790	0.000	0.000	4.776
Rhoq	2.694	8.469	6.789	0.000	0.000	4.775
Wfdc2	3.559	10.194	6.784	0.000	0.000	4.766
Pcdhb17	1.126	3.940	6.781	0.000	0.000	4.758
Ndufa10	-1.514	3.845	-6.779	0.000	0.000	4.756
Chst4	-3.718	4.457	-6.777	0.000	0.000	4.751
Mfsd10	1.609	6.649	6.774	0.000	0.000	4.745
Cckbr	-2.157	3.766	-6.770	0.000	0.000	4.736
A630072M1	1.321	3.766	6.767	0.000	0.000	4.731
Gstk1	-3.672	7.179	-6.766	0.000	0.000	4.728
Anxa2	2.340	11.778	6.766	0.000	0.000	4.728
D15Wsu12t	2.043	6.134	6.762	0.000	0.000	4.720
Slfn2	2.476	7.008	6.760	0.000	0.000	4.716
Taf1a	1.465	5.158	6.760	0.000	0.000	4.716
Psm4	1.192	10.336	6.759	0.000	0.000	4.715
Rgs10	2.008	5.674	6.758	0.000	0.000	4.712
Cfp	3.178	5.804	6.756	0.000	0.000	4.707
Wdr19	1.834	4.755	6.751	0.000	0.000	4.698
Lyz1	4.000	10.698	6.748	0.000	0.000	4.692
Fam115a	1.435	6.128	6.747	0.000	0.000	4.691
Traf3	1.302	7.099	6.743	0.000	0.000	4.682
L3mbt12	-1.001	4.976	-6.743	0.000	0.000	4.682
Esyt2	1.712	7.386	6.743	0.000	0.000	4.681

D1Ert564	2.303	4.859	6.741	0.000	0.000	4.677
Gpr153	2.042	4.731	6.740	0.000	0.000	4.677
Stx1a	2.397	6.912	6.737	0.000	0.000	4.670
Csf2rb2	2.419	5.051	6.733	0.000	0.000	4.661
5430407P1	-1.308	3.535	-6.732	0.000	0.000	4.660
Nsf11c	1.398	9.241	6.730	0.000	0.000	4.656
Igfbp4	2.741	5.626	6.728	0.000	0.000	4.651
Gsdmc2	-3.699	4.524	-6.728	0.000	0.000	4.651
Chst14	1.732	5.587	6.726	0.000	0.000	4.647
Fam101a	-2.728	6.777	-6.724	0.000	0.000	4.644
Lix1	-1.361	3.681	-6.722	0.000	0.000	4.640
5430434G1	2.261	5.852	6.722	0.000	0.000	4.639
Ccl28	-1.295	3.967	-6.719	0.000	0.000	4.633
Cd53	3.938	8.268	6.707	0.000	0.000	4.608
Siah1a	1.577	4.803	6.701	0.000	0.000	4.598
Bmpr2	1.680	4.162	6.701	0.000	0.000	4.597
Evi5	1.929	7.252	6.699	0.000	0.000	4.593
Plscr3	1.633	5.889	6.698	0.000	0.000	4.591
Dsel	2.232	6.360	6.698	0.000	0.000	4.590
Agfgl1	1.015	6.454	6.698	0.000	0.000	4.590
Cpeb1	1.841	4.553	6.697	0.000	0.000	4.589
Rab24	1.777	7.653	6.697	0.000	0.000	4.589
Entpd1	1.791	3.771	6.696	0.000	0.000	4.588
Snapc2	1.286	8.558	6.692	0.000	0.000	4.580
Zfp408	1.509	4.790	6.690	0.000	0.000	4.575
Lcp2	1.869	5.187	6.684	0.000	0.000	4.561
Rassf5	1.823	4.688	6.682	0.000	0.000	4.559
Kctd5	1.689	6.956	6.679	0.000	0.000	4.552
BC029214	-1.128	3.930	-6.676	0.000	0.000	4.546
B230213L1	1.184	4.327	6.674	0.000	0.000	4.542
Spib	-1.940	4.239	-6.672	0.000	0.000	4.538
Ttpal	1.726	5.659	6.667	0.000	0.000	4.528
Mrpl54	-1.254	7.120	-6.666	0.000	0.000	4.527
LOC100038	1.497	4.177	6.654	0.000	0.000	4.501
Gkap1	2.461	6.243	6.652	0.000	0.000	4.498
Ddah1	3.637	5.978	6.651	0.000	0.000	4.495
Arpc4	2.189	8.277	6.649	0.000	0.000	4.491
Kcnj15	-4.205	5.585	-6.648	0.000	0.000	4.490
Tnip1	1.739	7.431	6.646	0.000	0.000	4.486
Fam168b	1.293	7.800	6.645	0.000	0.000	4.484
Tubgcp4	1.277	4.919	6.644	0.000	0.000	4.482
Ahctf1	1.676	7.634	6.643	0.000	0.000	4.479
BB163080	1.485	3.851	6.640	0.000	0.000	4.474
Prickle2	1.870	4.626	6.640	0.000	0.000	4.474
AF251705	2.080	5.520	6.638	0.000	0.000	4.469
Ppap2b	3.106	8.151	6.636	0.000	0.000	4.465
4921511E1	1.046	4.206	6.633	0.000	0.000	4.459
Stoml1	1.527	5.653	6.632	0.000	0.000	4.458
Fos	-2.790	9.851	-6.632	0.000	0.000	4.457
Ccdc102a	2.170	5.292	6.631	0.000	0.000	4.455

Mocs1	-1.601	3.764	-6.629	0.000	0.000	4.451
Arx	-1.166	3.164	-6.627	0.000	0.000	4.446
C2	2.383	4.703	6.626	0.000	0.000	4.445
Csf2ra	1.930	4.868	6.625	0.000	0.000	4.442
Heg1	1.140	4.043	6.620	0.000	0.000	4.433
Cflar	2.354	7.263	6.620	0.000	0.000	4.432
A430108E	2.426	6.867	6.618	0.000	0.000	4.428
Capzb	1.433	9.943	6.616	0.000	0.000	4.424
Kcnj16	-3.702	3.943	-6.610	0.000	0.000	4.412
0610011F	-1.803	8.264	-6.609	0.000	0.000	4.410
6430527G	1.582	5.631	6.608	0.000	0.000	4.408
Plxnd1	2.246	6.427	6.606	0.000	0.000	4.405
Ewsr1	2.208	7.488	6.600	0.000	0.000	4.392
Dnajc12	-1.675	6.569	-6.599	0.000	0.000	4.389
Uqcrb	-1.414	9.879	-6.598	0.000	0.000	4.388
Gstm3	-2.278	3.470	-6.596	0.000	0.000	4.383
Gmfb	2.626	6.442	6.595	0.000	0.000	4.381
Zfp777	1.002	4.682	6.593	0.000	0.000	4.378
Csnk1d	1.902	7.377	6.593	0.000	0.000	4.377
Lamb2	2.243	5.827	6.592	0.000	0.000	4.375
Brp441	-1.675	9.465	-6.590	0.000	0.000	4.372
Sult1a1	2.103	7.053	6.586	0.000	0.000	4.364
Klc1	1.715	6.608	6.579	0.000	0.000	4.349
Trps1	2.368	4.392	6.578	0.000	0.000	4.346
Aldh6a1	-2.350	8.141	-6.577	0.000	0.000	4.345
5230400M	1.600	6.369	6.575	0.000	0.000	4.340
Mrpl55	-1.150	7.312	-6.575	0.000	0.000	4.340
C80998	1.074	6.257	6.573	0.000	0.000	4.337
Eif4e3	2.062	5.759	6.572	0.000	0.000	4.333
Prss22	4.567	6.949	6.568	0.000	0.000	4.326
Gpld1	-1.681	4.770	-6.563	0.000	0.000	4.315
Akr1c14	-5.009	5.759	-6.561	0.000	0.000	4.311
Rpp21	-1.104	8.546	-6.558	0.000	0.000	4.307
Lrrc8d	1.436	6.471	6.558	0.000	0.000	4.305
Clra	1.721	4.800	6.556	0.000	0.000	4.301
Entpd5	-2.703	6.310	-6.553	0.000	0.000	4.296
Rbm12	1.500	7.171	6.553	0.000	0.000	4.296
Rbms3	2.061	5.260	6.552	0.000	0.000	4.294
Amot11	2.435	7.921	6.549	0.000	0.000	4.288
BC018507	1.509	6.454	6.545	0.000	0.000	4.279
Prg4	3.792	5.178	6.544	0.000	0.000	4.276
Ly6a	3.806	8.749	6.541	0.000	0.000	4.270
Dusp6	1.670	9.674	6.540	0.000	0.000	4.268
Slc24a6	1.549	6.079	6.540	0.000	0.000	4.268
Ccdc150	-1.292	3.597	-6.538	0.000	0.000	4.265
Zfyve26	2.042	5.402	6.535	0.000	0.000	4.260
Leprel	1.347	4.240	6.534	0.000	0.000	4.256
6720463M	1.286	5.625	6.531	0.000	0.000	4.251
Mdfic	2.640	7.995	6.525	0.000	0.000	4.237
Serpinf2	-1.629	4.210	-6.524	0.000	0.000	4.236

Lamc1	2.217	6.933	6.518	0.000	0.000	4.225
Kpnb1	1.667	8.143	6.518	0.000	0.000	4.224
H2-Ab1	2.784	5.756	6.515	0.000	0.000	4.218
Tubb2a	2.736	7.828	6.514	0.000	0.000	4.215
Fa2h	-4.271	5.133	-6.513	0.000	0.000	4.213
Vasn	1.731	6.261	6.512	0.000	0.000	4.212
Slc29a1	2.654	6.562	6.512	0.000	0.000	4.211
Vangl1	1.394	5.931	6.511	0.000	0.000	4.210
Zcchc14	1.919	7.277	6.510	0.000	0.000	4.208
Cdkn2aipr	1.903	7.544	6.509	0.000	0.000	4.204
Ccdc88a	2.025	4.375	6.505	0.000	0.000	4.196
Ccni	1.036	11.003	6.503	0.000	0.000	4.194
Hmgb3	1.896	8.420	6.500	0.000	0.000	4.186
Pdzd11	-1.037	7.832	-6.499	0.000	0.000	4.185
Zc3hc1	1.288	6.069	6.496	0.000	0.000	4.180
DOH4S114	2.776	6.678	6.491	0.000	0.000	4.168
Tead2	2.632	6.371	6.491	0.000	0.000	4.168
Grhl1	-2.237	4.537	-6.489	0.000	0.000	4.165
Sdc1	2.038	9.970	6.485	0.000	0.000	4.157
D2Ertd61z	1.719	6.385	6.485	0.000	0.000	4.156
Nudt13	-1.587	5.245	-6.481	0.000	0.000	4.148
Man1a2	1.460	4.298	6.481	0.000	0.000	4.147
Atf3	-2.652	7.346	-6.479	0.000	0.000	4.144
Nfatc1	1.145	5.625	6.478	0.000	0.000	4.142
Prss12	4.115	6.033	6.475	0.000	0.000	4.135
Cenpt	1.744	6.411	6.472	0.000	0.000	4.130
Rbm20	-2.346	4.640	-6.470	0.000	0.000	4.125
Gm10786	1.472	7.192	6.469	0.000	0.000	4.124
Ifnar1	1.557	5.376	6.467	0.000	0.000	4.119
Rsph3a	-1.037	8.530	-6.465	0.000	0.000	4.116
Timp2	3.556	4.857	6.462	0.000	0.000	4.108
Vgll2	-1.018	3.197	-6.458	0.000	0.000	4.100
Wsb1	2.241	7.709	6.451	0.000	0.000	4.085
Zfp451	1.683	5.999	6.449	0.000	0.000	4.082
Impact	2.236	6.966	6.449	0.000	0.000	4.082
Pnpla7	1.499	5.416	6.449	0.000	0.000	4.081
583043611	1.608	5.088	6.447	0.000	0.000	4.078
Smtn	2.203	4.957	6.445	0.000	0.000	4.075
B230216Nz	1.198	4.235	6.445	0.000	0.000	4.073
Kctd13	1.113	5.409	6.443	0.000	0.000	4.069
Slc2a10	-2.015	4.225	-6.442	0.000	0.000	4.067
Cast	2.002	7.001	6.440	0.000	0.000	4.063
Mecr	-1.677	6.291	-6.439	0.000	0.000	4.060
Tacc2	2.151	8.533	6.438	0.000	0.000	4.059
Wwc2	2.178	6.424	6.435	0.000	0.000	4.052
Cox7a1	-4.122	6.188	-6.433	0.000	0.000	4.050
Adap2	1.105	4.675	6.432	0.000	0.000	4.046
5530402H2	1.510	4.406	6.431	0.000	0.000	4.046
Cd38	2.777	7.325	6.431	0.000	0.000	4.046
Bcl6	1.883	5.892	6.430	0.000	0.000	4.044

Adora1	-1.195	3.331	-6.429	0.000	0.000	4.041
Lhpp	-1.423	4.506	-6.427	0.000	0.000	4.036
I810055G	1.534	7.119	6.416	0.000	0.000	4.014
Rgs13	-2.990	3.811	-6.416	0.000	0.000	4.014
1110032AC	-1.384	7.289	-6.414	0.000	0.000	4.011
Gpr137b	1.250	5.613	6.411	0.000	0.000	4.004
4930503L1	2.357	4.445	6.410	0.000	0.000	4.002
Staul	1.044	7.208	6.409	0.000	0.000	4.000
Cerk	2.297	6.362	6.407	0.000	0.000	3.995
Prmt1	1.937	9.053	6.406	0.000	0.000	3.994
Man1c1	2.050	6.264	6.404	0.000	0.000	3.990
A930035DC	1.644	4.561	6.394	0.000	0.000	3.969
Zbtb12	1.565	4.788	6.394	0.000	0.000	3.968
9430020KC	2.356	6.260	6.394	0.000	0.000	3.968
Vash2	2.421	4.713	6.386	0.000	0.000	3.951
Aida	1.965	7.737	6.384	0.000	0.000	3.948
Plekha5	1.239	6.083	6.383	0.000	0.000	3.945
Tst	-3.289	7.078	-6.381	0.000	0.000	3.942
Kdm5b	1.739	5.164	6.381	0.000	0.000	3.941
AA414768	2.340	3.999	6.380	0.000	0.000	3.940
Ear2	4.141	6.554	6.372	0.000	0.000	3.924
Osbpl11	1.639	6.449	6.368	0.000	0.000	3.915
94300811E	1.579	4.451	6.367	0.000	0.000	3.912
Myolc	1.893	6.495	6.366	0.000	0.000	3.910
Pld2	1.199	7.030	6.364	0.000	0.000	3.907
Dhx38	1.200	6.189	6.362	0.000	0.000	3.903
Asns	-2.460	8.707	-6.362	0.000	0.000	3.902
Acot13	-1.338	9.400	-6.360	0.000	0.000	3.899
Nisch	1.433	5.444	6.360	0.000	0.000	3.897
Abhd14b	-1.513	7.976	-6.358	0.000	0.000	3.895
LOC100047	1.604	6.237	6.357	0.000	0.000	3.892
Rftn1	2.180	5.595	6.353	0.000	0.000	3.884
Blcap	1.472	8.140	6.353	0.000	0.000	3.883
Megf8	1.316	6.790	6.351	0.000	0.000	3.879
Lpxn	2.079	4.836	6.348	0.000	0.000	3.872
Efemp1	2.506	6.425	6.346	0.000	0.000	3.869
Ihh	-2.336	4.752	-6.346	0.000	0.000	3.869
Hspa8	-1.987	6.596	-6.346	0.000	0.000	3.868
4921509J1	2.346	5.947	6.344	0.000	0.000	3.864
Snx8	1.586	5.759	6.343	0.000	0.000	3.862
Zfyvel6	1.650	5.213	6.341	0.000	0.000	3.858
Neb1	2.923	5.258	6.340	0.000	0.000	3.857
5930405FC	1.672	5.109	6.337	0.000	0.000	3.850
Pold4	2.363	7.239	6.334	0.000	0.000	3.844
Slc40a1	2.510	6.277	6.334	0.000	0.000	3.843
AU020094	-1.668	4.641	-6.334	0.000	0.000	3.843
Resp18	-4.647	4.864	-6.333	0.000	0.000	3.842
Tm4sf1	3.275	4.997	6.333	0.000	0.000	3.841
Sfrp1	2.228	4.913	6.328	0.000	0.000	3.831
Reep1	1.578	3.993	6.325	0.000	0.000	3.826

1110002LC	1.014	4.990	6.325	0.000	0.000	3.824
Blmh	-1.029	8.019	-6.323	0.000	0.000	3.821
Gstm2	-2.423	8.156	-6.322	0.000	0.000	3.819
Pafah2	-1.521	8.155	-6.317	0.000	0.000	3.809
Stx19	-3.442	4.717	-6.315	0.000	0.000	3.805
Ttc38	-1.292	5.092	-6.314	0.000	0.000	3.802
Cbl	1.650	7.518	6.312	0.000	0.000	3.798
Sult1c2	-5.863	7.569	-6.311	0.000	0.000	3.796
Zfp74	1.400	4.897	6.310	0.000	0.000	3.794
Ano1	1.833	6.793	6.310	0.000	0.000	3.793
Ptbp2	2.605	7.502	6.309	0.000	0.000	3.793
Acsf2	-1.413	5.631	-6.307	0.000	0.000	3.788
Cda	2.327	6.385	6.307	0.000	0.000	3.787
Etfa	-1.205	9.720	-6.305	0.000	0.000	3.784
Creld1	1.925	6.210	6.305	0.000	0.000	3.783
Zmym4	1.696	6.201	6.304	0.000	0.000	3.782
Ephb4	1.373	6.228	6.299	0.000	0.000	3.771
Pla2g4c	-2.159	3.822	-6.297	0.000	0.000	3.767
Tuft1	2.568	7.143	6.295	0.000	0.000	3.764
Pvr	1.764	6.134	6.289	0.000	0.000	3.750
Serpinb6ε	2.812	10.089	6.287	0.000	0.000	3.747
Nudt16l1	1.603	6.423	6.285	0.000	0.000	3.743
4933421E1	2.200	6.782	6.285	0.000	0.000	3.742
Ino80d	1.364	7.458	6.284	0.000	0.000	3.740
Gm14057	-1.044	4.722	-6.281	0.000	0.000	3.733
Lgmn	3.170	8.244	6.279	0.000	0.000	3.730
Atg4d	-1.261	7.090	-6.279	0.000	0.000	3.730
Camk2g	1.030	7.180	6.279	0.000	0.000	3.730
Dusp5	1.978	7.743	6.278	0.000	0.000	3.727
Frrs1	1.415	8.117	6.278	0.000	0.000	3.727
9030607L2	1.254	4.983	6.276	0.000	0.000	3.723
Coll5a1	1.771	4.534	6.271	0.000	0.000	3.713
Pmch	-1.003	3.087	-6.270	0.000	0.000	3.712
Trpc7	-1.043	3.424	-6.269	0.000	0.000	3.708
Phtf1	1.831	6.688	6.265	0.000	0.000	3.702
8430419LC	-2.632	5.771	-6.265	0.000	0.000	3.700
Kcnj8	2.622	5.551	6.263	0.000	0.000	3.697
Wnk2	-1.321	3.673	-6.261	0.000	0.000	3.691
Camk2n1	2.844	5.815	6.258	0.000	0.000	3.686
2200002DC	1.742	8.684	6.258	0.000	0.000	3.685
Cd1d1	2.087	5.274	6.250	0.000	0.000	3.670
Mon1a	-1.607	7.063	-6.244	0.000	0.000	3.658
Ildr2	2.974	4.752	6.242	0.000	0.000	3.652
Skil	1.898	4.746	6.242	0.000	0.000	3.652
Npr2	1.653	5.046	6.241	0.000	0.000	3.651
Mmp9	2.315	5.063	6.241	0.000	0.000	3.650
Fgfr2	-1.283	3.880	-6.239	0.000	0.000	3.646
Mrp63	-1.010	9.578	-6.238	0.000	0.000	3.645
Senp5	1.626	6.979	6.237	0.000	0.000	3.643
Cox8a	-1.117	10.394	-6.235	0.000	0.000	3.639

Tcfec	2.869	4.768	6.232	0.000	0.000	3.631
Slc12a8	-3.431	5.061	-6.230	0.000	0.000	3.628
Rhbdf2	1.172	6.110	6.230	0.000	0.000	3.627
Plod2	2.248	4.973	6.228	0.000	0.000	3.624
Limk1	2.535	5.529	6.228	0.000	0.000	3.622
R3hcc1	1.565	5.581	6.223	0.000	0.000	3.614
Epb4.112	2.477	8.723	6.223	0.000	0.000	3.612
Cytsa	1.535	6.613	6.222	0.000	0.000	3.612
Bsc12	-1.334	6.779	-6.221	0.000	0.000	3.609
Pxn	1.354	7.769	6.219	0.000	0.000	3.605
Zc3h12c	1.846	5.535	6.216	0.000	0.000	3.597
Dlcl	2.169	4.870	6.214	0.000	0.000	3.594
Myole	2.026	4.847	6.213	0.000	0.000	3.593
Ras111b	2.791	5.822	6.212	0.000	0.000	3.591
Fkbp1b	1.684	4.238	6.211	0.000	0.000	3.589
P2ry6	2.253	5.809	6.210	0.000	0.000	3.586
Aldh1a1	-2.835	8.844	-6.209	0.000	0.000	3.584
Eps8	1.329	9.275	6.207	0.000	0.000	3.580
Idh3g	-1.039	9.570	-6.202	0.000	0.000	3.570
Pkig	2.134	6.571	6.202	0.000	0.000	3.569
Rnf19b	2.124	5.647	6.202	0.000	0.000	3.569
Samsn1	2.046	3.846	6.200	0.000	0.000	3.566
Pla2g16	-2.163	8.305	-6.197	0.000	0.000	3.559
Csf2	2.798	4.957	6.195	0.000	0.000	3.555
Mrpl12	-1.117	9.227	-6.194	0.000	0.000	3.552
Cry2	1.434	4.796	6.192	0.000	0.000	3.549
E1td1	1.592	4.407	6.192	0.000	0.000	3.548
Chgb	-6.045	6.422	-6.190	0.000	0.000	3.544
Rbpj	1.439	5.251	6.189	0.000	0.000	3.541
Hira	-1.037	4.027	-6.188	0.000	0.000	3.540
Rgs19	2.698	6.753	6.184	0.000	0.000	3.532
Il17ra	1.617	4.608	6.184	0.000	0.000	3.531
Axin1	1.603	6.701	6.183	0.000	0.000	3.529
Rgs7	-2.395	3.947	-6.183	0.000	0.000	3.528
Perl	2.021	6.900	6.180	0.000	0.000	3.522
Sidt1	-2.715	4.373	-6.177	0.000	0.000	3.518
Sh3bp4	1.585	5.743	6.177	0.000	0.000	3.517
Apoa1	-5.981	7.149	-6.174	0.000	0.000	3.511
Tnk2	1.430	8.608	6.174	0.000	0.000	3.510
Rnf125	2.208	6.500	6.170	0.000	0.000	3.501
Fbxl20	1.334	6.862	6.167	0.000	0.000	3.496
Olr1	2.897	4.504	6.167	0.000	0.000	3.495
Mtal	1.585	5.343	6.162	0.000	0.000	3.486
Cdr2	1.834	5.533	6.162	0.000	0.000	3.485
Csrnp2	1.247	5.146	6.159	0.000	0.000	3.479
Adcy2	-1.562	4.109	-6.157	0.000	0.000	3.475
Primal	-1.317	3.791	-6.154	0.000	0.000	3.469
Zdhhc23	-1.716	5.180	-6.154	0.000	0.000	3.468
AI413582	1.728	6.060	6.154	0.000	0.000	3.468
Gpr176	1.682	4.320	6.153	0.000	0.000	3.466

Fnbp4	1.258	6.986	6.149	0.000	0.000	3.458
Figf	1.845	5.230	6.147	0.000	0.000	3.455
2900073C1	-1.234	3.564	-6.145	0.000	0.000	3.449
Plk2	1.407	7.519	6.143	0.000	0.000	3.445
Vcam1	2.537	5.837	6.141	0.000	0.000	3.442
Pld4	2.180	5.399	6.141	0.000	0.000	3.441
Pik3r2	1.814	5.732	6.140	0.000	0.000	3.439
Wdr26	1.481	7.724	6.139	0.000	0.000	3.437
Chpf2	1.507	6.453	6.139	0.000	0.000	3.436
Stk3	1.534	7.057	6.138	0.000	0.000	3.435
Sipa111	1.883	5.656	6.138	0.000	0.000	3.435
Onecut2	4.020	5.682	6.137	0.000	0.000	3.433
Tanc1	1.835	7.159	6.135	0.000	0.000	3.430
Vsig2	-4.696	7.468	-6.133	0.000	0.000	3.424
Cycl	-1.302	9.951	-6.126	0.000	0.000	3.410
Tcfcp2	1.209	5.369	6.123	0.000	0.000	3.404
Dph5	1.695	4.392	6.122	0.000	0.000	3.401
Hadhb	-1.191	9.787	-6.121	0.000	0.000	3.399
Crbn	1.785	7.044	6.120	0.000	0.000	3.398
Gm7669	2.584	8.218	6.118	0.000	0.000	3.394
Ccnd3	1.205	6.865	6.118	0.000	0.000	3.394
Lrrc8e	-1.947	4.548	-6.118	0.000	0.000	3.394
Purg	1.670	4.994	6.118	0.000	0.000	3.392
Hivep1	2.011	5.963	6.115	0.000	0.000	3.386
Cd3001f	2.543	6.309	6.113	0.000	0.000	3.383
Iyd	-3.981	5.123	-6.112	0.000	0.000	3.380
2900073G1	1.271	11.283	6.111	0.000	0.000	3.379
Ddi2	1.289	6.302	6.111	0.000	0.000	3.378
Gstm6	-1.920	4.020	-6.107	0.000	0.000	3.371
Isl1	-2.281	4.239	-6.107	0.000	0.000	3.370
Rnf208	-1.590	4.394	-6.099	0.000	0.000	3.354
Neurod1	-2.188	3.784	-6.098	0.000	0.000	3.350
Nptx1	1.499	4.702	6.097	0.000	0.000	3.350
Zfyve1	1.180	3.722	6.096	0.000	0.000	3.346
Gfpt2	2.294	4.321	6.095	0.000	0.000	3.346
Sat1	1.788	10.094	6.095	0.000	0.000	3.345
Rnf19a	2.555	7.426	6.092	0.000	0.000	3.339
Ddx46	1.391	6.524	6.090	0.000	0.000	3.334
Vwf	2.880	5.904	6.083	0.000	0.000	3.320
Dusp7	1.432	6.409	6.082	0.000	0.000	3.317
Gpx4	1.112	10.790	6.082	0.000	0.000	3.316
1500011H2	2.432	6.541	6.081	0.000	0.000	3.315
Cgref1	-2.604	6.386	-6.075	0.000	0.000	3.302
Nceh1	-1.203	4.339	-6.075	0.000	0.000	3.302
Slc15a3	2.307	5.045	6.074	0.000	0.000	3.301
Sprr2k	-2.066	4.489	-6.073	0.000	0.000	3.298
Abcg1	1.815	6.588	6.070	0.000	0.000	3.293
Jak2	1.510	7.044	6.070	0.000	0.000	3.292
Tspyl2	1.099	5.053	6.068	0.000	0.000	3.288
A930026B	1.235	3.932	6.067	0.000	0.000	3.286

1810046K	-1.284	3.381	-6.063	0.000	0.000	3.277
Als2cr4	2.049	6.525	6.061	0.000	0.000	3.274
Clptm1	-1.015	8.020	-6.061	0.000	0.000	3.272
D8Ert738	-1.296	5.762	-6.058	0.000	0.000	3.267
Ifi202b	3.491	6.361	6.057	0.000	0.000	3.265
C3	3.919	8.041	6.057	0.000	0.000	3.264
Gm13305	-1.810	7.304	-6.055	0.000	0.000	3.261
Steap2	3.064	7.571	6.049	0.000	0.000	3.247
Sult1b1	-4.361	5.466	-6.048	0.000	0.000	3.246
Dlg5	2.199	6.730	6.048	0.000	0.000	3.245
Sh2d5	2.583	4.770	6.047	0.000	0.000	3.242
Igsf8	1.076	6.777	6.046	0.000	0.000	3.242
Aldh3b2	-1.327	2.993	-6.042	0.000	0.000	3.233
Clqtnf4	-1.599	4.146	-6.040	0.000	0.000	3.229
Agap3	1.508	6.748	6.040	0.000	0.000	3.229
Cthrc1	3.305	6.013	6.039	0.000	0.000	3.227
Ap4e1	1.461	6.052	6.038	0.000	0.000	3.224
Mapk7	1.138	4.773	6.038	0.000	0.000	3.224
Rnf41	1.338	5.349	6.035	0.000	0.000	3.219
Slc11a1	1.785	4.893	6.030	0.000	0.000	3.207
Nab2	1.486	4.922	6.029	0.000	0.000	3.206
Dlgap3	-1.037	4.208	-6.028	0.000	0.000	3.202
Ppplr3e	1.341	5.888	6.028	0.000	0.000	3.202
Samd14	1.376	4.509	6.027	0.000	0.000	3.201
Jak3	1.326	4.317	6.026	0.000	0.000	3.199
Gdap10	1.903	6.243	6.025	0.000	0.000	3.198
Dapk2	-1.894	4.118	-6.025	0.000	0.000	3.197
Ctbs	1.803	4.712	6.024	0.000	0.000	3.195
Lxn	2.217	9.130	6.024	0.000	0.000	3.195
Nudt6	1.256	5.134	6.023	0.000	0.000	3.192
Camk1	2.019	5.843	6.022	0.000	0.000	3.191
B930036G	-2.009	5.808	-6.020	0.000	0.000	3.186
6330417A1	1.610	5.504	6.018	0.000	0.000	3.182
Samhd1	2.007	6.344	6.017	0.000	0.000	3.179
Syne2	2.369	6.800	6.015	0.000	0.000	3.175
Fabp5	-1.752	10.607	-6.015	0.000	0.000	3.175
Ear1	3.848	5.164	6.012	0.000	0.000	3.169
F2	-1.437	3.391	-6.011	0.000	0.000	3.167
BC059841	-1.251	3.532	-6.010	0.000	0.000	3.166
18100320C	1.219	4.732	6.004	0.000	0.000	3.153
Leprel2	1.395	4.411	6.004	0.000	0.000	3.152
Fam60a	2.659	8.488	6.000	0.000	0.000	3.144
2310016CC	3.058	7.749	5.993	0.000	0.000	3.130
Cyp2c44	-4.481	5.308	-5.992	0.000	0.000	3.127
Cyp2c65	-5.024	5.619	-5.987	0.000	0.000	3.116
Col5a3	2.192	5.024	5.983	0.000	0.000	3.109
Vegfa	2.797	8.256	5.983	0.000	0.000	3.108
Capn5	1.543	7.626	5.983	0.000	0.000	3.108
Tubb2a-ps	3.114	5.188	5.980	0.000	0.000	3.101
4-Sep	1.778	5.425	5.976	0.000	0.000	3.094

Phc2	1.626	8.341	5.973	0.000	0.000	3.087
Arpc1b	1.680	10.649	5.970	0.000	0.000	3.080
Cln3	1.264	6.346	5.966	0.000	0.000	3.073
Otub1	2.052	8.076	5.964	0.000	0.000	3.068
Zfp697	3.147	5.520	5.962	0.000	0.000	3.064
Bex4	-3.272	5.455	-5.961	0.000	0.000	3.061
Gigyf2	-1.608	4.506	-5.960	0.000	0.000	3.059
Ddb1	1.428	9.757	5.959	0.000	0.000	3.056
Gem	1.836	4.184	5.955	0.000	0.000	3.049
9530008L1	-1.823	3.422	-5.955	0.000	0.000	3.049
Actr2	1.695	5.399	5.954	0.000	0.000	3.046
Gstm1	-2.033	9.568	-5.954	0.000	0.000	3.046
Pcbp4	1.358	6.239	5.951	0.000	0.000	3.041
Cldn5	2.189	5.076	5.946	0.000	0.000	3.030
4930518I1	1.419	4.636	5.944	0.000	0.000	3.025
Rilpl2	2.299	7.567	5.944	0.000	0.000	3.024
Ttll1	1.134	4.871	5.942	0.000	0.000	3.020
Fancf	1.404	5.848	5.942	0.000	0.000	3.020
Bnc2	2.631	5.026	5.940	0.000	0.000	3.017
Sykb	1.645	5.848	5.939	0.000	0.000	3.016
Lrrc33	1.815	4.719	5.937	0.000	0.000	3.011
LOC100045	-1.109	3.286	-5.937	0.000	0.000	3.010
Sun2	1.255	7.470	5.936	0.000	0.000	3.007
Gm4162	-5.628	6.773	-5.934	0.000	0.000	3.005
Morc2a	1.599	7.213	5.933	0.000	0.000	3.002
BC088983	1.638	6.269	5.925	0.000	0.000	2.986
Ddx27	1.848	6.445	5.923	0.000	0.000	2.980
Acad8	-1.887	4.841	-5.919	0.000	0.000	2.972
Pkm2	1.672	10.133	5.918	0.000	0.000	2.971
Fam117b	2.044	7.363	5.917	0.000	0.000	2.967
Ampd2	1.136	6.403	5.916	0.000	0.000	2.966
Cdh17	5.231	6.435	5.915	0.000	0.000	2.963
Fam20c	1.342	6.813	5.914	0.000	0.000	2.962
Btbd11	2.483	4.538	5.914	0.000	0.000	2.962
Phtf2	1.491	5.333	5.913	0.000	0.000	2.959
Ramp2	1.563	5.326	5.912	0.000	0.000	2.958
Nudt12	-1.440	5.812	-5.912	0.000	0.000	2.958
Deb1	-1.481	8.265	-5.912	0.000	0.000	2.956
Nrp1	2.687	6.324	5.911	0.000	0.000	2.955
Cabc1	-2.347	5.571	-5.909	0.000	0.000	2.950
Ddx52	1.580	6.886	5.905	0.000	0.000	2.944
LOC633966	1.122	4.137	5.904	0.000	0.000	2.941
Arhgap30	2.026	5.796	5.899	0.000	0.000	2.931
11-Sep	2.120	6.798	5.899	0.000	0.000	2.930
Trp53inp1	2.136	7.612	5.899	0.000	0.000	2.929
2610528J1	-2.362	5.870	-5.898	0.000	0.000	2.928
BC023814	1.430	5.772	5.898	0.000	0.000	2.927
Lmo2	1.576	5.342	5.897	0.000	0.000	2.926
Tpm2	3.057	8.090	5.897	0.000	0.000	2.925
Zfp362	1.759	5.840	5.893	0.000	0.000	2.916

2210409E1	-1.663	3.416	-5.892	0.000	0.000	2.916
Rapgef2	2.345	7.928	5.891	0.000	0.000	2.914
Myst4	1.948	6.794	5.887	0.000	0.000	2.905
Pls3	2.490	8.793	5.887	0.000	0.000	2.904
Morc3	1.944	7.913	5.883	0.000	0.000	2.895
Dock10	2.745	4.987	5.882	0.000	0.000	2.893
Angell1	-1.111	5.293	-5.881	0.000	0.000	2.891
Itm2c	1.273	9.887	5.878	0.000	0.000	2.884
Trim59	2.078	7.638	5.877	0.000	0.000	2.884
Ccl17	3.057	5.435	5.876	0.000	0.000	2.881
AI413194	1.300	6.602	5.875	0.000	0.000	2.878
Fbxo7	-1.292	6.647	-5.873	0.000	0.000	2.874
Casp12	3.012	5.473	5.872	0.000	0.000	2.872
Cd274	1.843	4.931	5.872	0.000	0.000	2.871
Thns12	-1.749	5.564	-5.870	0.000	0.000	2.869
Ly6g6d	-1.573	3.945	-5.869	0.000	0.000	2.866
Cln8	1.048	5.771	5.869	0.000	0.000	2.866
Zfp217	1.863	7.466	5.866	0.000	0.000	2.860
Ptprn	2.034	4.905	5.866	0.000	0.000	2.859
Klf7	1.274	7.273	5.865	0.000	0.000	2.858
Zfp36	-2.335	8.242	-5.864	0.000	0.000	2.855
Ppmlk	-1.190	5.250	-5.864	0.000	0.000	2.855
Npy	4.869	6.590	5.863	0.000	0.000	2.853
Bach2	1.991	4.852	5.863	0.000	0.000	2.852
Anub11	1.839	4.335	5.863	0.000	0.000	2.852
Ier51	1.950	5.260	5.862	0.000	0.000	2.850
Tnfaip81z	1.832	4.970	5.861	0.000	0.000	2.849
Plekhg1	1.289	4.646	5.861	0.000	0.000	2.848
Ttc7b	1.290	4.343	5.861	0.000	0.000	2.848
Gm13111	-1.251	2.721	-5.856	0.000	0.000	2.839
Bach1	1.502	8.215	5.853	0.000	0.000	2.832
Pat11	1.113	7.486	5.852	0.000	0.000	2.830
Rheb11	1.249	4.911	5.851	0.000	0.000	2.827
Mcl1	1.636	9.085	5.850	0.000	0.000	2.825
Akr1b10	1.801	4.964	5.850	0.000	0.000	2.825
Ankrd26	1.569	4.758	5.842	0.000	0.000	2.808
P2ry14	2.585	4.346	5.838	0.000	0.000	2.800
E230029CC	1.026	3.660	5.837	0.000	0.000	2.797
1700056N1	1.209	4.758	5.834	0.000	0.000	2.791
Zfp830	1.204	6.623	5.834	0.000	0.000	2.791
Plbd2	1.411	4.958	5.832	0.000	0.000	2.788
Rnf216	1.246	5.870	5.832	0.000	0.000	2.786
B3gnt9	1.112	4.448	5.827	0.000	0.000	2.776
Kcnj13	-2.006	3.598	-5.827	0.000	0.000	2.775
Tinagl1	1.673	7.491	5.827	0.000	0.000	2.775
Smpd13b	-1.837	5.302	-5.826	0.000	0.000	2.773
Yeats2	1.008	6.185	5.817	0.000	0.000	2.755
Habp2	-2.164	3.873	-5.815	0.000	0.000	2.751
Mpp6	2.286	4.955	5.815	0.000	0.000	2.750
Krt15	-2.335	3.840	-5.809	0.000	0.000	2.738

Scg3	-2.200	4.081	-5.808	0.000	0.000	2.736
Myh9	1.205	9.520	5.807	0.000	0.000	2.734
Nin1	1.536	3.965	5.807	0.000	0.000	2.734
Rassf10	-1.816	4.147	-5.806	0.000	0.000	2.732
2610524H	1.923	6.903	5.804	0.000	0.000	2.727
Unc119	1.367	6.432	5.801	0.000	0.000	2.720
Corola	2.992	6.569	5.799	0.000	0.000	2.716
Cdk17	1.939	7.978	5.797	0.000	0.000	2.712
Pfn2	2.511	6.662	5.797	0.000	0.000	2.712
Ctnnb11	1.631	7.789	5.797	0.000	0.000	2.711
Was	1.607	4.282	5.796	0.000	0.000	2.709
C73004901	1.879	6.816	5.793	0.000	0.000	2.703
LOC100046	2.940	5.017	5.791	0.000	0.000	2.700
Zfp637	1.021	7.175	5.791	0.000	0.000	2.699
Rtf1	1.632	7.254	5.790	0.000	0.000	2.698
4921513D2	1.359	5.846	5.782	0.000	0.000	2.679
Snx11	1.125	4.733	5.781	0.000	0.000	2.677
1700058M1	-1.116	2.605	-5.778	0.000	0.000	2.671
Msr1	2.475	5.580	5.777	0.000	0.000	2.668
Atp2a3	-3.269	7.701	-5.776	0.000	0.000	2.667
Dbi	-1.568	10.453	-5.776	0.000	0.000	2.666
Ptpn22	2.248	4.807	5.773	0.000	0.000	2.661
Itln1	-3.143	4.139	-5.773	0.000	0.000	2.660
Cyr61	2.093	8.119	5.762	0.000	0.000	2.637
Inpp5k	1.005	6.881	5.761	0.000	0.000	2.635
Fam82a2	-1.221	7.597	-5.760	0.000	0.000	2.633
Fam55c	1.898	4.646	5.759	0.000	0.000	2.630
Nup210	-1.292	5.638	-5.758	0.000	0.000	2.628
Rimbp2	-1.035	3.762	-5.757	0.000	0.000	2.627
Fbxw4	1.136	6.605	5.757	0.000	0.000	2.627
Ctps	1.920	7.120	5.756	0.000	0.000	2.625
AI987944	1.111	6.030	5.756	0.000	0.000	2.624
Ikbkb	1.208	8.219	5.756	0.000	0.000	2.624
Fbxo31	1.272	5.805	5.755	0.000	0.000	2.622
Stx4a	1.209	8.304	5.754	0.000	0.000	2.620
A730059M1	1.159	4.742	5.750	0.000	0.000	2.612
BC050254	1.252	6.475	5.748	0.000	0.000	2.607
Plod3	1.778	7.095	5.748	0.000	0.000	2.606
Irf8	1.927	5.796	5.747	0.000	0.000	2.605
Fbxw17	1.339	5.974	5.744	0.000	0.000	2.598
4930402H2	1.144	4.633	5.742	0.000	0.000	2.594
Srd5a1	3.408	6.176	5.742	0.000	0.000	2.593
I134	2.092	3.963	5.741	0.000	0.000	2.593
Fam129a	2.203	6.269	5.737	0.000	0.000	2.583
Itpr1	1.692	5.080	5.736	0.000	0.000	2.582
Ap3m2	1.934	5.563	5.735	0.000	0.000	2.580
Cav2	2.747	10.092	5.734	0.000	0.000	2.577
1700071K	-1.047	2.965	-5.728	0.000	0.000	2.563
Rbm9	1.258	5.547	5.724	0.000	0.000	2.555
LOC100047	-3.779	6.940	-5.721	0.000	0.000	2.549

Gng2	1.055	4.079	5.721	0.000	0.000	2.548
Vezt	1.118	5.617	5.720	0.000	0.000	2.547
Zfp346	1.218	5.724	5.718	0.000	0.000	2.543
Cryab	3.065	4.927	5.717	0.000	0.000	2.542
Mup1	-5.476	5.433	-5.716	0.000	0.000	2.538
Elmod3	-1.429	6.072	-5.714	0.000	0.000	2.535
Med131	1.690	7.477	5.714	0.000	0.000	2.533
Gm10083	-1.066	3.338	-5.712	0.000	0.000	2.530
Wbp7	1.281	7.002	5.711	0.000	0.000	2.528
6030451C	1.362	4.160	5.710	0.000	0.000	2.525
Hmgn1	1.479	11.020	5.710	0.000	0.000	2.525
Mical11	1.983	6.874	5.704	0.000	0.000	2.513
9330161A	1.958	6.433	5.704	0.000	0.000	2.512
Mcpt8	3.073	5.102	5.703	0.000	0.000	2.510
Espn	-1.362	3.062	-5.702	0.000	0.000	2.509
Vps8	1.352	4.423	5.700	0.000	0.000	2.504
90306170C	-1.402	6.551	-5.700	0.000	0.000	2.504
Pdlim7	1.278	6.293	5.698	0.000	0.000	2.499
130004C05	1.380	3.854	5.697	0.000	0.000	2.498
Zfp664	1.620	8.294	5.696	0.000	0.000	2.495
Adrbk2	-1.366	5.563	-5.691	0.000	0.000	2.484
Stra13	-1.289	7.264	-5.689	0.000	0.000	2.481
Dbn1	2.907	7.236	5.689	0.000	0.000	2.479
2210023G	-3.646	6.709	-5.688	0.000	0.000	2.479
Egr1	-1.482	9.956	-5.688	0.000	0.000	2.478
Mmp23	2.684	5.870	5.687	0.000	0.000	2.475
Cd3001d	1.371	4.101	5.686	0.000	0.000	2.473
Sec61a2	1.196	4.947	5.684	0.000	0.000	2.469
Adssl1	2.570	6.580	5.683	0.000	0.000	2.468
Slc9a1	-1.342	7.689	-5.682	0.000	0.000	2.466
Gm2590	1.594	5.670	5.680	0.000	0.000	2.461
Sestd1	1.521	7.237	5.680	0.000	0.000	2.460
Kcnn4	2.201	8.069	5.674	0.000	0.000	2.449
Engase	-1.107	3.895	-5.673	0.000	0.000	2.445
Spats2	1.694	7.021	5.672	0.000	0.000	2.444
Nfkb2	1.087	5.801	5.668	0.000	0.000	2.436
Ankle2	1.456	5.809	5.666	0.000	0.000	2.430
Diol	-2.127	3.485	-5.665	0.000	0.000	2.429
Nphs1	-1.065	3.419	-5.665	0.000	0.000	2.428
Etv4	1.515	6.141	5.664	0.000	0.000	2.427
Rab13	1.064	6.557	5.663	0.000	0.000	2.424
Vsig8	-1.044	2.975	-5.661	0.000	0.000	2.421
Crlf3	2.136	6.466	5.661	0.000	0.000	2.420
Sh3glb1	1.379	10.638	5.660	0.000	0.000	2.417
Gm672	1.257	4.987	5.659	0.000	0.000	2.415
C130015C1	1.343	4.813	5.651	0.000	0.000	2.399
Klc3	1.634	5.849	5.651	0.000	0.000	2.398
Vps72	1.722	7.320	5.646	0.000	0.000	2.387
Gpr39	1.835	5.062	5.645	0.000	0.000	2.385
Prkd2	1.038	4.102	5.638	0.000	0.000	2.371

Fam171a1	1.434	5.642	5.636	0.000	0.000	2.367
AA415038	1.512	5.340	5.635	0.000	0.000	2.363
Sfrs12	1.318	7.450	5.635	0.000	0.000	2.363
Krtdap	-4.542	4.439	-5.633	0.000	0.000	2.359
Prdm1	2.056	4.309	5.632	0.000	0.000	2.357
Itpripl2	1.620	9.196	5.629	0.000	0.000	2.352
Mtss1	1.406	6.837	5.629	0.000	0.000	2.351
Mthfd11	1.960	6.357	5.627	0.000	0.000	2.348
Nrtn	-1.565	5.375	-5.627	0.000	0.000	2.346
Sh3rf2	-1.849	3.945	-5.624	0.000	0.000	2.341
Tmem37	1.790	5.919	5.623	0.000	0.000	2.339
5033418A1	1.647	4.976	5.622	0.000	0.000	2.336
Xylb	-1.839	4.763	-5.619	0.000	0.000	2.330
Arid5a	1.762	4.689	5.617	0.000	0.000	2.326
Cox6a1	-1.101	11.181	-5.617	0.000	0.000	2.325
Bcl9	1.087	5.200	5.611	0.000	0.000	2.312
Trpm5	-2.124	4.026	-5.609	0.000	0.000	2.307
Abcc12	-1.130	3.113	-5.607	0.000	0.000	2.304
Tbcd12	1.578	6.577	5.606	0.000	0.000	2.302
Tex2	-1.158	5.240	-5.606	0.000	0.000	2.301
Acer1	-3.120	3.596	-5.604	0.000	0.000	2.298
AI987986	-1.181	3.841	-5.603	0.000	0.000	2.294
Prom2	-1.353	3.289	-5.600	0.000	0.000	2.289
LOC100044	2.069	7.977	5.599	0.000	0.000	2.286
Grhl2	-2.369	7.324	-5.597	0.000	0.000	2.283
B930098AC	1.681	4.251	5.597	0.000	0.000	2.281
Tcerg1	1.990	6.696	5.594	0.000	0.000	2.276
Tmem204	1.445	4.653	5.593	0.000	0.000	2.272
LOC676546	2.109	4.530	5.592	0.000	0.000	2.271
1810033B1	2.239	5.334	5.592	0.000	0.000	2.270
Psat1	2.580	6.390	5.590	0.000	0.000	2.266
Git1	1.129	5.421	5.589	0.000	0.000	2.265
Gm22	1.846	4.785	5.589	0.000	0.000	2.265
Acot7	1.400	7.995	5.582	0.000	0.000	2.250
Mysm1	1.686	6.056	5.580	0.000	0.000	2.245
Pgpep1	1.010	5.602	5.578	0.000	0.000	2.241
Luzpl1	1.504	6.302	5.576	0.000	0.000	2.236
Prr18	-1.229	3.431	-5.575	0.000	0.000	2.233
Ikbke	1.314	6.672	5.573	0.000	0.000	2.230
2310042E2	-5.522	5.734	-5.573	0.000	0.000	2.230
Uxs1	1.873	6.429	5.573	0.000	0.000	2.229
2310009AC	-2.047	7.938	-5.570	0.000	0.000	2.224
Tmem51	-2.320	8.252	-5.570	0.000	0.000	2.224
Fabp12	-2.980	3.758	-5.569	0.000	0.000	2.221
Amdhd2	1.344	6.630	5.568	0.000	0.000	2.220
Iqcb1	1.586	5.181	5.567	0.000	0.000	2.217
Fahd1	-1.495	5.632	-5.564	0.000	0.000	2.210
Cks1b	2.199	10.021	5.563	0.000	0.000	2.209
Ms4a7	2.443	4.473	5.562	0.000	0.000	2.207
Ppfibp1	1.153	5.070	5.562	0.000	0.000	2.206

Fytttd1	2.408	7.982	5.559	0.000	0.000	2.200
Cpe	2.768	9.569	5.556	0.000	0.000	2.193
Fbxo38	1.090	7.240	5.556	0.000	0.000	2.193
Dci	-1.840	8.658	-5.550	0.000	0.000	2.179
Hpgd	-4.497	7.199	-5.549	0.000	0.000	2.179
Gtf2h2	1.478	5.732	5.548	0.000	0.000	2.177
Car15	-1.182	3.684	-5.546	0.000	0.000	2.172
Gzmd	3.380	4.836	5.543	0.000	0.000	2.165
Ctdsp2	1.186	9.338	5.542	0.000	0.000	2.163
Slc25a37	2.233	6.536	5.541	0.000	0.000	2.161
Mesdcl	-1.311	4.741	-5.539	0.000	0.000	2.157
Rbak	1.511	5.971	5.538	0.000	0.000	2.154
Itpkb	1.361	5.686	5.538	0.000	0.000	2.154
Hspb1	2.140	9.460	5.537	0.000	0.000	2.153
Fem1a	-1.109	4.672	-5.536	0.000	0.000	2.149
Fcna	3.090	6.508	5.534	0.000	0.000	2.146
Ces6	-2.149	4.322	-5.534	0.000	0.000	2.146
Fgd6	2.025	6.323	5.534	0.000	0.000	2.146
Crtap	2.244	8.055	5.534	0.000	0.000	2.145
Als2cl	1.024	4.190	5.533	0.000	0.000	2.144
Stk10	1.547	6.284	5.533	0.000	0.000	2.144
2410085M1	1.478	5.575	5.533	0.000	0.000	2.143
Ccdc52	-1.368	5.862	-5.532	0.000	0.000	2.142
Myola	-3.351	5.021	-5.532	0.000	0.000	2.140
Ciz1	1.279	6.179	5.531	0.000	0.000	2.140
Lass2	1.523	8.972	5.531	0.000	0.000	2.138
Gnmt	-2.612	4.537	-5.530	0.000	0.000	2.137
Zfp71-rs1	1.325	6.001	5.528	0.000	0.000	2.132
1700019N1	-1.211	2.947	-5.527	0.000	0.000	2.131
Plc12	1.543	5.196	5.523	0.000	0.000	2.122
A130040M1	3.656	8.104	5.520	0.000	0.000	2.115
Igf2bp2	1.369	7.996	5.519	0.000	0.000	2.114
Scg5	-3.705	4.860	-5.518	0.000	0.000	2.110
5830462P1	1.024	5.048	5.514	0.000	0.000	2.101
Stat5a	-1.359	6.223	-5.513	0.000	0.000	2.099
1110029L1	1.533	6.391	5.511	0.000	0.000	2.097
Smad5	1.218	4.552	5.511	0.000	0.000	2.096
E330020D1	1.797	4.409	5.510	0.000	0.000	2.094
Fermt3	2.014	4.654	5.510	0.000	0.000	2.092
Parp11	1.101	5.174	5.506	0.000	0.000	2.085
1200015M1	2.140	11.349	5.506	0.000	0.000	2.085
Ndufa11	-1.149	9.833	-5.505	0.000	0.000	2.083
Tnfaip3	1.302	7.611	5.505	0.000	0.000	2.083
Gpt	-2.275	6.955	-5.503	0.000	0.000	2.078
2310009B1	1.596	6.461	5.501	0.000	0.000	2.074
2700078E1	1.239	5.379	5.500	0.000	0.000	2.072
Rcc2	1.541	7.586	5.499	0.000	0.000	2.070
Prkar1a	1.226	10.013	5.499	0.000	0.000	2.070
Dlg1	1.353	9.371	5.499	0.000	0.000	2.069
Csnk1g3	1.974	7.423	5.498	0.000	0.000	2.067

Lats2	1.128	3.999	5.495	0.000	0.000	2.062
Mad212	1.312	6.240	5.495	0.000	0.000	2.060
Tspan17	1.512	6.067	5.494	0.000	0.000	2.059
Atp5a1	-1.620	6.771	-5.493	0.000	0.000	2.057
Fndc3b	1.437	10.188	5.492	0.000	0.000	2.054
Srpx2	2.105	4.405	5.492	0.000	0.000	2.054
Hemk1	-1.096	5.432	-5.490	0.000	0.000	2.049
2410089E	1.419	5.180	5.487	0.000	0.000	2.044
Uba3	2.136	8.427	5.486	0.000	0.000	2.041
Mbd6	1.255	5.950	5.485	0.000	0.000	2.038
Tubb5	1.698	10.308	5.481	0.000	0.000	2.031
Tmem205	-1.284	8.554	-5.480	0.000	0.000	2.028
Zdhhc17	1.823	6.659	5.479	0.000	0.000	2.026
Nes	2.529	5.633	5.479	0.000	0.000	2.026
Rnh1	1.026	9.534	5.479	0.000	0.000	2.025
Wnt7a	2.262	4.453	5.479	0.000	0.000	2.025
Rab15	1.250	6.581	5.478	0.000	0.000	2.024
2810455B	1.195	3.819	5.478	0.000	0.000	2.024
Ercc1	1.577	7.426	5.477	0.000	0.000	2.023
Dock3	-1.041	3.087	-5.477	0.000	0.000	2.022
2610005L	1.258	5.781	5.476	0.000	0.000	2.019
281047401	2.403	8.104	5.475	0.000	0.000	2.018
Sorcs2	2.123	5.388	5.475	0.000	0.000	2.016
Brpf3	1.644	5.190	5.475	0.000	0.000	2.016
Tmem43	1.589	7.042	5.469	0.000	0.000	2.004
Abcg2	1.766	5.250	5.468	0.000	0.000	2.001
Ndufc1	-1.005	9.981	-5.466	0.000	0.000	1.997
Pgk1	1.136	11.077	5.465	0.000	0.000	1.996
AI429363	1.357	4.371	5.461	0.000	0.000	1.986
Cel	-2.909	4.540	-5.459	0.000	0.000	1.982
Rnf157	1.620	4.679	5.458	0.000	0.000	1.981
Dok7	-1.042	5.501	-5.457	0.000	0.000	1.978
LOC100045	-2.602	5.293	-5.457	0.000	0.000	1.977
Laptm5	2.580	5.665	5.454	0.000	0.000	1.972
Cxcl1	3.613	5.949	5.454	0.000	0.000	1.972
Azgp1	-2.216	4.172	-5.454	0.000	0.000	1.971
Maf	1.828	4.507	5.453	0.000	0.000	1.970
Krt5	-2.444	4.646	-5.453	0.000	0.000	1.970
D030056L2	2.297	6.585	5.453	0.000	0.000	1.970
Ski	1.080	7.450	5.453	0.000	0.000	1.969
Chst15	1.625	4.589	5.451	0.000	0.000	1.965
Dcaf5	1.029	4.235	5.449	0.000	0.000	1.961
Tpml	2.074	9.750	5.447	0.000	0.000	1.956
Nhs11	1.850	6.760	5.446	0.000	0.000	1.955
AI120166	1.316	3.648	5.444	0.000	0.000	1.951
Wdfy1	1.588	5.369	5.442	0.000	0.000	1.946
D11Ert71	1.325	5.573	5.442	0.000	0.000	1.946
Smarcc1	1.246	8.569	5.442	0.000	0.000	1.945
Aoc3	1.274	4.674	5.441	0.000	0.000	1.944
Crip2	2.196	8.301	5.439	0.000	0.000	1.940

Spnb2	1.964	7.211	5.439	0.000	0.000	1.938
9630009C1	2.107	4.188	5.439	0.000	0.000	1.938
Rsrc2	1.591	5.577	5.438	0.000	0.000	1.938
Hsd17b6	-1.695	3.322	-5.435	0.000	0.000	1.931
Plekhf1	1.638	6.677	5.432	0.000	0.000	1.924
Plekha2	1.835	9.304	5.432	0.000	0.000	1.924
D630032NC	-1.146	4.000	-5.432	0.000	0.000	1.923
Emilin2	2.732	6.281	5.428	0.000	0.000	1.915
Pde7a	1.201	4.293	5.427	0.000	0.000	1.913
Lgals12	-2.431	3.736	-5.426	0.000	0.000	1.911
Ccnd1	2.229	8.844	5.425	0.000	0.000	1.909
Apol9a	2.505	5.826	5.424	0.000	0.000	1.907
H2-DMa	2.550	5.804	5.423	0.000	0.000	1.904
Lypd6	-2.415	3.920	-5.420	0.000	0.000	1.898
Tmem158	2.317	6.213	5.418	0.000	0.000	1.893
Sec23a	1.806	8.599	5.417	0.000	0.000	1.890
Bst1	3.354	5.482	5.417	0.000	0.000	1.890
Bmp4	2.441	5.268	5.414	0.000	0.000	1.884
LOC100046	1.934	7.109	5.411	0.000	0.000	1.877
Wdr60	1.161	4.942	5.410	0.000	0.000	1.875
Neto2	1.473	4.136	5.409	0.000	0.000	1.874
Syncrip	2.370	6.702	5.408	0.000	0.000	1.872
4833412E1	1.166	4.503	5.406	0.000	0.000	1.866
Plcg1	1.830	7.467	5.405	0.000	0.000	1.864
Kbtbd8	-1.717	3.563	-5.402	0.000	0.000	1.859
Acad11	-1.744	7.044	-5.398	0.000	0.000	1.850
I11r12	1.474	4.754	5.397	0.000	0.000	1.847
LOC100044	1.555	6.073	5.396	0.000	0.000	1.846
Fam101b	-1.692	8.963	-5.394	0.000	0.000	1.842
Ckmt1	-4.708	7.237	-5.393	0.000	0.000	1.838
7120451JC	1.805	5.063	5.392	0.000	0.000	1.836
Fxr1	2.315	8.104	5.391	0.000	0.000	1.834
Ik	1.099	7.630	5.391	0.000	0.000	1.833
Btg3	1.047	9.740	5.389	0.000	0.000	1.830
2510012JC	1.790	6.416	5.388	0.000	0.000	1.828
Dctn1	1.283	6.405	5.387	0.000	0.000	1.826
Ndufs6	-1.083	9.776	-5.387	0.000	0.000	1.826
Prdm4	1.192	6.028	5.385	0.000	0.000	1.821
4933407CC	1.330	7.727	5.384	0.000	0.000	1.819
Cckar	-2.149	3.498	-5.383	0.000	0.000	1.816
Adhfe1	-1.606	4.479	-5.376	0.000	0.000	1.802
Fam133b	2.586	6.992	5.375	0.000	0.000	1.800
Irs1	2.309	6.867	5.374	0.000	0.000	1.798
Smurf1	1.591	6.371	5.373	0.000	0.000	1.796
Mpp7	-1.229	4.407	-5.373	0.000	0.000	1.795
Ugt8a	-3.334	4.642	-5.373	0.000	0.000	1.795
Atg9b	3.311	5.905	5.371	0.000	0.000	1.790
Tacc1	1.545	6.900	5.371	0.000	0.000	1.790
Lat2	1.243	4.082	5.370	0.000	0.000	1.787
Cbr3	-2.595	8.818	-5.369	0.000	0.000	1.787

Lta	-1.022	3.035	-5.366	0.000	0.000	1.779
Ehbp1	1.596	6.370	5.365	0.000	0.000	1.777
Anapc4	1.467	6.172	5.365	0.000	0.000	1.777
Cldn4	3.215	7.006	5.363	0.000	0.000	1.773
9030425E1	1.994	4.618	5.363	0.000	0.000	1.773
Amot12	1.337	6.921	5.361	0.000	0.000	1.768
Crebbp	1.311	6.023	5.360	0.000	0.000	1.766
9530068E0	1.893	9.311	5.360	0.000	0.000	1.766
Clca1	3.153	4.978	5.358	0.000	0.000	1.763
Creb312	1.950	5.871	5.358	0.000	0.000	1.762
Pnoc	-2.073	3.592	-5.357	0.000	0.000	1.761
Zc3h4	1.879	6.761	5.356	0.000	0.000	1.758
1110046J0	2.074	4.322	5.355	0.000	0.000	1.756
2810025M1	1.813	6.402	5.354	0.000	0.000	1.753
Dusp22	1.734	5.657	5.353	0.000	0.000	1.752
Afap111	1.801	5.600	5.351	0.000	0.000	1.747
Atg2b	1.213	5.035	5.350	0.000	0.000	1.746
I16	2.294	4.387	5.349	0.000	0.000	1.742
Zzz3	1.759	8.343	5.346	0.000	0.000	1.736
AI956758	1.292	4.155	5.344	0.000	0.000	1.732
Scai	1.454	4.747	5.344	0.000	0.000	1.732
Btbd3	-2.076	5.075	-5.344	0.000	0.000	1.731
Eps15	1.166	6.697	5.342	0.000	0.000	1.727
Casp8	1.219	8.347	5.341	0.000	0.000	1.724
6430548M0	-1.196	4.949	-5.336	0.000	0.000	1.714
L1gl1	1.729	7.873	5.335	0.000	0.000	1.712
Sardh	1.120	5.230	5.335	0.000	0.000	1.711
K1hl5	2.366	7.583	5.335	0.000	0.000	1.711
Cyp2f2	-2.707	3.822	-5.333	0.000	0.000	1.708
Polr3h	1.187	5.981	5.332	0.000	0.000	1.705
Ecscr	3.005	6.932	5.331	0.000	0.000	1.704
9030411K0	1.315	4.215	5.330	0.000	0.000	1.700
Pla2g5	-3.387	3.844	-5.322	0.000	0.000	1.683
Ly6g6e	-3.097	4.808	-5.320	0.000	0.000	1.679
AI837181	1.003	6.275	5.319	0.000	0.000	1.678
Cyth4	1.708	4.834	5.318	0.000	0.000	1.675
Tbc1d10b	1.225	7.473	5.317	0.000	0.000	1.672
Tshz3	1.660	3.889	5.316	0.000	0.000	1.670
Prps2	-1.628	5.470	-5.315	0.000	0.000	1.667
Car2	-3.617	9.812	-5.314	0.000	0.000	1.667
BC094435	1.619	11.141	5.313	0.000	0.000	1.663
Cd200	2.030	5.342	5.312	0.000	0.000	1.661
R1f	1.876	6.945	5.311	0.000	0.000	1.660
Ccny	1.231	5.732	5.310	0.000	0.000	1.658
Pom121	1.309	6.901	5.310	0.000	0.000	1.658
Pacs1	1.313	5.771	5.310	0.000	0.000	1.657
Napsa	2.471	4.944	5.309	0.000	0.000	1.655
Wispl	1.477	4.647	5.306	0.000	0.000	1.648
Inpp5d	1.393	6.230	5.306	0.000	0.000	1.648
Tpk1	-1.966	6.380	-5.303	0.000	0.000	1.643

Cln6	-1.014	4.807	-5.303	0.000	0.000	1.643
Metrn	1.498	6.057	5.303	0.000	0.000	1.642
Smc5	1.497	5.605	5.301	0.000	0.000	1.637
Arnt	1.026	7.058	5.300	0.000	0.000	1.636
Tpcn2	1.026	4.660	5.300	0.000	0.000	1.636
Hcfc1	1.441	4.506	5.293	0.000	0.000	1.620
Fgfr3	-1.380	4.175	-5.293	0.000	0.000	1.620
Cd2bp2	1.262	6.894	5.293	0.000	0.000	1.619
4930542D1	-1.044	4.440	-5.292	0.000	0.000	1.618
Tmed2	1.889	8.220	5.292	0.000	0.000	1.617
C130075A2	1.621	4.421	5.290	0.000	0.000	1.614
2010001K2	-1.625	3.540	-5.289	0.000	0.000	1.611
Evc2	1.786	4.898	5.288	0.000	0.000	1.610
Gpx3	2.742	7.824	5.288	0.000	0.000	1.608
Yy1	1.787	9.523	5.284	0.000	0.000	1.600
Spna2	1.285	9.945	5.280	0.000	0.000	1.592
Cd52	2.848	7.542	5.278	0.000	0.000	1.588
Ankrd16	1.447	7.069	5.278	0.000	0.000	1.586
Chic2	2.173	8.562	5.276	0.000	0.000	1.582
Zswim6	1.891	7.610	5.274	0.000	0.000	1.577
Camsap1	1.037	6.462	5.273	0.000	0.000	1.576
Ggt6	-1.567	4.003	-5.273	0.000	0.000	1.576
Unkl	1.698	6.197	5.273	0.000	0.000	1.576
Hspala	-2.705	6.802	-5.270	0.000	0.000	1.571
Cyp7b1	2.130	4.365	5.265	0.000	0.000	1.559
Tmem30b	-4.883	7.994	-5.264	0.000	0.000	1.555
Fmn12	2.413	9.224	5.258	0.000	0.000	1.543
Gnpda2	2.344	6.703	5.258	0.000	0.000	1.543
Chac1	1.318	5.082	5.258	0.000	0.000	1.542
Bdh1	-2.188	3.870	-5.257	0.000	0.000	1.542
Arf2	1.739	7.359	5.257	0.000	0.000	1.542
Dap	1.439	9.616	5.256	0.000	0.000	1.540
Pde8a	-1.502	7.005	-5.254	0.000	0.000	1.535
Timm9	1.223	3.930	5.253	0.000	0.000	1.533
Smyd5	1.288	4.653	5.252	0.000	0.000	1.530
U46068	-4.117	5.922	-5.252	0.000	0.000	1.530
S100a6	1.716	12.269	5.250	0.000	0.000	1.527
Hhex	2.743	6.709	5.250	0.000	0.000	1.526
9330156P	1.176	4.989	5.249	0.000	0.000	1.523
Rps6kb2	1.016	4.761	5.245	0.000	0.001	1.515
Camk1d	1.223	4.559	5.243	0.000	0.001	1.510
2810046L	1.083	4.734	5.242	0.000	0.001	1.509
Macf1	1.406	8.178	5.241	0.000	0.001	1.505
Pbld	-1.066	3.176	-5.236	0.000	0.001	1.495
5330417H1	-1.034	3.250	-5.235	0.000	0.001	1.493
Cxcl14	2.110	4.580	5.229	0.000	0.001	1.479
9130007G1	-1.090	4.577	-5.229	0.000	0.001	1.479
Nfrkb	1.036	7.236	5.226	0.000	0.001	1.472
Utp6	1.609	6.239	5.223	0.000	0.001	1.465
Wnk1	2.091	9.556	5.222	0.000	0.001	1.465

Tm6sf1	1.999	4.177	5.220	0.000	0.001	1.460
LOC100047	1.479	7.182	5.220	0.000	0.001	1.460
Wls	1.663	9.026	5.218	0.000	0.001	1.455
Hook3	1.565	7.212	5.216	0.000	0.001	1.451
Clec4e	1.987	4.356	5.216	0.000	0.001	1.450
Wasf1	1.659	4.007	5.215	0.000	0.001	1.448
Pyy	-2.761	4.290	-5.211	0.000	0.001	1.439
Ugt2b35	-4.033	5.981	-5.207	0.000	0.001	1.431
AW146020	1.271	5.117	5.205	0.000	0.001	1.427
AI415730	1.028	3.409	5.205	0.000	0.001	1.427
Apoc2	2.375	6.267	5.204	0.000	0.001	1.425
Adprh	1.587	7.864	5.204	0.000	0.001	1.425
Polr2a	-1.602	4.061	-5.203	0.000	0.001	1.423
Prtn3	2.480	5.260	5.202	0.000	0.001	1.420
Wnt4	2.081	6.004	5.201	0.000	0.001	1.419
Pofut1	1.154	6.814	5.199	0.000	0.001	1.414
Agl	1.283	5.172	5.199	0.000	0.001	1.414
B630005N1	2.094	6.815	5.199	0.000	0.001	1.414
Arhgap32	-1.935	4.905	-5.198	0.000	0.001	1.412
Ash21	1.173	4.389	5.198	0.000	0.001	1.412
Acss2	-2.791	6.425	-5.198	0.000	0.001	1.411
Rab8b	2.573	6.957	5.196	0.000	0.001	1.408
Cyb5r1	2.035	7.511	5.195	0.000	0.001	1.405
Fabp5	-2.032	8.806	-5.193	0.000	0.001	1.401
Sctr	-1.350	3.496	-5.193	0.000	0.001	1.399
Oaz2	2.081	7.894	5.191	0.000	0.001	1.397
Tmem185b	1.757	6.631	5.189	0.000	0.001	1.390
Kcnk10	-1.229	3.387	-5.187	0.000	0.001	1.388
5430435G2	1.526	4.769	5.186	0.000	0.001	1.385
1110012DC	1.665	5.700	5.185	0.000	0.001	1.383
Pik3r1	-1.821	6.710	-5.184	0.000	0.001	1.380
Pppl1a	-1.025	3.747	-5.183	0.000	0.001	1.377
Arap1	1.324	5.656	5.182	0.000	0.001	1.376
7-Mar	1.587	9.547	5.182	0.000	0.001	1.375
Hepacam2	-2.041	3.685	-5.181	0.000	0.001	1.373
Traf7	1.046	6.931	5.179	0.000	0.001	1.371
Psca	-5.203	7.461	-5.179	0.000	0.001	1.370
Ccl12	2.877	5.067	5.179	0.000	0.001	1.369
Cela1	-3.348	9.299	-5.178	0.000	0.001	1.368
LOC100046	1.456	6.663	5.178	0.000	0.001	1.368
5730480HC	1.150	5.061	5.178	0.000	0.001	1.367
Inf2	1.458	4.856	5.177	0.000	0.001	1.365
Gk5	-2.053	6.265	-5.175	0.000	0.001	1.360
Arhgef5	1.684	9.069	5.175	0.000	0.001	1.360
Rapgef3	1.538	4.968	5.173	0.000	0.001	1.357
Gp1bb	1.119	4.541	5.172	0.000	0.001	1.353
6720475J1	2.278	6.933	5.168	0.000	0.001	1.344
BC005512	-1.597	2.957	-5.167	0.000	0.001	1.343
Mast3	1.541	6.297	5.164	0.000	0.001	1.337
Abcb9	-1.607	3.794	-5.164	0.000	0.001	1.337

Cybb	1.938	4.454	5.162	0.000	0.001	1.332
Obfc2b	-1.036	5.912	-5.161	0.000	0.001	1.330
Fam164a	1.957	6.374	5.161	0.000	0.001	1.330
Tnks2	1.009	10.584	5.159	0.000	0.001	1.326
Med31	1.414	7.563	5.158	0.000	0.001	1.323
90306220z	-2.792	5.593	-5.157	0.000	0.001	1.320
LOC67722z	1.846	5.607	5.156	0.000	0.001	1.319
Hibadh	-1.429	8.764	-5.155	0.000	0.001	1.316
Mgst3	-1.900	10.397	-5.152	0.000	0.001	1.311
F7	2.627	4.760	5.152	0.000	0.001	1.310
Mef2c	1.716	4.598	5.151	0.000	0.001	1.307
Gm5480	-2.301	9.004	-5.149	0.000	0.001	1.304
LOC10004z	1.547	7.193	5.148	0.000	0.001	1.301
4833442J1	2.293	7.357	5.147	0.000	0.001	1.300
Auh	-1.440	7.404	-5.147	0.000	0.001	1.299
Ptpa	1.754	7.651	5.147	0.000	0.001	1.298
Asx11	1.783	7.308	5.145	0.000	0.001	1.296
Sirpbla	2.353	5.025	5.138	0.000	0.001	1.278
Atp6v0d2	2.164	5.892	5.137	0.000	0.001	1.278
Pck2	1.432	7.113	5.137	0.000	0.001	1.276
Pfdn2	1.375	9.232	5.135	0.000	0.001	1.273
Mndal	2.954	6.141	5.135	0.000	0.001	1.273
A130001G	1.063	4.114	5.134	0.000	0.001	1.271
Myo1h	1.110	3.913	5.133	0.000	0.001	1.268
Rcn3	2.140	5.935	5.131	0.000	0.001	1.264
E430024I	1.493	4.313	5.131	0.000	0.001	1.263
Rars2	-1.142	7.746	-5.129	0.000	0.001	1.258
Wbscr27	1.713	5.077	5.129	0.000	0.001	1.258
Trpv2	1.219	4.066	5.126	0.000	0.001	1.253
Reps2	-2.464	4.988	-5.123	0.000	0.001	1.245
Lpp	1.178	6.653	5.120	0.000	0.001	1.240
Zfp101	-1.041	5.416	-5.118	0.000	0.001	1.235
9-Sep	1.397	8.989	5.117	0.000	0.001	1.234
Rabgap1	1.833	8.153	5.117	0.000	0.001	1.233
Pla2g6	1.817	5.605	5.117	0.000	0.001	1.232
Dapl1	-1.841	4.116	-5.116	0.000	0.001	1.231
Endog	-1.572	6.543	-5.115	0.000	0.001	1.228
Cd163	2.726	5.064	5.110	0.000	0.001	1.218
Ywhah	1.612	9.406	5.109	0.000	0.001	1.216
Shroom4	1.638	4.567	5.109	0.000	0.001	1.215
Rod1	1.843	5.619	5.109	0.000	0.001	1.214
Rgp1	1.522	7.082	5.107	0.000	0.001	1.210
Abtb2	1.367	4.970	5.103	0.000	0.001	1.202
Dact1	1.283	4.771	5.102	0.000	0.001	1.199
Rsf1	1.230	5.314	5.101	0.000	0.001	1.197
Cxcl13	3.861	6.703	5.100	0.000	0.001	1.195
Zfand3	1.628	7.690	5.100	0.000	0.001	1.194
Clec10a	2.763	4.887	5.099	0.000	0.001	1.194
Ppp3ca	2.002	8.443	5.097	0.000	0.001	1.189
Tax1bp3	1.828	9.334	5.097	0.000	0.001	1.189

3010027Cz	-1.062	3.083	-5.097	0.000	0.001	1.188
Fhod3	1.158	3.571	5.096	0.000	0.001	1.186
Nexn	2.003	3.978	5.094	0.000	0.001	1.183
Aif1	2.381	5.142	5.092	0.000	0.001	1.177
Ppif	-2.313	6.866	-5.091	0.000	0.001	1.175
LOC72520	-1.311	3.368	-5.089	0.000	0.001	1.171
Dmtf1	1.262	8.038	5.086	0.000	0.001	1.165
Lgals2	-4.810	8.762	-5.085	0.000	0.001	1.161
Ythdc1	2.266	7.482	5.084	0.000	0.001	1.161
Cwf1912	1.026	3.904	5.083	0.000	0.001	1.158
Mlxip	1.527	7.064	5.081	0.000	0.001	1.153
Ung	-1.509	5.762	-5.080	0.000	0.001	1.152
Slc22a17	-1.339	5.324	-5.078	0.000	0.001	1.148
Pcdh17	1.002	3.651	5.077	0.000	0.001	1.145
Nqo1	-4.225	6.754	-5.077	0.000	0.001	1.144
Eml3	1.627	5.971	5.075	0.000	0.001	1.141
5830408Cz	1.151	3.920	5.073	0.000	0.001	1.137
Abcc1	1.835	5.378	5.071	0.000	0.001	1.130
Sppl3	1.365	5.982	5.067	0.000	0.001	1.123
Ofd1	1.303	5.479	5.064	0.000	0.001	1.116
Ino80c	1.353	7.090	5.062	0.000	0.001	1.112
Cd9912	1.215	5.589	5.061	0.000	0.001	1.109
Cbl	1.364	6.761	5.059	0.000	0.001	1.106
Gstm7	-2.046	4.845	-5.059	0.000	0.001	1.105
Ap1s1	1.142	7.849	5.059	0.000	0.001	1.105
Rab20	1.118	5.916	5.058	0.000	0.001	1.102
LOC100047	1.741	7.527	5.057	0.000	0.001	1.100
Ubr4	1.100	7.636	5.056	0.000	0.001	1.098
Paqr4	-2.192	5.691	-5.055	0.000	0.001	1.097
Npc2	1.935	10.268	5.054	0.000	0.001	1.094
Rras2	1.734	8.358	5.051	0.000	0.001	1.087
Fbxo9	-1.256	8.598	-5.050	0.000	0.001	1.085
Dusp16	1.422	8.003	5.050	0.000	0.001	1.084
Isoc1	-1.883	7.332	-5.050	0.000	0.001	1.084
H2afb3	-1.007	4.234	-5.050	0.000	0.001	1.084
Uhrf2	1.379	4.734	5.048	0.000	0.001	1.081
Gga2	-2.372	7.397	-5.048	0.000	0.001	1.080
Map3k6	1.624	4.232	5.048	0.000	0.001	1.080
Hif1a	1.920	6.419	5.048	0.000	0.001	1.079
Ccb12	-2.325	5.900	-5.047	0.000	0.001	1.078
Sh3bp5	1.301	4.637	5.047	0.000	0.001	1.078
Nap114	1.189	7.782	5.046	0.000	0.001	1.077
Ap1m2	-2.241	7.101	-5.042	0.000	0.001	1.066
Cdkn2d	1.501	6.453	5.041	0.000	0.001	1.065
6030468B1	-1.179	4.079	-5.041	0.000	0.001	1.065
Thumpd1	1.087	6.431	5.041	0.000	0.001	1.065
Mtmr10	1.269	6.820	5.040	0.000	0.001	1.062
Ppplr2	1.917	7.776	5.040	0.000	0.001	1.062
1700021Fc	-1.269	7.230	-5.039	0.000	0.001	1.061
H2-Ea	-1.099	4.721	-5.034	0.000	0.001	1.050

Zfp219	1.053	5.944	5.031	0.000	0.001	1.043
Tspan9	1.857	7.339	5.029	0.000	0.001	1.037
Spink4	-3.999	6.958	-5.028	0.000	0.001	1.036
Pus71	1.169	5.878	5.028	0.000	0.001	1.036
Emr1	2.041	5.319	5.024	0.000	0.001	1.027
Ern2	-4.170	6.766	-5.024	0.000	0.001	1.027
B230354K1	1.534	6.129	5.024	0.000	0.001	1.027
Smyd2	1.280	8.438	5.022	0.000	0.001	1.023
Clic4	1.744	6.819	5.021	0.000	0.001	1.021
Fbxo32	1.165	5.288	5.021	0.000	0.001	1.020
Btgl	1.943	10.287	5.020	0.000	0.001	1.019
Lifr	-1.751	5.108	-5.020	0.000	0.001	1.018
1700031F1	-1.033	3.048	-5.018	0.000	0.001	1.014
Muc5ac	-5.883	8.248	-5.017	0.000	0.001	1.013
Tsc22d1	1.314	10.827	5.016	0.000	0.001	1.008
Msra	-1.994	6.226	-5.011	0.000	0.001	0.999
Kcnc4	-1.228	3.827	-5.011	0.000	0.001	0.998
Rabep2	1.309	5.073	5.011	0.000	0.001	0.997
Tcea3	-2.512	5.650	-5.010	0.000	0.001	0.996
Reep2	-1.128	3.697	-5.010	0.000	0.001	0.995
Macrodl	-1.690	6.682	-5.008	0.000	0.001	0.993
Tmem136	1.774	4.083	5.008	0.000	0.001	0.991
Dhx9	1.018	7.303	5.008	0.000	0.001	0.991
Tspan1	-4.260	8.182	-5.007	0.000	0.001	0.990
Adnp2	1.079	6.024	5.006	0.000	0.001	0.987
BC021891	-1.129	3.659	-5.003	0.000	0.001	0.980
Mical3	1.103	6.162	5.002	0.000	0.001	0.978
Ccpgl	-1.694	4.648	-4.999	0.000	0.001	0.972
Hplbp3	1.039	9.587	4.998	0.000	0.001	0.971
Cdca4	1.496	7.711	4.998	0.000	0.001	0.970
Hpd1	-1.304	3.594	-4.993	0.000	0.001	0.959
Zdhhc2	-1.832	5.145	-4.992	0.000	0.001	0.957
Egln3	1.976	6.242	4.992	0.000	0.001	0.957
Fchsd1	1.023	3.907	4.992	0.000	0.001	0.956
Ubr2	1.511	5.777	4.987	0.000	0.001	0.945
Adamts6	1.601	3.980	4.985	0.000	0.001	0.940
5730409E	1.482	4.382	4.984	0.000	0.001	0.938
Casp6	-1.355	9.724	-4.983	0.000	0.001	0.937
Stac	1.109	3.876	4.983	0.000	0.001	0.937
4930579G	1.793	4.561	4.975	0.000	0.001	0.918
Zfp53	1.129	4.380	4.974	0.000	0.001	0.916
Baz2b	1.040	7.015	4.973	0.000	0.001	0.915
Mmp8	1.016	3.668	4.972	0.000	0.001	0.913
Tpil	1.098	10.982	4.972	0.000	0.001	0.911
Srpk2	1.349	7.198	4.971	0.000	0.001	0.910
Sepnl	1.378	6.124	4.969	0.000	0.001	0.906
Tmem63a	-1.104	8.676	-4.969	0.000	0.001	0.904
Ddx41	1.157	6.637	4.968	0.000	0.001	0.903
Hdac6	1.740	7.616	4.966	0.000	0.001	0.899
Ddt	-1.106	7.979	-4.966	0.000	0.001	0.898

Nolc1	1.505	7.254	4.965	0.000	0.001	0.896
Tpd5212	1.553	7.775	4.962	0.000	0.001	0.890
Aldh1a3	2.694	4.755	4.962	0.000	0.001	0.889
Grem1	3.075	5.802	4.960	0.000	0.001	0.886
Eif4b	1.470	8.879	4.960	0.000	0.001	0.884
Amhr2	-1.189	3.035	-4.957	0.000	0.001	0.879
Llg12	-1.874	7.153	-4.957	0.000	0.001	0.878
Hspb8	1.661	5.577	4.956	0.000	0.001	0.876
Fam115c	-1.803	5.649	-4.955	0.000	0.001	0.875
Gtf3c3	1.522	6.108	4.955	0.000	0.001	0.873
Tmem106a	1.529	5.124	4.954	0.000	0.001	0.872
Fbln5	2.302	5.990	4.953	0.000	0.001	0.869
Ehd2	1.834	5.823	4.951	0.000	0.001	0.866
Cd3001b	1.848	4.078	4.949	0.000	0.001	0.862
Ttc3	1.465	5.803	4.947	0.000	0.001	0.858
Nr4a1	-1.663	7.894	-4.943	0.000	0.001	0.848
Inpp5e	1.625	5.799	4.942	0.000	0.001	0.845
Magee1	1.143	3.980	4.941	0.000	0.001	0.843
Acadv1	-1.310	8.313	-4.941	0.000	0.001	0.843
Klf3	1.731	6.946	4.940	0.000	0.001	0.842
Dapk1	1.632	6.164	4.939	0.000	0.001	0.839
I12rg	2.564	4.944	4.938	0.000	0.001	0.837
D6Wsu116c	2.054	7.345	4.935	0.000	0.001	0.829
Fam3b	-4.359	6.156	-4.933	0.000	0.001	0.826
Pcmt1	1.675	6.352	4.933	0.000	0.001	0.826
Kctd11	1.756	6.448	4.933	0.000	0.001	0.825
Mib1	1.152	3.920	4.932	0.000	0.001	0.824
Tes	2.473	8.985	4.930	0.000	0.001	0.818
Cyld	1.437	5.638	4.928	0.000	0.001	0.813
Hrh2	-2.076	3.481	-4.925	0.000	0.001	0.808
Ube4b	1.738	6.165	4.925	0.000	0.001	0.807
Wdr5	1.035	7.150	4.922	0.000	0.001	0.802
Sema3g	1.025	3.401	4.922	0.000	0.001	0.802
Ppm1h	-1.246	3.955	-4.922	0.000	0.001	0.801
Lnx1	-1.827	3.983	-4.921	0.000	0.001	0.800
Glt25d1	1.088	7.887	4.919	0.000	0.001	0.795
Map4k5	1.396	3.921	4.915	0.000	0.001	0.786
Tmem184a	-2.688	6.233	-4.915	0.000	0.001	0.786
6330577E1	1.853	9.634	4.910	0.000	0.001	0.774
Eno3	1.925	5.509	4.908	0.000	0.001	0.770
Acat1	-1.500	6.937	-4.907	0.000	0.001	0.768
Nradd	2.196	5.853	4.905	0.000	0.001	0.762
Bhlha9	-1.165	3.422	-4.905	0.000	0.001	0.762
Agpat1	-1.467	4.872	-4.904	0.000	0.001	0.761
Atxn10	2.118	9.774	4.903	0.000	0.001	0.759
Gadd45a	2.139	8.159	4.902	0.000	0.001	0.757
Snapin	1.825	8.221	4.898	0.000	0.001	0.747
BB166591	1.214	5.578	4.896	0.000	0.001	0.743
Shb	1.481	6.535	4.894	0.000	0.001	0.740
Adh7	-3.876	5.683	-4.894	0.000	0.001	0.739

Ftsjd1	1.090	4.061	4.893	0.000	0.001	0.737
Numal	1.315	7.071	4.892	0.000	0.001	0.735
Ptrh1	1.446	5.945	4.892	0.000	0.001	0.733
Cnpy4	1.167	8.015	4.890	0.000	0.001	0.730
Abcc9	1.742	3.499	4.890	0.000	0.001	0.730
Clec4a2	1.905	4.193	4.890	0.000	0.001	0.730
Litaf	2.345	9.384	4.888	0.000	0.001	0.726
D17H6S56f	2.734	8.760	4.888	0.000	0.001	0.725
Dcaf12	1.552	6.147	4.887	0.000	0.001	0.723
Chad	-4.156	5.893	-4.886	0.000	0.001	0.721
Amn1	1.866	4.277	4.886	0.000	0.001	0.721
Npc1	1.580	6.936	4.886	0.000	0.001	0.720
Cyp26b1	1.747	4.306	4.883	0.000	0.001	0.714
Tcfcp211	-2.562	6.636	-4.883	0.000	0.001	0.714
Elf2	1.345	7.243	4.881	0.000	0.001	0.709
Zfyve27	1.446	4.906	4.879	0.000	0.001	0.705
Sgcb	1.005	4.474	4.878	0.000	0.001	0.704
Nnmt	1.861	4.914	4.877	0.000	0.001	0.701
Ube2g2	1.130	7.697	4.876	0.000	0.001	0.700
Car9	-1.898	8.304	-4.876	0.000	0.001	0.699
Hmcn1	1.232	4.041	4.873	0.000	0.001	0.692
Zcchc11	1.424	6.394	4.872	0.000	0.001	0.690
Ap1m1	1.378	6.382	4.871	0.000	0.001	0.687
Stard10	-1.756	10.302	-4.869	0.000	0.001	0.684
Iwsl	1.352	6.194	4.869	0.000	0.001	0.683
Lrrc58	1.458	8.985	4.868	0.000	0.001	0.681
Spopl	1.784	6.174	4.868	0.000	0.001	0.680
Rps6ka3	1.598	6.981	4.864	0.000	0.001	0.672
Gip	-2.670	4.194	-4.864	0.000	0.001	0.672
Rhoj	2.583	7.487	4.861	0.000	0.001	0.666
Fmcl	-1.280	8.088	-4.861	0.000	0.001	0.666
Camsap111	1.683	8.058	4.860	0.000	0.001	0.662
Rcn1	2.455	5.778	4.859	0.000	0.001	0.660
H2-T18	-1.184	3.626	-4.858	0.000	0.001	0.660
Mycn	2.302	5.000	4.858	0.000	0.001	0.659
Rab27b	-1.691	9.038	-4.858	0.000	0.001	0.658
Gca	-1.671	5.133	-4.856	0.000	0.001	0.655
Apold1	1.303	4.289	4.854	0.000	0.001	0.649
Wdfy3	1.973	6.157	4.851	0.000	0.001	0.643
D830044I1	-1.022	3.545	-4.849	0.000	0.001	0.638
Lztrl	1.015	6.330	4.849	0.000	0.001	0.638
Tmem87b	1.349	5.658	4.848	0.000	0.001	0.638
Crim1	1.215	7.603	4.845	0.000	0.001	0.630
Il17re	-2.142	7.745	-4.843	0.000	0.001	0.625
Ttr	-3.711	7.310	-4.843	0.000	0.001	0.624
Dync1i2	1.189	8.987	4.842	0.000	0.001	0.623
Zfp639	1.035	7.638	4.841	0.000	0.001	0.622
9530006Cz	2.122	6.494	4.841	0.000	0.001	0.621
P2ry13	1.139	4.280	4.840	0.000	0.001	0.619
5430411K1	1.003	5.828	4.840	0.000	0.001	0.618

Otud1	1.275	4.947	4.838	0.000	0.001	0.614
Rael	1.094	7.308	4.837	0.000	0.001	0.613
Ubt2	1.652	6.440	4.837	0.000	0.001	0.612
LOC100047	-1.104	8.186	-4.836	0.000	0.001	0.610
Tppp	-1.690	3.307	-4.836	0.000	0.001	0.609
Phf23	1.839	7.714	4.836	0.000	0.001	0.609
Ifitm1	3.094	6.899	4.835	0.000	0.001	0.607
1600014C1	1.413	6.635	4.833	0.000	0.001	0.604
Vamp1	-1.003	3.465	-4.829	0.000	0.001	0.595
Mfsd2a	-2.129	4.407	-4.829	0.000	0.001	0.594
Tb11x	1.170	7.620	4.828	0.000	0.001	0.591
Calu	2.236	10.229	4.827	0.000	0.001	0.591
Ccdc14	1.224	4.569	4.826	0.000	0.001	0.587
Gm10693	1.221	4.156	4.825	0.000	0.001	0.586
Fzd6	1.504	6.935	4.825	0.000	0.001	0.585
Gm13337	1.930	7.792	4.824	0.000	0.001	0.582
Ypel5	1.829	6.859	4.823	0.000	0.001	0.580
Lin7c	1.278	5.917	4.822	0.000	0.001	0.579
LOC100044	1.629	9.381	4.822	0.000	0.001	0.578
Qser1	1.219	5.863	4.821	0.000	0.001	0.577
Osbpl8	1.675	6.739	4.820	0.000	0.001	0.575
Fbx12	1.135	3.409	4.819	0.000	0.001	0.573
Nrarp	1.934	6.288	4.819	0.000	0.001	0.572
Fam109a	-1.046	5.212	-4.818	0.000	0.001	0.570
Cnot7	1.209	9.530	4.817	0.000	0.001	0.568
Nmt2	1.893	5.320	4.816	0.000	0.001	0.566
Mfsd1	1.344	7.010	4.816	0.000	0.001	0.565
Slc4a3	1.254	4.878	4.814	0.000	0.001	0.561
BC030336	2.126	6.439	4.808	0.000	0.001	0.548
Cdc42ep2	1.551	5.924	4.808	0.000	0.001	0.546
803049702	-1.069	3.408	-4.806	0.000	0.001	0.543
Ralb	1.557	7.814	4.804	0.000	0.001	0.539
Dhx57	1.311	5.518	4.800	0.000	0.001	0.529
Epha4	1.471	4.284	4.799	0.000	0.001	0.527
9430023L2	1.631	5.966	4.799	0.000	0.001	0.526
Klf9	1.461	6.036	4.797	0.000	0.001	0.522
Lrrc40	1.009	7.225	4.795	0.000	0.001	0.519
Stk39	-1.800	6.249	-4.793	0.000	0.001	0.515
Zfp9	1.778	5.630	4.793	0.000	0.001	0.514
Phf20	1.747	7.101	4.788	0.000	0.001	0.504
Pacs2	1.199	6.430	4.784	0.000	0.001	0.493
Ubxn7	1.642	7.224	4.783	0.000	0.001	0.492
Mt4	-3.573	3.904	-4.782	0.000	0.001	0.490
Ddx42	1.010	6.320	4.782	0.000	0.001	0.489
Cilp	2.482	5.213	4.781	0.000	0.001	0.488
Cdk2ap1	-1.030	3.189	-4.781	0.000	0.001	0.487
Cltc	1.363	6.162	4.780	0.000	0.001	0.485
Gls	2.138	7.641	4.778	0.000	0.001	0.480
Gm14137	1.701	4.955	4.776	0.000	0.001	0.476
Hspb6	1.566	5.791	4.775	0.000	0.001	0.475

Cish	-1.284	6.859	-4.775	0.000	0.001	0.474
D11Wsu99e	1.951	6.430	4.774	0.000	0.001	0.472
Cptlc	1.907	5.107	4.774	0.000	0.001	0.471
Sival	1.180	6.751	4.773	0.000	0.001	0.469
4930539E	-2.543	4.683	-4.773	0.000	0.001	0.468
2310051F	1.347	5.954	4.772	0.000	0.001	0.467
2310047M	1.505	6.205	4.772	0.000	0.001	0.467
Pax6	-1.309	3.084	-4.771	0.000	0.001	0.465
5730458M	1.017	3.939	4.771	0.000	0.001	0.465
Fert2	-1.574	6.678	-4.770	0.000	0.001	0.463
Tbcd1	1.095	3.891	4.770	0.000	0.001	0.462
Mccc1	-1.467	7.809	-4.770	0.000	0.001	0.462
Tulp4	1.380	8.587	4.768	0.000	0.001	0.458
Sumf1	1.696	6.713	4.768	0.000	0.001	0.457
Acot10	2.071	8.469	4.768	0.000	0.001	0.457
Fcgr1	2.363	4.909	4.767	0.000	0.001	0.455
Ccny11	1.263	7.418	4.766	0.000	0.001	0.453
Prrx1	1.921	4.722	4.764	0.000	0.001	0.449
Rdh12	-1.245	3.300	-4.763	0.000	0.001	0.447
2810416G	1.234	3.704	4.759	0.000	0.001	0.438
Pla2g2a	-3.447	4.075	-4.759	0.000	0.001	0.437
Sor11	-1.966	7.701	-4.757	0.000	0.001	0.433
Trove2	1.741	6.349	4.757	0.000	0.001	0.433
Eif5a2	2.187	4.731	4.754	0.000	0.001	0.428
Fer114	-3.122	6.065	-4.748	0.000	0.001	0.414
Ralgps2	1.868	4.988	4.748	0.000	0.001	0.413
Phf3	1.151	4.007	4.747	0.000	0.001	0.412
Noc41	1.736	6.743	4.744	0.000	0.001	0.405
Ccdc122	1.658	5.515	4.744	0.000	0.001	0.404
2900011L	1.733	5.898	4.743	0.000	0.001	0.403
Uaca	1.192	5.773	4.742	0.000	0.001	0.400
Cpne1	1.697	8.081	4.738	0.000	0.001	0.391
Dusp3	1.059	4.181	4.736	0.000	0.001	0.386
Npl	1.999	4.562	4.735	0.000	0.001	0.385
Pstpip1	1.205	5.268	4.733	0.000	0.001	0.379
AU018740	1.098	3.834	4.733	0.000	0.001	0.379
Dhx36	1.579	6.931	4.732	0.000	0.001	0.378
Tmem116	-1.254	3.274	-4.725	0.000	0.001	0.362
4833423F	2.169	6.034	4.724	0.000	0.001	0.359
Scel	1.766	5.574	4.723	0.000	0.001	0.359
Acssl	-3.316	6.218	-4.722	0.000	0.001	0.356
Ubash3b	1.439	5.216	4.721	0.000	0.001	0.353
Csrpl	2.265	7.685	4.721	0.000	0.001	0.352
5830443J	1.290	4.512	4.720	0.000	0.001	0.351
Ptgr1	-2.341	10.291	-4.718	0.000	0.001	0.347
Cst8	-2.833	3.721	-4.718	0.000	0.001	0.347
Slc7a6	1.411	6.753	4.717	0.000	0.001	0.343
Cnfn	-1.319	3.122	-4.716	0.000	0.001	0.343
Tgfb1i1	1.258	5.894	4.716	0.000	0.001	0.343
Cd86	1.125	3.880	4.715	0.000	0.001	0.340

Uba6	1.536	6.974	4.713	0.000	0.001	0.336
A130010C1	1.418	5.405	4.713	0.000	0.001	0.335
10-Sep	1.676	6.905	4.711	0.000	0.001	0.331
Cxcl3	3.038	4.420	4.709	0.000	0.001	0.326
Cd36	-2.712	6.035	-4.709	0.000	0.001	0.325
Rrp1	1.711	7.203	4.707	0.000	0.001	0.322
D17Ert16	1.028	4.788	4.706	0.000	0.001	0.321
Zfp334	1.487	4.785	4.704	0.000	0.001	0.316
Pcp411	-2.494	4.443	-4.704	0.000	0.001	0.315
Unc80	-1.026	3.176	-4.704	0.000	0.001	0.314
Lhfp15	-1.091	3.518	-4.698	0.000	0.001	0.302
Sirt3	-1.163	5.652	-4.697	0.000	0.001	0.300
Tmem97	-1.729	6.784	-4.695	0.000	0.001	0.294
Aass	-1.956	3.440	-4.692	0.000	0.001	0.289
Gpatch8	1.067	4.904	4.691	0.000	0.001	0.286
Mial	-2.590	4.709	-4.690	0.000	0.001	0.283
Zbtb4	1.480	7.822	4.689	0.000	0.001	0.282
Ankrd44	1.941	6.057	4.687	0.000	0.001	0.277
Mirlet7d	1.030	6.832	4.685	0.000	0.001	0.273
Zcchc5	-1.027	3.045	-4.681	0.000	0.001	0.264
Rab18	2.249	6.417	4.681	0.000	0.001	0.263
E230012J1	1.070	5.545	4.679	0.000	0.001	0.258
Plscr1	1.355	8.830	4.677	0.000	0.001	0.255
Foxfla	-1.415	4.035	-4.677	0.000	0.001	0.255
Ttpa	-1.221	3.713	-4.676	0.000	0.001	0.252
Efs	-1.037	3.959	-4.674	0.000	0.001	0.249
Ammecr1	1.185	6.305	4.673	0.000	0.001	0.246
Insl3	1.159	5.646	4.672	0.000	0.001	0.244
9930105H1	1.771	7.655	4.672	0.000	0.001	0.243
B230312A2	1.215	6.597	4.671	0.000	0.001	0.242
D10Bwg13i	-3.204	5.939	-4.669	0.000	0.001	0.237
9530067D1	-1.258	3.785	-4.668	0.000	0.001	0.234
Ada	2.613	5.293	4.668	0.000	0.001	0.234
Kpna4	1.814	8.424	4.666	0.000	0.001	0.230
5031439G	1.691	7.281	4.664	0.000	0.001	0.227
Rasef	-1.930	6.463	-4.664	0.000	0.001	0.226
Gar1	1.022	7.934	4.664	0.000	0.001	0.225
Ctsc	2.825	9.888	4.663	0.000	0.001	0.223
AA408296	1.238	6.232	4.662	0.000	0.001	0.222
Galm	-1.795	5.700	-4.658	0.000	0.001	0.214
BC015286	-2.396	3.817	-4.657	0.000	0.001	0.210
Rapgef6	1.148	5.414	4.654	0.000	0.001	0.204
Wip1	1.636	6.250	4.654	0.000	0.001	0.203
Cxcl5	3.706	5.388	4.650	0.000	0.001	0.195
Mbtps2	1.044	5.001	4.648	0.000	0.001	0.190
Ptp4a2	1.453	7.500	4.647	0.000	0.001	0.188
Bdnf	2.191	4.050	4.646	0.000	0.001	0.185
Selm	1.825	7.553	4.646	0.000	0.001	0.185
Col4a5	1.313	5.424	4.642	0.000	0.001	0.178
Ggnbp1	-1.599	3.322	-4.642	0.000	0.001	0.177

Tmem53	1.026	4.780	4.642	0.000	0.001	0.176
Gm14326	1.080	5.541	4.639	0.000	0.001	0.170
Tdrd3	1.198	5.603	4.639	0.000	0.001	0.170
Adhl	-4.610	7.530	-4.639	0.000	0.001	0.169
Qpct	1.855	4.440	4.638	0.000	0.001	0.167
Oit1	-3.681	7.057	-4.634	0.000	0.001	0.159
LOC100048	1.152	5.749	4.633	0.000	0.001	0.156
D19Wsu162	2.012	7.237	4.632	0.000	0.001	0.155
Gart	1.183	7.898	4.631	0.000	0.001	0.153
Aip	1.152	6.410	4.631	0.000	0.001	0.152
Gjal	2.934	7.186	4.631	0.000	0.001	0.152
Tmem65	1.414	8.093	4.630	0.000	0.001	0.151
Ddo	-2.212	3.793	-4.629	0.000	0.001	0.148
Mcc	1.709	5.305	4.627	0.000	0.001	0.143
Cno	1.016	6.278	4.625	0.000	0.001	0.139
Tsc22d2	1.750	6.620	4.623	0.000	0.001	0.134
Slc4a11	1.775	4.978	4.623	0.000	0.001	0.134
Nbea	1.876	7.103	4.620	0.000	0.001	0.128
Gdel	-1.530	8.891	-4.619	0.000	0.001	0.125
Srrm4	-1.029	3.070	-4.619	0.000	0.001	0.125
Ruvbl1	1.321	7.375	4.617	0.000	0.001	0.121
Tmem42	-1.531	7.029	-4.615	0.000	0.001	0.117
Pgf	2.255	5.190	4.614	0.000	0.001	0.113
C78339	1.652	9.168	4.614	0.000	0.001	0.113
Mboat4	-1.534	3.366	-4.613	0.000	0.001	0.112
Gpt2	-2.384	5.721	-4.613	0.000	0.001	0.111
Slc16a9	-1.431	4.390	-4.610	0.000	0.001	0.104
2010002NC	1.736	7.433	4.608	0.000	0.001	0.101
Mum1	1.151	6.481	4.608	0.000	0.001	0.101
Chga	-4.567	5.531	-4.607	0.000	0.001	0.099
Naprt1	-1.932	6.304	-4.606	0.000	0.001	0.096
Slc6a18	-1.009	3.119	-4.605	0.000	0.001	0.095
Tef	1.740	7.130	4.603	0.000	0.002	0.090
Nkx6-3	-4.144	4.941	-4.602	0.000	0.002	0.088
Bnip31	1.205	9.944	4.602	0.000	0.002	0.086
Srgap3	1.820	6.467	4.600	0.000	0.002	0.084
Clec4a3	2.127	4.542	4.600	0.000	0.002	0.083
Myc	1.365	8.391	4.600	0.000	0.002	0.082
Nr1i2	-1.138	3.339	-4.600	0.000	0.002	0.082
Klh130	1.947	4.055	4.599	0.000	0.002	0.081
Fam53c	1.357	7.393	4.599	0.000	0.002	0.080
Ccl2	2.040	5.130	4.597	0.000	0.002	0.075
Nup93	1.245	7.488	4.596	0.000	0.002	0.074
Ovol2	-2.021	4.892	-4.595	0.000	0.002	0.072
Rcn2	2.066	8.395	4.595	0.000	0.002	0.071
Aloxe3	-1.220	3.614	-4.594	0.000	0.002	0.070
Tmem203	1.185	6.075	4.594	0.000	0.002	0.069
Errfil	2.369	9.728	4.593	0.000	0.002	0.066
Sdc4	1.252	10.143	4.590	0.000	0.002	0.061
Cpeb3	-1.435	4.257	-4.590	0.000	0.002	0.060

Klra1	1.754	3.784	4.589	0.000	0.002	0.057
Pecam1	1.399	4.799	4.589	0.000	0.002	0.057
Arrdc3	1.720	7.337	4.588	0.000	0.002	0.057
Dync2h1	1.025	5.025	4.586	0.000	0.002	0.052
Aspa	2.270	6.733	4.586	0.000	0.002	0.052
Acs14	2.165	6.061	4.586	0.000	0.002	0.051
Aars	1.564	7.244	4.585	0.000	0.002	0.050
Snapc1	1.380	6.561	4.585	0.000	0.002	0.049
Krt85	-1.103	3.499	-4.584	0.000	0.002	0.046
Pnlip	-2.713	4.067	-4.582	0.000	0.002	0.043
Npnt	2.033	4.609	4.581	0.000	0.002	0.041
Mpg	1.400	6.763	4.581	0.000	0.002	0.040
Slc25a34	-1.812	3.899	-4.581	0.000	0.002	0.039
Pacrg1	1.089	5.248	4.580	0.000	0.002	0.038
BC094435	1.337	11.681	4.576	0.000	0.002	0.030
Anp32e	1.525	8.405	4.575	0.000	0.002	0.028
Fam43b	-1.002	3.215	-4.573	0.000	0.002	0.022
LOC100045	-2.705	5.202	-4.572	0.000	0.002	0.021
Prdm8	1.180	3.496	4.571	0.000	0.002	0.019
Lgals3	3.215	10.695	4.570	0.000	0.002	0.015
Birc3	1.531	7.854	4.566	0.000	0.002	0.008
Arhgdib	2.207	7.175	4.566	0.000	0.002	0.006
Fbxo6	1.135	7.191	4.565	0.000	0.002	0.004
Nap111	1.906	7.246	4.563	0.000	0.002	0.000
Crygb	-1.164	3.400	-4.561	0.000	0.002	-0.004
2310010G2	1.101	4.458	4.561	0.000	0.002	-0.005
D930017J0	1.337	3.570	4.561	0.000	0.002	-0.005
1600002K0	-1.416	5.106	-4.560	0.000	0.002	-0.006
Pnma12	-1.032	3.775	-4.560	0.000	0.002	-0.007
Alcam	1.316	9.607	4.559	0.000	0.002	-0.009
Oaf	1.757	7.570	4.559	0.000	0.002	-0.009
Pllp	-2.856	8.076	-4.558	0.000	0.002	-0.010
Anxa3	3.294	10.712	4.558	0.000	0.002	-0.012
Mxil	1.459	5.193	4.558	0.000	0.002	-0.012
Gnb5	1.176	5.455	4.557	0.000	0.002	-0.013
Ms4a6b	2.891	6.587	4.557	0.000	0.002	-0.015
Unc13d	1.300	4.769	4.555	0.000	0.002	-0.019
LOC106740	1.195	4.705	4.555	0.000	0.002	-0.019
Cdk13	1.595	5.490	4.554	0.000	0.002	-0.020
Slc44a3	-2.668	7.282	-4.553	0.000	0.002	-0.023
Nrbp1	1.536	6.970	4.552	0.000	0.002	-0.024
Chmp1a	1.305	8.498	4.552	0.000	0.002	-0.025
Zc3h6	1.547	4.432	4.551	0.000	0.002	-0.026
2510009E0	1.057	6.013	4.549	0.000	0.002	-0.031
Bat3	1.494	6.909	4.548	0.000	0.002	-0.033
Parn	1.368	5.898	4.546	0.000	0.002	-0.038
Gm5571	-1.333	3.119	-4.545	0.000	0.002	-0.041
Tcp11	-1.021	3.857	-4.544	0.000	0.002	-0.042
Serpina9	1.801	4.474	4.542	0.000	0.002	-0.048
Myo10	1.199	6.773	4.542	0.000	0.002	-0.048

Jakmip1	-1.076	2.983	-4.539	0.000	0.002	-0.053
Sprr3	-2.078	3.749	-4.539	0.000	0.002	-0.055
Slc36a4	1.542	6.559	4.538	0.000	0.002	-0.056
Tmem50b	-1.287	8.579	-4.538	0.000	0.002	-0.057
Mettl11a	1.214	6.764	4.537	0.000	0.002	-0.058
Cxxc4	-1.621	4.585	-4.537	0.000	0.002	-0.058
C730026J1	1.121	6.988	4.537	0.000	0.002	-0.059
Lyl1	1.067	4.773	4.536	0.000	0.002	-0.060
Ifi47	2.373	6.180	4.536	0.000	0.002	-0.061
Plekhol	1.607	5.692	4.535	0.000	0.002	-0.063
Anpep	-2.157	4.509	-4.534	0.000	0.002	-0.066
Lass4	-2.436	5.341	-4.533	0.000	0.002	-0.067
Rhod	1.269	5.902	4.533	0.000	0.002	-0.068
Me3	-1.834	3.594	-4.530	0.000	0.002	-0.075
Tmem14c	-1.032	9.654	-4.529	0.000	0.002	-0.077
Sdk2	-2.027	4.464	-4.528	0.000	0.002	-0.077
Gsta2	-3.449	4.864	-4.527	0.000	0.002	-0.080
Arid4a	1.144	5.417	4.527	0.000	0.002	-0.080
Fxyd1	1.523	5.123	4.526	0.000	0.002	-0.082
Ccdc109b	2.113	6.236	4.526	0.000	0.002	-0.083
Gale	-1.789	7.240	-4.525	0.000	0.002	-0.086
Cdkn2a	4.352	5.700	4.524	0.000	0.002	-0.088
Ppmlm	1.058	6.568	4.522	0.000	0.002	-0.091
Tuscl	1.353	6.313	4.522	0.000	0.002	-0.092
Isyl	1.026	5.733	4.518	0.000	0.002	-0.100
2310021P1	1.097	7.015	4.514	0.000	0.002	-0.110
Ppmlj	1.281	4.453	4.511	0.000	0.002	-0.117
Ednrb	1.523	4.281	4.508	0.000	0.002	-0.123
Mgmt	-1.106	4.616	-4.508	0.000	0.002	-0.123
Rbm8a	1.029	9.143	4.508	0.000	0.002	-0.123
Calml3	-1.848	3.320	-4.507	0.000	0.002	-0.126
Kdm4a	1.066	6.347	4.507	0.000	0.002	-0.126
Cep192	1.605	6.456	4.506	0.000	0.002	-0.127
Acadsb	-1.621	7.891	-4.506	0.000	0.002	-0.127
Renbp	1.603	4.964	4.505	0.000	0.002	-0.131
Cited2	1.386	5.393	4.502	0.000	0.002	-0.137
Trex1	1.180	5.717	4.502	0.000	0.002	-0.137
Ptpn18	-1.008	7.459	-4.502	0.000	0.002	-0.137
Smarca2	1.635	6.253	4.502	0.000	0.002	-0.137
Sdc3	-1.128	4.966	-4.502	0.000	0.002	-0.137
Tcf19	-1.505	7.363	-4.502	0.000	0.002	-0.137
Clock	1.082	7.259	4.497	0.000	0.002	-0.149
Pcnx	1.366	5.783	4.496	0.000	0.002	-0.150
Zglp1	-1.030	3.903	-4.496	0.000	0.002	-0.151
Mybbp1a	1.405	5.861	4.495	0.000	0.002	-0.153
Fam76b	1.134	8.267	4.494	0.000	0.002	-0.154
Depdc7	1.537	6.283	4.492	0.000	0.002	-0.160
Arhgef4	-1.625	4.470	-4.491	0.000	0.002	-0.161
Lgals8	1.417	4.832	4.491	0.000	0.002	-0.162
Nipal2	-3.079	6.932	-4.490	0.000	0.002	-0.163

Aqr	-1.198	3.857	-4.488	0.000	0.002	-0.168
Cenpc1	1.256	6.996	4.488	0.000	0.002	-0.168
Tk2	1.204	5.842	4.487	0.000	0.002	-0.171
Igfbp6	1.891	4.741	4.487	0.000	0.002	-0.171
Pld6	-1.925	3.655	-4.486	0.000	0.002	-0.173
Zbed6	1.199	4.725	4.485	0.000	0.002	-0.174
I110017F1	-2.559	7.845	-4.483	0.000	0.002	-0.180
Gm94	-2.598	3.514	-4.483	0.000	0.002	-0.180
Ptplb	1.297	4.141	4.482	0.000	0.002	-0.181
BC016423	1.872	6.566	4.482	0.000	0.002	-0.182
2410002F2	1.042	7.122	4.481	0.000	0.002	-0.184
Ndufa12	-1.162	9.705	-4.480	0.000	0.002	-0.187
D4Ertd76e	1.011	4.701	4.478	0.000	0.002	-0.190
Apoc4	1.676	4.445	4.478	0.000	0.002	-0.191
Fam119a	-1.057	5.925	-4.476	0.000	0.002	-0.195
Rasd1	-1.731	3.939	-4.474	0.000	0.002	-0.199
Myef2	1.460	4.633	4.473	0.000	0.002	-0.202
S100a11	1.481	12.101	4.471	0.000	0.002	-0.206
Chdh	-3.442	6.735	-4.466	0.000	0.002	-0.216
Isg2012	1.701	7.345	4.466	0.000	0.002	-0.217
Psm2	1.081	9.281	4.461	0.000	0.002	-0.229
Gpr155	-2.904	5.774	-4.460	0.000	0.002	-0.230
Scara3	2.588	9.043	4.459	0.000	0.002	-0.234
Smcr8	1.113	5.643	4.458	0.000	0.002	-0.235
B130021B1	3.047	5.195	4.458	0.000	0.002	-0.235
Tnfaip8	2.033	8.029	4.456	0.000	0.002	-0.240
Tmem2	1.414	6.660	4.454	0.000	0.002	-0.244
I110019D1	-1.037	3.731	-4.454	0.000	0.002	-0.244
Gzme	2.970	4.352	4.454	0.000	0.002	-0.245
Gadd45g	-1.480	7.979	-4.450	0.000	0.002	-0.253
Farp2	-1.116	4.373	-4.448	0.000	0.002	-0.258
Bnip3	2.705	9.762	4.445	0.000	0.002	-0.265
Ypel1	1.487	3.969	4.444	0.000	0.002	-0.266
Tnn	-1.242	3.760	-4.443	0.000	0.002	-0.269
Bcl2l13	1.033	6.296	4.440	0.000	0.002	-0.275
Anxa9	1.411	4.109	4.439	0.000	0.002	-0.277
2210411K1	-1.728	8.408	-4.438	0.000	0.002	-0.281
2010107G2	-1.528	6.495	-4.437	0.000	0.002	-0.282
Gt (ROSA)2	2.758	7.068	4.436	0.000	0.002	-0.284
Echdc2	-1.529	5.924	-4.436	0.000	0.002	-0.286
6430706D2	1.551	7.135	4.435	0.000	0.002	-0.287
Tubgcp2	1.631	6.280	4.434	0.000	0.002	-0.289
Lrrk2	1.577	4.446	4.432	0.000	0.002	-0.294
Krt79	-1.720	4.459	-4.432	0.000	0.002	-0.295
Trib3	1.524	4.743	4.431	0.000	0.002	-0.297
Cenpb	1.449	6.358	4.430	0.000	0.002	-0.299
Kif5c	1.616	5.595	4.430	0.000	0.002	-0.299
Itgam	2.168	4.498	4.428	0.000	0.002	-0.302
Ube2k	1.293	9.837	4.427	0.000	0.002	-0.305
Hbp1	1.787	5.702	4.427	0.000	0.002	-0.305

Cyp2s1	-3.338	7.692	-4.427	0.000	0.002	-0.306
Tnfrsf22	1.520	4.187	4.425	0.000	0.002	-0.309
Wasl	1.025	9.507	4.425	0.000	0.002	-0.310
Moxd1	2.434	4.906	4.422	0.000	0.002	-0.316
Col16a1	1.537	5.595	4.419	0.000	0.002	-0.323
Nfkbie	1.295	4.207	4.419	0.000	0.002	-0.323
Sfxn3	1.436	7.512	4.419	0.000	0.002	-0.324
Mtf2	1.494	7.316	4.418	0.000	0.002	-0.324
Fam57a	-1.604	7.308	-4.417	0.000	0.002	-0.327
LOC100046	1.475	7.326	4.416	0.000	0.002	-0.331
5930427L	-1.844	6.066	-4.415	0.000	0.002	-0.332
Plekha3	1.712	5.940	4.414	0.000	0.002	-0.335
Prss8	-2.745	6.401	-4.412	0.000	0.002	-0.338
Ppplr8	1.127	6.476	4.411	0.000	0.002	-0.340
Aarsd1	-1.007	6.040	-4.409	0.000	0.002	-0.345
Clk2	1.259	7.314	4.408	0.000	0.002	-0.347
Sh2d4a	-2.167	7.532	-4.408	0.000	0.002	-0.348
Hsd11b2	-1.322	3.930	-4.407	0.000	0.002	-0.350
LOC100047	-1.462	5.344	-4.406	0.000	0.002	-0.352
Slc23a3	-1.579	3.391	-4.405	0.000	0.002	-0.354
Erc1	1.339	5.725	4.403	0.000	0.002	-0.359
Mphosph9	1.110	6.027	4.400	0.000	0.002	-0.365
Hs3st1	1.915	7.222	4.398	0.000	0.002	-0.371
LOC62536	-1.093	2.888	-4.395	0.000	0.002	-0.377
Tmed6	-4.082	6.226	-4.395	0.000	0.002	-0.377
Cep152	1.043	5.436	4.394	0.000	0.002	-0.378
Pde4dip	2.401	5.119	4.393	0.000	0.002	-0.381
D530037H1	1.379	5.995	4.393	0.000	0.002	-0.382
D330022H1	1.108	4.004	4.392	0.000	0.002	-0.384
Gstal	-4.671	9.039	-4.390	0.000	0.002	-0.388
Bivm	1.129	6.585	4.387	0.000	0.002	-0.395
Uqcrc1	-1.204	9.643	-4.387	0.000	0.002	-0.395
Zfp704	1.457	5.890	4.387	0.000	0.002	-0.395
Ptch1	1.851	7.209	4.386	0.000	0.002	-0.398
2210011C2	-1.835	3.656	-4.384	0.000	0.002	-0.400
Aim2	2.171	4.393	4.383	0.000	0.002	-0.404
Clec4a2	1.689	4.876	4.383	0.000	0.002	-0.404
Bcas2	1.058	8.232	4.383	0.000	0.002	-0.405
Aldh1a7	-3.467	6.323	-4.382	0.000	0.002	-0.405
Irf5	1.072	4.988	4.382	0.000	0.002	-0.405
Ppbp	2.034	5.182	4.381	0.000	0.002	-0.407
Fam73a	1.635	4.922	4.381	0.000	0.002	-0.409
Iffo2	1.422	6.516	4.380	0.000	0.002	-0.411
Itgb5	1.645	8.976	4.379	0.000	0.002	-0.412
Cull1	1.154	8.722	4.379	0.000	0.002	-0.412
Gm13648	-2.318	6.807	-4.377	0.000	0.002	-0.416
Prpf39	1.806	6.647	4.377	0.000	0.002	-0.418
Fat1	2.485	9.873	4.376	0.000	0.002	-0.420
Pes1	1.033	7.736	4.375	0.000	0.002	-0.422
Tmprss13	-1.194	3.212	-4.375	0.000	0.002	-0.422

Ptger2	1.393	3.661	4.375	0.000	0.002	-0.423
Mmp13	3.227	4.928	4.374	0.000	0.002	-0.423
Per2	1.455	5.043	4.374	0.000	0.002	-0.424
Lypd6b	-3.147	5.698	-4.373	0.000	0.002	-0.425
Ncl	1.288	10.260	4.370	0.000	0.002	-0.432
Syng3	-1.036	3.831	-4.368	0.000	0.002	-0.436
6720468P1	-1.269	3.450	-4.367	0.000	0.002	-0.439
Cdc42ep3	1.102	4.757	4.366	0.000	0.002	-0.442
Krt1	-1.632	3.931	-4.365	0.000	0.002	-0.443
Ces3	-2.135	3.651	-4.364	0.000	0.002	-0.446
Spin1	1.682	9.003	4.363	0.000	0.002	-0.448
Nfkb1	1.273	8.090	4.360	0.000	0.002	-0.454
Mtmr4	1.498	5.078	4.359	0.000	0.002	-0.457
Aplp1	-1.073	3.448	-4.358	0.000	0.002	-0.460
Tmem139	-2.116	5.361	-4.358	0.000	0.002	-0.460
LOC100046	1.922	7.483	4.357	0.000	0.002	-0.463
Trrap	1.006	7.481	4.357	0.000	0.002	-0.463
Idh2	-1.125	8.856	-4.356	0.000	0.002	-0.464
Tmsb10	1.227	10.368	4.354	0.000	0.002	-0.469
D030002E6	1.433	5.520	4.352	0.000	0.002	-0.473
Ifnar2	1.191	5.109	4.352	0.000	0.002	-0.474
LOC100047	1.037	5.729	4.349	0.000	0.002	-0.479
Krt7	2.587	10.255	4.349	0.000	0.002	-0.480
Sema3c	1.348	6.655	4.346	0.000	0.002	-0.487
Dbt	-1.509	7.472	-4.343	0.000	0.002	-0.494
Ppp4r2	1.530	9.750	4.342	0.000	0.002	-0.496
Haus2	1.657	5.815	4.341	0.000	0.002	-0.497
Cadm1	1.969	8.048	4.341	0.000	0.002	-0.498
Sox15	-1.214	3.477	-4.341	0.000	0.002	-0.499
Parp3	1.128	7.535	4.341	0.000	0.002	-0.499
Enpp1	1.346	7.601	4.339	0.000	0.002	-0.503
Bhlhe40	1.867	9.549	4.338	0.000	0.002	-0.505
Kcne4	1.534	4.806	4.336	0.000	0.002	-0.508
P2rx7	1.711	4.018	4.336	0.000	0.002	-0.510
Idh3a	-1.673	5.908	-4.335	0.000	0.002	-0.512
Aktip	1.395	7.122	4.333	0.000	0.002	-0.516
Vcl	2.009	9.362	4.330	0.000	0.002	-0.523
0610012H6	-1.348	2.932	-4.324	0.000	0.002	-0.535
Bok	1.579	8.170	4.324	0.000	0.002	-0.536
Pla2g10	-4.266	5.963	-4.323	0.000	0.002	-0.538
Psip1	1.910	6.276	4.322	0.000	0.002	-0.541
Klf6	2.049	8.142	4.321	0.000	0.002	-0.542
Tor1aip1	1.585	7.416	4.321	0.000	0.002	-0.544
Phlpp1	1.010	6.836	4.319	0.000	0.002	-0.547
Rbm47	-1.418	7.250	-4.319	0.000	0.002	-0.548
Gm2a	2.660	5.293	4.318	0.000	0.002	-0.550
Cpt2	-1.269	8.200	-4.316	0.000	0.002	-0.554
Zdhhc18	1.162	6.901	4.316	0.000	0.002	-0.554
Bco2	-1.433	4.840	-4.314	0.000	0.002	-0.557
Mapre1	1.816	8.608	4.311	0.000	0.002	-0.564

Irf2bp2	1.759	7.749	4.311	0.000	0.002	-0.566
Sgms2	2.504	8.976	4.307	0.000	0.002	-0.575
Fam46c	-1.975	4.199	-4.306	0.000	0.002	-0.575
Cyp2d26	-2.183	4.471	-4.306	0.000	0.002	-0.577
P4ha1	1.870	4.298	4.305	0.000	0.002	-0.580
Dullard	1.165	6.948	4.302	0.000	0.002	-0.585
Tcf23	-3.034	4.896	-4.302	0.000	0.002	-0.585
Rps25	1.652	7.374	4.301	0.000	0.002	-0.588
9330112Fz	1.060	4.711	4.300	0.000	0.003	-0.591
Gngt1	-1.113	3.229	-4.299	0.000	0.003	-0.592
Wdr81	1.238	6.209	4.296	0.000	0.003	-0.599
Voppl	1.755	7.395	4.296	0.000	0.003	-0.600
Micalc1	-1.408	3.802	-4.295	0.000	0.003	-0.600
Rab19	-1.312	5.166	-4.293	0.000	0.003	-0.606
Mtmr2	1.199	5.800	4.292	0.000	0.003	-0.607
2410042Dz	1.148	7.027	4.290	0.000	0.003	-0.612
Acat2	-1.247	9.134	-4.289	0.000	0.003	-0.614
Jarid2	1.111	5.963	4.289	0.000	0.003	-0.614
Fbxo11	1.597	7.440	4.288	0.000	0.003	-0.616
4933433P1	1.006	6.981	4.288	0.000	0.003	-0.617
1700001K1	-1.054	3.258	-4.287	0.000	0.003	-0.618
Angpt2	1.485	4.941	4.284	0.000	0.003	-0.625
Tmem159	1.603	6.120	4.284	0.000	0.003	-0.625
Rad18	1.298	4.591	4.284	0.000	0.003	-0.627
Zfp354c	1.122	4.371	4.283	0.000	0.003	-0.628
0610010FC	1.276	7.407	4.281	0.000	0.003	-0.633
Kpna3	1.176	5.733	4.279	0.000	0.003	-0.637
LOC100046	1.153	4.448	4.279	0.000	0.003	-0.637
4933407CC	-1.379	3.882	-4.279	0.000	0.003	-0.637
Ifitm6	2.147	4.812	4.278	0.000	0.003	-0.638
Opn3	-1.429	5.341	-4.278	0.000	0.003	-0.638
Casp8ap2	1.302	7.075	4.278	0.000	0.003	-0.639
Ctsa	1.794	8.918	4.278	0.000	0.003	-0.639
Abi2	1.092	6.237	4.275	0.000	0.003	-0.646
Aplg2	-1.037	5.812	-4.275	0.000	0.003	-0.647
Pafah1b2	1.457	6.641	4.275	0.000	0.003	-0.647
Zfp385b	-2.177	4.942	-4.274	0.000	0.003	-0.648
Rsl1d1	1.411	8.408	4.272	0.000	0.003	-0.654
Rab33b	1.095	7.619	4.271	0.000	0.003	-0.655
Sox21	-2.625	7.160	-4.269	0.000	0.003	-0.659
Tspan13	-2.639	9.096	-4.265	0.000	0.003	-0.668
Ptk2	1.961	7.810	4.264	0.000	0.003	-0.670
Sertad2	1.168	6.670	4.263	0.000	0.003	-0.672
Nup2101	-1.035	3.294	-4.260	0.000	0.003	-0.679
AW557046	-1.076	3.425	-4.260	0.000	0.003	-0.680
Ctnna1	1.708	6.280	4.259	0.000	0.003	-0.681
Zfp52	2.154	6.808	4.257	0.000	0.003	-0.687
Abhd2	1.476	5.056	4.256	0.000	0.003	-0.688
Rps6ka5	1.038	3.898	4.256	0.000	0.003	-0.689
Maml1	1.538	7.280	4.256	0.000	0.003	-0.689

4833408D1	1.220	6.254	4.256	0.000	0.003	-0.690
2210409DC	-1.141	3.580	-4.252	0.000	0.003	-0.698
Zdhhc5	1.042	6.891	4.251	0.000	0.003	-0.699
Zbtb34	1.144	5.353	4.250	0.000	0.003	-0.702
Pcyt2	-1.172	7.722	-4.248	0.000	0.003	-0.706
Fbx15	1.184	8.675	4.248	0.000	0.003	-0.707
Atxn1	1.374	6.488	4.244	0.000	0.003	-0.716
Aadac	-3.001	4.811	-4.243	0.000	0.003	-0.718
Vps11	1.424	6.044	4.243	0.000	0.003	-0.718
Serpina3r	3.138	6.727	4.242	0.000	0.003	-0.720
Ifi204	2.283	4.260	4.242	0.000	0.003	-0.720
Dpy1914	2.073	7.072	4.242	0.000	0.003	-0.721
Rab8a	1.241	7.907	4.242	0.000	0.003	-0.721
Il17rc	-1.133	6.440	-4.241	0.000	0.003	-0.722
Lama2	1.383	4.537	4.240	0.000	0.003	-0.724
Mup10	-3.514	3.903	-4.239	0.000	0.003	-0.726
Sos2	1.979	7.678	4.239	0.000	0.003	-0.727
Ndn	2.002	4.281	4.237	0.000	0.003	-0.732
Cryz	1.340	7.983	4.236	0.000	0.003	-0.735
Ms4a6c	2.251	5.680	4.233	0.000	0.003	-0.739
Itgb4	1.523	7.466	4.233	0.000	0.003	-0.740
AI503301	1.226	5.595	4.232	0.000	0.003	-0.743
Acsm3	-3.041	6.338	-4.232	0.000	0.003	-0.743
Rock2	1.474	7.633	4.232	0.000	0.003	-0.743
Pcdhgal	1.154	5.947	4.227	0.000	0.003	-0.753
Naalad2	1.407	3.916	4.227	0.000	0.003	-0.753
Clca1	2.360	4.333	4.227	0.000	0.003	-0.755
BC028454	1.085	4.766	4.226	0.000	0.003	-0.755
Lac1	-1.581	5.194	-4.226	0.000	0.003	-0.756
Trim33	1.592	8.576	4.225	0.000	0.003	-0.757
Acap2	1.991	7.828	4.225	0.000	0.003	-0.758
Mmp3	2.532	4.658	4.222	0.000	0.003	-0.765
Cenpm	-1.196	5.014	-4.221	0.000	0.003	-0.766
Ssx2ip	1.897	5.650	4.221	0.000	0.003	-0.766
Sucnr1	-1.124	2.966	-4.220	0.000	0.003	-0.770
Tmem216	1.108	5.470	4.219	0.000	0.003	-0.773
Klf15	-1.938	4.944	-4.218	0.000	0.003	-0.775
E2f2	-1.052	4.733	-4.214	0.000	0.003	-0.782
Cldn3	2.514	5.517	4.213	0.000	0.003	-0.785
Acot9	2.295	8.290	4.210	0.001	0.003	-0.791
Midlip1	-1.304	8.516	-4.209	0.001	0.003	-0.795
Enpp2	1.066	3.894	4.207	0.001	0.003	-0.798
Abo	-1.619	2.928	-4.206	0.001	0.003	-0.801
BC051142	-1.210	3.351	-4.202	0.001	0.003	-0.809
Cd300a	1.182	4.111	4.201	0.001	0.003	-0.812
Gpx7	1.426	5.514	4.201	0.001	0.003	-0.812
Gm9983	-1.230	6.646	-4.201	0.001	0.003	-0.812
Kank2	1.241	5.241	4.199	0.001	0.003	-0.817
4930573C	-1.005	4.084	-4.196	0.001	0.003	-0.823
Maob	-2.261	6.026	-4.195	0.001	0.003	-0.825

Hcls1	1.598	4.064	4.194	0.001	0.003	-0.827
Ehd4	1.583	7.760	4.192	0.001	0.003	-0.833
Zfand5	1.858	9.001	4.191	0.001	0.003	-0.834
D1Ert448	1.024	5.630	4.189	0.001	0.003	-0.838
LOC10004	-1.038	5.878	-4.189	0.001	0.003	-0.839
Ptf1a	-1.596	3.656	-4.189	0.001	0.003	-0.840
Chd2	1.172	7.578	4.189	0.001	0.003	-0.840
Fnip2	1.147	7.680	4.187	0.001	0.003	-0.844
Lypd3	-1.117	3.507	-4.185	0.001	0.003	-0.848
Sh3d19	1.117	5.080	4.184	0.001	0.003	-0.849
Slc16a2	1.281	4.269	4.184	0.001	0.003	-0.850
Mpp5	1.885	7.053	4.184	0.001	0.003	-0.851
Cul4b	1.083	6.989	4.179	0.001	0.003	-0.861
Gtf2e2	1.599	7.938	4.178	0.001	0.003	-0.863
Dnajc8	1.584	8.086	4.177	0.001	0.003	-0.866
Rlim	1.121	8.238	4.175	0.001	0.003	-0.869
Hs2st1	1.477	4.473	4.175	0.001	0.003	-0.870
Nudt16	1.096	6.601	4.174	0.001	0.003	-0.872
Rtkn	1.166	6.480	4.173	0.001	0.003	-0.875
Itfg3	-1.228	8.405	-4.171	0.001	0.003	-0.880
BC013712	1.032	4.196	4.171	0.001	0.003	-0.880
Alkbh8	1.065	5.597	4.168	0.001	0.003	-0.886
Gm12372	1.230	8.637	4.168	0.001	0.003	-0.887
Jmjd1c	1.640	7.879	4.163	0.001	0.003	-0.897
Mettl1	-1.567	4.718	-4.162	0.001	0.003	-0.899
4933411K2	1.778	4.685	4.162	0.001	0.003	-0.900
Rbpj1	-1.192	3.542	-4.161	0.001	0.003	-0.903
Cnot8	1.141	7.271	4.160	0.001	0.003	-0.904
Mbnl3	-1.405	3.935	-4.159	0.001	0.003	-0.907
9130221L2	-1.635	3.670	-4.159	0.001	0.003	-0.907
Amy2a2	-4.531	5.986	-4.159	0.001	0.003	-0.907
Ccdc141	-1.455	3.849	-4.158	0.001	0.003	-0.909
Cd47	1.706	9.073	4.157	0.001	0.003	-0.911
Wfs1	1.247	6.167	4.155	0.001	0.003	-0.915
Smndc1	1.077	6.007	4.153	0.001	0.003	-0.920
Nt5dc2	1.456	4.707	4.152	0.001	0.003	-0.922
Rcan3	1.334	6.505	4.148	0.001	0.003	-0.931
Kdelc2	1.270	6.774	4.147	0.001	0.003	-0.934
9630013K1	-1.014	3.014	-4.146	0.001	0.003	-0.935
Ptpn5	-1.060	3.324	-4.146	0.001	0.003	-0.935
28100430C	1.087	5.798	4.146	0.001	0.003	-0.936
Hunk	1.786	5.512	4.145	0.001	0.003	-0.937
Paip2b	1.107	7.673	4.145	0.001	0.003	-0.938
Dnajc4	-1.040	7.423	-4.142	0.001	0.003	-0.944
Fut2	-2.343	7.627	-4.142	0.001	0.003	-0.945
Uap111	1.440	7.135	4.140	0.001	0.003	-0.948
AI607873	1.952	4.150	4.140	0.001	0.003	-0.949
Lrrc4	-1.257	3.394	-4.137	0.001	0.003	-0.955
Comtd1	-1.498	6.644	-4.136	0.001	0.003	-0.957
Dnajc5	1.727	7.767	4.134	0.001	0.003	-0.962

Dok2	1.707	5.239	4.134	0.001	0.003	-0.963
Pcsk1	-1.986	3.491	-4.132	0.001	0.003	-0.968
Agr2	-5.263	9.165	-4.131	0.001	0.003	-0.969
Nme3	-1.295	7.080	-4.131	0.001	0.003	-0.970
Parp10	1.274	5.274	4.131	0.001	0.003	-0.970
Dmx12	1.653	5.414	4.130	0.001	0.003	-0.972
Ftsj3	1.182	6.214	4.128	0.001	0.003	-0.975
AI256396	2.036	4.536	4.128	0.001	0.003	-0.976
Phc1	1.056	7.057	4.128	0.001	0.003	-0.976
Ildr1	-1.041	3.071	-4.128	0.001	0.003	-0.977
Mfhas1	1.384	7.734	4.126	0.001	0.003	-0.980
Sprrla	3.009	9.376	4.124	0.001	0.003	-0.984
Wdr1	1.288	8.368	4.124	0.001	0.003	-0.986
Zfp238	1.288	8.452	4.121	0.001	0.003	-0.991
Pigx	1.507	8.145	4.120	0.001	0.003	-0.993
Crispl	3.039	4.684	4.120	0.001	0.003	-0.994
LOC49725	-1.332	3.667	-4.119	0.001	0.003	-0.997
Phkg2	1.264	7.006	4.118	0.001	0.003	-0.998
Hey1	1.263	5.146	4.118	0.001	0.003	-0.998
Rgs17	1.771	3.673	4.117	0.001	0.003	-1.000
Nek3	1.455	5.555	4.117	0.001	0.003	-1.000
Auts2	1.216	4.397	4.111	0.001	0.003	-1.014
2010205A1	3.327	8.813	4.108	0.001	0.003	-1.021
1E+08	1.978	5.857	4.106	0.001	0.003	-1.026
Flii	1.318	8.256	4.106	0.001	0.003	-1.026
Cebpb	1.483	9.221	4.105	0.001	0.003	-1.027
Kctd9	1.664	6.306	4.105	0.001	0.003	-1.027
Sh3tcl	1.194	5.135	4.105	0.001	0.003	-1.028
Sacs	1.012	3.447	4.103	0.001	0.003	-1.032
Sprr2a1	-4.657	10.683	-4.101	0.001	0.004	-1.036
1700019B	-1.190	3.191	-4.101	0.001	0.004	-1.038
Arl6ip6	1.022	6.956	4.097	0.001	0.004	-1.045
Mfsd4	-2.609	6.752	-4.095	0.001	0.004	-1.050
1700086L1	-1.843	3.348	-4.090	0.001	0.004	-1.062
Tnrc6a	1.430	7.863	4.089	0.001	0.004	-1.064
Galnt16	-2.543	3.951	-4.087	0.001	0.004	-1.068
Slc39a11	-2.091	8.264	-4.086	0.001	0.004	-1.070
Fam178a	1.241	7.611	4.086	0.001	0.004	-1.070
Hip1	1.305	4.247	4.084	0.001	0.004	-1.074
Coro2b	-1.142	4.330	-4.081	0.001	0.004	-1.081
Sectmlb	-2.350	3.964	-4.081	0.001	0.004	-1.082
Unc45a	1.178	5.626	4.079	0.001	0.004	-1.085
D14Ertd4	1.212	6.017	4.079	0.001	0.004	-1.085
Has2	1.838	4.861	4.079	0.001	0.004	-1.086
Ttl	1.043	5.130	4.079	0.001	0.004	-1.087
Fabp4	2.542	8.426	4.078	0.001	0.004	-1.088
Prr151	-2.179	7.803	-4.078	0.001	0.004	-1.088
Ahr	2.121	8.156	4.077	0.001	0.004	-1.090
Gigyf1	1.017	7.448	4.075	0.001	0.004	-1.095
Vtn	-2.093	3.916	-4.074	0.001	0.004	-1.097

Cacnb3	1.294	6.759	4.073	0.001	0.004	-1.099
Foxa3	-2.614	6.680	-4.072	0.001	0.004	-1.102
Rbm3	1.763	11.244	4.070	0.001	0.004	-1.106
Tmem209	1.014	5.755	4.069	0.001	0.004	-1.107
Ing3	1.322	6.165	4.066	0.001	0.004	-1.116
Cdca2	-1.517	5.042	-4.064	0.001	0.004	-1.118
Gars	1.212	9.708	4.063	0.001	0.004	-1.121
Atxn2	1.183	8.376	4.061	0.001	0.004	-1.126
Cox10	-1.083	5.335	-4.059	0.001	0.004	-1.132
Tec	1.548	6.348	4.058	0.001	0.004	-1.133
Cetn4	1.521	5.235	4.058	0.001	0.004	-1.133
Ifi203	2.733	5.534	4.057	0.001	0.004	-1.135
Naalad12	-1.017	4.073	-4.057	0.001	0.004	-1.136
Setd6	-1.158	6.948	-4.056	0.001	0.004	-1.137
Dnajb6	1.133	5.905	4.056	0.001	0.004	-1.138
Pex11a	-1.046	5.936	-4.054	0.001	0.004	-1.142
Itpkc	1.165	5.806	4.054	0.001	0.004	-1.143
Gmpr2	1.187	6.570	4.053	0.001	0.004	-1.143
Synj1	1.481	6.035	4.052	0.001	0.004	-1.146
Gm8615	1.467	6.455	4.052	0.001	0.004	-1.147
Ccdc64b	-2.107	4.381	-4.051	0.001	0.004	-1.148
Camk2d	1.403	7.075	4.051	0.001	0.004	-1.150
1700016K1	-1.828	4.410	-4.047	0.001	0.004	-1.157
Plekhn1	1.016	4.145	4.047	0.001	0.004	-1.157
Rsrc1	1.275	6.595	4.045	0.001	0.004	-1.162
Ctdspl2	1.636	6.948	4.040	0.001	0.004	-1.173
Pstk	-1.051	6.656	-4.040	0.001	0.004	-1.173
B230219Dz	1.474	9.574	4.040	0.001	0.004	-1.174
Nrip1	1.594	7.538	4.039	0.001	0.004	-1.175
9230108I1	1.022	6.715	4.039	0.001	0.004	-1.176
Rassf2	1.253	3.899	4.037	0.001	0.004	-1.180
Trfr2	2.539	5.343	4.033	0.001	0.004	-1.189
Ift81	1.008	5.829	4.032	0.001	0.004	-1.190
061001001	-1.535	11.338	-4.030	0.001	0.004	-1.197
Plscr4	1.887	4.234	4.029	0.001	0.004	-1.197
Cdc37	1.668	8.825	4.028	0.001	0.004	-1.201
Ufd11	1.336	7.265	4.027	0.001	0.004	-1.202
Sema3e	1.961	5.227	4.027	0.001	0.004	-1.204
Vps41	1.125	6.764	4.026	0.001	0.004	-1.204
Pion	1.204	3.484	4.026	0.001	0.004	-1.205
Gcat	-1.535	5.548	-4.025	0.001	0.004	-1.206
Fgl1	-1.085	3.821	-4.025	0.001	0.004	-1.207
Batf2	-1.041	3.872	-4.025	0.001	0.004	-1.207
9130409Jz	-2.097	4.271	-4.025	0.001	0.004	-1.208
Trh	-1.049	3.245	-4.023	0.001	0.004	-1.211
Gcnt2	1.430	4.191	4.023	0.001	0.004	-1.212
Pigm	1.287	5.347	4.017	0.001	0.004	-1.226
Sort1	-1.615	7.943	-4.016	0.001	0.004	-1.226
Ptdss1	-1.112	3.740	-4.015	0.001	0.004	-1.229
Nup155	1.243	6.046	4.015	0.001	0.004	-1.230

Mmaa	-1.185	5.733	-4.015	0.001	0.004	-1.230
Phf1	1.034	5.463	4.014	0.001	0.004	-1.231
Tbcd17	1.171	6.246	4.012	0.001	0.004	-1.235
Pde4b	1.068	4.483	4.011	0.001	0.004	-1.239
Tfblm	-1.071	4.263	-4.011	0.001	0.004	-1.239
Egfr	1.247	6.788	4.011	0.001	0.004	-1.239
Armc10	1.365	7.809	4.010	0.001	0.004	-1.241
Myo1b	1.772	6.434	4.007	0.001	0.004	-1.247
Ggps1	1.246	5.693	4.005	0.001	0.004	-1.251
Actl6a	1.294	7.495	4.003	0.001	0.004	-1.256
Zfp622	1.020	6.625	4.003	0.001	0.004	-1.256
Serpina3g	1.510	4.260	4.002	0.001	0.004	-1.259
Ppp1r13l	1.369	6.084	4.002	0.001	0.004	-1.260
5330406Mz	1.643	7.276	4.001	0.001	0.004	-1.261
Mynn	1.122	3.927	4.000	0.001	0.004	-1.263
LOC100048	1.319	7.909	3.996	0.001	0.004	-1.272
Sox18	1.471	5.345	3.994	0.001	0.004	-1.276
Rab25	-2.725	7.929	-3.992	0.001	0.004	-1.282
St14	-2.270	8.290	-3.991	0.001	0.004	-1.283
Atp6v1b2	1.762	8.565	3.990	0.001	0.004	-1.284
A230061C1	1.386	6.703	3.990	0.001	0.004	-1.286
Sstr2	-1.677	4.236	-3.987	0.001	0.004	-1.292
Nek1	1.416	6.227	3.987	0.001	0.004	-1.293
Osbpl1a	-1.476	6.430	-3.986	0.001	0.004	-1.294
Gstt3	-1.853	6.278	-3.985	0.001	0.004	-1.296
2-Sep	1.353	9.306	3.985	0.001	0.004	-1.296
Tlr2	1.536	5.104	3.983	0.001	0.004	-1.301
Odz3	-1.029	3.713	-3.982	0.001	0.004	-1.303
Irx5	2.159	6.442	3.980	0.001	0.004	-1.307
4932415G1	-1.015	4.514	-3.977	0.001	0.004	-1.314
Zmynd8	1.599	8.085	3.977	0.001	0.004	-1.315
D19Ert4C	1.573	6.815	3.976	0.001	0.004	-1.316
Tspan5	1.589	5.724	3.976	0.001	0.004	-1.316
Clybl	-1.662	6.313	-3.976	0.001	0.004	-1.317
Krt13	-2.344	4.224	-3.976	0.001	0.004	-1.318
Tead4	1.016	3.423	3.973	0.001	0.004	-1.323
Trim3	1.007	6.154	3.973	0.001	0.004	-1.324
Svep1	1.411	4.491	3.972	0.001	0.004	-1.325
Gbp2	2.188	4.639	3.971	0.001	0.004	-1.329
Prdm5	1.412	4.944	3.970	0.001	0.004	-1.329
Tmprss11e	1.800	3.608	3.970	0.001	0.004	-1.331
Eps8	1.789	8.532	3.969	0.001	0.004	-1.332
2610001JC	1.430	8.946	3.969	0.001	0.004	-1.332
Lrwd1	1.070	6.466	3.969	0.001	0.004	-1.332
Tm4sf5	-2.935	5.395	-3.967	0.001	0.004	-1.336
Scn1lg	-1.123	3.790	-3.966	0.001	0.004	-1.338
Nid2	1.411	4.533	3.964	0.001	0.004	-1.344
Trib2	1.775	6.735	3.957	0.001	0.004	-1.359
Mfsd6	-1.019	5.402	-3.957	0.001	0.004	-1.360
Celf2	1.415	7.208	3.956	0.001	0.004	-1.363

Prss32	-1.836	3.766	-3.955	0.001	0.004	-1.364
Phgdh	1.667	7.624	3.953	0.001	0.004	-1.368
1810073Gz	-1.073	3.209	-3.953	0.001	0.004	-1.369
Cfb	1.924	6.580	3.951	0.001	0.005	-1.372
Ptprc	2.681	7.354	3.951	0.001	0.005	-1.373
Slc35b4	1.005	4.873	3.950	0.001	0.005	-1.376
Rbp7	-1.914	3.854	-3.949	0.001	0.005	-1.378
Vgll4	1.464	7.181	3.947	0.001	0.005	-1.383
4833441D1	2.314	5.710	3.945	0.001	0.005	-1.386
Evi2b	1.444	5.054	3.945	0.001	0.005	-1.387
Fam107a	2.858	4.721	3.944	0.001	0.005	-1.388
Apobec2	-1.493	3.097	-3.944	0.001	0.005	-1.389
Pim1	1.168	4.974	3.944	0.001	0.005	-1.389
Robo1	1.868	4.148	3.942	0.001	0.005	-1.394
Ccr2	1.364	4.442	3.941	0.001	0.005	-1.394
Igh-2	3.034	9.044	3.941	0.001	0.005	-1.395
D030041Hz	1.302	5.512	3.940	0.001	0.005	-1.397
Lgals3bp	1.763	9.173	3.938	0.001	0.005	-1.402
Ptprg	1.039	6.358	3.936	0.001	0.005	-1.407
Slc41a2	-1.815	7.687	-3.935	0.001	0.005	-1.409
Arhgap21	1.651	7.344	3.934	0.001	0.005	-1.412
1700047I1	1.200	4.436	3.931	0.001	0.005	-1.418
Ifi205	3.109	6.249	3.931	0.001	0.005	-1.418
Slc25a4	1.107	10.751	3.930	0.001	0.005	-1.419
LOC55290f	1.084	5.579	3.930	0.001	0.005	-1.420
Katnall	1.036	3.315	3.930	0.001	0.005	-1.420
Spdef	-2.880	6.352	-3.929	0.001	0.005	-1.421
Pigt	-1.783	5.338	-3.927	0.001	0.005	-1.426
Ttc39a	-2.318	7.014	-3.927	0.001	0.005	-1.427
LOC10004f	1.119	7.443	3.926	0.001	0.005	-1.428
LOC10004z	1.063	4.719	3.926	0.001	0.005	-1.429
Ccl24	1.491	4.421	3.925	0.001	0.005	-1.431
Slc2a1	1.596	9.388	3.923	0.001	0.005	-1.435
Ubqln1	1.273	6.327	3.921	0.001	0.005	-1.439
Myh6	-1.181	3.438	-3.921	0.001	0.005	-1.441
Capn13	-2.188	3.790	-3.920	0.001	0.005	-1.442
Gbp6	1.565	6.161	3.919	0.001	0.005	-1.444
Edc3	1.142	6.297	3.918	0.001	0.005	-1.446
Zfp326	1.318	6.509	3.917	0.001	0.005	-1.448
Kcnq1	-2.158	7.184	-3.917	0.001	0.005	-1.449
Fubp1	1.349	7.150	3.916	0.001	0.005	-1.451
Chst1	1.506	4.822	3.914	0.001	0.005	-1.455
Ankrd17	1.501	8.539	3.914	0.001	0.005	-1.455
Tox4	1.237	7.196	3.911	0.001	0.005	-1.462
1700009P1	-1.023	4.269	-3.911	0.001	0.005	-1.463
Psma7	1.092	10.149	3.910	0.001	0.005	-1.464
Wfdc15b	-2.538	4.361	-3.905	0.001	0.005	-1.476
Rnf217	1.336	7.471	3.903	0.001	0.005	-1.481
8430408Gz	2.373	6.826	3.901	0.001	0.005	-1.484
Mreg	-1.473	5.017	-3.901	0.001	0.005	-1.484

Ddx59	1.028	5.235	3.900	0.001	0.005	-1.486
Stx16	1.504	7.406	3.900	0.001	0.005	-1.487
E330037M	-2.086	3.405	-3.900	0.001	0.005	-1.487
Lox	2.496	7.998	3.898	0.001	0.005	-1.491
Zkscan14	1.007	5.517	3.898	0.001	0.005	-1.492
Klhdc9	1.155	6.660	3.895	0.001	0.005	-1.497
1810031K1	1.280	7.472	3.895	0.001	0.005	-1.497
Mgea5	1.206	8.070	3.894	0.001	0.005	-1.501
A430088I1	-1.166	3.796	-3.891	0.001	0.005	-1.507
Zfp869	1.005	6.037	3.891	0.001	0.005	-1.507
1810058N	-2.043	4.623	-3.891	0.001	0.005	-1.508
Hlfoo	-1.023	3.247	-3.889	0.001	0.005	-1.512
Apcdd1	2.002	4.661	3.888	0.001	0.005	-1.514
Smc3	1.711	7.880	3.887	0.001	0.005	-1.516
Gpm6a	-2.543	3.754	-3.885	0.001	0.005	-1.520
L2hgdh	-1.219	6.328	-3.884	0.001	0.005	-1.522
Vcpipl	1.687	6.885	3.883	0.001	0.005	-1.524
Sfrs14	1.004	5.997	3.883	0.001	0.005	-1.525
Nedd41	1.307	6.988	3.881	0.001	0.005	-1.529
Sephs1	1.022	6.608	3.879	0.001	0.005	-1.533
Sntb2	1.004	5.032	3.878	0.001	0.005	-1.536
Ovca2	-1.018	5.275	-3.877	0.001	0.005	-1.538
Gan	1.719	6.673	3.874	0.001	0.005	-1.545
Spns1	1.086	5.994	3.873	0.001	0.005	-1.546
Kdm3a	1.990	8.976	3.872	0.001	0.005	-1.548
4933406C1	-1.123	3.300	-3.872	0.001	0.005	-1.550
Yaf2	1.383	7.922	3.871	0.001	0.005	-1.552
Tsen15	1.098	6.241	3.870	0.001	0.005	-1.555
LOC100045	1.367	6.483	3.869	0.001	0.005	-1.557
Cpm	-2.204	5.025	-3.868	0.001	0.005	-1.559
Itm2a	2.011	7.425	3.864	0.001	0.005	-1.566
Cym	-2.201	4.419	-3.864	0.001	0.005	-1.567
Gpsm3	1.055	4.915	3.864	0.001	0.005	-1.568
Set	1.131	9.662	3.863	0.001	0.005	-1.569
Ab11	1.306	8.022	3.862	0.001	0.005	-1.573
1110007C	1.143	8.570	3.860	0.001	0.005	-1.576
Peci	1.352	8.440	3.859	0.001	0.005	-1.579
Csf3r	1.025	4.411	3.858	0.001	0.005	-1.580
4930595D1	1.037	3.227	3.857	0.001	0.005	-1.583
Rac1	1.421	10.294	3.856	0.001	0.005	-1.584
Myh7	-1.378	3.472	-3.855	0.001	0.005	-1.587
Kdmla	1.391	7.808	3.855	0.001	0.005	-1.587
Gml2844	1.631	9.199	3.854	0.001	0.005	-1.590
Rtcd1	1.190	8.428	3.853	0.001	0.005	-1.592
Cd84	1.774	5.518	3.852	0.001	0.005	-1.594
Ctsf	1.547	5.718	3.849	0.001	0.005	-1.601
Atf2	1.451	6.779	3.848	0.001	0.005	-1.602
Nrxn2	-1.041	3.680	-3.848	0.001	0.005	-1.602
Rabif	1.205	7.485	3.848	0.001	0.005	-1.603
Dlg1	1.088	4.162	3.848	0.001	0.005	-1.603

Slurp1	-2.026	4.542	-3.847	0.001	0.005	-1.604
Igbp1	-1.055	3.341	-3.846	0.001	0.005	-1.608
Fzd3	-1.134	3.037	-3.842	0.001	0.005	-1.616
Cmtm8	-2.025	7.013	-3.839	0.001	0.005	-1.622
Fjx1	1.084	3.963	3.838	0.001	0.005	-1.625
Gm6030	-1.499	3.317	-3.834	0.001	0.005	-1.635
Stard3nl	1.696	7.851	3.831	0.001	0.006	-1.640
Timp3	1.575	4.057	3.831	0.001	0.006	-1.642
Gpr133	1.760	4.908	3.830	0.001	0.006	-1.642
Oxsr1	1.232	7.210	3.830	0.001	0.006	-1.644
Ethel	-1.692	8.003	-3.829	0.001	0.006	-1.646
BC032203	1.328	5.463	3.828	0.001	0.006	-1.647
Phxr5	-1.562	5.253	-3.827	0.001	0.006	-1.651
Zfp3611	1.267	7.766	3.825	0.001	0.006	-1.654
Dyrk1a	1.792	4.732	3.825	0.001	0.006	-1.655
Mut	-1.614	7.425	-3.824	0.001	0.006	-1.657
2310079NC	1.005	6.972	3.823	0.001	0.006	-1.658
Id4	-1.502	5.694	-3.822	0.001	0.006	-1.661
D630039AC	-2.039	6.622	-3.820	0.001	0.006	-1.666
LOC10004C	1.265	7.519	3.819	0.001	0.006	-1.668
Gnai2	1.683	9.515	3.818	0.001	0.006	-1.670
Rbm34	1.097	7.317	3.817	0.001	0.006	-1.671
Scfd2	-1.021	5.102	-3.816	0.001	0.006	-1.674
Pin1	1.065	8.299	3.816	0.001	0.006	-1.676
Psph	1.481	7.095	3.815	0.001	0.006	-1.677
Rasa1	1.704	8.558	3.815	0.001	0.006	-1.678
Sipa112	1.003	5.188	3.812	0.001	0.006	-1.683
Stox2	-1.071	4.551	-3.811	0.001	0.006	-1.685
Ormdl3	1.291	6.455	3.811	0.001	0.006	-1.685
Asb3	1.092	5.728	3.810	0.001	0.006	-1.688
Glrp1	2.049	4.118	3.810	0.001	0.006	-1.689
Ano9	-1.535	4.082	-3.809	0.001	0.006	-1.690
Rasa2	1.059	8.347	3.807	0.001	0.006	-1.694
H2-Aa	2.794	9.199	3.806	0.001	0.006	-1.697
Gabarapl1	2.340	6.984	3.804	0.001	0.006	-1.701
Ggps1	1.162	5.088	3.804	0.001	0.006	-1.702
Cstf2t	1.476	8.041	3.803	0.001	0.006	-1.703
Trim34	1.063	4.466	3.802	0.001	0.006	-1.706
Selplg	1.437	5.316	3.802	0.001	0.006	-1.706
Gm6377	1.001	3.880	3.801	0.001	0.006	-1.707
Utp15	1.102	6.412	3.801	0.001	0.006	-1.707
Ran	1.352	7.546	3.799	0.001	0.006	-1.712
Itpr3	1.371	8.463	3.794	0.001	0.006	-1.723
Tomm20	1.375	10.261	3.794	0.001	0.006	-1.724
Gm6293	-3.028	4.958	-3.794	0.001	0.006	-1.724
Sfrs17b	1.011	4.117	3.789	0.001	0.006	-1.734
Nedd9	1.298	7.737	3.788	0.001	0.006	-1.736
S100a10	2.336	11.171	3.785	0.001	0.006	-1.745
Acot8	-1.020	7.142	-3.784	0.001	0.006	-1.746
Zfp498	1.167	7.222	3.783	0.001	0.006	-1.748

Zfp280c	1.011	6.818	3.783	0.001	0.006	-1.749
AI451617	1.754	4.342	3.782	0.001	0.006	-1.751
Tmem54	-2.891	6.373	-3.781	0.001	0.006	-1.752
Adcy7	1.113	4.503	3.781	0.001	0.006	-1.752
Wdr53	1.003	5.379	3.781	0.001	0.006	-1.753
Lrp6	1.189	5.724	3.780	0.001	0.006	-1.756
Wdr45	1.175	7.760	3.779	0.001	0.006	-1.757
Bzwl	1.741	8.877	3.779	0.001	0.006	-1.757
Gnail	-1.515	5.443	-3.777	0.001	0.006	-1.761
Ptprd	-2.648	5.326	-3.776	0.001	0.006	-1.764
Havcr2	1.062	3.892	3.772	0.001	0.006	-1.773
Pccb	-1.756	6.036	-3.772	0.001	0.006	-1.773
Ntan1	1.543	8.659	3.769	0.001	0.006	-1.778
1110018N2	-1.211	2.972	-3.768	0.001	0.006	-1.781
Calm3	1.611	8.874	3.768	0.001	0.006	-1.782
Pira2	1.035	3.933	3.765	0.001	0.006	-1.789
Slc7a4	-1.348	5.722	-3.763	0.001	0.006	-1.793
Klk1b22	-2.351	4.459	-3.761	0.001	0.006	-1.798
Ndufs1	-1.067	8.937	-3.759	0.001	0.006	-1.801
Gstt2	-2.161	6.554	-3.758	0.001	0.006	-1.804
Map2k5	1.089	5.930	3.755	0.001	0.006	-1.811
Gm7895	1.233	6.088	3.754	0.001	0.006	-1.812
H2-Eb1	2.316	7.592	3.750	0.001	0.006	-1.822
Acaa2	-1.036	8.344	-3.749	0.001	0.006	-1.824
AW107722	-1.337	4.830	-3.748	0.001	0.006	-1.826
Gpx2	-3.061	9.098	-3.745	0.001	0.006	-1.832
Rfk	-1.061	8.834	-3.745	0.001	0.006	-1.833
Anapc7	1.102	7.628	3.745	0.001	0.006	-1.833
Ifngr2	2.558	6.985	3.742	0.001	0.006	-1.840
Fxyd3	-2.076	11.243	-3.740	0.001	0.006	-1.843
Slc7a7	1.416	6.684	3.738	0.001	0.006	-1.847
Sin3a	1.103	6.231	3.735	0.001	0.006	-1.855
Mvp	1.146	6.566	3.734	0.001	0.006	-1.856
Gm7536	-1.157	7.665	-3.734	0.001	0.006	-1.858
Stk24	1.335	7.636	3.733	0.001	0.006	-1.859
Acsf3	-1.034	5.411	-3.733	0.001	0.006	-1.860
Tmem150c	1.196	3.376	3.733	0.001	0.006	-1.860
Gm16136	-2.139	5.380	-3.732	0.001	0.007	-1.861
LOC100046	1.520	6.133	3.731	0.001	0.007	-1.864
Tmem212	2.714	5.659	3.730	0.001	0.007	-1.865
Nox4	1.017	3.436	3.730	0.001	0.007	-1.866
Ammecr11	1.066	5.195	3.729	0.001	0.007	-1.868
Kbtbd2	1.710	8.132	3.728	0.001	0.007	-1.871
Zmyml	1.163	5.640	3.727	0.001	0.007	-1.873
Scml4	-1.161	3.509	-3.726	0.001	0.007	-1.874
Prep	1.092	7.454	3.725	0.001	0.007	-1.877
Tmem49	1.463	7.400	3.724	0.001	0.007	-1.880
Capn9	-2.717	4.264	-3.723	0.002	0.007	-1.882
Pik3c2g	-2.368	4.278	-3.723	0.002	0.007	-1.882
LOC676674	1.247	4.721	3.717	0.002	0.007	-1.895

2310042D1	-1.087	3.170	-3.715	0.002	0.007	-1.900
Ptges	1.922	4.553	3.713	0.002	0.007	-1.903
Tjp2	1.832	8.590	3.712	0.002	0.007	-1.907
2210020M	-1.083	4.025	-3.712	0.002	0.007	-1.907
Gm10567	1.183	4.010	3.712	0.002	0.007	-1.907
2310002L1	2.141	4.121	3.710	0.002	0.007	-1.911
2310003L2	-1.313	5.836	-3.709	0.002	0.007	-1.912
Setd3	1.258	5.293	3.709	0.002	0.007	-1.912
Pfas	1.130	5.584	3.708	0.002	0.007	-1.915
Tmx3	1.521	7.805	3.707	0.002	0.007	-1.918
5430421B1	-1.541	5.381	-3.707	0.002	0.007	-1.918
Hist1h3a	-1.371	5.909	-3.706	0.002	0.007	-1.920
Id3	-1.307	8.988	-3.705	0.002	0.007	-1.922
Rcbtb2	1.399	7.035	3.704	0.002	0.007	-1.925
Supt6h	1.071	6.127	3.702	0.002	0.007	-1.928
Naip5	1.163	4.497	3.700	0.002	0.007	-1.932
Arhgef10l	1.092	4.826	3.699	0.002	0.007	-1.934
Itgb8	1.358	4.019	3.698	0.002	0.007	-1.937
Ppmle	-1.014	2.837	-3.698	0.002	0.007	-1.937
Mapk13	-1.937	7.785	-3.696	0.002	0.007	-1.941
Lanc13	1.522	4.146	3.695	0.002	0.007	-1.943
Ugt2a3	-1.338	3.188	-3.695	0.002	0.007	-1.943
Pdzd2	-1.191	4.187	-3.695	0.002	0.007	-1.944
Ddx19b	1.121	5.620	3.695	0.002	0.007	-1.944
Et14	1.227	7.521	3.692	0.002	0.007	-1.950
Kirrel3	1.758	4.245	3.692	0.002	0.007	-1.951
Trim12	1.261	4.163	3.692	0.002	0.007	-1.951
4933436E2	-1.037	2.962	-3.691	0.002	0.007	-1.952
Pde9a	1.327	3.786	3.691	0.002	0.007	-1.954
A230065C2	-1.040	3.591	-3.689	0.002	0.007	-1.957
Ap3b1	1.440	8.206	3.687	0.002	0.007	-1.961
0610031J	1.491	8.695	3.686	0.002	0.007	-1.965
Gpr56	-1.122	4.490	-3.685	0.002	0.007	-1.967
Zmynd19	1.134	6.241	3.682	0.002	0.007	-1.973
LOC552909	1.167	5.877	3.678	0.002	0.007	-1.981
Sec16b	-1.887	5.959	-3.677	0.002	0.007	-1.984
Pacsin3	1.128	5.744	3.676	0.002	0.007	-1.986
Scamp5	-1.173	4.843	-3.676	0.002	0.007	-1.986
Dock11	1.869	7.889	3.675	0.002	0.007	-1.988
Stard6	1.056	3.583	3.672	0.002	0.007	-1.995
Kcnel	-2.256	3.291	-3.672	0.002	0.007	-1.995
Pate4	-1.653	3.132	-3.671	0.002	0.007	-1.996
D830012I2	1.741	7.537	3.671	0.002	0.007	-1.997
Gja5	1.070	3.724	3.670	0.002	0.007	-1.999
Slc9a4	-1.286	3.420	-3.669	0.002	0.007	-2.002
Tubg1	1.154	6.458	3.668	0.002	0.007	-2.004
Mylip	1.536	6.904	3.668	0.002	0.007	-2.004
8430427H1	1.922	6.161	3.668	0.002	0.007	-2.005
Efnal	2.084	6.992	3.667	0.002	0.007	-2.005
Fus	1.841	8.790	3.667	0.002	0.007	-2.006

Narf	1.038	5.277	3.666	0.002	0.007	-2.008
Klraq1	1.393	7.358	3.664	0.002	0.007	-2.013
Sdr42e1	-1.559	5.255	-3.663	0.002	0.007	-2.014
2810055F1	1.150	3.984	3.663	0.002	0.007	-2.015
Ppp2r5e	1.237	6.912	3.663	0.002	0.007	-2.015
Klrc1	1.276	3.307	3.662	0.002	0.007	-2.016
Ppargc1a	-1.724	4.095	-3.662	0.002	0.007	-2.017
2210415F1	-4.956	6.318	-3.661	0.002	0.007	-2.020
Adm	2.091	6.145	3.660	0.002	0.007	-2.021
Cdk14	1.844	6.785	3.658	0.002	0.007	-2.025
Bcl2l14	-1.940	5.654	-3.658	0.002	0.007	-2.026
Gm16515	1.017	6.545	3.658	0.002	0.007	-2.027
Foxa1	-2.405	9.226	-3.657	0.002	0.007	-2.028
Ndufaf3	-1.241	6.916	-3.656	0.002	0.007	-2.030
P4ha2	2.112	7.616	3.654	0.002	0.007	-2.035
Cog4	1.406	6.657	3.653	0.002	0.007	-2.037
Fam40b	-1.298	2.769	-3.652	0.002	0.007	-2.040
Snrpb2	1.211	8.892	3.651	0.002	0.007	-2.042
Ggal	1.015	5.839	3.651	0.002	0.007	-2.042
Zfp512	1.175	6.983	3.650	0.002	0.007	-2.044
BC016579	-2.010	4.288	-3.648	0.002	0.007	-2.047
Vamp4	1.367	7.751	3.648	0.002	0.007	-2.049
A430102J1	1.196	7.000	3.648	0.002	0.008	-2.049
Slc35e2	1.290	6.971	3.646	0.002	0.008	-2.053
Pcdhb9	1.794	3.725	3.646	0.002	0.008	-2.053
Slpr5	-1.381	3.115	-3.646	0.002	0.008	-2.054
Rbm18	1.100	4.978	3.644	0.002	0.008	-2.056
Fam183b	-1.461	3.168	-3.644	0.002	0.008	-2.056
Lgals7	-2.429	4.742	-3.644	0.002	0.008	-2.057
LOC100044	-1.038	2.760	-3.644	0.002	0.008	-2.058
Angpt12	1.806	4.756	3.643	0.002	0.008	-2.059
Erc2	1.738	4.070	3.643	0.002	0.008	-2.059
Mthfd1	-1.150	7.757	-3.643	0.002	0.008	-2.060
D8Ertd82e	1.433	7.764	3.642	0.002	0.008	-2.061
Ear3	1.760	4.191	3.642	0.002	0.008	-2.062
Sycn	-2.657	4.143	-3.641	0.002	0.008	-2.063
D2Ertd93e	1.052	5.675	3.641	0.002	0.008	-2.064
Med21	1.507	7.317	3.641	0.002	0.008	-2.065
LOC676654	1.334	5.320	3.640	0.002	0.008	-2.065
D10627	1.154	4.826	3.640	0.002	0.008	-2.066
Stard9	1.046	4.281	3.640	0.002	0.008	-2.066
Chsy3	1.323	3.511	3.638	0.002	0.008	-2.071
Krt6b	-3.203	3.723	-3.638	0.002	0.008	-2.071
Cd74	2.034	7.761	3.636	0.002	0.008	-2.074
Sephs2	-1.299	7.670	-3.636	0.002	0.008	-2.075
Rad1	1.268	5.004	3.636	0.002	0.008	-2.076
A21d1	-1.514	7.351	-3.635	0.002	0.008	-2.077
Wsb2	1.405	6.872	3.632	0.002	0.008	-2.085
Rnf152	-1.828	7.275	-3.631	0.002	0.008	-2.085
D330028D1	-1.319	5.256	-3.631	0.002	0.008	-2.086

Pisd-ps3	-1.599	5.744	-3.630	0.002	0.008	-2.088
I118	-1.459	8.877	-3.630	0.002	0.008	-2.088
D330040H1	1.508	6.353	3.630	0.002	0.008	-2.088
Tmprss4	-2.825	7.004	-3.629	0.002	0.008	-2.091
Efcab4a	-1.198	6.761	-3.628	0.002	0.008	-2.092
Exph5	-2.556	5.513	-3.628	0.002	0.008	-2.092
Cct8	1.189	9.282	3.628	0.002	0.008	-2.093
Chid1	-1.172	5.075	-3.628	0.002	0.008	-2.093
Gnl3	1.035	8.494	3.627	0.002	0.008	-2.094
Oxr1	1.757	8.856	3.626	0.002	0.008	-2.096
Cyp4b1	1.332	4.997	3.626	0.002	0.008	-2.096
Nsmce2	1.066	7.761	3.626	0.002	0.008	-2.098
Ncoa1	-1.051	6.233	-3.625	0.002	0.008	-2.099
Fscn2	-1.050	3.332	-3.625	0.002	0.008	-2.099
Stam	1.082	7.917	3.625	0.002	0.008	-2.099
Coro1c	1.236	4.472	3.624	0.002	0.008	-2.102
Cntln	1.649	4.726	3.624	0.002	0.008	-2.102
2610039C1	1.782	6.502	3.623	0.002	0.008	-2.104
Dpep1	1.091	4.042	3.622	0.002	0.008	-2.106
Slpi	2.549	7.347	3.622	0.002	0.008	-2.106
AU021977	-1.014	2.963	-3.621	0.002	0.008	-2.108
Eeal	1.640	6.868	3.620	0.002	0.008	-2.109
Ms11	1.014	7.025	3.620	0.002	0.008	-2.110
Pfkfb3	1.545	6.482	3.620	0.002	0.008	-2.111
2010317E2	-1.165	3.930	-3.620	0.002	0.008	-2.111
Bst2	1.698	6.076	3.620	0.002	0.008	-2.111
Gyg	1.193	7.172	3.619	0.002	0.008	-2.113
311004302	1.378	6.712	3.618	0.002	0.008	-2.115
Zc4h2	1.053	3.877	3.617	0.002	0.008	-2.117
Ppmlb	1.787	7.300	3.614	0.002	0.008	-2.124
Rrp8	1.019	5.916	3.612	0.002	0.008	-2.128
Cpamd8	-2.508	3.817	-3.609	0.002	0.008	-2.134
Ccl8	2.908	5.948	3.609	0.002	0.008	-2.134
Nop16	1.251	7.620	3.609	0.002	0.008	-2.135
Fam49b	1.634	9.033	3.608	0.002	0.008	-2.136
AI451617	1.578	4.257	3.604	0.002	0.008	-2.146
Stmn2	1.637	4.220	3.603	0.002	0.008	-2.148
Cdh6	1.964	4.185	3.602	0.002	0.008	-2.151
Abcc4	1.948	7.656	3.601	0.002	0.008	-2.153
Hmgcl	-1.195	7.841	-3.600	0.002	0.008	-2.154
Scnn1a	-1.415	4.973	-3.600	0.002	0.008	-2.155
Csta	-1.562	2.941	-3.599	0.002	0.008	-2.157
Wdr34	1.110	4.838	3.599	0.002	0.008	-2.157
Ipo8	1.196	8.990	3.598	0.002	0.008	-2.159
1700025G1	2.010	6.031	3.596	0.002	0.008	-2.164
Orc6l	1.013	7.185	3.596	0.002	0.008	-2.164
Cebpd	2.056	7.989	3.596	0.002	0.008	-2.164
15-Sep	1.571	10.962	3.595	0.002	0.008	-2.165
Dpysl2	1.189	9.581	3.595	0.002	0.008	-2.167
Liph	-1.368	3.827	-3.594	0.002	0.008	-2.169

Zfp292	1.031	5.617	3.591	0.002	0.008	-2.174
4933423L1	-1.038	3.159	-3.591	0.002	0.008	-2.174
Tspo	1.714	10.070	3.591	0.002	0.008	-2.175
Dl11	1.614	5.040	3.586	0.002	0.008	-2.185
Trim30	1.887	5.494	3.583	0.002	0.008	-2.192
AI504432	1.489	4.722	3.582	0.002	0.008	-2.194
Tmem168	1.587	5.614	3.580	0.002	0.008	-2.199
Ttc27	1.171	6.206	3.579	0.002	0.008	-2.202
Mmp10	2.507	5.212	3.578	0.002	0.008	-2.204
Serinc1	2.094	8.927	3.577	0.002	0.008	-2.205
Osr1	1.905	4.514	3.577	0.002	0.008	-2.205
Glod5	-2.511	5.831	-3.576	0.002	0.008	-2.207
Tff2	-5.592	9.922	-3.575	0.002	0.008	-2.209
Tgs1	1.374	6.995	3.574	0.002	0.008	-2.211
Rnf2	1.519	7.686	3.571	0.002	0.008	-2.219
Cadps2	-2.529	5.362	-3.569	0.002	0.008	-2.224
Polr2d	1.036	7.396	3.568	0.002	0.008	-2.225
2610005LC	1.287	5.695	3.568	0.002	0.008	-2.226
Cb111	1.116	6.237	3.567	0.002	0.008	-2.228
Spata6	1.270	5.280	3.566	0.002	0.009	-2.230
Clcn3	-1.286	8.463	-3.566	0.002	0.009	-2.231
Cpox	-1.283	6.189	-3.563	0.002	0.009	-2.237
Ankrd43	-1.341	3.021	-3.560	0.002	0.009	-2.243
Wdr63	-1.138	2.874	-3.560	0.002	0.009	-2.243
Galnt6	-1.422	3.931	-3.559	0.002	0.009	-2.244
Cnn3	1.149	10.097	3.559	0.002	0.009	-2.245
Morf411	1.616	10.618	3.558	0.002	0.009	-2.246
Prom1	-3.069	9.035	-3.558	0.002	0.009	-2.247
Cd48	1.511	4.243	3.557	0.002	0.009	-2.249
Tagap	1.144	6.648	3.557	0.002	0.009	-2.249
Ets2	1.478	8.419	3.556	0.002	0.009	-2.252
Tex15	-1.867	3.223	-3.555	0.002	0.009	-2.253
Nmnat1	-1.115	4.297	-3.555	0.002	0.009	-2.253
Cd97	1.284	7.757	3.554	0.002	0.009	-2.256
5330417C2	-2.645	6.148	-3.553	0.002	0.009	-2.259
Cd44	2.404	10.617	3.552	0.002	0.009	-2.260
Prdx6	1.360	10.006	3.551	0.002	0.009	-2.263
Pycard	-1.533	8.670	-3.549	0.002	0.009	-2.267
Fam64a	1.684	4.819	3.548	0.002	0.009	-2.270
Fem1b	1.204	4.832	3.548	0.002	0.009	-2.270
Prpf4	1.046	5.971	3.547	0.002	0.009	-2.271
Eif2c2	1.224	7.488	3.546	0.002	0.009	-2.273
Ywhaq	1.384	10.762	3.545	0.002	0.009	-2.275
Cbfa2t2	1.067	6.932	3.544	0.002	0.009	-2.277
Plrg1	1.851	7.954	3.544	0.002	0.009	-2.277
Esml	1.845	5.054	3.544	0.002	0.009	-2.278
Cadm4	1.272	5.225	3.544	0.002	0.009	-2.279
Zbtb7c	-1.035	3.312	-3.542	0.002	0.009	-2.283
Mtpn	1.052	6.602	3.542	0.002	0.009	-2.283
Eif5b	1.313	7.374	3.540	0.002	0.009	-2.287

Mobk11b	1.322	8.927	3.538	0.002	0.009	-2.291
4930428BC	1.008	3.531	3.537	0.002	0.009	-2.294
Gtpbp4	1.254	6.385	3.537	0.002	0.009	-2.295
6030405A1	-1.115	3.044	-3.535	0.002	0.009	-2.298
LOC100046	1.342	9.580	3.534	0.002	0.009	-2.300
Slc39a10	1.416	8.502	3.533	0.002	0.009	-2.303
Gkn1	-5.243	9.414	-3.529	0.002	0.009	-2.311
Tjpl	1.471	9.624	3.529	0.002	0.009	-2.312
Gchfr	1.087	4.499	3.528	0.002	0.009	-2.313
Ube2e3	1.334	9.415	3.528	0.002	0.009	-2.313
Galnt12	-1.968	7.679	-3.527	0.002	0.009	-2.316
Plscr2	2.453	4.489	3.526	0.002	0.009	-2.317
2510017J1	1.919	5.157	3.525	0.002	0.009	-2.320
Scoc	1.329	7.017	3.525	0.002	0.009	-2.321
Gabrp	2.826	5.668	3.525	0.002	0.009	-2.321
Rap1b	1.810	9.220	3.525	0.002	0.009	-2.321
Igf1	1.812	5.249	3.524	0.002	0.009	-2.323
Slc30a4	1.659	8.520	3.523	0.002	0.009	-2.325
Tnfrsf1b	1.064	6.513	3.523	0.002	0.009	-2.325
Rab32	1.678	5.322	3.522	0.002	0.009	-2.327
Zfp383	1.095	5.175	3.521	0.002	0.009	-2.330
Sh3bgr1	1.579	7.961	3.519	0.002	0.009	-2.332
3110001I2	1.223	5.201	3.519	0.002	0.009	-2.333
Gtf2ird1	1.340	7.619	3.517	0.002	0.009	-2.338
Ube2w	1.301	7.971	3.515	0.002	0.009	-2.342
Gas1	1.341	7.264	3.514	0.002	0.009	-2.344
Clic1	1.201	10.457	3.512	0.002	0.009	-2.350
Smad7	1.190	6.922	3.511	0.002	0.009	-2.350
Alkbh7	-1.004	6.990	-3.510	0.002	0.009	-2.353
Rpp25	-1.224	4.251	-3.508	0.002	0.009	-2.359
Yeats4	1.055	7.595	3.507	0.002	0.009	-2.359
Naa15	1.108	8.767	3.507	0.002	0.009	-2.359
Cirh1a	1.458	7.651	3.507	0.002	0.009	-2.360
Spc24	-1.397	5.612	-3.507	0.002	0.009	-2.360
Atp8a1	1.649	6.497	3.506	0.002	0.009	-2.361
Crat	-1.018	6.417	-3.505	0.002	0.009	-2.363
Cables2	1.477	6.305	3.504	0.002	0.009	-2.367
Fubp3	1.683	7.332	3.504	0.002	0.009	-2.368
2210403KC	1.709	8.017	3.503	0.002	0.009	-2.368
Bmil	1.614	7.944	3.501	0.002	0.009	-2.374
Jkamp	1.747	7.960	3.500	0.002	0.009	-2.375
Pde5a	1.280	3.892	3.499	0.002	0.009	-2.377
Dstyk	1.181	6.189	3.497	0.002	0.010	-2.381
Fabp2	-3.563	5.594	-3.497	0.002	0.010	-2.381
Pr13d1	-1.059	2.836	-3.496	0.003	0.010	-2.385
Tulp2	-1.005	3.104	-3.492	0.003	0.010	-2.393
Car12	-2.242	5.021	-3.490	0.003	0.010	-2.397
3110082I1	1.073	6.049	3.487	0.003	0.010	-2.403
Aplar	1.130	8.357	3.486	0.003	0.010	-2.407
Nampt	1.554	6.886	3.485	0.003	0.010	-2.408

Smagp	-1.906	8.343	-3.485	0.003	0.010	-2.408
Klf2	1.090	6.975	3.484	0.003	0.010	-2.411
DlErt62	1.382	6.823	3.483	0.003	0.010	-2.412
Fgf13	2.093	4.643	3.483	0.003	0.010	-2.414
Zcchc10	1.214	5.839	3.482	0.003	0.010	-2.414
Slc7a2	1.247	3.465	3.482	0.003	0.010	-2.415
Rarb	1.609	4.100	3.482	0.003	0.010	-2.415
Sh3gl2	-2.529	5.364	-3.481	0.003	0.010	-2.417
Sulf2	1.669	7.597	3.477	0.003	0.010	-2.426
Tmem213	-2.497	4.906	-3.476	0.003	0.010	-2.429
Trim41	1.155	7.044	3.474	0.003	0.010	-2.433
Def6	1.056	5.419	3.473	0.003	0.010	-2.435
Sfrs11	1.074	7.916	3.473	0.003	0.010	-2.435
Lims1	1.782	7.373	3.471	0.003	0.010	-2.438
Bace2	-2.536	8.183	-3.471	0.003	0.010	-2.440
Arf1	1.414	8.950	3.470	0.003	0.010	-2.440
Usp33	1.053	6.976	3.470	0.003	0.010	-2.441
Coq9	-1.079	8.179	-3.470	0.003	0.010	-2.442
Obfc1	1.379	6.565	3.469	0.003	0.010	-2.442
Snx12	1.021	6.181	3.468	0.003	0.010	-2.446
Msr2	-1.082	5.358	-3.467	0.003	0.010	-2.448

Table S4. Differential expression of genes in Local dataset2

Symbol	logFC	AveExpr	t	P. Value	adj. P. Val	B
Enpp2	-1.891	9.387	-12.587	0.000	0.004	6.420
Itgb3	0.774	9.181	9.943	0.000	0.019	4.956
Pilrb1	0.732	6.780	9.111	0.000	0.027	4.368
Vnn1	2.580	9.355	8.119	0.000	0.057	3.568
Sphk1	1.050	8.125	7.789	0.000	0.059	3.276
Pilra	0.815	7.420	7.490	0.000	0.059	2.998
Ptov1	-0.504	9.577	-7.374	0.000	0.059	2.887
Ptges	1.050	8.383	7.224	0.000	0.059	2.740
Gpr65	0.786	7.524	7.171	0.000	0.059	2.688
Tyrobp	1.020	8.364	7.109	0.000	0.059	2.625
2210021J22Rik	-0.652	8.443	-7.049	0.000	0.059	2.565
Cd84	0.767	8.092	7.046	0.000	0.059	2.562
Gm6377	0.751	7.014	7.006	0.000	0.059	2.521
Srgn	1.292	9.092	6.957	0.000	0.059	2.471
Cd300a	0.595	8.048	6.918	0.000	0.059	2.431
Stra6	0.451	6.577	6.892	0.000	0.059	2.404
Fgd3	1.489	8.138	6.707	0.000	0.069	2.210
Pik3cd	0.676	7.765	6.607	0.000	0.070	2.102
Jmjd1c	0.614	11.464	6.543	0.000	0.070	2.032
Rhbdf2	0.481	8.657	6.533	0.000	0.070	2.022
Lnx2	-0.813	10.226	-6.504	0.000	0.070	1.990
Prl2c2	0.958	6.830	6.474	0.000	0.070	1.957
Ptprc	1.349	9.725	6.358	0.000	0.070	1.828
Slc39a11	-0.733	12.320	-6.357	0.000	0.070	1.827
St8sia4	0.839	8.243	6.350	0.000	0.070	1.819
Cd33	0.869	7.734	6.322	0.000	0.070	1.788
Tubb2b	0.812	8.315	6.274	0.000	0.070	1.734
Gcnt2	1.313	9.757	6.263	0.000	0.070	1.721
Slitrk3	-0.467	6.616	-6.178	0.000	0.070	1.624
Mpeg1	1.369	10.491	6.177	0.000	0.070	1.623
Itgb2	1.327	8.403	6.156	0.000	0.070	1.599
Tnfsf13	0.790	8.420	6.122	0.000	0.070	1.560
Csf2rb	0.958	8.221	6.117	0.000	0.070	1.553
Otop2	1.120	7.005	6.102	0.000	0.070	1.536
Samsn1	0.723	7.642	6.096	0.000	0.070	1.529
Adamts12	0.901	7.680	6.093	0.000	0.070	1.526
Pla2g7	1.171	9.501	6.075	0.000	0.070	1.504
Clqc	0.985	9.396	6.072	0.000	0.070	1.501
Glipr1	0.779	7.830	6.009	0.000	0.070	1.428
Cybb	1.116	9.115	5.969	0.000	0.070	1.380
Glipr2	0.880	8.386	5.939	0.000	0.070	1.345
Gm11843	0.546	6.687	5.936	0.000	0.070	1.341
Herpud1	-1.248	11.942	-5.936	0.000	0.070	1.340
P2ry2	0.882	7.452	5.909	0.000	0.070	1.308
Nqo2	0.499	9.759	5.905	0.000	0.070	1.304
Dl11	0.910	8.260	5.877	0.000	0.070	1.270
Cxcl16	0.981	9.947	5.873	0.000	0.070	1.265

Plin2	1.459	10.505	5.869	0.000	0.070	1.261
Serpib6b	0.724	7.614	5.864	0.000	0.070	1.255
Plek	1.051	9.244	5.844	0.000	0.070	1.230
Fam50a	-0.432	10.302	-5.842	0.000	0.070	1.228
Gm14680	0.607	8.410	5.811	0.000	0.070	1.192
Has2	0.780	7.438	5.802	0.000	0.070	1.180
Myo1f	0.815	7.721	5.798	0.000	0.070	1.175
Il2rg	0.733	7.759	5.758	0.000	0.070	1.127
Il1rn	2.594	9.509	5.753	0.000	0.070	1.120
Tnfrsf25	-0.596	7.453	-5.746	0.000	0.070	1.112
Col6a3	0.939	10.642	5.734	0.000	0.070	1.098
Zcchc5	-0.889	7.054	-5.734	0.000	0.070	1.097
Lair1	0.790	7.701	5.712	0.000	0.070	1.070
Rhobtb1	-1.794	10.067	-5.709	0.000	0.070	1.066
Cd53	1.346	8.688	5.704	0.000	0.070	1.060
Aldh1a3	3.373	10.033	5.683	0.000	0.070	1.035
Gpx2	0.985	12.600	5.682	0.000	0.070	1.033
6430548M08Rik	-0.947	10.863	-5.665	0.000	0.071	1.013
Sell	1.118	7.273	5.651	0.000	0.071	0.995
Msr1	1.534	8.311	5.642	0.000	0.071	0.984
Edem1	-0.391	12.071	-5.623	0.000	0.071	0.961
Cd68	0.554	8.025	5.606	0.000	0.071	0.939
Lphn3	1.079	8.280	5.588	0.000	0.071	0.917
Galnt11	0.506	10.344	5.566	0.000	0.071	0.890
Prss35	1.215	7.769	5.544	0.000	0.071	0.863
Ncf2	0.712	8.048	5.539	0.000	0.071	0.855
Il10ra	0.547	7.688	5.523	0.000	0.071	0.835
Arhgap25	0.628	7.628	5.521	0.000	0.071	0.833
Fcgr1	0.650	7.519	5.506	0.000	0.071	0.814
Npc1	0.614	9.848	5.499	0.000	0.071	0.805
Dok2	0.614	7.596	5.497	0.000	0.071	0.802
Adig	-0.559	6.631	-5.493	0.000	0.071	0.798
AC090887.6	0.577	6.640	5.491	0.000	0.071	0.795
Lcp2	0.730	8.019	5.488	0.000	0.071	0.791
Aplnr	0.824	8.160	5.485	0.000	0.071	0.787
Lrrc32	0.594	7.971	5.463	0.000	0.071	0.760
Sybu	-1.232	9.156	-5.461	0.000	0.071	0.757
Tnip3	1.468	7.700	5.461	0.000	0.071	0.757
Csf3r	1.115	7.887	5.460	0.000	0.071	0.756
Zeb2	0.600	9.899	5.436	0.000	0.073	0.725
Timp4	-0.645	6.952	-5.408	0.000	0.074	0.689
Cd3001d	0.868	7.570	5.406	0.000	0.074	0.687
Fgf18	-0.386	6.545	-5.361	0.000	0.078	0.629
Foxa3	-1.192	10.874	-5.352	0.000	0.078	0.618
Cyth4	0.847	8.136	5.302	0.000	0.082	0.553
Ets1	1.058	9.532	5.280	0.000	0.082	0.525
Grhl3	0.979	7.266	5.279	0.000	0.082	0.524
Ccdc142	0.444	7.723	5.275	0.000	0.082	0.518
Sfpil	0.739	7.546	5.273	0.000	0.082	0.516
S100a9	2.282	7.809	5.266	0.000	0.082	0.506

BC055004	0.609	7.353	5.261	0.000	0.082	0.499
Kcnmb1	-0.745	8.521	-5.257	0.000	0.082	0.495
AI504432	0.505	7.190	5.237	0.000	0.083	0.469
Ifi30	-0.588	12.560	-5.233	0.000	0.083	0.464
Klhdc1	-0.743	8.402	-5.220	0.000	0.084	0.447
Tfec	0.770	7.043	5.207	0.000	0.084	0.429
Sox4	1.033	10.569	5.205	0.000	0.084	0.427
Gstm5	-0.408	9.888	-5.195	0.000	0.085	0.413
Fli1	0.537	8.119	5.172	0.000	0.087	0.382
Cd93	1.157	9.364	5.162	0.000	0.087	0.370
Trim30c	0.504	6.722	5.158	0.000	0.087	0.365
Ncapd3	0.370	9.490	5.146	0.000	0.087	0.348
Hsd11b2	0.667	7.419	5.136	0.000	0.087	0.336
Hcls1	0.902	8.498	5.133	0.000	0.087	0.331
Duoxa2	1.732	9.120	5.128	0.000	0.087	0.325
Tfe3	0.460	9.826	5.122	0.000	0.087	0.317
H47	-0.489	11.453	-5.121	0.000	0.087	0.315
Serpina3g	0.901	7.588	5.109	0.000	0.087	0.299
Laptm5	0.671	8.536	5.105	0.000	0.087	0.295
Zdhhc15	1.009	8.497	5.083	0.000	0.089	0.265
Pdelc	-1.129	9.209	-5.074	0.000	0.089	0.253
Msn	0.909	10.801	5.067	0.000	0.089	0.243
Tnfaip3	0.868	9.578	5.065	0.000	0.089	0.241
Selplg	0.706	7.781	5.050	0.001	0.089	0.221
Atp8b4	0.678	7.046	5.044	0.001	0.089	0.213
Slc16a3	1.805	8.635	5.014	0.001	0.089	0.172
Ltbp2	1.616	8.141	5.003	0.001	0.089	0.158
Ccr1	1.042	8.161	5.002	0.001	0.089	0.157
Pdgfrb	0.813	9.070	5.002	0.001	0.089	0.156
Ccdc14	0.440	7.959	5.000	0.001	0.089	0.154
Ttc38	-0.780	9.872	-5.000	0.001	0.089	0.153
Gmfg	-0.577	9.468	-4.987	0.001	0.089	0.136
Tgif1	0.600	9.450	4.985	0.001	0.089	0.133
Corola	0.989	8.750	4.984	0.001	0.089	0.133
Pcdhb16	0.729	7.684	4.984	0.001	0.089	0.132
Bcl2alb	0.626	7.210	4.977	0.001	0.089	0.122
Slc15a3	1.140	7.865	4.972	0.001	0.089	0.116
Gm15325	-0.641	6.829	-4.967	0.001	0.089	0.109
Gm10093	0.546	9.898	4.957	0.001	0.089	0.096
Sulf2	0.990	11.175	4.955	0.001	0.089	0.093
A330040F15Rik	0.459	6.741	4.949	0.001	0.089	0.085
Pip4k2c	-0.484	11.487	-4.948	0.001	0.089	0.083
Fmn11	0.686	7.741	4.944	0.001	0.089	0.078
Dyrk3	0.387	6.978	4.941	0.001	0.089	0.074
Hebp1	-1.052	8.909	-4.940	0.001	0.089	0.072
Slfn1	0.717	7.126	4.939	0.001	0.089	0.072
Baspl	2.226	9.832	4.934	0.001	0.089	0.064
Pdcd1	0.473	6.770	4.931	0.001	0.089	0.061
Gm14681	0.342	10.033	4.929	0.001	0.089	0.058
Gm6645	-0.483	6.751	-4.927	0.001	0.089	0.055

Gbp9	0.423	8.278	4.920	0.001	0.089	0.045
Efna3	0.490	7.138	4.907	0.001	0.089	0.027
Col3a1	0.899	13.459	4.903	0.001	0.089	0.022
Rab2b	0.725	8.564	4.902	0.001	0.089	0.021
Itga4	0.784	8.824	4.890	0.001	0.089	0.004
Tifab	0.815	7.819	4.888	0.001	0.089	0.001
AC160985.6	0.601	6.760	4.884	0.001	0.089	-0.003
Nckap11	0.872	8.493	4.880	0.001	0.089	-0.010
RP24-170A20.3	0.449	7.707	4.876	0.001	0.089	-0.015
Adam8	1.322	7.985	4.872	0.001	0.089	-0.020
Fkbp2	-0.443	11.068	-4.872	0.001	0.089	-0.021
Gm12913	-2.665	10.161	-4.871	0.001	0.089	-0.022
Itgal	0.903	7.915	4.869	0.001	0.089	-0.025
Pmm1	1.050	9.385	4.867	0.001	0.089	-0.028
Dym	-0.637	9.425	-4.863	0.001	0.089	-0.032
Fut4	-1.909	10.280	-4.856	0.001	0.090	-0.043
Gpc4	0.975	10.000	4.848	0.001	0.090	-0.053
Col6a6	-0.285	6.494	-4.847	0.001	0.090	-0.055
Rcan2	-1.124	7.503	-4.839	0.001	0.091	-0.066
Spon2	0.805	9.124	4.832	0.001	0.091	-0.075
Zmynd15	0.752	7.695	4.831	0.001	0.091	-0.077
Hyal2	0.781	9.472	4.813	0.001	0.092	-0.102
Lct1	-0.391	6.605	-4.812	0.001	0.092	-0.102
Stab1	0.780	9.050	4.796	0.001	0.094	-0.124
Stard4	0.556	11.846	4.784	0.001	0.095	-0.141
Pgc	-3.177	14.270	-4.781	0.001	0.095	-0.145
Gpr176	0.684	7.227	4.776	0.001	0.095	-0.152
Gm12840	1.325	9.950	4.768	0.001	0.095	-0.163
Ipcef1	0.566	7.633	4.763	0.001	0.095	-0.170
Gm14461	-0.356	6.558	-4.761	0.001	0.095	-0.173
Spsb1	0.645	8.496	4.754	0.001	0.095	-0.183
Ddit3	-0.582	9.918	-4.750	0.001	0.095	-0.189
Ighv7-2	0.924	6.813	4.748	0.001	0.095	-0.191
Golga7	-0.550	11.278	-4.747	0.001	0.095	-0.193
Birc3	0.964	9.850	4.745	0.001	0.095	-0.196
Il27ra	0.440	7.186	4.742	0.001	0.095	-0.199
9-Sep	0.546	10.747	4.740	0.001	0.095	-0.203
Btk	0.648	7.414	4.733	0.001	0.095	-0.212
Tnfrsf8	0.394	6.683	4.723	0.001	0.095	-0.226
4930422G04Rik	0.543	7.991	4.719	0.001	0.095	-0.232
Gpt2	-1.478	10.639	-4.718	0.001	0.095	-0.234
Hist1h4c	0.330	6.562	4.717	0.001	0.095	-0.234
Itgax	0.861	8.100	4.717	0.001	0.095	-0.234
Bmpr2	0.441	9.489	4.717	0.001	0.095	-0.235
Bex4	-0.782	7.163	-4.711	0.001	0.095	-0.243
Ecel1	0.481	11.277	4.699	0.001	0.096	-0.260
Eps8	1.256	12.157	4.693	0.001	0.096	-0.268
Gm14446	2.078	9.174	4.692	0.001	0.096	-0.270
Pilrb2	0.563	6.999	4.685	0.001	0.097	-0.279
Galnt11	-0.420	7.067	-4.679	0.001	0.097	-0.288

Gm10574	0.293	6.498	4.657	0.001	0.100	-0.319
Ifitm1	1.138	8.337	4.638	0.001	0.102	-0.345
Card9	0.618	6.912	4.638	0.001	0.102	-0.346
Dnajb4	-0.546	10.434	-4.633	0.001	0.102	-0.352
Arhgap30	0.951	8.770	4.631	0.001	0.102	-0.355
Mlycd	-0.383	9.705	-4.629	0.001	0.102	-0.358
Cd59a	-0.611	9.894	-4.626	0.001	0.102	-0.362
Ptprn2	-1.213	11.902	-4.623	0.001	0.102	-0.367
Acpl2	-1.386	8.995	-4.616	0.001	0.102	-0.376
AI662270	0.861	7.682	4.615	0.001	0.102	-0.378
Gramd2	0.423	8.465	4.608	0.001	0.102	-0.388
Higd1a	-0.850	9.993	-4.606	0.001	0.102	-0.391
Spn	0.615	7.756	4.601	0.001	0.102	-0.397
Fscn2	0.370	6.536	4.599	0.001	0.102	-0.400
Thap11	-0.318	9.180	-4.592	0.001	0.103	-0.410
Gm12602	-0.469	6.680	-4.589	0.001	0.103	-0.415
Tmem125	0.410	8.817	4.586	0.001	0.103	-0.419
Cxcl5	2.603	8.343	4.576	0.001	0.104	-0.433
Sidt1	-0.875	9.700	-4.571	0.001	0.104	-0.440
Apaf1	0.770	9.723	4.567	0.001	0.104	-0.446
Gm10767	-0.563	8.184	-4.566	0.001	0.104	-0.447
Specc1	1.211	9.862	4.547	0.001	0.105	-0.474
Pld1	1.136	10.794	4.546	0.001	0.105	-0.476
H2-Aa	0.940	10.632	4.541	0.001	0.105	-0.483
Ptprj	0.384	10.706	4.540	0.001	0.105	-0.485
Dolk	0.517	9.003	4.539	0.001	0.105	-0.486
Bcl2a1d	0.686	7.167	4.536	0.001	0.105	-0.489
Endod1	1.588	10.008	4.534	0.001	0.105	-0.492
Tacr2	-1.487	7.539	-4.534	0.001	0.105	-0.493
Stard10	-0.693	13.293	-4.533	0.001	0.105	-0.495
Gif	-3.943	10.506	-4.529	0.001	0.105	-0.500
Ighv1-2	0.520	6.611	4.529	0.001	0.105	-0.501
Hspb11	-0.459	8.075	-4.523	0.001	0.105	-0.508
Tmem170b	0.376	9.798	4.521	0.001	0.105	-0.511
Xkr5	0.393	6.801	4.519	0.001	0.105	-0.515
Arid5b	0.572	9.021	4.508	0.001	0.106	-0.530
Syvn1	-0.749	10.184	-4.506	0.001	0.106	-0.533
Skap2	0.497	11.358	4.497	0.001	0.106	-0.546
Clec3b	-0.941	7.987	-4.492	0.001	0.106	-0.552
4-Sep	0.688	9.013	4.492	0.001	0.106	-0.553
Sla	0.797	8.100	4.491	0.001	0.106	-0.555
Retnla	-1.747	7.441	-4.488	0.001	0.106	-0.558
Plekho2	0.505	8.374	4.487	0.001	0.106	-0.560
AC090843.3	1.544	7.244	4.487	0.001	0.106	-0.561
Tnfrsf11b	1.143	8.356	4.485	0.001	0.106	-0.563
Nid2	0.663	8.247	4.484	0.001	0.106	-0.565
Pole	0.841	8.864	4.481	0.001	0.106	-0.569
Cyp27a1	0.655	8.380	4.479	0.001	0.106	-0.571
Ncf1	0.950	8.356	4.479	0.001	0.106	-0.572
Pcdhb19	0.614	7.480	4.474	0.001	0.106	-0.578

Cntnap4	-0.814	7.036	-4.473	0.001	0.106	-0.580
Ccr2	1.041	8.340	4.466	0.001	0.106	-0.591
Atf7ip	0.375	9.991	4.462	0.001	0.106	-0.596
Sbno2	0.720	10.096	4.462	0.001	0.106	-0.596
Dab2	0.643	9.018	4.458	0.001	0.106	-0.602
AC153855.3	1.051	6.995	4.455	0.001	0.106	-0.606
Banp	-0.771	8.800	-4.452	0.001	0.106	-0.610
Me2	-2.004	12.401	-4.451	0.001	0.106	-0.611
Gmds	-0.429	13.712	-4.442	0.001	0.108	-0.625
Fcer1g	0.683	7.916	4.437	0.001	0.108	-0.632
Prkg1	-0.601	7.470	-4.431	0.001	0.108	-0.640
Mpst	-1.389	10.290	-4.429	0.001	0.108	-0.643
Acacb	-1.363	9.542	-4.428	0.001	0.108	-0.645
Adss	0.519	12.427	4.428	0.001	0.108	-0.645
Mgat2	-0.399	11.141	-4.413	0.001	0.110	-0.667
Fat1	1.152	12.492	4.411	0.001	0.110	-0.669
Serpib9	0.657	8.747	4.403	0.001	0.111	-0.681
Gapt	0.534	7.107	4.400	0.001	0.111	-0.685
Fn1	0.977	11.900	4.393	0.001	0.111	-0.695
Pdlim2	0.667	8.496	4.392	0.001	0.111	-0.697
Gpr55	1.262	8.064	4.388	0.001	0.112	-0.702
AC073939.2	0.841	6.937	4.378	0.001	0.113	-0.717
Sele	1.049	7.126	4.374	0.001	0.113	-0.724
Slpi	1.508	8.342	4.370	0.001	0.113	-0.729
Hrh1	0.960	7.553	4.367	0.001	0.113	-0.734
Pcdhb17	0.600	7.763	4.364	0.001	0.113	-0.738
Cx3cr1	0.844	8.442	4.361	0.001	0.113	-0.742
Dmbt1	1.686	16.092	4.360	0.001	0.113	-0.743
Litaf	0.658	10.972	4.360	0.001	0.113	-0.744
Nfkbiz	1.125	11.329	4.359	0.001	0.113	-0.744
Fam25c	-1.123	7.121	-4.359	0.001	0.113	-0.745
Nhlrc1	-1.067	8.186	-4.352	0.001	0.113	-0.754
Brsk2	-0.498	6.632	-4.351	0.001	0.113	-0.756
Ndr4	-1.618	9.186	-4.343	0.001	0.114	-0.768
Tsg101	-0.324	11.448	-4.334	0.001	0.115	-0.781
Mrps14	-0.414	9.824	-4.332	0.001	0.115	-0.783
Gsg2	0.457	8.449	4.329	0.001	0.115	-0.788
Pla2g16	-0.419	11.371	-4.327	0.002	0.115	-0.792
Serpine1	1.671	8.819	4.316	0.002	0.116	-0.807
Kdmlb	-0.952	10.545	-4.315	0.002	0.116	-0.808
Klhl6	0.545	7.552	4.314	0.002	0.116	-0.811
Asap1	0.467	9.540	4.312	0.002	0.116	-0.813
Osm	0.815	6.862	4.310	0.002	0.116	-0.816
Mapk6	0.476	11.616	4.308	0.002	0.116	-0.819
Otop3	2.982	9.536	4.306	0.002	0.116	-0.822
Gm7224	0.922	7.354	4.305	0.002	0.116	-0.823
Serpib2	0.599	6.845	4.303	0.002	0.116	-0.827
Zfp72	0.412	7.576	4.302	0.002	0.116	-0.828
Stk39	-0.692	11.652	-4.300	0.002	0.116	-0.830
Eng	0.635	8.614	4.292	0.002	0.117	-0.842

Ufc1	-0.355	11.267	-4.292	0.002	0.117	-0.842
Tram1	-0.602	12.982	-4.291	0.002	0.117	-0.845
Gtf2ird1	0.379	10.018	4.278	0.002	0.118	-0.864
Mir5105	-2.186	11.140	-4.273	0.002	0.118	-0.871
Gm15816	-0.885	9.170	-4.272	0.002	0.118	-0.871
Apbb1ip	0.525	7.562	4.266	0.002	0.118	-0.880
Nrp1	0.514	10.183	4.266	0.002	0.118	-0.881
Mgst2	-1.123	12.173	-4.266	0.002	0.118	-0.881
Cp	1.437	9.404	4.265	0.002	0.118	-0.882
Itgam	1.022	8.485	4.260	0.002	0.118	-0.890
Mfsd7a	-1.816	8.804	-4.256	0.002	0.118	-0.895
C5ar1	0.609	7.609	4.255	0.002	0.118	-0.897
Clec4e	1.268	7.228	4.252	0.002	0.118	-0.901
Hist2h3c2	-0.474	6.751	-4.251	0.002	0.118	-0.903
Gm10074	0.353	7.077	4.248	0.002	0.118	-0.908
Ephb4	0.488	9.865	4.244	0.002	0.118	-0.914
Il4ra	1.046	10.984	4.240	0.002	0.118	-0.918
Fbxo9	-0.339	10.943	-4.239	0.002	0.118	-0.920
Tlr13	0.822	7.870	4.238	0.002	0.118	-0.922
Galns	0.682	8.855	4.237	0.002	0.118	-0.924
Rhoh	0.552	7.107	4.235	0.002	0.118	-0.927
Chi3l3	1.780	8.084	4.234	0.002	0.118	-0.928
9130008F23Rik	0.433	9.508	4.229	0.002	0.118	-0.936
Dgka	0.671	11.311	4.228	0.002	0.118	-0.937
Fcgr3	0.840	8.614	4.228	0.002	0.118	-0.937
A530064D06Rik	0.530	6.695	4.225	0.002	0.118	-0.940
1-Mar	0.507	7.813	4.225	0.002	0.118	-0.941
Ptgis	-0.713	7.329	-4.220	0.002	0.118	-0.948
Lamb1	0.600	10.695	4.219	0.002	0.118	-0.949
Mmp10	3.288	9.713	4.219	0.002	0.118	-0.950
Clqb	0.929	9.216	4.218	0.002	0.118	-0.951
Setx	0.334	10.821	4.216	0.002	0.118	-0.954
Emr1	0.623	8.624	4.212	0.002	0.118	-0.960
Inpp5d	0.460	8.345	4.212	0.002	0.118	-0.960
Ube2g2	-0.492	10.476	-4.211	0.002	0.118	-0.961
Gngt2	0.633	8.103	4.211	0.002	0.118	-0.962
Cd72	0.515	7.650	4.211	0.002	0.118	-0.962
Slc2a10	-1.494	9.451	-4.208	0.002	0.118	-0.966
Atp6v1e1	-0.507	11.233	-4.203	0.002	0.119	-0.973
Tmem173	1.019	8.836	4.202	0.002	0.119	-0.974
Lrrc66	0.818	9.953	4.197	0.002	0.119	-0.982
Prss22	1.310	7.254	4.197	0.002	0.119	-0.983
Ms4a7	0.607	8.179	4.195	0.002	0.119	-0.985
Smarcal1	-0.599	8.057	-4.194	0.002	0.119	-0.986
Rnf19a	0.369	10.754	4.194	0.002	0.119	-0.987
Gm3880	-1.041	7.180	-4.183	0.002	0.120	-1.003
Flrt2	-0.419	7.760	-4.181	0.002	0.120	-1.006
Duoxa1	0.861	7.668	4.177	0.002	0.120	-1.012
Grhl1	-1.006	8.840	-4.177	0.002	0.120	-1.012
Bfar	-0.510	10.860	-4.173	0.002	0.121	-1.017

Nfam1	0.586	7.340	4.170	0.002	0.121	-1.023
Pikfyve	0.416	9.552	4.170	0.002	0.121	-1.023
Dnajc4	-0.328	8.850	-4.159	0.002	0.122	-1.038
Cyp26b1	0.879	7.600	4.150	0.002	0.124	-1.052
Commd6	-0.313	10.090	-4.149	0.002	0.124	-1.053
Depdc5	0.335	9.156	4.147	0.002	0.124	-1.056
Ifi47	0.708	7.883	4.144	0.002	0.124	-1.061
Mefv	0.703	7.397	4.141	0.002	0.124	-1.065
4930438A08Rik	-1.407	7.372	-4.140	0.002	0.124	-1.068
Sorcs3	-0.384	6.602	-4.135	0.002	0.125	-1.074
Eif4e3	0.620	8.731	4.132	0.002	0.125	-1.079
Sec61b	-0.287	10.467	-4.127	0.002	0.125	-1.087
Ppp2r5e	-0.409	10.430	-4.126	0.002	0.125	-1.088
Ly86	0.616	7.516	4.125	0.002	0.125	-1.090
Gimap6	0.597	8.857	4.123	0.002	0.126	-1.093
Zc3h12a	1.008	9.229	4.119	0.002	0.126	-1.098
Gm10307	0.436	7.894	4.118	0.002	0.126	-1.099
Aoah	0.540	7.244	4.117	0.002	0.126	-1.101
Igkv4-61	0.689	6.696	4.115	0.002	0.126	-1.104
Bhlhe22	0.429	7.047	4.109	0.002	0.127	-1.114
Bpgm	0.716	11.206	4.107	0.002	0.127	-1.116
Dnajb14	-0.421	10.847	-4.103	0.002	0.127	-1.121
Sema3e	-1.398	9.348	-4.101	0.002	0.127	-1.125
Pcdhb9	1.198	7.903	4.100	0.002	0.127	-1.127
Gm8995	0.530	7.255	4.098	0.002	0.127	-1.129
Kcnj13	-0.455	6.653	-4.097	0.002	0.127	-1.131
Bmp1	0.548	8.877	4.096	0.002	0.127	-1.133
Rreb1	0.353	10.379	4.094	0.002	0.127	-1.135
Ccdc160	0.395	6.652	4.086	0.002	0.128	-1.148
Rgs3	0.491	9.185	4.085	0.002	0.128	-1.149
Brca2	0.605	8.401	4.083	0.002	0.128	-1.152
Bail	-1.290	7.682	-4.077	0.002	0.129	-1.161
Slc5a5	-3.156	8.736	-4.077	0.002	0.129	-1.161
Dmap1	-0.308	8.935	-4.076	0.002	0.129	-1.163
Rftnl	0.404	7.787	4.071	0.002	0.129	-1.170
Lrrc33	0.420	7.783	4.070	0.002	0.129	-1.172
4921517L17Rik	-1.769	10.174	-4.067	0.002	0.129	-1.176
Pick1	-0.291	10.308	-4.067	0.002	0.129	-1.176
Klhdc8b	-0.656	7.927	-4.063	0.002	0.129	-1.182
Pln	-1.848	8.223	-4.062	0.002	0.129	-1.184
Slc25a24	0.708	11.832	4.051	0.002	0.130	-1.201
Deptor	-0.763	12.559	-4.050	0.002	0.130	-1.201
Moxd1	0.557	7.744	4.050	0.002	0.130	-1.201
Stt3b	-0.335	12.791	-4.050	0.002	0.130	-1.201
Mmp9	1.213	8.020	4.050	0.002	0.130	-1.202
Brcal	0.502	8.981	4.048	0.002	0.130	-1.204
Gpr114	0.653	7.348	4.047	0.002	0.130	-1.206
Casp4	1.017	8.199	4.045	0.002	0.130	-1.208
Rps6kc1	0.460	8.635	4.045	0.002	0.130	-1.209
Xrn1	0.558	9.851	4.043	0.002	0.130	-1.211

Bcl2a1a	0.681	7.067	4.039	0.002	0.131	-1.217
Clec7a	1.262	8.501	4.035	0.002	0.131	-1.223
Fbxo34	0.383	9.844	4.035	0.002	0.131	-1.224
Nek4	0.445	9.010	4.033	0.002	0.131	-1.227
Samd1	-0.526	9.355	-4.031	0.002	0.131	-1.230
Traf1	0.621	7.359	4.030	0.002	0.131	-1.231
Mcm7	0.551	10.736	4.021	0.002	0.132	-1.245
Akap5	-0.571	7.295	-4.015	0.002	0.133	-1.254
Ddah1	0.702	7.680	4.011	0.002	0.134	-1.260
Rs1	-0.463	6.711	-4.007	0.003	0.134	-1.266
Kcna1	-0.998	7.155	-3.999	0.003	0.135	-1.278
Lars2	-1.872	12.367	-3.999	0.003	0.135	-1.278
Mmp14	1.160	10.268	3.998	0.003	0.135	-1.279
Gm12183	0.402	9.662	3.998	0.003	0.135	-1.280
Arhgap31	0.502	8.580	3.996	0.003	0.135	-1.282
Msc	0.422	6.995	3.994	0.003	0.135	-1.285
Trem12	0.439	6.791	3.994	0.003	0.135	-1.286
Ythdf1	-0.401	10.518	-3.992	0.003	0.135	-1.289
Lcn2	1.562	7.750	3.991	0.003	0.135	-1.290
Gstm1	-1.435	11.595	-3.991	0.003	0.135	-1.291
Slc26a10	-0.949	8.011	-3.990	0.003	0.135	-1.291
Zfp623	-0.516	9.805	-3.984	0.003	0.136	-1.301
Tnfsf11	0.622	7.012	3.981	0.003	0.136	-1.305
Trim15	1.816	8.593	3.975	0.003	0.137	-1.315
Capn9	-2.494	9.982	-3.971	0.003	0.137	-1.320
Gsdma2	-4.593	11.802	-3.970	0.003	0.137	-1.322
Tnfrsf26	0.542	7.099	3.969	0.003	0.137	-1.323
Clock	0.358	11.662	3.965	0.003	0.137	-1.329
Tpmt	-1.011	9.259	-3.965	0.003	0.137	-1.329
Ptchd1	-0.622	6.832	-3.964	0.003	0.137	-1.331
Ntn4	-1.019	9.841	-3.957	0.003	0.139	-1.342
ApoE	0.843	12.189	3.954	0.003	0.139	-1.345
Tmem119	0.838	8.326	3.952	0.003	0.139	-1.348
Ccr5	0.845	7.616	3.948	0.003	0.140	-1.356
Ifnar1	0.360	10.166	3.944	0.003	0.140	-1.361
Sh3glb2	-0.726	10.371	-3.939	0.003	0.141	-1.369
Abca1	0.874	9.800	3.938	0.003	0.141	-1.370
Gm12563	-2.117	10.168	-3.929	0.003	0.143	-1.383
Dlgap1	-1.600	8.983	-3.927	0.003	0.143	-1.387
Clec4n	1.118	8.389	3.926	0.003	0.143	-1.389
Plac8	1.326	13.272	3.921	0.003	0.144	-1.396
Gp49a	1.258	8.355	3.916	0.003	0.144	-1.403
Dcaf10	-0.330	10.266	-3.912	0.003	0.145	-1.410
Mgat5	0.893	9.520	3.910	0.003	0.145	-1.412
Dlg1	-0.420	12.037	-3.908	0.003	0.145	-1.416
Gm15662	-2.098	10.711	-3.907	0.003	0.145	-1.417
Fbxo16	-0.416	6.940	-3.904	0.003	0.145	-1.421
Cxcl12	0.460	9.803	3.904	0.003	0.145	-1.422
Tbce1	0.540	10.107	3.900	0.003	0.145	-1.428
4930524L23Rik	0.324	6.559	3.897	0.003	0.145	-1.432

Osbp	-0.294	11.724	-3.894	0.003	0.145	-1.437
Ssh1	0.620	9.117	3.894	0.003	0.145	-1.437
B630019K06Rik	-0.517	7.749	-3.894	0.003	0.145	-1.437
Slc10a7	-0.700	10.543	-3.894	0.003	0.145	-1.438
Raver2	-0.719	7.560	-3.893	0.003	0.145	-1.439
Sec61g	-0.490	10.230	-3.892	0.003	0.145	-1.440
4632428N05Rik	0.782	9.235	3.891	0.003	0.145	-1.441
Gm13663	0.359	6.593	3.891	0.003	0.145	-1.441
Kcnd3	-0.941	7.699	-3.890	0.003	0.145	-1.443
Arrb2	-0.409	8.916	-3.888	0.003	0.145	-1.446
AC165433.1	0.369	6.646	3.883	0.003	0.146	-1.454
mmu-mir-689-2	-1.895	10.460	-3.882	0.003	0.146	-1.456
Sulf1	1.403	9.735	3.880	0.003	0.146	-1.458
Dtl	0.615	8.905	3.877	0.003	0.146	-1.463
Fpr1	0.573	6.638	3.876	0.003	0.146	-1.464
Fh1	-0.317	11.673	-3.875	0.003	0.146	-1.466
Tcrg-C	0.426	6.875	3.874	0.003	0.146	-1.467
Rnf19b	0.436	10.418	3.870	0.003	0.147	-1.473
Ubl4	-0.368	10.239	-3.868	0.003	0.147	-1.476
Grik5	-0.369	7.698	-3.865	0.003	0.147	-1.481
Rragb	-0.461	7.234	-3.863	0.003	0.148	-1.484
Rab32	0.625	9.065	3.860	0.003	0.148	-1.488
Rnf183	0.866	7.249	3.860	0.003	0.148	-1.489
Nr4a2	-0.526	8.983	-3.855	0.003	0.149	-1.497
Myo7a	0.648	7.323	3.852	0.003	0.149	-1.501
Gm16096	0.488	6.894	3.852	0.003	0.149	-1.501
Pkp1	1.083	8.368	3.850	0.003	0.149	-1.504
Mcpt1	1.424	9.450	3.848	0.003	0.149	-1.507
Pik3c2g	-1.723	8.913	-3.848	0.003	0.149	-1.508
Gpd1l	-0.845	12.276	-3.846	0.003	0.149	-1.510
Rdh10	1.026	11.300	3.844	0.003	0.149	-1.513
Syt11	-1.414	10.130	-3.842	0.003	0.149	-1.517
Lgmn	0.514	11.097	3.836	0.003	0.150	-1.525
Rnf149	-0.627	10.947	-3.836	0.003	0.150	-1.526
Tomm7	-0.424	10.826	-3.834	0.003	0.150	-1.528
Gps2	-0.291	9.655	-3.832	0.003	0.150	-1.531
Ldlr	0.647	11.596	3.832	0.003	0.150	-1.532
Stx17	-0.461	11.241	-3.830	0.003	0.150	-1.535
Lmcd1	0.847	8.800	3.825	0.003	0.151	-1.542
2900056M20Rik	0.401	6.878	3.824	0.003	0.151	-1.543
Kmo	0.729	7.491	3.824	0.003	0.151	-1.544
Fancd2	0.584	8.191	3.822	0.003	0.151	-1.547
Exoc6	0.462	9.975	3.821	0.003	0.151	-1.548
Bcl9	0.944	9.628	3.820	0.003	0.151	-1.549
Wnt16	-0.456	6.579	-3.819	0.003	0.151	-1.552
Ccr4	0.540	6.797	3.818	0.003	0.151	-1.553
9830001H06Rik	0.413	7.838	3.818	0.003	0.151	-1.554
Pou2af1	0.954	8.217	3.815	0.003	0.151	-1.557
Mllt3	-1.714	12.558	-3.814	0.003	0.151	-1.559
Ttll5	0.394	8.805	3.813	0.003	0.151	-1.560

H2-Eb1	0.968	10.539	3.811	0.003	0.151	-1.564
Gpr132	0.442	7.003	3.806	0.003	0.152	-1.572
Paox	0.610	9.038	3.802	0.003	0.152	-1.577
Plp1	-0.453	7.573	-3.802	0.003	0.152	-1.578
Pcdhb18	0.406	7.104	3.802	0.003	0.152	-1.578
Rspol	-0.584	6.759	-3.800	0.003	0.152	-1.581
I11b	1.603	8.050	3.797	0.004	0.152	-1.585
5031414D18Rik	0.463	6.748	3.797	0.004	0.152	-1.585
Lsmd1	-0.453	9.027	-3.796	0.004	0.152	-1.586
Preb	-0.328	11.507	-3.795	0.004	0.152	-1.589
1700017B05Rik	0.781	8.328	3.793	0.004	0.153	-1.592
Pcbd2	-0.377	9.136	-3.791	0.004	0.153	-1.594
Gm10012	-0.348	6.712	-3.790	0.004	0.153	-1.596
Acad8	-0.574	10.564	-3.788	0.004	0.153	-1.598
Pf4	0.710	7.630	3.787	0.004	0.153	-1.600
Gas1	-0.820	8.585	-3.785	0.004	0.153	-1.603
Poc1a	0.362	8.091	3.785	0.004	0.153	-1.604
Chd9	-0.292	10.979	-3.783	0.004	0.153	-1.606
Ceacam12	1.005	7.063	3.778	0.004	0.154	-1.614
Cldn4	2.456	8.892	3.776	0.004	0.154	-1.618
Coll1a1	1.066	11.231	3.775	0.004	0.154	-1.619
Tnfrsf9	0.425	6.881	3.773	0.004	0.154	-1.622
Csflr	0.757	9.437	3.770	0.004	0.155	-1.626
Syngn2	-0.343	11.497	-3.768	0.004	0.155	-1.629
Zfp672	-0.252	8.969	-3.767	0.004	0.155	-1.631
Myct1	0.422	7.558	3.765	0.004	0.155	-1.634
Rundc1	-0.571	10.147	-3.763	0.004	0.155	-1.637
Tmem30b	-0.337	12.164	-3.761	0.004	0.155	-1.640
Wdr63	-0.549	7.057	-3.760	0.004	0.155	-1.641
Preli2	-0.976	10.050	-3.760	0.004	0.155	-1.642
Fam169b	0.481	6.819	3.759	0.004	0.155	-1.644
Mup10	-1.787	8.642	-3.756	0.004	0.155	-1.648
Pask	0.358	7.958	3.755	0.004	0.155	-1.649
Ctsc	0.645	11.925	3.755	0.004	0.155	-1.650
Gtf3c1	0.306	10.553	3.754	0.004	0.155	-1.651
Abcb7	0.241	11.530	3.753	0.004	0.155	-1.653
Utp111	-1.096	10.957	-3.750	0.004	0.156	-1.657
Rps24	-0.337	13.025	-3.749	0.004	0.156	-1.660
Arpc51	-0.464	11.018	-3.744	0.004	0.156	-1.667
Sgpp1	-0.704	11.378	-3.743	0.004	0.156	-1.669
Fer	-0.423	10.344	-3.742	0.004	0.156	-1.670
Arhgap9	0.594	7.652	3.741	0.004	0.156	-1.672
Lgr5	-0.975	8.266	-3.740	0.004	0.156	-1.672
Mcm2	0.467	9.749	3.740	0.004	0.156	-1.672
Net1	0.680	12.169	3.738	0.004	0.156	-1.676
Ttc17	-0.371	10.400	-3.737	0.004	0.156	-1.677
Kcnipl	-0.785	7.006	-3.737	0.004	0.156	-1.678
Dcstamp	0.500	6.819	3.736	0.004	0.156	-1.679
Cxcl3	0.999	7.115	3.733	0.004	0.156	-1.683
Aph1b	-0.427	8.168	-3.733	0.004	0.156	-1.684

1190003J15Rik	0.592	8.689	3.731	0.004	0.156	-1.686
Edem2	-0.413	10.925	-3.729	0.004	0.156	-1.689
Mrpl1	-0.299	9.884	-3.728	0.004	0.156	-1.691
Gm11557	0.322	6.572	3.728	0.004	0.156	-1.692
Klrb1b	0.566	7.030	3.727	0.004	0.156	-1.693
Gm14738	-0.955	7.182	-3.726	0.004	0.156	-1.694
Ctss	1.539	10.657	3.723	0.004	0.157	-1.699
Slcla3	-0.993	9.029	-3.723	0.004	0.157	-1.700
AC090887.2	1.282	7.372	3.721	0.004	0.157	-1.702
Klrg1	0.515	7.028	3.721	0.004	0.157	-1.703
Gsn	-1.260	13.238	-3.720	0.004	0.157	-1.704
Tons1	0.556	8.396	3.718	0.004	0.157	-1.706
1810033B17Rik	0.728	6.851	3.717	0.004	0.157	-1.709
Dusp13	-1.247	7.419	-3.714	0.004	0.157	-1.712
Mgll	-1.153	10.179	-3.714	0.004	0.157	-1.712
Hrnpr	0.281	11.393	3.712	0.004	0.157	-1.716
Tenc1	-0.627	9.173	-3.712	0.004	0.157	-1.716
Slc35a1	-0.720	12.250	-3.709	0.004	0.157	-1.720
Tnf	0.787	6.920	3.707	0.004	0.157	-1.723
S100a8	1.607	7.494	3.707	0.004	0.157	-1.723
Tceb2	-0.373	10.093	-3.707	0.004	0.157	-1.724
Gas2l1	0.461	9.563	3.704	0.004	0.157	-1.728
Zfp871	0.459	10.307	3.704	0.004	0.157	-1.728
AC114917.1	0.353	6.560	3.703	0.004	0.157	-1.729
Galnt12	-0.605	7.933	-3.702	0.004	0.157	-1.731
Klhl33	0.645	6.786	3.702	0.004	0.157	-1.731
Prrc2c	0.448	11.726	3.699	0.004	0.157	-1.736
Btbd3	-1.282	11.567	-3.697	0.004	0.157	-1.739
Slfn2	0.731	8.390	3.696	0.004	0.157	-1.741
Scd2	0.697	13.147	3.696	0.004	0.157	-1.741
Cytip	0.892	8.321	3.696	0.004	0.157	-1.741
Cnot6l	-0.315	11.063	-3.695	0.004	0.157	-1.742
Gtf2i	-0.238	10.988	-3.695	0.004	0.157	-1.742
Pqlc1	-0.989	10.898	-3.694	0.004	0.157	-1.743
Tagln	-1.420	13.087	-3.692	0.004	0.157	-1.747
Epb4.114a	-0.731	8.599	-3.692	0.004	0.157	-1.747
Lzic	0.348	9.603	3.691	0.004	0.157	-1.748
Gng5	-0.473	10.070	-3.691	0.004	0.157	-1.749
C230081A13Rik	0.874	10.118	3.690	0.004	0.157	-1.751
Timeless	0.400	8.549	3.688	0.004	0.157	-1.753
Lyz2	1.154	10.969	3.687	0.004	0.157	-1.755
Fam110c	-0.312	10.292	-3.686	0.004	0.157	-1.756
Grb14	-0.734	8.269	-3.682	0.004	0.158	-1.763
I11f6	0.940	6.852	3.678	0.004	0.158	-1.769
Mmrn2	0.669	8.911	3.677	0.004	0.158	-1.769
Gm16154	0.405	6.639	3.673	0.004	0.159	-1.776
Mmp3	1.793	8.695	3.673	0.004	0.159	-1.776
Cd3001b	0.516	7.423	3.667	0.004	0.160	-1.786
Gm12971	0.321	6.576	3.667	0.004	0.160	-1.786
Dcp2	0.336	10.575	3.665	0.004	0.160	-1.789

Tmcc3	0.801	10.919	3.664	0.004	0.160	-1.789
2010016I18Rik	0.407	7.941	3.663	0.004	0.160	-1.791
Lxn	-0.597	9.203	-3.657	0.004	0.161	-1.801
Nfkbie	0.395	7.555	3.657	0.004	0.161	-1.801
Hmha1	0.552	8.499	3.657	0.004	0.161	-1.802
5033414D02Rik	-1.004	10.242	-3.653	0.004	0.161	-1.806
Prrx1	0.758	7.750	3.653	0.004	0.161	-1.808
Ovol2	-0.580	8.593	-3.652	0.004	0.161	-1.809
Csrp1	-1.107	12.872	-3.651	0.004	0.161	-1.811
Flrt3	0.695	10.143	3.648	0.004	0.162	-1.815
5930434B04Rik	-0.340	11.797	-3.648	0.004	0.162	-1.815
Cdh5	0.638	9.101	3.647	0.005	0.162	-1.817
Polr2a	0.469	11.261	3.643	0.005	0.162	-1.822
Ceacam1	1.996	12.618	3.642	0.005	0.162	-1.824
Zswim4	0.433	8.559	3.641	0.005	0.162	-1.825
Gm15932	0.313	6.572	3.641	0.005	0.162	-1.826
Nup107	0.385	9.783	3.640	0.005	0.162	-1.828
Igfbp2	-1.288	7.731	-3.640	0.005	0.162	-1.828
Zmat3	-0.497	9.682	-3.639	0.005	0.162	-1.829
Duox1	0.465	7.116	3.637	0.005	0.162	-1.832
Gm9733	0.355	6.529	3.636	0.005	0.162	-1.834
Plekhn3	0.591	8.190	3.631	0.005	0.163	-1.841
Nlrp12	0.463	6.686	3.631	0.005	0.163	-1.841
Plcg2	0.417	9.465	3.630	0.005	0.163	-1.843
Gm11946	-1.425	7.745	-3.629	0.005	0.163	-1.844
Hells	0.798	10.092	3.625	0.005	0.164	-1.851
Fgd6	0.687	9.928	3.623	0.005	0.164	-1.853
Yaf2	-0.383	9.188	-3.621	0.005	0.165	-1.858
Displ	-0.837	8.916	-3.616	0.005	0.165	-1.864
Ssh2	0.511	10.016	3.611	0.005	0.166	-1.872
Gm16190	0.426	6.765	3.609	0.005	0.166	-1.876
AC073563.1	0.602	6.683	3.609	0.005	0.166	-1.876
Rplp2	-0.462	10.588	-3.608	0.005	0.166	-1.876
Fscn1	0.442	7.846	3.607	0.005	0.166	-1.879
Mccc1	-0.472	10.105	-3.607	0.005	0.166	-1.879
Rgl1	0.302	8.548	3.605	0.005	0.166	-1.881
Pld3	-0.918	10.951	-3.605	0.005	0.166	-1.882
Unc93b1	0.728	9.154	3.604	0.005	0.166	-1.884
Prkch	0.461	8.138	3.603	0.005	0.166	-1.884
Slco2a1	-1.441	11.209	-3.603	0.005	0.166	-1.885
Fxyd1	-0.835	8.086	-3.602	0.005	0.166	-1.886
Gja4	0.295	7.211	3.602	0.005	0.166	-1.886
Phc1	-0.600	8.958	-3.601	0.005	0.166	-1.888
Wdfy4	0.790	7.700	3.599	0.005	0.166	-1.891
Smarcd3	-0.629	7.692	-3.597	0.005	0.166	-1.894
E2f3	0.342	8.764	3.596	0.005	0.166	-1.895
Mfsd6	-0.545	12.210	-3.591	0.005	0.168	-1.903
Zmynd8	0.315	10.300	3.590	0.005	0.168	-1.906
Gm3355	-0.395	7.228	-3.589	0.005	0.168	-1.906
Nrip3	0.456	7.833	3.588	0.005	0.168	-1.908

Icos	0.376	7.357	3.586	0.005	0.168	-1.911
Plekhm1	0.415	9.521	3.586	0.005	0.168	-1.911
Mthfd11	0.760	9.390	3.585	0.005	0.168	-1.912
Cckar	-1.235	7.189	-3.585	0.005	0.168	-1.912
Igf2as	0.403	6.701	3.582	0.005	0.168	-1.918
Pla2g12a	-0.635	10.027	-3.580	0.005	0.168	-1.920
Peg3	-0.746	9.505	-3.580	0.005	0.168	-1.921
Adam19	0.564	9.284	3.578	0.005	0.168	-1.924
Fhl5	0.364	6.861	3.577	0.005	0.168	-1.925
Slc15a4	-0.421	8.687	-3.577	0.005	0.168	-1.926
C1galt1c1	-0.396	11.463	-3.575	0.005	0.168	-1.929
Mtmr11	0.550	8.212	3.574	0.005	0.168	-1.930
Neb	0.566	7.227	3.574	0.005	0.168	-1.930
P2ry6	0.561	7.596	3.572	0.005	0.168	-1.933
Kdr	0.715	9.724	3.572	0.005	0.168	-1.933
Gm3086	0.331	6.667	3.571	0.005	0.168	-1.934
Cdh10	0.631	7.153	3.569	0.005	0.169	-1.938
Gtf2a2	-0.421	10.849	-3.568	0.005	0.169	-1.939
Cbr3	-1.932	10.964	-3.567	0.005	0.169	-1.941
F630028010Rik	0.823	7.557	3.565	0.005	0.169	-1.943
Pcp411	-1.502	9.060	-3.562	0.005	0.170	-1.949
Slamf8	0.450	7.147	3.559	0.005	0.170	-1.953
Ptpn12	0.477	10.479	3.558	0.005	0.170	-1.955
Tmem90b	-0.510	6.742	-3.558	0.005	0.170	-1.955
Zbtb48	-0.417	8.458	-3.557	0.005	0.170	-1.957
Sema6d	0.889	8.717	3.556	0.005	0.170	-1.958
Zfr	-0.286	12.024	-3.556	0.005	0.170	-1.959
Myo1g	0.466	7.514	3.555	0.005	0.170	-1.959
Coll2a1	1.495	10.372	3.553	0.005	0.170	-1.962
Cxcr6	0.683	7.276	3.551	0.005	0.170	-1.966
Arhgap6	-0.475	8.301	-3.550	0.005	0.170	-1.968
Itgb7	0.625	7.612	3.550	0.005	0.170	-1.968
Clqa	0.677	9.581	3.549	0.005	0.170	-1.968
2900041M22Rik	-0.311	6.607	-3.549	0.005	0.170	-1.969
Ccr3	0.738	7.509	3.548	0.005	0.170	-1.970
Ripk3	0.907	10.149	3.547	0.005	0.170	-1.971
Lilrb4	0.830	7.809	3.547	0.005	0.170	-1.972
Cd48	0.460	7.589	3.546	0.005	0.170	-1.973
Serp1	-0.392	13.388	-3.546	0.005	0.170	-1.974
Mup20	0.331	6.517	3.546	0.005	0.170	-1.974
Pdcd4	-0.958	13.655	-3.542	0.005	0.170	-1.980
Kifc3	0.606	9.105	3.542	0.005	0.170	-1.980
Nhs11	1.150	10.089	3.541	0.005	0.170	-1.981
Illa	1.679	7.832	3.541	0.005	0.170	-1.981
Dopey2	-0.670	10.977	-3.539	0.005	0.170	-1.985
Fcrla	0.492	6.685	3.539	0.005	0.170	-1.985
Asb13	-0.904	9.895	-3.538	0.005	0.170	-1.986
Astn1	-0.822	7.133	-3.538	0.005	0.170	-1.986
Igfbp11	0.316	6.509	3.537	0.005	0.170	-1.987
Pyhin1	0.497	7.323	3.535	0.005	0.170	-1.991

Crhr2	0.322	6.512	3.534	0.005	0.170	-1.992
Trabd	-0.373	11.199	-3.534	0.005	0.170	-1.993
Zfp69	0.345	7.302	3.531	0.005	0.170	-1.996
Mrps28	-0.295	8.906	-3.528	0.005	0.171	-2.002
Rpl36	-0.340	10.536	-3.527	0.005	0.171	-2.004
Hapl1	-0.432	6.730	-3.526	0.005	0.171	-2.005
Gcnt3	-0.972	14.612	-3.524	0.006	0.171	-2.008
Hp	1.734	8.139	3.520	0.006	0.171	-2.014
Gm8818	0.504	6.604	3.520	0.006	0.171	-2.015
Ciita	0.566	7.600	3.520	0.006	0.171	-2.015
Rab44	0.450	7.268	3.520	0.006	0.171	-2.015
SNORD91	-0.316	6.600	-3.519	0.006	0.171	-2.015
Nlr1	0.379	7.954	3.518	0.006	0.171	-2.017
Aadac	1.217	10.537	3.518	0.006	0.171	-2.018
Rps28	-0.449	10.966	-3.517	0.006	0.171	-2.020
Pp1r3e	-0.747	7.416	-3.516	0.006	0.171	-2.020
Kdm5a	0.321	11.265	3.515	0.006	0.171	-2.022
Tpd52	-0.234	13.633	-3.514	0.006	0.171	-2.024
Scubel	0.789	9.164	3.513	0.006	0.171	-2.025
mmu-mir-2134-4	-1.377	8.737	-3.513	0.006	0.171	-2.026
BC024582	0.453	6.661	3.512	0.006	0.171	-2.026
4930471I20Rik	-0.294	6.498	-3.510	0.006	0.171	-2.030
Rgs7	-0.411	7.337	-3.508	0.006	0.171	-2.033
Rpl36a1	-0.525	11.721	-3.506	0.006	0.171	-2.036
Lpxn	0.372	7.377	3.506	0.006	0.171	-2.037
BC013712	0.552	7.537	3.505	0.006	0.171	-2.037
Zfp692	-0.360	9.037	-3.505	0.006	0.171	-2.038
Ifitm6	0.592	6.707	3.505	0.006	0.171	-2.038
Ctla4	0.375	7.033	3.504	0.006	0.171	-2.039
Ogn	-1.362	10.422	-3.504	0.006	0.171	-2.040
Dhh	0.748	7.044	3.503	0.006	0.171	-2.041
AC214054.2	-0.680	6.842	-3.503	0.006	0.171	-2.042
Reep2	-0.442	6.875	-3.502	0.006	0.171	-2.043
Nkd1	-0.760	8.449	-3.501	0.006	0.171	-2.044
Foxn3	0.481	9.037	3.500	0.006	0.171	-2.045
Atp2a3	-0.814	14.019	-3.500	0.006	0.171	-2.046
Anxa9	0.382	7.320	3.498	0.006	0.172	-2.049
Slc25a38	-0.377	9.000	-3.496	0.006	0.172	-2.051
Cd101	0.418	7.143	3.496	0.006	0.172	-2.051
1810027010Rik	-0.368	8.954	-3.495	0.006	0.172	-2.053
Skint3	-0.366	6.534	-3.494	0.006	0.172	-2.055
Get4	-0.270	9.805	-3.493	0.006	0.172	-2.057
Prom2	-1.170	7.629	-3.492	0.006	0.172	-2.057
Ccdc90a	0.617	10.552	3.491	0.006	0.172	-2.059
2900010M23Rik	-0.365	9.690	-3.491	0.006	0.172	-2.060
Dusp6	0.915	10.298	3.491	0.006	0.172	-2.060
Mitd1	-0.259	9.358	-3.490	0.006	0.172	-2.062
Srp3	-0.516	6.874	-3.488	0.006	0.172	-2.065
Col4a2	0.795	11.293	3.486	0.006	0.172	-2.067
Rnf125	0.619	7.985	3.486	0.006	0.172	-2.068

AC079181.4	0.770	6.786	3.481	0.006	0.173	-2.075
Rps27	-0.401	10.608	-3.478	0.006	0.174	-2.080
I110032F04Rik	0.380	6.542	3.477	0.006	0.174	-2.081
Hs3st3b1	-2.093	10.768	-3.476	0.006	0.174	-2.084
Rab31	0.576	9.745	3.476	0.006	0.174	-2.084
Spr	-0.396	9.738	-3.475	0.006	0.174	-2.085
Txlnb	0.289	6.962	3.473	0.006	0.174	-2.087
Osbp12	-0.851	12.108	-3.473	0.006	0.174	-2.089
Gm5453	0.242	6.513	3.471	0.006	0.174	-2.092
Grid2ip	0.449	6.608	3.470	0.006	0.174	-2.092
Pbx4	-0.393	6.548	-3.470	0.006	0.174	-2.093
Aldh1a1	-1.253	12.319	-3.470	0.006	0.174	-2.093
Atad2b	0.435	9.742	3.469	0.006	0.174	-2.095
Phldb1	-0.358	11.090	-3.466	0.006	0.175	-2.099
Runx2	0.753	7.953	3.465	0.006	0.175	-2.101
AC239678.1	-0.273	6.517	-3.463	0.006	0.175	-2.103
Med27	0.319	8.480	3.460	0.006	0.176	-2.108
2210013021Rik	-0.377	8.447	-3.458	0.006	0.176	-2.111
1810035L17Rik	-0.282	9.280	-3.458	0.006	0.176	-2.111
Gsdmd	0.893	11.466	3.457	0.006	0.176	-2.113
Ang	-0.824	9.101	-3.457	0.006	0.176	-2.114
B3galt4	-0.622	8.263	-3.454	0.006	0.176	-2.117
Mogat1	-2.489	9.879	-3.454	0.006	0.176	-2.118
Cd74	0.948	10.877	3.452	0.006	0.177	-2.121
Rps25-ps1	-0.359	9.258	-3.447	0.006	0.178	-2.129
Slc20a1	0.855	10.116	3.443	0.006	0.179	-2.135
Col4a1	0.925	11.881	3.442	0.006	0.179	-2.136
Cyp1b1	1.049	8.995	3.442	0.006	0.179	-2.137
Klf9	-0.524	10.559	-3.441	0.006	0.179	-2.138
Pi16	-0.799	8.087	-3.441	0.006	0.179	-2.138
9930111J21Rik1	0.536	6.863	3.440	0.006	0.179	-2.140
Tgif2	0.463	7.325	3.439	0.006	0.179	-2.141
Nt5dc3	-0.569	9.352	-3.438	0.006	0.179	-2.143
Pigy	0.311	9.377	3.435	0.006	0.179	-2.147
Erp44	-0.479	12.436	-3.433	0.006	0.179	-2.150
Nin	0.553	9.736	3.433	0.006	0.179	-2.151
Fry	-0.624	9.605	-3.432	0.006	0.179	-2.151
Elk3	0.660	9.158	3.431	0.006	0.179	-2.153
Rab3d	-0.909	12.449	-3.431	0.006	0.179	-2.154
Ctnnb1	0.298	14.828	3.431	0.006	0.179	-2.154
Ttc30b	-0.337	8.808	-3.429	0.006	0.179	-2.157
Cyp21a1	0.545	6.686	3.429	0.006	0.179	-2.157
Dom3z	-0.202	8.604	-3.429	0.006	0.179	-2.157
Gm9746	-0.948	8.392	-3.429	0.006	0.179	-2.158
Hhex	0.486	7.716	3.428	0.006	0.179	-2.158
H2-Ab1	0.847	10.042	3.426	0.007	0.179	-2.162
2610507B11Rik	0.256	13.476	3.425	0.007	0.179	-2.163
2700049A03Rik	0.404	8.603	3.423	0.007	0.179	-2.167
AC151712.4	0.752	8.169	3.423	0.007	0.179	-2.167
Mall	1.493	10.502	3.422	0.007	0.179	-2.167

Ccdc130	-0.237	8.587	-3.422	0.007	0.179	-2.169
D19Erttd737e	0.383	10.101	3.419	0.007	0.179	-2.172
Kcnq1	0.793	10.419	3.419	0.007	0.179	-2.173
Atp6v1b2	0.340	11.583	3.418	0.007	0.179	-2.175
Irf4	0.908	7.542	3.416	0.007	0.179	-2.178
Podn11	0.477	6.990	3.416	0.007	0.179	-2.178
Ras111a	0.489	7.278	3.415	0.007	0.179	-2.178
D18Erttd653e	0.658	8.589	3.414	0.007	0.179	-2.180
Timp1	1.114	8.117	3.414	0.007	0.179	-2.181
Zfhx4	-0.715	7.399	-3.413	0.007	0.179	-2.182
Inpp5a	-0.958	10.753	-3.413	0.007	0.179	-2.182
Ptprcap	0.507	7.239	3.413	0.007	0.179	-2.183
Arhgap4	0.458	7.741	3.412	0.007	0.179	-2.184
Cenpk	0.471	8.306	3.411	0.007	0.179	-2.185
Slco5a1	0.522	6.950	3.411	0.007	0.179	-2.185
Erg	0.472	8.144	3.411	0.007	0.179	-2.186
Neto2	0.488	8.101	3.410	0.007	0.179	-2.187
Poldip3	0.452	11.052	3.408	0.007	0.179	-2.190
E430018J23Rik	0.473	8.061	3.408	0.007	0.179	-2.190
Pax7	-0.311	6.564	-3.408	0.007	0.179	-2.191
Serp2	-0.363	6.648	-3.407	0.007	0.179	-2.192
Ms4a6b	0.645	8.162	3.407	0.007	0.179	-2.192
Coq2	-0.308	10.230	-3.406	0.007	0.179	-2.193
Gm16246	-0.370	6.536	-3.406	0.007	0.179	-2.194
Ppib	-0.443	12.730	-3.404	0.007	0.180	-2.196
Tmprss4	0.480	11.784	3.403	0.007	0.180	-2.198
Skil	0.293	11.927	3.401	0.007	0.180	-2.201
Ccl28	1.249	9.873	3.399	0.007	0.180	-2.204
Tceal5	-0.453	6.762	-3.396	0.007	0.181	-2.209
Gm10053	0.467	7.869	3.395	0.007	0.181	-2.210
Mab2113	0.475	6.879	3.394	0.007	0.181	-2.212
Ly6k	-0.348	7.315	-3.392	0.007	0.181	-2.215
Rab23	-0.556	8.962	-3.391	0.007	0.181	-2.216
Snx3	-0.361	11.209	-3.391	0.007	0.181	-2.216
Lrrc25	0.340	7.094	3.391	0.007	0.181	-2.217
Tlr3	0.552	9.829	3.391	0.007	0.181	-2.217
Ces2b	-1.065	10.167	-3.390	0.007	0.181	-2.218
Slamf7	0.593	7.130	3.390	0.007	0.181	-2.219
Wdr11	0.277	10.706	3.389	0.007	0.181	-2.219
Klrg2	-1.178	7.710	-3.389	0.007	0.181	-2.220
Mir5102	-1.608	8.577	-3.388	0.007	0.181	-2.222
Ly6g6c	-1.166	7.938	-3.386	0.007	0.181	-2.224
B4galt6	0.522	11.727	3.385	0.007	0.181	-2.226
Meg3	-1.172	8.475	-3.383	0.007	0.181	-2.230
Arl5a	0.568	11.489	3.382	0.007	0.181	-2.231
A830010M20Rik	0.337	9.323	3.382	0.007	0.181	-2.231
Tnfaip2	0.601	8.304	3.381	0.007	0.181	-2.232
Fxyd5	0.723	8.840	3.381	0.007	0.181	-2.233
Gm14136	-0.272	6.564	-3.381	0.007	0.181	-2.233
Krt78	-1.704	8.845	-3.381	0.007	0.181	-2.233

9330182L06Rik	-0.627	8.116	-3.381	0.007	0.181	-2.233
Susd4	-0.440	6.852	-3.380	0.007	0.181	-2.234
Adar	-0.594	10.446	-3.379	0.007	0.181	-2.235
Selp	1.340	8.020	3.379	0.007	0.181	-2.236
Dpt	-0.773	11.391	-3.378	0.007	0.181	-2.236
Fxyd3	-0.909	11.781	-3.378	0.007	0.181	-2.237
Gbx2	0.368	6.764	3.378	0.007	0.181	-2.238
Gm7609	0.498	7.607	3.377	0.007	0.181	-2.239
Pon2	-0.765	13.793	-3.375	0.007	0.181	-2.242
Lif	0.511	7.694	3.374	0.007	0.181	-2.243
Rabgap11	0.401	11.339	3.374	0.007	0.181	-2.243
Gm16054	1.732	8.062	3.370	0.007	0.182	-2.249
Cxcl14	1.113	9.351	3.370	0.007	0.182	-2.250
Tpsb2	-0.953	7.208	-3.369	0.007	0.182	-2.251
Slc33a1	-0.423	11.269	-3.367	0.007	0.182	-2.255
Ms4a6d	0.773	7.693	3.366	0.007	0.182	-2.256
Oxsm	0.480	9.106	3.365	0.007	0.182	-2.258
Pik3ap1	0.590	7.653	3.364	0.007	0.182	-2.260
Rpn1	-0.371	13.406	-3.362	0.007	0.182	-2.262
1700019L03Rik	0.498	7.356	3.362	0.007	0.182	-2.262
Zfp703	0.660	10.935	3.362	0.007	0.182	-2.263
Ndufa7	-0.261	10.146	-3.361	0.007	0.182	-2.264
Tnfaip1	0.424	11.469	3.361	0.007	0.182	-2.265
Scpep1	0.713	10.098	3.360	0.007	0.182	-2.265
Pzp	0.906	7.379	3.357	0.007	0.183	-2.270
Sytl4	-1.067	10.098	-3.357	0.007	0.183	-2.270
H2-Oa	0.410	6.728	3.357	0.007	0.183	-2.271
2810474019Rik	0.539	10.446	3.356	0.007	0.183	-2.271
AC073561.3	1.121	7.202	3.356	0.007	0.183	-2.271
Celf5	0.545	7.092	3.355	0.007	0.183	-2.274
Gm11362	-0.257	6.897	-3.354	0.007	0.183	-2.275
Trmt2b	-0.280	9.897	-3.353	0.007	0.183	-2.277
Tns4	1.406	9.550	3.353	0.007	0.183	-2.277
Wscd1	0.228	7.059	3.349	0.007	0.184	-2.283
1110003E01Rik	-0.629	12.677	-3.348	0.007	0.184	-2.285
AC090489.2	0.301	6.502	3.347	0.007	0.184	-2.286
Gpr82	0.374	6.538	3.346	0.007	0.184	-2.288
Scn8a	0.775	7.353	3.345	0.007	0.184	-2.289
Dapk3	-0.418	9.469	-3.344	0.007	0.184	-2.291
Dscc1	0.335	7.566	3.344	0.007	0.184	-2.291
Runx3	0.500	7.258	3.339	0.008	0.186	-2.299
Lpgat1	1.253	11.657	3.338	0.008	0.186	-2.300
Rab27b	-1.187	13.482	-3.336	0.008	0.186	-2.303
Rchy1	-0.277	10.313	-3.336	0.008	0.186	-2.303
Rnaset2a	-0.587	7.884	-3.334	0.008	0.186	-2.306
Gtdc2	-0.529	7.731	-3.330	0.008	0.186	-2.312
Gm9115	-0.357	7.825	-3.330	0.008	0.186	-2.312
Klra2	0.639	7.567	3.330	0.008	0.186	-2.313
Cdca7	0.753	9.571	3.330	0.008	0.186	-2.313
Colec11	-0.387	6.545	-3.330	0.008	0.186	-2.313

Parvb	0.359	7.523	3.329	0.008	0.186	-2.314
Gm5549	0.831	7.218	3.329	0.008	0.186	-2.314
Elf1	0.207	11.474	3.328	0.008	0.186	-2.317
Amz1	0.434	7.360	3.326	0.008	0.186	-2.319
Ptpn2	0.362	10.824	3.326	0.008	0.186	-2.319
Cd274	0.443	7.820	3.326	0.008	0.186	-2.320
Cd16311	0.630	7.056	3.325	0.008	0.186	-2.320
1700019B03Rik	-0.380	6.602	-3.325	0.008	0.186	-2.322
Nostrin	-0.573	10.989	-3.324	0.008	0.186	-2.322
Psd4	0.342	10.539	3.323	0.008	0.186	-2.324
Frat1	-0.467	7.224	-3.319	0.008	0.187	-2.330
1500031L02Rik	0.493	9.509	3.319	0.008	0.187	-2.331
Ubash3b	0.546	8.289	3.319	0.008	0.187	-2.331
Tagap1	0.415	8.111	3.317	0.008	0.187	-2.333
Rps26	-0.390	12.475	-3.317	0.008	0.187	-2.333
2010111I01Rik	0.272	9.504	3.317	0.008	0.187	-2.333
Ddhd1	0.582	9.667	3.316	0.008	0.187	-2.335
Gm12860	0.485	7.312	3.315	0.008	0.187	-2.337
Cebpe	0.466	6.852	3.315	0.008	0.187	-2.337
Igdcc4	-0.771	8.656	-3.314	0.008	0.187	-2.338
4930452B06Rik	-0.496	8.227	-3.314	0.008	0.187	-2.338
Cntrob	0.359	8.236	3.314	0.008	0.187	-2.338
A930002H24Rik	0.264	6.483	3.313	0.008	0.187	-2.340
Aim2	0.970	8.192	3.311	0.008	0.187	-2.343
Adrbk1	-0.295	11.082	-3.309	0.008	0.188	-2.346
Chd2	0.318	11.393	3.309	0.008	0.188	-2.346
Pura	-0.364	12.176	-3.308	0.008	0.188	-2.348
Zdhhc17	0.537	9.454	3.306	0.008	0.188	-2.350
Elmod1	-0.340	6.521	-3.306	0.008	0.188	-2.351
Ampd3	-0.356	9.724	-3.305	0.008	0.188	-2.352
Ormd12	-0.583	10.323	-3.305	0.008	0.188	-2.353
Dlg2	-0.845	7.293	-3.305	0.008	0.188	-2.353
Sntg2	-0.841	7.649	-3.304	0.008	0.188	-2.354
Mir17hg	0.330	8.574	3.302	0.008	0.188	-2.357
Esyt2	-0.316	11.763	-3.301	0.008	0.188	-2.359
Slc1a1	1.029	7.728	3.299	0.008	0.188	-2.361
2510002D24Rik	-0.307	9.025	-3.299	0.008	0.188	-2.362
B4galnt1	-0.771	11.506	-3.299	0.008	0.188	-2.362
Cd52	0.630	7.692	3.298	0.008	0.188	-2.363
Rps13	-0.276	11.097	-3.298	0.008	0.188	-2.364
Srcap	0.446	10.004	3.297	0.008	0.188	-2.365
Fam26e	-0.464	7.358	-3.297	0.008	0.188	-2.366
Pfkl	0.416	11.074	3.296	0.008	0.188	-2.367
Camsap3	-0.765	10.581	-3.295	0.008	0.188	-2.368
Rpl21-ps3	-0.212	6.732	-3.294	0.008	0.188	-2.369
Lypd1	-0.288	7.022	-3.291	0.008	0.189	-2.375
Zmat5	-0.319	8.980	-3.291	0.008	0.189	-2.375
1110067D22Rik	-0.644	10.649	-3.289	0.008	0.189	-2.377
Irf7	0.732	8.550	3.289	0.008	0.189	-2.379
Snrnp25	-0.642	9.302	-3.288	0.008	0.189	-2.380

5430407P10Rik	-0.712	9.528	-3.287	0.008	0.189	-2.380
Gm15344	-0.653	7.959	-3.287	0.008	0.189	-2.381
Snx4	0.284	11.539	3.287	0.008	0.189	-2.381
Emp1	2.085	13.662	3.286	0.008	0.189	-2.383
Tulp3	0.284	7.901	3.284	0.008	0.189	-2.385
Magt1	-0.416	12.712	-3.284	0.008	0.189	-2.386
Fcgbp	2.804	14.385	3.282	0.008	0.189	-2.388
Tcf7	0.268	7.749	3.282	0.008	0.189	-2.389
Cdk5rap3	-0.365	11.489	-3.282	0.008	0.189	-2.389
Dpysl4	-0.355	6.688	-3.281	0.008	0.189	-2.391
Ngb	-1.257	7.338	-3.281	0.008	0.189	-2.391
Tcergl1	0.314	6.544	3.281	0.008	0.189	-2.391
Csf2rb2	0.499	8.030	3.281	0.008	0.189	-2.391
Sult1c2	-1.409	13.899	-3.279	0.008	0.189	-2.393
Lrfn1	-0.381	6.685	-3.278	0.008	0.190	-2.394
A930016022Rik	-0.360	6.531	-3.277	0.008	0.190	-2.397
Cd79a	1.318	7.448	3.277	0.008	0.190	-2.397
Wscd2	-0.831	7.470	-3.274	0.008	0.190	-2.402
Tmem189	-1.342	11.413	-3.273	0.008	0.190	-2.404
Apobr	0.729	7.737	3.273	0.008	0.190	-2.404
Gm11223	0.663	8.646	3.272	0.008	0.190	-2.404
Xlr	0.482	6.891	3.272	0.008	0.190	-2.404
Cldn7	2.507	10.589	3.272	0.008	0.190	-2.405
Dirc2	0.373	10.072	3.272	0.008	0.190	-2.405
Tcea3	-0.693	9.442	-3.272	0.008	0.190	-2.405
Fam103a1	-0.296	11.154	-3.271	0.008	0.190	-2.406
Tmem51	-0.906	11.393	-3.269	0.008	0.190	-2.409
Siglece	0.528	7.190	3.269	0.008	0.190	-2.409
I830077J02Rik	0.461	6.984	3.268	0.008	0.190	-2.411
Grem2	-0.732	9.306	-3.267	0.008	0.190	-2.412
Trim30a	0.492	8.244	3.267	0.008	0.190	-2.412
Col5a3	0.738	8.732	3.264	0.009	0.191	-2.418
Bcl3	0.815	9.245	3.264	0.009	0.191	-2.418
Pfkm	-0.462	9.522	-3.263	0.009	0.191	-2.419
Arg1	1.202	8.097	3.263	0.009	0.191	-2.419
Akrlc14	-1.770	12.602	-3.260	0.009	0.191	-2.423
Ppip5k2	0.352	11.971	3.259	0.009	0.191	-2.424
Fam100a	-0.413	9.129	-3.259	0.009	0.191	-2.425
Cntn5	-0.641	6.978	-3.258	0.009	0.191	-2.427
Otud3	0.486	9.182	3.256	0.009	0.191	-2.430
Npb	-0.543	6.754	-3.256	0.009	0.191	-2.430
Pcdhb12	0.725	7.604	3.256	0.009	0.191	-2.430
Setd6	-0.844	9.577	-3.256	0.009	0.191	-2.431
Mmp2	0.865	9.931	3.251	0.009	0.193	-2.438
Mcm5	0.553	10.034	3.251	0.009	0.193	-2.438
Helq	-0.258	8.510	-3.250	0.009	0.193	-2.440
Ikzf1	0.548	7.861	3.249	0.009	0.193	-2.442
Plxna3	-0.577	8.430	-3.248	0.009	0.193	-2.442
Slc26a7	-0.692	7.849	-3.248	0.009	0.193	-2.442
Gm15694	0.335	6.613	3.248	0.009	0.193	-2.443

Igf1	0.790	10.083	3.247	0.009	0.193	-2.445
Psap11	-3.306	12.260	-3.246	0.009	0.193	-2.445
Clec4d	1.107	7.233	3.245	0.009	0.193	-2.447
4933424M12Rik	0.296	6.563	3.245	0.009	0.193	-2.447
Sestd1	0.375	10.624	3.245	0.009	0.193	-2.447
Bhlha15	-0.910	8.388	-3.245	0.009	0.193	-2.448
Gm10382	0.360	7.117	3.244	0.009	0.193	-2.450
Gjb4	0.419	6.606	3.243	0.009	0.193	-2.451
Ptpn7	0.586	7.359	3.242	0.009	0.193	-2.451
Gm14138	-0.286	6.758	-3.242	0.009	0.193	-2.452
Gm15935	-0.541	6.815	-3.241	0.009	0.193	-2.454
Tmem159	0.331	8.765	3.238	0.009	0.193	-2.459
I12rb	0.636	7.196	3.236	0.009	0.193	-2.461
Galnt1	0.506	12.737	3.235	0.009	0.193	-2.463
Srpx	-0.496	7.840	-3.235	0.009	0.193	-2.464
Gdpd3	0.930	8.712	3.234	0.009	0.193	-2.465
Taspl	-0.457	9.098	-3.234	0.009	0.193	-2.466
2200002K05Rik	-0.832	10.540	-3.233	0.009	0.193	-2.466
Gm13429	-0.509	6.937	-3.233	0.009	0.193	-2.466
Slc5a9	1.560	8.226	3.233	0.009	0.193	-2.467
Parp3	0.431	9.816	3.233	0.009	0.193	-2.467
Rapgef6	0.214	10.501	3.232	0.009	0.193	-2.468
Tnxb	-0.810	9.229	-3.232	0.009	0.193	-2.468
Clec5a	0.510	7.578	3.231	0.009	0.194	-2.470
1300014I06Rik	0.975	8.779	3.229	0.009	0.194	-2.473
AC027184.1	-0.965	6.930	-3.229	0.009	0.194	-2.473
Prdm9	-1.047	9.704	-3.224	0.009	0.195	-2.480
Mmp25	0.501	6.955	3.221	0.009	0.196	-2.486
1700066M21Rik	-0.588	9.017	-3.220	0.009	0.196	-2.487
Kcnk6	-0.666	11.161	-3.220	0.009	0.196	-2.487
Supt16h	0.238	11.861	3.220	0.009	0.196	-2.488
Sypl	-0.383	13.153	-3.219	0.009	0.196	-2.488
Eps811	-0.995	9.430	-3.216	0.009	0.197	-2.493
Elov15	0.841	10.159	3.216	0.009	0.197	-2.494
Trim40	2.240	8.420	3.214	0.009	0.197	-2.496
Arhgef25	-0.734	8.600	-3.213	0.009	0.197	-2.498
Rasef	-1.060	12.467	-3.213	0.009	0.197	-2.498
Vapa	-0.262	12.382	-3.212	0.009	0.197	-2.500
Atp10b	1.542	11.054	3.212	0.009	0.197	-2.500
Nkx6-3	-0.594	12.115	-3.212	0.009	0.197	-2.500
Gm14125	0.263	6.483	3.210	0.009	0.197	-2.502
6330403A02Rik	-0.890	8.285	-3.210	0.009	0.197	-2.503
Reep3	0.740	12.105	3.210	0.009	0.197	-2.503
Reep5	-0.615	11.974	-3.210	0.009	0.197	-2.503
Cxcr2	0.504	7.844	3.208	0.009	0.197	-2.505
Rgmb	-0.632	9.678	-3.208	0.009	0.197	-2.506
Wsb1	0.588	10.684	3.207	0.009	0.197	-2.508
Ical	-0.618	10.810	-3.206	0.009	0.197	-2.509
Slmo1	-0.504	6.766	-3.206	0.009	0.197	-2.510
Dnajb1	-0.462	10.780	-3.204	0.009	0.197	-2.512

Slain2	-0.238	11.464	-3.204	0.009	0.197	-2.512
Slitrk1	-0.350	6.678	-3.203	0.009	0.197	-2.514
Rrbp1	-0.240	14.207	-3.201	0.009	0.198	-2.517
El12	-0.334	11.518	-3.198	0.010	0.199	-2.522
Gas6	-0.746	11.304	-3.198	0.010	0.199	-2.522
2010001K21Rik	-0.714	7.519	-3.197	0.010	0.199	-2.524
Pcgf6	0.469	8.842	3.196	0.010	0.199	-2.525
Lsm6	-0.528	10.597	-3.193	0.010	0.199	-2.530
Rps9	-0.363	13.815	-3.192	0.010	0.199	-2.531
Slc22a17	-0.529	7.763	-3.191	0.010	0.199	-2.533
Abcc5	-0.708	10.600	-3.191	0.010	0.199	-2.533
Fzd4	-0.550	9.962	-3.190	0.010	0.199	-2.534
Socs4	0.470	11.554	3.190	0.010	0.199	-2.534
9030619P08Rik	0.615	6.883	3.190	0.010	0.199	-2.535
Nudt4	0.892	11.187	3.190	0.010	0.199	-2.535
Kcnj15	-2.858	8.907	-3.190	0.010	0.199	-2.535
Eral1	-0.265	8.820	-3.187	0.010	0.200	-2.540
Trem14	0.502	6.769	3.187	0.010	0.200	-2.540
Heg1	0.622	9.858	3.186	0.010	0.200	-2.541
Gm10052	0.376	8.633	3.186	0.010	0.200	-2.541
Ubl3	-0.352	11.391	-3.185	0.010	0.200	-2.542
Usol	-0.308	12.524	-3.185	0.010	0.200	-2.543
Kcnd1	0.344	7.103	3.185	0.010	0.200	-2.543
AC122807.1	-0.308	10.414	-3.185	0.010	0.200	-2.543
Wnt4	0.516	7.640	3.182	0.010	0.200	-2.547
Bloc1s1	-0.296	8.877	-3.182	0.010	0.200	-2.548
Eif1b	-0.243	9.229	-3.181	0.010	0.200	-2.548
Hcfc1	0.250	10.724	3.180	0.010	0.200	-2.551
Ppplr37	-0.281	10.404	-3.179	0.010	0.200	-2.552
Naa10	-0.313	9.585	-3.179	0.010	0.200	-2.552
Foxa2	-1.029	9.406	-3.179	0.010	0.200	-2.552
Vmp1	0.562	12.838	3.178	0.010	0.200	-2.554
Itm2a	-0.425	8.269	-3.177	0.010	0.200	-2.555
Rab8b	0.454	9.750	3.176	0.010	0.200	-2.557
I111ral	-0.603	8.778	-3.176	0.010	0.200	-2.557
Vcp-rs	-0.777	11.091	-3.175	0.010	0.200	-2.558
Pnmall	-0.526	6.735	-3.174	0.010	0.200	-2.559
Wac	-0.277	11.652	-3.174	0.010	0.200	-2.560
Lmo4	-1.325	11.225	-3.172	0.010	0.200	-2.563
Rccd1	0.460	8.102	3.172	0.010	0.200	-2.563
Snord70	0.238	6.470	3.172	0.010	0.200	-2.563
Nphs2	-0.567	6.680	-3.171	0.010	0.200	-2.564
Ndn	-0.673	7.519	-3.171	0.010	0.200	-2.564
Tmx4	-0.481	10.505	-3.170	0.010	0.200	-2.566
Mcmbp	-0.470	10.827	-3.170	0.010	0.200	-2.566
Ppplr15a	0.701	8.822	3.170	0.010	0.200	-2.567
Slc11a1	0.491	7.676	3.170	0.010	0.200	-2.567
C130074G19Rik	1.508	10.797	3.170	0.010	0.200	-2.567
Ly9	0.570	7.313	3.168	0.010	0.200	-2.569
Hmgb3	0.535	9.419	3.168	0.010	0.200	-2.570

Piwil4	-0.930	7.241	-3.167	0.010	0.200	-2.572
Gngl1	0.355	8.358	3.166	0.010	0.200	-2.573
Lamtor2	-0.438	10.685	-3.165	0.010	0.200	-2.574
Rp2h	0.272	11.288	3.165	0.010	0.200	-2.574
Gm6286	-0.328	7.493	-3.165	0.010	0.200	-2.574
Cd209f	-0.591	7.073	-3.165	0.010	0.200	-2.574
Camk2b	-0.789	7.927	-3.164	0.010	0.200	-2.577
Ceacam2	0.556	7.321	3.164	0.010	0.200	-2.577
Bckdhh	-0.647	8.656	-3.163	0.010	0.200	-2.577
Ptpn21	-0.586	9.572	-3.163	0.010	0.200	-2.578
Bcat2	-1.230	11.537	-3.163	0.010	0.200	-2.578
Pank1	-0.790	10.207	-3.163	0.010	0.200	-2.578
Acta2	-1.260	13.184	-3.162	0.010	0.200	-2.580
Tmed2	-0.387	14.135	-3.161	0.010	0.200	-2.580
4932418E24Rik	-0.405	6.554	-3.161	0.010	0.200	-2.580
Dnajb9	-0.502	11.565	-3.160	0.010	0.200	-2.583
Dpy30	-0.282	10.120	-3.160	0.010	0.200	-2.583
Prpf4	0.463	9.476	3.159	0.010	0.200	-2.583
Numa1	0.257	11.681	3.159	0.010	0.200	-2.584
Rgs16	0.699	7.482	3.157	0.010	0.200	-2.587
Cnn1	-1.944	11.499	-3.156	0.010	0.201	-2.589
Lgals3bp	0.651	12.026	3.155	0.010	0.201	-2.590
Gmfb	0.579	11.802	3.154	0.010	0.201	-2.592
Efcab4a	-0.600	10.161	-3.153	0.010	0.201	-2.593
Eif1	-0.337	11.752	-3.153	0.010	0.201	-2.593
Myl9	-1.558	12.083	-3.150	0.010	0.202	-2.598
Hspb7	-0.849	7.647	-3.150	0.010	0.202	-2.598
Hcfclr1	-0.437	9.880	-3.149	0.010	0.202	-2.599
2210011C24Rik	-1.025	8.103	-3.148	0.010	0.202	-2.602
Fez2	0.529	9.570	3.146	0.010	0.202	-2.604
Ppif	-1.300	10.785	-3.145	0.010	0.203	-2.605
Dpm3	-0.280	7.983	-3.144	0.010	0.203	-2.607
Chaf1b	0.307	8.534	3.142	0.010	0.203	-2.610
Cerk	0.689	9.180	3.142	0.010	0.203	-2.611
Cep350	-0.546	11.863	-3.142	0.011	0.203	-2.611
Myold	0.326	11.827	3.141	0.011	0.203	-2.612
Fam70a	-0.391	6.805	-3.141	0.011	0.203	-2.612
Eml1	-1.214	11.690	-3.140	0.011	0.203	-2.613
Ttyh3	0.556	8.656	3.140	0.011	0.203	-2.614
Rab5b	-0.425	12.334	-3.140	0.011	0.203	-2.614
Prss27	0.746	7.072	3.138	0.011	0.203	-2.618
Gm14226	0.367	6.881	3.137	0.011	0.203	-2.619
Cyr61	0.588	8.578	3.135	0.011	0.204	-2.621
Zap70	0.527	6.910	3.133	0.011	0.204	-2.624
Epb4.1	-0.350	12.251	-3.133	0.011	0.204	-2.625
Sin3b	-0.250	10.386	-3.133	0.011	0.204	-2.625
Fam19a2	-0.527	6.862	-3.133	0.011	0.204	-2.626
Ltk	-0.582	7.926	-3.132	0.011	0.204	-2.626
Epas1	0.413	11.502	3.132	0.011	0.204	-2.626
Tex14	0.336	7.067	3.131	0.011	0.204	-2.628

S100a10	1.143	11.968	3.131	0.011	0.204	-2.628
Gstm2	-1.093	11.716	-3.130	0.011	0.204	-2.631
Dl14	0.350	8.026	3.129	0.011	0.204	-2.632
Acat3	0.520	7.082	3.128	0.011	0.204	-2.632
Egln3	1.005	10.934	3.128	0.011	0.204	-2.634
Scand1	-0.324	8.966	-3.127	0.011	0.204	-2.634
Slc25a30	0.354	8.180	3.127	0.011	0.204	-2.635
Abcg3	0.536	7.819	3.126	0.011	0.204	-2.636
Arhgef101	0.544	8.999	3.126	0.011	0.204	-2.636
Rpl27a	-0.253	12.344	-3.126	0.011	0.204	-2.637
Lyn	0.380	10.700	3.126	0.011	0.204	-2.637
Gimap4	0.690	8.708	3.126	0.011	0.204	-2.637
Slc25a21	-0.347	6.854	-3.125	0.011	0.204	-2.637
Rnd1	0.245	7.333	3.124	0.011	0.204	-2.639
Gadd45g	-0.372	8.458	-3.122	0.011	0.204	-2.642
Onecut2	3.153	11.274	3.122	0.011	0.204	-2.642
Tmem106b	-0.489	11.734	-3.122	0.011	0.204	-2.643
Gm14137	0.455	7.506	3.120	0.011	0.204	-2.645
Rbm41	0.282	8.694	3.120	0.011	0.204	-2.645
Slc25a14	-0.401	8.831	-3.120	0.011	0.204	-2.646
I134	0.492	7.922	3.118	0.011	0.205	-2.649
Sec22a	-0.311	9.543	-3.117	0.011	0.205	-2.650
2810403A07Rik	-0.219	10.938	-3.117	0.011	0.205	-2.651
Abca8b	-0.652	7.963	-3.117	0.011	0.205	-2.651
Adam12	0.618	7.391	3.116	0.011	0.205	-2.653
Spns3	0.463	6.873	3.115	0.011	0.205	-2.653
Gm12158	0.354	7.287	3.113	0.011	0.205	-2.657
Tnks	0.234	10.333	3.113	0.011	0.205	-2.657
Traf3ip3	0.483	7.273	3.113	0.011	0.205	-2.657
Npr12	-0.337	8.629	-3.112	0.011	0.205	-2.658
Rnf146	-0.204	10.400	-3.111	0.011	0.205	-2.660
Samd8	-0.729	12.188	-3.110	0.011	0.205	-2.662
Cops8	0.224	10.212	3.110	0.011	0.205	-2.663
Gopc	-0.318	10.345	-3.109	0.011	0.205	-2.663
A630001G21Rik	0.413	7.231	3.109	0.011	0.205	-2.663
Arhgef6	0.314	8.686	3.109	0.011	0.205	-2.663
Frrs1	0.417	9.315	3.108	0.011	0.205	-2.665
Txndc5	-0.475	13.561	-3.108	0.011	0.205	-2.665
Syt13	0.355	7.124	3.108	0.011	0.205	-2.665
I123a	0.300	6.501	3.107	0.011	0.205	-2.666
Reg3g	3.155	9.969	3.107	0.011	0.205	-2.666
Duox2	1.513	11.185	3.106	0.011	0.205	-2.669
Igkv13-84	0.772	7.060	3.105	0.011	0.205	-2.669
Ighv1-73	0.481	6.592	3.105	0.011	0.205	-2.670
Vill	-2.012	11.942	-3.102	0.011	0.206	-2.674
Bhlhe40	0.792	10.851	3.102	0.011	0.206	-2.674
Sirpblc	0.379	6.706	3.101	0.011	0.206	-2.676
Kif15	0.509	9.101	3.101	0.011	0.206	-2.676
Slfn4	1.022	8.384	3.100	0.011	0.206	-2.678
Tlr7	0.345	7.573	3.100	0.011	0.206	-2.678

Slc9a3r2	-0.818	9.834	-3.100	0.011	0.206	-2.678
Ptgir	0.422	7.503	3.099	0.011	0.206	-2.679
Ccdc3	-0.646	8.476	-3.098	0.011	0.206	-2.680
Elovl6	1.393	11.964	3.096	0.011	0.207	-2.683
Gpr116	0.517	9.826	3.094	0.011	0.208	-2.688
Ppp1cb	-0.309	13.938	-3.093	0.011	0.208	-2.689
Neur11b	0.412	8.367	3.092	0.011	0.208	-2.690
Mygl	-0.268	9.773	-3.091	0.011	0.208	-2.693
Ralb	-0.474	11.675	-3.090	0.011	0.208	-2.694
Pax9	1.043	7.398	3.088	0.012	0.208	-2.697
Gm12977	0.274	6.616	3.088	0.012	0.208	-2.697
Tmem181a	-0.250	9.636	-3.088	0.012	0.208	-2.697
Swi5	-0.250	11.051	-3.086	0.012	0.208	-2.700
Mir5109	-0.798	6.981	-3.085	0.012	0.208	-2.701
1110008J03Rik	-0.701	8.482	-3.085	0.012	0.208	-2.702
E130308A19Rik	-0.216	8.166	-3.084	0.012	0.208	-2.703
Klh19	-0.348	11.497	-3.083	0.012	0.208	-2.704
Osbp2	0.590	7.124	3.082	0.012	0.208	-2.706
Rnft1	-0.363	11.270	-3.082	0.012	0.208	-2.706
Car3	-2.227	7.788	-3.082	0.012	0.208	-2.707
Arf1	-0.218	13.946	-3.081	0.012	0.208	-2.708
E130012A19Rik	-0.964	8.925	-3.081	0.012	0.208	-2.708
Nfxl1	-0.229	9.947	-3.081	0.012	0.208	-2.709
Zfp831	0.357	6.642	3.080	0.012	0.208	-2.709
Prrg3	-0.552	7.209	-3.080	0.012	0.208	-2.710
Adora3	0.369	6.749	3.079	0.012	0.208	-2.711
Ehd4	-0.547	11.211	-3.079	0.012	0.208	-2.711
Prdm15	-0.288	8.779	-3.079	0.012	0.208	-2.711
Gpr30	-0.459	6.667	-3.079	0.012	0.208	-2.712
Stxbp6	-0.729	10.056	-3.078	0.012	0.208	-2.712
Gm867	0.263	6.483	3.078	0.012	0.208	-2.712
Fam49b	0.309	9.855	3.078	0.012	0.208	-2.713
Ppp2r2b	-0.745	7.096	-3.076	0.012	0.209	-2.715
A830036E02Rik	0.512	7.008	3.076	0.012	0.209	-2.716
Slc6a17	-0.925	7.615	-3.075	0.012	0.209	-2.718
Nlrp10	0.428	7.498	3.074	0.012	0.209	-2.719
Tipin	0.309	8.927	3.074	0.012	0.209	-2.720
5430427019Rik	0.283	6.945	3.073	0.012	0.209	-2.720
Dhrs9	-1.104	8.845	-3.072	0.012	0.209	-2.722
Stom	0.942	10.409	3.071	0.012	0.210	-2.724
Inad1	0.357	11.442	3.071	0.012	0.210	-2.724
Itm2b	-0.387	14.035	-3.070	0.012	0.210	-2.725
Pcsk2	-0.958	7.970	-3.068	0.012	0.210	-2.728
Prr16	0.366	7.350	3.068	0.012	0.210	-2.729
A930039A15Rik	-0.331	6.856	-3.067	0.012	0.210	-2.730
Masp1	0.803	7.465	3.067	0.012	0.210	-2.730
Tulp4	0.198	11.645	3.067	0.012	0.210	-2.731
1810022K09Rik	-0.360	9.343	-3.067	0.012	0.210	-2.731
Fgr	0.902	7.498	3.066	0.012	0.210	-2.732
Per1	-0.799	9.065	-3.066	0.012	0.210	-2.733

Itpr2	0.885	10.549	3.065	0.012	0.210	-2.734
Tubb2a	0.806	10.239	3.064	0.012	0.210	-2.735
Ppp1r18	0.377	8.633	3.064	0.012	0.210	-2.735
Slc39a4	0.970	11.152	3.062	0.012	0.210	-2.738
Ccdc122	0.422	7.920	3.062	0.012	0.210	-2.738
AC158673.1	0.888	7.089	3.061	0.012	0.210	-2.740
Il17rb	0.392	7.676	3.061	0.012	0.210	-2.740
Vamp2	-0.404	10.690	-3.060	0.012	0.210	-2.741
Gpsm3	0.350	7.690	3.059	0.012	0.210	-2.743
Zfp523	-0.264	8.509	-3.059	0.012	0.210	-2.743
Abcg1	0.537	8.016	3.058	0.012	0.210	-2.744
Frzb	0.545	7.418	3.058	0.012	0.210	-2.745
Rassf5	0.426	7.764	3.057	0.012	0.210	-2.746
Pla2g2e	0.491	6.700	3.057	0.012	0.210	-2.746
Gla	0.284	9.291	3.056	0.012	0.210	-2.748
Myom1	-1.047	8.994	-3.056	0.012	0.210	-2.748
Gm14454	0.244	6.473	3.055	0.012	0.210	-2.749
Ly6c2	1.080	7.572	3.055	0.012	0.210	-2.749
Gstpl	-0.755	11.292	-3.055	0.012	0.210	-2.750
7-Mar	0.348	11.514	3.054	0.012	0.210	-2.751
Ism1	-0.421	6.949	-3.053	0.012	0.210	-2.752
2410004A20Rik	-0.571	7.214	-3.053	0.012	0.210	-2.752
Tmem131	0.470	11.282	3.053	0.012	0.210	-2.753
Cd82	-0.363	12.384	-3.053	0.012	0.210	-2.753
Klra5	0.587	6.645	3.052	0.012	0.210	-2.754
Scnn1g	-1.356	8.172	-3.048	0.012	0.212	-2.760
Kctd15	-0.705	8.294	-3.047	0.012	0.212	-2.762
Gm1574	-0.539	6.778	-3.045	0.012	0.212	-2.765
Fnip2	-0.547	9.759	-3.045	0.012	0.212	-2.766
Plagl1	-0.727	9.458	-3.044	0.012	0.212	-2.766
Emp3	0.304	7.907	3.042	0.012	0.213	-2.770
Dad1	-0.312	10.628	-3.042	0.012	0.213	-2.770
Cyp2s1	-1.460	12.364	-3.042	0.012	0.213	-2.771
H2-Q10	0.833	7.965	3.042	0.012	0.213	-2.771
Gm2016	-0.407	6.751	-3.041	0.012	0.213	-2.771
Exoc5	-0.426	11.471	-3.040	0.012	0.213	-2.773
Ppp2r1b	-0.450	10.432	-3.040	0.013	0.213	-2.774
Tnn	-1.476	8.376	-3.039	0.013	0.213	-2.775
Xrn2	0.272	11.343	3.039	0.013	0.213	-2.775
Tgfb1	0.663	8.245	3.039	0.013	0.213	-2.775
Fam190a	-0.519	8.970	-3.038	0.013	0.213	-2.776
Gm15609	0.400	6.552	3.037	0.013	0.213	-2.777
Zcchc14	0.262	9.791	3.037	0.013	0.213	-2.778
Fam82a1	-0.475	9.055	-3.037	0.013	0.213	-2.778
Gm6316	0.485	8.773	3.035	0.013	0.213	-2.782
Gm12867	-0.387	6.647	-3.034	0.013	0.213	-2.782
Gast	-2.195	8.225	-3.033	0.013	0.214	-2.784
Reg3b	3.669	10.540	3.033	0.013	0.214	-2.785
Ptafr	0.555	7.884	3.032	0.013	0.214	-2.786
Reep6	1.196	8.885	3.031	0.013	0.214	-2.787

Gm11019	0.365	6.589	3.030	0.013	0.214	-2.790
Scnn1b	-1.259	8.111	-3.027	0.013	0.215	-2.794
Ctsk	0.577	8.614	3.026	0.013	0.215	-2.796
Cask	-0.226	11.509	-3.025	0.013	0.215	-2.797
Kazald1	-0.706	7.977	-3.025	0.013	0.215	-2.797
Rilpl2	0.523	8.819	3.025	0.013	0.215	-2.798
Stim2	-0.365	11.157	-3.025	0.013	0.215	-2.798
Ccl6	1.728	9.804	3.023	0.013	0.216	-2.801
Cep192	0.356	9.905	3.021	0.013	0.216	-2.803
Ext1	0.505	10.121	3.021	0.013	0.216	-2.804
Pllp	-1.211	11.265	-3.020	0.013	0.216	-2.805
Tfpi2	0.509	6.972	3.020	0.013	0.216	-2.805
Pdxk	0.808	10.095	3.018	0.013	0.217	-2.808
Ptpre	0.434	8.963	3.018	0.013	0.217	-2.809
Surf1	-0.317	10.197	-3.017	0.013	0.217	-2.810
BC029722	-0.283	8.570	-3.015	0.013	0.217	-2.813
Gm11201	0.449	6.576	3.015	0.013	0.217	-2.813
Ephb2	0.915	10.147	3.014	0.013	0.217	-2.815
Doc2g	-0.254	7.115	-3.014	0.013	0.217	-2.815
Plagl2	0.268	9.829	3.014	0.013	0.217	-2.815
Capn13	-1.392	10.741	-3.013	0.013	0.217	-2.817
Gcnt4	1.301	9.079	3.012	0.013	0.217	-2.818
Pcdhb21	0.278	7.102	3.011	0.013	0.217	-2.819
Rps6-ps1	-0.291	6.710	-3.010	0.013	0.218	-2.821
Syt12	0.558	8.257	3.010	0.013	0.218	-2.822
Arrdc1	-0.731	10.550	-3.008	0.013	0.218	-2.824
Cyrr1	0.514	8.560	3.008	0.013	0.218	-2.824
D930015E06Rik	-0.579	9.545	-3.007	0.013	0.218	-2.825
Aif1	0.506	8.094	3.007	0.013	0.218	-2.826
Selk	-0.491	12.076	-3.006	0.013	0.218	-2.827
Creb3	-0.416	11.610	-3.005	0.013	0.218	-2.829
5930403N24Rik	-0.413	7.108	-3.005	0.013	0.218	-2.829
Esyt3	-0.588	7.798	-3.004	0.013	0.219	-2.831
Prpf31	0.341	10.518	3.003	0.013	0.219	-2.832
Golga4	-0.270	13.643	-3.003	0.013	0.219	-2.833
Adam33	-1.020	7.290	-3.003	0.013	0.219	-2.833
Zfp324	-0.372	8.527	-3.001	0.013	0.219	-2.835
Tnfrsf1a	0.272	10.968	3.001	0.013	0.219	-2.835
Oca2	-0.306	6.536	-3.001	0.013	0.219	-2.836
Sparc	0.777	12.746	3.000	0.013	0.219	-2.837
Nfkb1	0.300	10.472	2.999	0.013	0.219	-2.839
Cntd1	0.313	6.835	2.999	0.013	0.219	-2.839
Ms4a1	0.414	6.558	2.998	0.013	0.219	-2.840
Rasgrp4	0.393	7.333	2.997	0.013	0.219	-2.842
Ivd	-0.530	10.220	-2.997	0.013	0.219	-2.842
2700060E02Rik	-0.409	10.079	-2.997	0.013	0.219	-2.842
Slc14a1	0.542	7.121	2.997	0.013	0.219	-2.842
Sh3rf2	-0.970	9.580	-2.996	0.013	0.219	-2.843
Ctxn3	-0.739	7.652	-2.996	0.013	0.219	-2.844
Ube2q1	-0.214	10.778	-2.994	0.013	0.219	-2.846

Psca	-4.401	13.629	-2.994	0.013	0.219	-2.846
Mob1b	-0.208	11.921	-2.994	0.014	0.219	-2.846
Gmppa	-0.262	10.264	-2.994	0.014	0.219	-2.846
Bap1	0.243	10.088	2.994	0.014	0.219	-2.846
Huwe1	0.268	12.639	2.993	0.014	0.219	-2.848
Sema6b	0.436	7.821	2.993	0.014	0.219	-2.848
Zfp202	0.312	7.458	2.992	0.014	0.219	-2.849
Mrc2	0.436	8.215	2.992	0.014	0.219	-2.850
Fgfbp1	-1.697	9.709	-2.990	0.014	0.219	-2.853
Cot11	-1.236	11.790	-2.989	0.014	0.219	-2.855
Uba52	-0.280	10.113	-2.989	0.014	0.219	-2.855
Epcam	1.103	14.523	2.988	0.014	0.219	-2.855
Ankrd28	0.459	10.602	2.988	0.014	0.219	-2.856
Maml2	0.555	8.010	2.988	0.014	0.219	-2.856
Tmem41b	-0.316	10.773	-2.987	0.014	0.219	-2.857
Mcm9	0.385	8.730	2.987	0.014	0.219	-2.857
1700071M16Rik	0.416	6.875	2.987	0.014	0.219	-2.858
Grip2	0.278	6.777	2.986	0.014	0.220	-2.860
Atp8b1	-0.429	13.705	-2.985	0.014	0.220	-2.860
1810007I06Rik	-0.945	8.004	-2.985	0.014	0.220	-2.861
AI462493	-0.464	9.455	-2.985	0.014	0.220	-2.861
Socs2	0.502	10.304	2.984	0.014	0.220	-2.863
2410015M20Rik	-0.266	10.723	-2.983	0.014	0.220	-2.864
Prune	0.350	9.510	2.983	0.014	0.220	-2.864
Plscr4	-0.282	8.085	-2.982	0.014	0.220	-2.865
Dynlrb1	-0.400	11.822	-2.982	0.014	0.220	-2.866
Znrclas	-0.361	8.561	-2.981	0.014	0.220	-2.867
Pcdh12	0.454	7.679	2.979	0.014	0.221	-2.871
Atxn11	0.253	10.470	2.979	0.014	0.221	-2.871
Mk11	-0.466	9.324	-2.977	0.014	0.221	-2.873
Mup14	-0.434	6.812	-2.976	0.014	0.221	-2.876
Gpc3	-1.110	7.972	-2.975	0.014	0.221	-2.877
Chm	0.203	10.297	2.974	0.014	0.221	-2.878
Them5	-0.436	6.760	-2.974	0.014	0.221	-2.878
Tmem71	0.559	7.780	2.974	0.014	0.221	-2.879
Tmem246	-0.885	9.735	-2.973	0.014	0.221	-2.880
Arhgef16	-0.360	10.864	-2.973	0.014	0.221	-2.881
Mccc2	-0.398	9.802	-2.973	0.014	0.221	-2.881
Cdk8	-0.244	10.930	-2.972	0.014	0.221	-2.881
Pcdh10	0.563	6.633	2.972	0.014	0.221	-2.882
Gm15727	0.302	6.711	2.971	0.014	0.221	-2.883
Fam102a	-0.313	11.520	-2.971	0.014	0.221	-2.883
Ctsz	0.530	11.888	2.970	0.014	0.221	-2.884
Gata4	-0.691	12.215	-2.970	0.014	0.221	-2.884
Gm17384	-0.950	7.414	-2.970	0.014	0.221	-2.885
Dolpp1	-0.341	9.669	-2.970	0.014	0.221	-2.885
Slx1b	-0.298	8.409	-2.969	0.014	0.221	-2.887
Lilra6	0.279	6.950	2.968	0.014	0.222	-2.888
Hist2h2be	-0.427	8.925	-2.966	0.014	0.222	-2.891
Tmem26	0.461	7.089	2.965	0.014	0.222	-2.892

Mcpt2	1.377	10.876	2.964	0.014	0.222	-2.894
1110059E24Rik	0.226	9.949	2.963	0.014	0.223	-2.896
Gpr20	-0.488	7.394	-2.963	0.014	0.223	-2.896
St3gal4	2.129	11.476	2.962	0.014	0.223	-2.897
Glul	-0.965	13.531	-2.961	0.014	0.223	-2.899
Irak2	0.547	9.696	2.960	0.014	0.223	-2.901
Gm9000	-2.149	9.247	-2.960	0.014	0.223	-2.902
Dysf	0.362	8.837	2.959	0.014	0.223	-2.902
Gm14403	0.248	7.468	2.959	0.014	0.223	-2.903
Agfg2	0.343	9.053	2.959	0.014	0.223	-2.903
Tnnt2	0.533	7.399	2.958	0.014	0.223	-2.904
Fut7	0.237	6.515	2.957	0.014	0.223	-2.906
5330430P22Rik	0.305	6.802	2.956	0.014	0.223	-2.907
Tnfrsf13b	0.624	7.569	2.956	0.014	0.223	-2.907
Gbp4	0.396	7.955	2.956	0.014	0.223	-2.908
Tesc	-1.214	10.263	-2.956	0.014	0.223	-2.908
Sowahc	-0.570	10.387	-2.955	0.014	0.223	-2.908
Fam3b	-0.740	12.782	-2.954	0.014	0.223	-2.910
9030625A04Rik	0.551	7.915	2.953	0.014	0.223	-2.912
Havcr2	0.494	7.676	2.952	0.015	0.223	-2.913
Wnt11	-0.999	8.679	-2.952	0.015	0.223	-2.913
Hcrtr1	-0.387	6.577	-2.952	0.015	0.223	-2.913
Plce1	-0.734	10.939	-2.952	0.015	0.223	-2.914
Cyplal	1.784	7.450	2.952	0.015	0.223	-2.914
Plekhb1	-0.495	8.677	-2.951	0.015	0.223	-2.914
Trp53	0.362	9.326	2.951	0.015	0.223	-2.916
Bnip1	-1.231	9.187	-2.951	0.015	0.223	-2.916
Ankrd37	1.474	8.197	2.950	0.015	0.223	-2.917
Oas1b	-0.352	7.402	-2.950	0.015	0.223	-2.917
Tmem184a	-0.645	10.454	-2.949	0.015	0.223	-2.918
Jmjd8	-0.361	10.084	-2.949	0.015	0.223	-2.918
Col13a1	0.340	8.129	2.949	0.015	0.223	-2.919
Pou4f1	0.429	6.793	2.948	0.015	0.223	-2.919
Cep170	0.384	8.803	2.947	0.015	0.224	-2.921
Renbp	0.340	7.835	2.947	0.015	0.224	-2.921
Col5a2	0.910	11.388	2.947	0.015	0.224	-2.922
Dhx35	0.436	8.236	2.946	0.015	0.224	-2.923
Lgals12	-1.081	10.998	-2.945	0.015	0.224	-2.925
Myo5c	-0.955	12.703	-2.945	0.015	0.224	-2.925
Grap	0.323	7.439	2.944	0.015	0.224	-2.927
Mtmr6	-0.575	12.049	-2.943	0.015	0.224	-2.927
Tlr12	0.508	7.188	2.942	0.015	0.224	-2.929
Cpxm2	-0.732	8.249	-2.941	0.015	0.224	-2.931
Zfp811	-0.324	6.649	-2.941	0.015	0.224	-2.931
Gpr171	0.524	7.256	2.941	0.015	0.224	-2.931
Wipfl	0.632	8.945	2.941	0.015	0.224	-2.932
Cd19	0.497	6.690	2.940	0.015	0.225	-2.933
Nr2c2	0.296	9.686	2.939	0.015	0.225	-2.934
Gm10451	0.397	8.454	2.938	0.015	0.225	-2.935
Kif21b	0.805	9.693	2.937	0.015	0.225	-2.937

Slc2a4	-1.135	7.966	-2.937	0.015	0.225	-2.938
Palb2	0.415	7.760	2.935	0.015	0.226	-2.941
Mmp8	0.815	6.975	2.935	0.015	0.226	-2.941
AC079273.4	0.965	7.120	2.934	0.015	0.226	-2.942
Sema5a	0.641	9.007	2.933	0.015	0.226	-2.944
Ces1d	-0.728	8.931	-2.932	0.015	0.226	-2.945
Arl6	-0.468	8.547	-2.931	0.015	0.226	-2.947
Gm10231	-0.235	8.742	-2.931	0.015	0.226	-2.948
Tmem63a	-0.802	11.877	-2.930	0.015	0.226	-2.949
Dstyk	-0.430	9.724	-2.930	0.015	0.226	-2.949
Olr1	0.504	6.959	2.929	0.015	0.226	-2.950
Rxb	-0.229	9.850	-2.929	0.015	0.226	-2.950
Cdk2ap2	-0.362	9.850	-2.929	0.015	0.226	-2.950
Olfml1	-0.235	7.453	-2.928	0.015	0.226	-2.952
Topbp1	0.313	10.542	2.927	0.015	0.226	-2.953
Fam175a	-0.274	8.676	-2.927	0.015	0.226	-2.953
Syt12	-1.578	12.884	-2.927	0.015	0.226	-2.954
Sh3bgrl2	-0.549	13.162	-2.926	0.015	0.226	-2.954
0610037P05Rik	-0.385	10.456	-2.926	0.015	0.226	-2.955
Bri3	-0.590	9.632	-2.926	0.015	0.226	-2.955
Rhot1	-0.495	10.616	-2.926	0.015	0.226	-2.956
Lypd6b	-2.185	10.221	-2.926	0.015	0.226	-2.956
Trim16	-0.492	10.569	-2.926	0.015	0.226	-2.956
Rffl	-0.532	10.444	-2.922	0.015	0.227	-2.961
Lin7c	0.244	12.860	2.922	0.015	0.227	-2.961
Paqr7	-0.961	9.670	-2.922	0.015	0.227	-2.961
Pcp4	-1.274	7.370	-2.922	0.015	0.227	-2.961
Agpat4	-1.713	10.677	-2.922	0.015	0.227	-2.962
Fads2	0.967	10.073	2.921	0.015	0.227	-2.963
Naip1	2.249	10.695	2.919	0.015	0.227	-2.965
Fam132b	0.256	7.498	2.919	0.015	0.227	-2.966
Krt84	0.357	6.530	2.918	0.015	0.227	-2.967
Pygm	-0.531	7.613	-2.918	0.015	0.227	-2.967
RP24-69M8.3	0.256	6.575	2.918	0.015	0.227	-2.968
Uprt	0.264	9.020	2.918	0.015	0.227	-2.968
Slc35f5	-0.431	12.084	-2.917	0.015	0.227	-2.969
Cox8b	-0.555	6.629	-2.917	0.015	0.227	-2.970
Ier5	0.475	9.299	2.916	0.015	0.228	-2.971
Gm15848	0.395	7.164	2.915	0.015	0.228	-2.972
I17r	0.485	7.873	2.913	0.016	0.228	-2.975
Lamp2	0.345	13.115	2.913	0.016	0.228	-2.976
Cyt11	-0.500	7.111	-2.910	0.016	0.229	-2.980
Nr4a1	0.471	8.340	2.909	0.016	0.229	-2.982
Sash3	0.466	7.306	2.908	0.016	0.230	-2.984
Mapk1	-0.239	12.015	-2.907	0.016	0.230	-2.986
Rfc4	0.351	8.634	2.906	0.016	0.230	-2.987
Gfra1	-0.764	7.375	-2.905	0.016	0.230	-2.988
Pfkfb4	1.359	8.942	2.905	0.016	0.230	-2.989
Stx19	-0.990	9.630	-2.905	0.016	0.230	-2.989
N4bp1	-0.501	10.909	-2.904	0.016	0.230	-2.989

Ndrg2	-0.915	10.121	-2.904	0.016	0.230	-2.990
Pstk	-0.322	8.764	-2.903	0.016	0.230	-2.991
Klh122	-0.514	10.265	-2.903	0.016	0.230	-2.992
Rap1a	-0.549	11.836	-2.903	0.016	0.230	-2.992
Zbtb3	-0.243	7.169	-2.900	0.016	0.231	-2.996
Gm13024	0.227	6.465	2.900	0.016	0.231	-2.996
Tmed9	-0.434	12.384	-2.899	0.016	0.231	-2.998
Sft2d2	0.273	12.920	2.899	0.016	0.231	-2.998
Igsf6	0.481	7.696	2.899	0.016	0.231	-2.998
Psd	-1.043	8.822	-2.899	0.016	0.231	-2.999
Rbp4	-0.496	7.902	-2.898	0.016	0.231	-3.000
Anxa7	-0.514	12.576	-2.898	0.016	0.231	-3.000
AC159715.1	1.248	7.447	2.897	0.016	0.231	-3.001
Retnlg	0.816	7.788	2.896	0.016	0.231	-3.002
D930015M05Rik	-0.330	6.849	-2.895	0.016	0.231	-3.004
Ms4a6c	0.615	8.257	2.895	0.016	0.231	-3.005
Sec63	-0.212	12.350	-2.895	0.016	0.231	-3.005
Gm17004	0.372	7.091	2.894	0.016	0.231	-3.006
Cdk14	0.394	6.713	2.893	0.016	0.231	-3.007
Synpo21	-0.302	6.531	-2.893	0.016	0.231	-3.008
Traf3	0.306	9.645	2.893	0.016	0.231	-3.008
1500009L16Rik	0.325	7.495	2.892	0.016	0.231	-3.008
Tbc1d1	0.393	10.324	2.892	0.016	0.231	-3.009
Tgfbr2	0.433	11.093	2.892	0.016	0.231	-3.009
Dnajc3	-0.588	14.037	-2.891	0.016	0.232	-3.011
Ip6k3	-0.251	6.477	-2.890	0.016	0.232	-3.012
Mypn	-0.380	6.605	-2.890	0.016	0.232	-3.012
Iscu	-0.300	10.039	-2.890	0.016	0.232	-3.012
Arhgap21	0.181	11.334	2.889	0.016	0.232	-3.014
Bdkrb1	0.408	7.304	2.889	0.016	0.232	-3.014
Znfx1	0.543	9.592	2.888	0.016	0.232	-3.015
Ksr1	0.949	9.114	2.888	0.016	0.232	-3.015
Barx1	-1.614	8.354	-2.887	0.016	0.232	-3.017
mt-Rnr1	-0.608	13.750	-2.886	0.016	0.232	-3.019
2210020M01Rik	-0.466	7.473	-2.886	0.016	0.232	-3.019
Dcbld2	-0.867	9.701	-2.885	0.016	0.232	-3.020
Map4k4	0.395	11.591	2.885	0.016	0.232	-3.020
2-Mar	-0.428	9.737	-2.885	0.016	0.232	-3.021
Rgs14	0.364	7.032	2.884	0.016	0.232	-3.021
Gm12845	-0.484	6.706	-2.883	0.016	0.232	-3.023
Tmem220	-0.498	9.331	-2.883	0.016	0.232	-3.023
Muc5ac	-4.206	14.459	-2.883	0.016	0.232	-3.024
Gm3940	-0.296	6.674	-2.883	0.016	0.232	-3.024
Gm20541	-0.208	6.648	-2.882	0.016	0.232	-3.025
Tmprss3	-0.485	7.579	-2.882	0.016	0.232	-3.025
Klh121	-0.426	10.054	-2.882	0.016	0.232	-3.026
Eno1	0.285	12.396	2.881	0.016	0.232	-3.027
2010012P19Rik	0.767	7.979	2.881	0.016	0.232	-3.027
Nudt6	-0.256	7.724	-2.881	0.016	0.232	-3.027
Trim14	0.406	8.014	2.881	0.016	0.232	-3.027

Clip1	-0.755	11.670	-2.879	0.016	0.232	-3.029
Arsi	0.497	7.218	2.879	0.016	0.232	-3.030
Gm8420	0.234	7.573	2.878	0.016	0.233	-3.032
Gm15560	0.259	6.481	2.877	0.016	0.233	-3.032
Helz	0.252	10.190	2.877	0.016	0.233	-3.032
Gm15915	-1.145	7.224	-2.876	0.017	0.233	-3.034
Tle3	-0.608	11.018	-2.876	0.017	0.233	-3.034
AC122511.1	-0.666	8.209	-2.875	0.017	0.233	-3.036
Cyth3	-0.587	10.116	-2.874	0.017	0.233	-3.039
Dusp8	0.575	8.086	2.873	0.017	0.233	-3.039
Pcdhb5	0.773	7.455	2.873	0.017	0.233	-3.040
Emp2	-1.090	9.554	-2.872	0.017	0.233	-3.040
Calb2	0.411	7.204	2.872	0.017	0.233	-3.041
Obfc2a	0.459	9.772	2.872	0.017	0.233	-3.041
Jag1	-0.493	10.047	-2.871	0.017	0.233	-3.042
Gm9978	-0.213	7.329	-2.871	0.017	0.233	-3.042
Sostdc1	-0.403	6.732	-2.870	0.017	0.234	-3.045
Mustn1	-0.671	9.273	-2.870	0.017	0.234	-3.045
Ttc39c	0.722	7.749	2.870	0.017	0.234	-3.045
Zfp51	-0.230	9.246	-2.869	0.017	0.234	-3.046
I113	0.374	6.539	2.868	0.017	0.234	-3.047
Art3	-0.910	8.004	-2.868	0.017	0.234	-3.048
Htr7	0.482	6.820	2.867	0.017	0.234	-3.049
Gda	2.108	11.619	2.867	0.017	0.234	-3.049
Dnajc13	0.365	11.324	2.866	0.017	0.234	-3.050
Atxn1	0.321	9.812	2.866	0.017	0.234	-3.050
Ccdc154	-0.564	7.288	-2.866	0.017	0.234	-3.051
Pla2g10	-1.593	10.093	-2.865	0.017	0.234	-3.052
Lbh	-0.834	11.698	-2.864	0.017	0.234	-3.054
Rhpn1	-0.323	6.513	-2.863	0.017	0.234	-3.055
Smtn	-0.899	10.103	-2.863	0.017	0.234	-3.055
5730508B09Rik	-0.801	9.862	-2.863	0.017	0.234	-3.056
Gm8292	-0.467	7.151	-2.863	0.017	0.234	-3.056
Hapln3	0.342	6.796	2.862	0.017	0.234	-3.056
Nacad	-0.416	7.179	-2.862	0.017	0.234	-3.057
Bst1	1.087	7.460	2.861	0.017	0.234	-3.058
Cyp17a1	-0.281	6.492	-2.861	0.017	0.234	-3.058
Smox	0.805	9.332	2.861	0.017	0.234	-3.059
Dnalc4	-0.253	8.551	-2.861	0.017	0.234	-3.059
Tbx20	0.254	6.638	2.861	0.017	0.234	-3.059
Slc4a11	0.770	7.217	2.860	0.017	0.234	-3.060
Gm14303	-0.397	10.742	-2.860	0.017	0.234	-3.060
Dck	0.320	9.469	2.860	0.017	0.234	-3.060
Pcsk9	0.497	7.113	2.859	0.017	0.234	-3.061
Aldh6a1	-0.762	10.923	-2.856	0.017	0.235	-3.066
Gna15	0.256	6.955	2.856	0.017	0.235	-3.067
Rasgrf1	0.431	7.004	2.855	0.017	0.235	-3.067
1700020I14Rik	0.213	12.629	2.855	0.017	0.235	-3.068
Tsta3	-0.291	11.556	-2.855	0.017	0.235	-3.068
Gls	0.761	11.680	2.855	0.017	0.235	-3.068

Tst	-1.750	10.582	-2.854	0.017	0.235	-3.069
Pgf	0.495	7.263	2.852	0.017	0.235	-3.072
Mapk8ip1	-0.345	7.724	-2.852	0.017	0.235	-3.072
Bahd1	-0.305	9.335	-2.852	0.017	0.235	-3.073
Cbr1	-1.047	12.166	-2.851	0.017	0.235	-3.075
Slurp1	-1.359	8.079	-2.851	0.017	0.235	-3.075
AC214054.1	-0.331	6.574	-2.850	0.017	0.235	-3.076
Cebpb	0.342	8.838	2.849	0.017	0.235	-3.077
Ppp1r35	-0.253	8.226	-2.849	0.017	0.235	-3.078
Aldh3b2	-1.008	7.910	-2.848	0.017	0.235	-3.079
Ccdc18	0.329	7.834	2.848	0.017	0.235	-3.079
Zfyve26	0.289	8.784	2.848	0.017	0.235	-3.079
Coro2b	-0.694	8.287	-2.847	0.017	0.235	-3.081
Krt79	-1.225	8.633	-2.847	0.017	0.235	-3.081
Snx7	0.742	11.333	2.847	0.017	0.235	-3.081
Lgals3	1.312	13.052	2.846	0.017	0.235	-3.083
Adamts4	0.817	8.193	2.845	0.017	0.235	-3.083
Meis1	-0.497	9.650	-2.845	0.017	0.235	-3.083
Mier3	-0.418	10.557	-2.845	0.017	0.235	-3.084
Mettl7a1	-1.237	11.287	-2.844	0.017	0.235	-3.085
Hmgxb4	0.334	9.696	2.844	0.017	0.235	-3.086
Ppbp	0.536	6.740	2.844	0.017	0.235	-3.086
AC153928.1	1.142	7.150	2.844	0.017	0.235	-3.086
Srsf5	0.320	13.978	2.843	0.017	0.235	-3.087
Sntb1	-0.627	8.190	-2.843	0.018	0.235	-3.088
Gm6531	-0.217	6.460	-2.842	0.018	0.235	-3.089
Evi2a	0.453	7.560	2.842	0.018	0.235	-3.089
Ssr2	-0.272	12.086	-2.842	0.018	0.235	-3.090
Rpl38	-0.320	11.678	-2.842	0.018	0.235	-3.090
Rps21	-0.324	11.780	-2.841	0.018	0.235	-3.090
Apoc1	-0.325	6.638	-2.841	0.018	0.235	-3.090
Ift57	-0.415	8.147	-2.841	0.018	0.235	-3.091
6330503K22Rik	0.232	8.805	2.841	0.018	0.235	-3.091
Tsc22d2	-0.322	9.988	-2.840	0.018	0.235	-3.091
Pepd	0.606	10.961	2.840	0.018	0.235	-3.092
Rasa2	0.224	10.986	2.840	0.018	0.235	-3.092
Voppl	-0.983	11.510	-2.840	0.018	0.235	-3.092
Kit1	-0.388	11.659	-2.840	0.018	0.235	-3.093
AA413626	0.296	6.641	2.837	0.018	0.236	-3.096
BC051070	-0.220	6.461	-2.837	0.018	0.236	-3.097
H2-DMb2	0.487	7.117	2.837	0.018	0.236	-3.097
Jun	0.510	10.775	2.837	0.018	0.236	-3.097
Sox8	-0.289	6.496	-2.837	0.018	0.236	-3.097
Ccl8	0.356	7.426	2.836	0.018	0.236	-3.098
Stat3	0.225	11.946	2.836	0.018	0.236	-3.099
Ciapin1	0.415	9.886	2.835	0.018	0.236	-3.100
Mpv1712	-0.378	9.104	-2.835	0.018	0.236	-3.100
Gm15676	0.318	6.746	2.834	0.018	0.236	-3.101
Fhl1	-1.463	12.938	-2.834	0.018	0.236	-3.101
Hsbp1	-0.253	11.439	-2.834	0.018	0.236	-3.102

Dip2b	-0.227	10.510	-2.833	0.018	0.236	-3.103
Pex7	-0.248	9.793	-2.833	0.018	0.236	-3.104
Aifm3	-0.357	7.223	-2.832	0.018	0.236	-3.104
Rpl26	-0.335	12.291	-2.831	0.018	0.236	-3.106
A2m	2.126	8.067	2.831	0.018	0.236	-3.106
Inpp11	-0.393	11.086	-2.831	0.018	0.236	-3.106
Mrgprb1	-0.326	6.657	-2.831	0.018	0.236	-3.106
Tmem202	-0.371	7.144	-2.831	0.018	0.236	-3.107
Pygb	-0.805	12.152	-2.830	0.018	0.236	-3.107
Lrrk2	0.667	8.645	2.830	0.018	0.236	-3.108
Fancc	0.369	8.381	2.828	0.018	0.237	-3.111
AC159308.1	1.126	8.203	2.828	0.018	0.237	-3.112
Cd3d	0.400	7.080	2.827	0.018	0.237	-3.113
Col6a5	0.643	9.820	2.826	0.018	0.237	-3.115
Rps29	-0.439	11.452	-2.825	0.018	0.237	-3.116
Gm12928	0.312	6.656	2.823	0.018	0.238	-3.119
Gm9938	0.299	8.356	2.823	0.018	0.238	-3.119
Mrpl14	-0.550	9.287	-2.823	0.018	0.238	-3.120
Tnfrsf21	-1.079	12.438	-2.822	0.018	0.238	-3.120
Etnk1	-0.285	13.315	-2.822	0.018	0.238	-3.121
Tmc7	-0.451	10.234	-2.822	0.018	0.238	-3.121
Lmbr11	0.380	8.687	2.820	0.018	0.238	-3.123
Fkbp1	-0.212	8.371	-2.820	0.018	0.238	-3.124
Meox1	0.792	8.149	2.819	0.018	0.238	-3.125
Rpl37a	-0.353	11.900	-2.819	0.018	0.238	-3.126
Sh3yl1	-0.403	10.822	-2.819	0.018	0.238	-3.126
I14i1	0.426	7.316	2.818	0.018	0.238	-3.127
Ppapdc3	-0.285	6.990	-2.818	0.018	0.238	-3.127
Pecam1	0.711	10.356	2.817	0.018	0.238	-3.128
Htr2a	0.424	6.772	2.817	0.018	0.238	-3.128
Fam45a	-0.367	10.216	-2.817	0.018	0.238	-3.129
Gprasp2	-0.488	7.139	-2.817	0.018	0.238	-3.129
Afm	-0.625	7.134	-2.817	0.018	0.238	-3.129
Gm13388	0.225	6.464	2.816	0.018	0.238	-3.130
Bad	-0.246	10.089	-2.815	0.018	0.239	-3.132
Rhobtb2	0.860	9.491	2.813	0.018	0.239	-3.135
Gin1	0.264	8.572	2.812	0.018	0.240	-3.137
Gm16344	0.368	7.376	2.812	0.018	0.240	-3.137
Pdpf	-0.394	9.976	-2.811	0.018	0.240	-3.138
Neur13	1.014	11.372	2.811	0.018	0.240	-3.138
Dok3	0.328	7.205	2.810	0.019	0.240	-3.139
Casp8	0.603	11.415	2.809	0.019	0.240	-3.141
Zdbf2	-0.243	6.473	-2.809	0.019	0.240	-3.142
Akap13	0.267	11.556	2.809	0.019	0.240	-3.142
Bmpr1a	-0.324	12.350	-2.808	0.019	0.240	-3.143
Gabarap	-0.316	12.839	-2.808	0.019	0.240	-3.143
Sftpd	1.341	8.937	2.807	0.019	0.240	-3.144
Rin3	0.293	7.505	2.807	0.019	0.240	-3.145
Pygo2	-0.294	9.995	-2.807	0.019	0.240	-3.145
Lass2	0.247	11.718	2.806	0.019	0.240	-3.146

Tspan12	1.297	11.178	2.806	0.019	0.240	-3.146
Ero11b	-0.758	10.388	-2.806	0.019	0.240	-3.146
Clec11a	0.354	7.507	2.805	0.019	0.240	-3.148
Sepx1	-0.434	10.643	-2.805	0.019	0.240	-3.148
St8sia5	-0.191	6.447	-2.805	0.019	0.240	-3.148
Pcdhb2	0.302	6.806	2.804	0.019	0.240	-3.149
Uqcrb	-0.515	12.534	-2.804	0.019	0.240	-3.149
Bnip3	-0.546	9.625	-2.803	0.019	0.240	-3.151
Acot13	-0.435	9.826	-2.803	0.019	0.240	-3.151
F10	0.521	7.195	2.803	0.019	0.240	-3.151
2810030E01Rik	-0.550	7.907	-2.803	0.019	0.240	-3.151
Clip2	0.225	10.526	2.802	0.019	0.240	-3.152
Lrrc4c	-0.526	7.231	-2.802	0.019	0.240	-3.153
Mmd2	-0.308	6.539	-2.802	0.019	0.240	-3.153
Mtch1	-0.564	12.172	-2.801	0.019	0.240	-3.153
4931406C07Rik	0.957	12.171	2.801	0.019	0.240	-3.154
Tpcn1	-0.489	10.236	-2.801	0.019	0.240	-3.154
Prss8	-0.487	10.753	-2.800	0.019	0.240	-3.155
Iglv1	2.306	8.814	2.800	0.019	0.240	-3.155
Sema4c	0.310	8.401	2.800	0.019	0.240	-3.156
Sass6	0.290	8.481	2.799	0.019	0.240	-3.157
Gm13370	-0.310	6.626	-2.799	0.019	0.240	-3.157
Ak3	-0.482	13.338	-2.798	0.019	0.240	-3.158
Amical	1.199	8.733	2.797	0.019	0.241	-3.161
Irf2bp2	-0.306	11.464	-2.797	0.019	0.241	-3.161
Tmem116	0.412	8.056	2.796	0.019	0.241	-3.162
Ccdc68	-0.331	10.172	-2.795	0.019	0.241	-3.164
5730590G19Rik	0.413	7.832	2.793	0.019	0.241	-3.166
Tpt1	-0.239	15.362	-2.793	0.019	0.241	-3.167
Lin28a	0.355	6.583	2.793	0.019	0.241	-3.167
Gm15283	0.596	6.966	2.793	0.019	0.241	-3.167
Gm11826	0.210	6.517	2.793	0.019	0.241	-3.167
Dna2	0.496	8.317	2.793	0.019	0.241	-3.167
Slc30a1	0.538	9.841	2.793	0.019	0.241	-3.168
AC103359.1	0.295	6.652	2.791	0.019	0.241	-3.169
Myl6	-0.556	13.815	-2.791	0.019	0.241	-3.170
Hsd17b7	0.557	10.300	2.791	0.019	0.241	-3.170
Pdzd9	-0.299	6.922	-2.790	0.019	0.241	-3.171
Gm14292	0.321	8.466	2.790	0.019	0.241	-3.172
N28178	-0.366	7.117	-2.789	0.019	0.241	-3.172
Ear11	-0.559	6.739	-2.789	0.019	0.241	-3.173
Mrps30	-0.239	9.315	-2.788	0.019	0.242	-3.174
Ncl	0.365	14.626	2.788	0.019	0.242	-3.175
Dpp6	-0.545	6.924	-2.787	0.019	0.242	-3.176
Ldhb	-0.930	9.831	-2.787	0.019	0.242	-3.177
Lrrc48	0.367	7.250	2.787	0.019	0.242	-3.177
Prex1	0.633	9.680	2.786	0.019	0.242	-3.177
1810019J16Rik	-0.247	8.029	-2.785	0.019	0.242	-3.179
Mpp2	-0.410	7.549	-2.785	0.019	0.242	-3.179
B4galt1	0.221	12.116	2.785	0.019	0.242	-3.180

Sash1	0.595	10.398	2.785	0.019	0.242	-3.180
Tmem132a	0.313	7.639	2.784	0.019	0.242	-3.182
Ces1c	0.601	6.852	2.784	0.019	0.242	-3.182
Rfc1	0.225	10.740	2.783	0.019	0.242	-3.182
Klrk1	0.393	7.025	2.783	0.019	0.242	-3.183
Gm20539	-0.366	6.890	-2.783	0.019	0.242	-3.183
Rab27a	-1.270	12.945	-2.783	0.019	0.242	-3.183
Rasgrp1	-0.676	9.354	-2.782	0.019	0.242	-3.185
Gm15232	0.292	6.590	2.781	0.019	0.242	-3.185
Abhd1	0.644	7.164	2.780	0.019	0.243	-3.187
Raplgap2	-0.435	10.776	-2.778	0.020	0.243	-3.190
Cyp39a1	-0.248	9.521	-2.778	0.020	0.243	-3.191
Gm15657	0.538	6.708	2.777	0.020	0.243	-3.192
Zfp187	-0.323	10.503	-2.777	0.020	0.244	-3.193
Relt	0.532	6.869	2.776	0.020	0.244	-3.194
D17H6S53E	-0.388	10.071	-2.776	0.020	0.244	-3.194
Tgfbr3	-0.606	9.422	-2.775	0.020	0.244	-3.195
Bik	-0.276	7.267	-2.775	0.020	0.244	-3.196
Kcna5	-0.438	6.819	-2.774	0.020	0.244	-3.197
Fbxo10	-0.304	7.786	-2.774	0.020	0.244	-3.197
Tt117	-1.034	10.592	-2.774	0.020	0.244	-3.198
Gm12141	0.442	10.201	2.773	0.020	0.244	-3.199
At12	0.552	11.758	2.772	0.020	0.244	-3.201
Galnt2	-0.263	7.401	-2.771	0.020	0.244	-3.201
Cybrd1	2.062	13.648	2.771	0.020	0.244	-3.202
Heph	2.891	10.464	2.771	0.020	0.244	-3.202
Uhrf1	0.565	9.474	2.770	0.020	0.244	-3.203
Tigit	0.399	7.387	2.770	0.020	0.244	-3.203
Elov14	-0.478	7.132	-2.770	0.020	0.244	-3.204
Mgst3	-1.098	12.637	-2.770	0.020	0.244	-3.204
Tpm2	-1.665	12.173	-2.769	0.020	0.244	-3.206
Acap1	0.593	7.506	2.769	0.020	0.244	-3.206
Ccn12	-0.232	11.958	-2.768	0.020	0.244	-3.206
Cxcl2	1.321	7.399	2.768	0.020	0.244	-3.207
Gm18367	-0.231	6.508	-2.767	0.020	0.244	-3.208
Fam174b	-0.945	11.241	-2.767	0.020	0.245	-3.208
Gm10639	-1.820	11.218	-2.766	0.020	0.245	-3.210
Sorbs3	-0.729	9.632	-2.766	0.020	0.245	-3.210
Gm14391	0.281	8.640	2.765	0.020	0.245	-3.211
Zc3h12b	0.242	7.308	2.764	0.020	0.245	-3.213
Tle2	-0.425	8.145	-2.764	0.020	0.245	-3.213
Mogat2	1.713	9.298	2.763	0.020	0.245	-3.214
Vcam1	0.682	9.195	2.763	0.020	0.245	-3.214
Sp140	0.437	7.719	2.763	0.020	0.245	-3.214
Aldh3a1	-2.796	10.064	-2.763	0.020	0.245	-3.215
Dok1	-0.328	8.292	-2.763	0.020	0.245	-3.215
Gm11545	1.393	8.837	2.762	0.020	0.245	-3.215
2310030G06Rik	-0.290	9.616	-2.762	0.020	0.245	-3.216
Prr24	-0.444	9.747	-2.762	0.020	0.245	-3.216
Sdr42e1	-0.558	9.469	-2.761	0.020	0.245	-3.218

Itga2	0.935	9.870	2.760	0.020	0.245	-3.219
Ssbp3	-0.450	10.403	-2.760	0.020	0.245	-3.219
Cd244	0.748	7.472	2.760	0.020	0.245	-3.220
Tmbim4	-0.309	10.743	-2.760	0.020	0.245	-3.220
Agtr1b	-0.446	7.078	-2.759	0.020	0.245	-3.221
Klh18	-0.455	7.873	-2.759	0.020	0.245	-3.221
Gfap	-0.640	7.019	-2.758	0.020	0.245	-3.222
Adamdec1	1.090	11.095	2.758	0.020	0.245	-3.223
Xlr3a	-0.904	8.138	-2.758	0.020	0.245	-3.223
BC039771	0.282	6.961	2.757	0.020	0.245	-3.225
Smagp	-0.429	10.803	-2.757	0.020	0.245	-3.225
Nuak2	1.060	8.428	2.756	0.020	0.245	-3.225
RNase	-0.596	6.716	-2.756	0.020	0.245	-3.225
Daam1	-0.353	11.311	-2.756	0.020	0.245	-3.225
Dnajb2	-0.387	9.347	-2.756	0.020	0.245	-3.226
Sctr	-1.353	8.192	-2.756	0.020	0.245	-3.226
Chrnbl	0.279	7.949	2.755	0.020	0.245	-3.227
Arid5a	0.716	8.088	2.755	0.020	0.245	-3.227
Zfp945	0.290	8.914	2.755	0.020	0.245	-3.228
Ccdc149	-0.500	9.501	-2.755	0.020	0.245	-3.228
Cept1	-0.341	11.711	-2.754	0.020	0.245	-3.229
Irg1	0.681	6.847	2.754	0.020	0.245	-3.229
Gm6768	1.601	10.673	2.753	0.020	0.245	-3.230
4632434I11Rik	0.280	8.091	2.752	0.020	0.245	-3.231
Srcin1	-0.409	6.760	-2.752	0.020	0.245	-3.232
Rab11a	-0.434	12.078	-2.751	0.020	0.246	-3.234
Atg13	-0.321	10.326	-2.751	0.020	0.246	-3.234
Gm6088	0.205	6.500	2.751	0.020	0.246	-3.234
Rassf3	-0.424	11.814	-2.750	0.021	0.246	-3.235
Rltpr	0.376	6.918	2.750	0.021	0.246	-3.236
Ly6g6e	-1.094	9.715	-2.750	0.021	0.246	-3.236
Cdkn1c	-0.933	8.694	-2.749	0.021	0.246	-3.236
Atp5e	-0.396	11.026	-2.749	0.021	0.246	-3.236
Ywhab	-0.460	12.897	-2.749	0.021	0.246	-3.238
Grb7	0.307	10.502	2.749	0.021	0.246	-3.238
Car2	-0.923	15.016	-2.748	0.021	0.246	-3.238
Zbtb5	0.292	8.478	2.748	0.021	0.246	-3.238
Abhd12	-0.629	10.509	-2.748	0.021	0.246	-3.239
Nomol	0.393	10.997	2.747	0.021	0.246	-3.240
Crip1	1.027	11.693	2.747	0.021	0.246	-3.240
Ndst1	0.297	11.022	2.746	0.021	0.246	-3.241
Tprgl	-0.521	10.945	-2.746	0.021	0.246	-3.242
C3ar1	0.396	8.072	2.742	0.021	0.247	-3.248
Cyp2t4	0.292	6.651	2.742	0.021	0.247	-3.248
Ugp2	-0.464	12.521	-2.741	0.021	0.247	-3.249
Ndufv3	-0.394	10.647	-2.741	0.021	0.247	-3.249
Ddx6	-0.340	13.611	-2.741	0.021	0.247	-3.250
Mfsd5	-0.387	9.302	-2.740	0.021	0.247	-3.251
Echdc3	-0.302	7.929	-2.738	0.021	0.248	-3.254
I113ra2	0.847	7.325	2.738	0.021	0.248	-3.254

Hkdc1	2.609	9.748	2.738	0.021	0.248	-3.255
Fhod3	-0.306	7.094	-2.737	0.021	0.248	-3.256
Sstr2	-0.665	7.469	-2.737	0.021	0.248	-3.256
Akrlb3	-0.764	10.228	-2.737	0.021	0.248	-3.257
Vstm2b	-2.332	10.102	-2.737	0.021	0.248	-3.257
Scml2	-0.395	7.403	-2.736	0.021	0.248	-3.257
Brpf1	0.204	9.922	2.735	0.021	0.248	-3.259
CAA01083517.2	-0.263	8.917	-2.734	0.021	0.249	-3.261
Adcy2	-0.823	9.235	-2.734	0.021	0.249	-3.261
Ankrd35	-1.269	9.476	-2.733	0.021	0.249	-3.262
AI427809	0.843	7.115	2.733	0.021	0.249	-3.263
Tubd1	-0.345	8.612	-2.732	0.021	0.249	-3.264
Card14	0.517	7.584	2.732	0.021	0.249	-3.265
Krtdap	-0.238	6.470	-2.731	0.021	0.249	-3.266
Rad52	-0.210	8.302	-2.731	0.021	0.249	-3.266
Sell1	-0.554	12.839	-2.730	0.021	0.249	-3.266
Ptrh1	0.473	8.404	2.730	0.021	0.249	-3.267
Cfh	1.082	10.984	2.730	0.021	0.249	-3.267
Hpgd	-0.822	12.431	-2.729	0.021	0.249	-3.269
Clic3	-0.748	7.926	-2.729	0.021	0.249	-3.269
Nucb2	-0.807	11.856	-2.729	0.021	0.249	-3.269
1810074P20Rik	-0.320	11.029	-2.729	0.021	0.249	-3.269
Ythdf2	-0.297	11.007	-2.728	0.021	0.249	-3.270
Ppplca	-0.369	12.132	-2.728	0.021	0.249	-3.270
2310002J15Rik	-0.973	7.581	-2.728	0.021	0.249	-3.270
Ncf4	0.507	7.431	2.727	0.021	0.249	-3.271
Acyp2	-0.380	7.680	-2.727	0.021	0.249	-3.272
Mrgpre	0.286	7.626	2.726	0.021	0.249	-3.273
Ccdc91	0.404	10.357	2.726	0.021	0.249	-3.274
Saa3	2.020	8.357	2.726	0.021	0.249	-3.274
Ddx50	-0.327	11.700	-2.726	0.021	0.249	-3.274
Pbx1	-0.308	10.739	-2.725	0.021	0.249	-3.275
Lrrc10b	-0.405	7.507	-2.725	0.021	0.249	-3.276
Bicc1	0.591	8.884	2.724	0.021	0.249	-3.276
Chchd6	-0.227	7.880	-2.723	0.022	0.250	-3.279
Nt5cla	0.609	6.838	2.722	0.022	0.250	-3.279
Npepl1	-0.259	9.659	-2.722	0.022	0.250	-3.280
I11f9	0.788	7.095	2.722	0.022	0.250	-3.280
1810012K08Rik	-0.286	6.889	-2.721	0.022	0.250	-3.282
Rbm20	-0.746	8.452	-2.720	0.022	0.250	-3.282
Stxbp51	0.377	7.320	2.720	0.022	0.250	-3.283
AI838599	-0.426	7.251	-2.720	0.022	0.250	-3.284
Ier51	0.373	7.087	2.720	0.022	0.250	-3.284
9430015G10Rik	0.341	8.397	2.719	0.022	0.250	-3.284
AI606181	-0.357	7.946	-2.718	0.022	0.250	-3.286
Pdia3	-0.565	15.678	-2.717	0.022	0.250	-3.287
BB557941	-0.313	6.650	-2.717	0.022	0.250	-3.287
Myo6	0.281	12.883	2.717	0.022	0.250	-3.287
Avpr1a	-0.668	7.292	-2.717	0.022	0.250	-3.287
Dock4	0.724	9.510	2.717	0.022	0.250	-3.288

Slbp	0.268	10.665	2.716	0.022	0.250	-3.289
Gm10699	-0.173	6.807	-2.716	0.022	0.250	-3.289
Commd3	-0.240	10.773	-2.716	0.022	0.250	-3.289
Slc11a2	3.283	11.725	2.716	0.022	0.250	-3.289
Il21r	0.478	6.988	2.716	0.022	0.250	-3.290
Itga10	-0.407	7.204	-2.716	0.022	0.250	-3.290
Rusc2	-0.528	8.354	-2.715	0.022	0.250	-3.291
Tbc1d10c	0.376	7.136	2.715	0.022	0.250	-3.291
Fbx15	0.372	11.785	2.715	0.022	0.250	-3.291
Blzf1	-0.236	10.309	-2.715	0.022	0.250	-3.291
Dstn	-0.369	14.914	-2.713	0.022	0.251	-3.294
Nudt18	0.383	9.211	2.713	0.022	0.251	-3.294
Ccdc136	-0.525	7.293	-2.712	0.022	0.251	-3.296
Trpc1	0.299	7.381	2.711	0.022	0.251	-3.297
Cob111	-0.484	10.073	-2.711	0.022	0.251	-3.297
Eif2ak2	0.187	10.976	2.710	0.022	0.251	-3.300
Emb	0.526	8.265	2.709	0.022	0.251	-3.300
Aass	-1.007	8.744	-2.709	0.022	0.252	-3.301
Zfp825	0.282	8.473	2.708	0.022	0.252	-3.302
Gm11457	-0.314	6.749	-2.708	0.022	0.252	-3.302
Abca2	-0.341	9.242	-2.706	0.022	0.252	-3.305
Ubiad1	0.309	8.847	2.706	0.022	0.252	-3.305
Mtf2	0.384	9.773	2.706	0.022	0.252	-3.306
Anp32a	-0.373	12.808	-2.705	0.022	0.252	-3.307
Rassf1	0.329	9.883	2.705	0.022	0.252	-3.307
Pdss1	0.688	9.140	2.704	0.022	0.253	-3.309
Atp8a2	-0.312	9.756	-2.703	0.022	0.253	-3.309
Ighv4-1	1.292	7.461	2.703	0.022	0.253	-3.309
Zbp1	0.740	7.418	2.703	0.022	0.253	-3.310
Klf5	0.627	10.844	2.703	0.022	0.253	-3.311
Ccdc117	-0.321	10.277	-2.700	0.022	0.254	-3.315
Aldh3a2	-0.604	12.794	-2.697	0.022	0.255	-3.319
Pstpip1	-1.258	8.841	-2.697	0.022	0.255	-3.319
Gal3st1	-1.224	10.047	-2.696	0.022	0.255	-3.321
Dhfr	0.651	9.639	2.696	0.022	0.255	-3.321
Bmper	0.683	7.651	2.695	0.023	0.255	-3.322
Tmem200a	-0.558	7.168	-2.695	0.023	0.255	-3.323
Lrrc4	-0.846	7.530	-2.695	0.023	0.255	-3.323
Gm15950	-0.249	7.271	-2.693	0.023	0.256	-3.326
Pigr	2.655	15.359	2.693	0.023	0.256	-3.326
Sox21	-1.801	10.370	-2.693	0.023	0.256	-3.326
Gm18284	-0.381	7.347	-2.692	0.023	0.256	-3.328
Afp	0.540	7.697	2.691	0.023	0.256	-3.329
Adcy8	0.773	7.166	2.691	0.023	0.256	-3.330
Ns11	0.430	7.935	2.690	0.023	0.256	-3.330
Zfp775	0.342	7.692	2.690	0.023	0.256	-3.330
Socs6	0.374	10.514	2.690	0.023	0.256	-3.331
Ppp1r16b	0.661	7.840	2.690	0.023	0.256	-3.331
Gm15374	-0.247	6.475	-2.690	0.023	0.256	-3.331
Gstal	-1.349	14.687	-2.689	0.023	0.256	-3.332

6330512M04Rik	-0.577	6.778	-2.688	0.023	0.256	-3.333
Sphkap	-0.617	7.060	-2.688	0.023	0.256	-3.334
Fut8	-0.392	12.109	-2.687	0.023	0.256	-3.335
Mavs	-0.275	9.807	-2.687	0.023	0.256	-3.335
Cd3001f	0.498	8.294	2.687	0.023	0.256	-3.336
Rnpepl1	-0.329	10.332	-2.687	0.023	0.256	-3.336
Papss1	-0.491	11.695	-2.686	0.023	0.256	-3.336
Cass4	0.332	6.806	2.686	0.023	0.256	-3.338
Unc79	-0.281	6.868	-2.685	0.023	0.256	-3.338
Lims2	-0.686	8.060	-2.685	0.023	0.256	-3.339
Trim26	0.286	10.698	2.685	0.023	0.256	-3.339
Pnck	-0.415	7.650	-2.684	0.023	0.256	-3.340
Plala	0.678	7.612	2.684	0.023	0.256	-3.340
Tmem110	-0.349	8.889	-2.684	0.023	0.256	-3.340
Lrrc17	-0.531	7.506	-2.683	0.023	0.257	-3.342
Bag1	-0.488	12.891	-2.682	0.023	0.257	-3.343
Iws1	0.216	10.862	2.682	0.023	0.257	-3.343
Pop5	-0.206	9.002	-2.682	0.023	0.257	-3.344
Tmem63b	-0.596	10.847	-2.681	0.023	0.257	-3.344
Fstl5	-0.528	6.699	-2.681	0.023	0.257	-3.345
Tm4sf19	0.407	6.601	2.680	0.023	0.257	-3.346
Spats2l	-0.521	11.239	-2.680	0.023	0.257	-3.346
Rpl38-ps2	-0.355	8.978	-2.680	0.023	0.257	-3.347
Spag5	0.585	9.178	2.679	0.023	0.257	-3.348
Bcdin3d	-0.286	7.969	-2.679	0.023	0.257	-3.349
Gm11400	-0.251	6.738	-2.679	0.023	0.257	-3.349
Cyp2e1	-0.485	6.835	-2.678	0.023	0.257	-3.350
Polr3d	-0.259	9.831	-2.677	0.023	0.257	-3.352
AC158672.1	0.802	7.132	2.677	0.023	0.257	-3.352
Anapc1	0.206	11.250	2.676	0.023	0.257	-3.352
Ppp1r12b	-0.962	10.410	-2.676	0.023	0.257	-3.353
Coll5a1	0.677	10.023	2.676	0.023	0.257	-3.353
Crispld1	-0.281	7.051	-2.675	0.023	0.257	-3.355
Gm16247	-0.530	7.467	-2.674	0.023	0.257	-3.355
Gpr19	0.354	7.628	2.674	0.023	0.257	-3.356
Tigd4	0.278	7.145	2.674	0.023	0.257	-3.356
Rpusd1	-0.264	7.618	-2.674	0.023	0.257	-3.356
B230312C02Rik	-0.407	6.740	-2.674	0.023	0.257	-3.357
Fam198b	0.567	8.710	2.674	0.023	0.257	-3.357
Mafb	0.803	8.695	2.673	0.023	0.257	-3.357
Snx22	-0.541	7.509	-2.673	0.023	0.257	-3.357
Gm6335	-0.164	6.807	-2.673	0.023	0.257	-3.357
Rin2	0.379	10.970	2.673	0.023	0.257	-3.358
Ubl5	-0.349	11.129	-2.673	0.023	0.257	-3.358
4930506C21Rik	0.403	7.010	2.673	0.023	0.257	-3.358
Slc20a2	0.504	9.412	2.673	0.023	0.257	-3.358
Peg10	-0.453	7.055	-2.672	0.023	0.257	-3.359
Col7a1	0.491	7.608	2.672	0.023	0.257	-3.359
Gdf15	0.284	6.689	2.671	0.023	0.257	-3.360
Gm15887	-0.203	6.453	-2.671	0.023	0.257	-3.361

Tm9sf1	0.266	11.019	2.671	0.023	0.257	-3.361
Hand2	-1.152	8.328	-2.671	0.024	0.257	-3.361
Clec4a2	0.478	7.373	2.670	0.024	0.258	-3.363
Acat2	0.389	10.199	2.668	0.024	0.258	-3.365
Pcgf3	-0.849	11.948	-2.668	0.024	0.258	-3.365
Dnmt31	0.423	6.817	2.668	0.024	0.258	-3.366
AC103368.1	-0.197	6.450	-2.668	0.024	0.258	-3.366
Myh13	-0.454	6.739	-2.667	0.024	0.258	-3.367
Dnajb11	-0.552	12.861	-2.667	0.024	0.258	-3.368
Atrn	0.460	11.297	2.666	0.024	0.258	-3.369
Col6a4	0.675	9.923	2.665	0.024	0.259	-3.370
Shf	1.689	9.858	2.665	0.024	0.259	-3.370
Nkx3-2	-0.351	6.765	-2.664	0.024	0.259	-3.372
Hiplr	-0.407	11.449	-2.664	0.024	0.259	-3.372
Gnaq	-0.511	11.728	-2.662	0.024	0.260	-3.375
Kctd18	0.325	8.743	2.661	0.024	0.260	-3.376
Ddx5	0.226	14.686	2.661	0.024	0.260	-3.377
Gm15731	0.218	6.757	2.660	0.024	0.260	-3.378
Kif19a	0.289	7.027	2.660	0.024	0.260	-3.378
Atg5	-0.188	10.827	-2.660	0.024	0.260	-3.379
Cstad	0.335	6.624	2.659	0.024	0.260	-3.379
Rpl28	-0.269	12.488	-2.659	0.024	0.260	-3.379
Manf	-0.837	13.478	-2.659	0.024	0.260	-3.380
Smad1	-0.259	10.239	-2.658	0.024	0.260	-3.381
C6	0.939	7.327	2.658	0.024	0.260	-3.381
Syp	-0.638	7.796	-2.658	0.024	0.260	-3.381
Tsen34	-0.298	10.294	-2.658	0.024	0.260	-3.382
Mir1199	-0.419	6.786	-2.658	0.024	0.260	-3.382
Slc22a23	-0.566	11.351	-2.657	0.024	0.260	-3.383
9630013K17Rik	0.337	6.792	2.657	0.024	0.260	-3.383
Kcnbl	-0.400	7.065	-2.657	0.024	0.260	-3.383
Npnt	0.574	10.524	2.656	0.024	0.260	-3.384
Ryr3	-0.758	7.426	-2.655	0.024	0.260	-3.386
Phyhip	0.610	7.195	2.655	0.024	0.260	-3.386
Gabra1	-0.679	7.290	-2.653	0.024	0.260	-3.389
Rnf180	0.310	6.994	2.653	0.024	0.260	-3.389
Mfsd7b	0.663	8.951	2.653	0.024	0.260	-3.389
Fbxo33	-0.262	9.777	-2.653	0.024	0.261	-3.390
Naf1	0.337	8.127	2.652	0.024	0.261	-3.390
Aplp2	-0.358	13.629	-2.652	0.024	0.261	-3.391
Adcy6	-0.265	12.432	-2.652	0.024	0.261	-3.391
Tmed6	-0.742	8.686	-2.652	0.024	0.261	-3.392
Gm9790	-0.409	7.826	-2.651	0.024	0.261	-3.393
Cib1	-0.235	11.149	-2.651	0.024	0.261	-3.393
Shd	-0.307	6.665	-2.650	0.024	0.261	-3.394
Ocstamp	0.380	7.007	2.650	0.024	0.261	-3.394
Med26	0.282	8.147	2.649	0.024	0.261	-3.395
Gm10157	-0.271	7.994	-2.649	0.024	0.261	-3.396
Gm16216	-0.214	6.499	-2.648	0.024	0.261	-3.397
Rin1	0.617	7.526	2.648	0.024	0.261	-3.397

Gm15910	-0.531	7.214	-2.648	0.024	0.261	-3.398
Prnp	-0.530	9.930	-2.647	0.024	0.261	-3.399
Fcgr4	0.453	7.399	2.647	0.024	0.261	-3.399
3110056003Rik	-0.292	8.803	-2.647	0.024	0.261	-3.399
Nedd9	0.514	11.482	2.647	0.024	0.261	-3.399
Pdcd11g2	0.428	6.648	2.646	0.025	0.261	-3.400
Synpr	-0.363	6.683	-2.646	0.025	0.261	-3.400
Cald1	-0.839	12.629	-2.646	0.025	0.261	-3.400
Foxp3	0.490	6.796	2.646	0.025	0.261	-3.400
Rcsd1	0.316	8.290	2.646	0.025	0.261	-3.401
1110017F19Rik	-1.099	12.109	-2.645	0.025	0.261	-3.402
Mcm4	0.488	10.088	2.645	0.025	0.261	-3.402
Ptdss1	-0.384	11.939	-2.644	0.025	0.261	-3.403
D15Ert621e	-0.418	12.926	-2.644	0.025	0.261	-3.403
Tspyl1	-0.245	10.554	-2.643	0.025	0.261	-3.404
Slc13a2	0.681	6.904	2.643	0.025	0.261	-3.405
Cst7	0.347	6.865	2.643	0.025	0.261	-3.405
Fam160b2	-0.366	9.971	-2.643	0.025	0.261	-3.406
Hic1	0.385	7.823	2.642	0.025	0.261	-3.406
E430025E21Rik	0.245	10.591	2.642	0.025	0.261	-3.406
2310050B05Rik	-0.605	6.949	-2.641	0.025	0.261	-3.408
Gm9833	0.454	7.631	2.641	0.025	0.261	-3.408
Kcne4	0.507	7.653	2.641	0.025	0.262	-3.409
Anapc13	-0.329	10.504	-2.640	0.025	0.262	-3.409
Scn1a	-0.911	10.505	-2.640	0.025	0.262	-3.410
Gm13772	0.300	6.611	2.640	0.025	0.262	-3.410
Fxr1	0.365	11.028	2.639	0.025	0.262	-3.411
Amy1	-0.627	7.507	-2.639	0.025	0.262	-3.411
Gm12506	-0.639	7.414	-2.639	0.025	0.262	-3.412
St6gal1	0.588	8.618	2.639	0.025	0.262	-3.412
Tubgcp6	0.279	9.078	2.638	0.025	0.262	-3.413
Ccl2	0.860	7.333	2.638	0.025	0.262	-3.414
Bcap29	0.256	9.277	2.637	0.025	0.262	-3.415
P2ry13	0.444	7.495	2.637	0.025	0.262	-3.415
Ppargc1a	0.770	9.593	2.636	0.025	0.262	-3.416
Nampt	0.367	11.355	2.636	0.025	0.262	-3.416
Faah	0.886	9.548	2.636	0.025	0.262	-3.416
Vwf	0.486	9.542	2.636	0.025	0.262	-3.416
Sipa111	0.765	10.073	2.636	0.025	0.262	-3.416
Nrn1	-0.946	7.421	-2.636	0.025	0.262	-3.416
Gm12966	0.427	9.647	2.635	0.025	0.262	-3.418
Itfgl	-0.234	11.917	-2.635	0.025	0.262	-3.418
Rdh13	-0.507	10.591	-2.635	0.025	0.262	-3.418
Gm12284	-0.300	6.626	-2.635	0.025	0.262	-3.419
Gm5778	-0.294	6.622	-2.634	0.025	0.262	-3.419
Morc3	0.408	10.735	2.633	0.025	0.262	-3.421
Gm13517	-0.213	6.563	-2.631	0.025	0.263	-3.423
Ap1m1	0.403	9.201	2.631	0.025	0.263	-3.424
Calhm2	0.260	7.382	2.629	0.025	0.264	-3.427
Yipf1	-0.383	10.854	-2.628	0.025	0.264	-3.429

Dusp10	0.446	8.106	2.628	0.025	0.264	-3.429
9630033F20Rik	-0.809	9.955	-2.627	0.025	0.264	-3.430
Zwilch	0.361	8.595	2.627	0.025	0.264	-3.430
Alb	-0.933	7.784	-2.627	0.025	0.264	-3.430
Serpinc1	-0.245	6.869	-2.627	0.025	0.264	-3.430
Dnajb6	-0.319	11.313	-2.626	0.025	0.264	-3.431
Fam5b	-0.969	7.042	-2.625	0.025	0.264	-3.433
Hmgcr	0.451	12.245	2.625	0.025	0.264	-3.434
Entpd1	0.470	9.526	2.624	0.025	0.265	-3.436
Ccb11	-0.277	8.869	-2.623	0.026	0.265	-3.437
Pvr12	0.262	11.395	2.623	0.026	0.265	-3.437
Lphn1	-0.428	8.352	-2.621	0.026	0.265	-3.440
5031439G07Rik	0.335	9.911	2.621	0.026	0.265	-3.440
Cbr2	-0.374	7.404	-2.621	0.026	0.265	-3.440
Rgs6	-0.323	7.028	-2.620	0.026	0.265	-3.442
P4hb	-0.489	15.706	-2.620	0.026	0.265	-3.442
Ecml	0.396	9.404	2.620	0.026	0.265	-3.442
Scn7a	-0.606	8.846	-2.619	0.026	0.265	-3.443
Trpa1	0.784	8.382	2.619	0.026	0.265	-3.443
Sirt7	-0.285	10.362	-2.619	0.026	0.265	-3.444
I11r12	0.699	7.654	2.619	0.026	0.265	-3.444
Zfp791	-0.470	8.797	-2.618	0.026	0.265	-3.444
Chrn4	-0.321	6.970	-2.618	0.026	0.265	-3.444
1810026J23Rik	-0.218	10.447	-2.618	0.026	0.265	-3.445
Mgam	3.760	11.389	2.618	0.026	0.265	-3.445
Irf1	1.115	10.290	2.618	0.026	0.265	-3.445
Aifm1	0.283	11.552	2.617	0.026	0.266	-3.447
Krt1	-0.379	6.764	-2.616	0.026	0.266	-3.447
Exo1	0.344	7.999	2.616	0.026	0.266	-3.448
Rapgef11	-0.495	9.593	-2.616	0.026	0.266	-3.448
E2f6	0.202	9.286	2.615	0.026	0.266	-3.449
Cisd1	-0.282	10.263	-2.615	0.026	0.266	-3.450
Tmem50a	-0.312	11.380	-2.615	0.026	0.266	-3.450
Zfp706	-0.316	12.170	-2.615	0.026	0.266	-3.450
Tor3a	-0.683	10.592	-2.614	0.026	0.266	-3.450
Gm14850	0.789	6.746	2.614	0.026	0.266	-3.452
4933439K11Rik	-0.338	7.662	-2.613	0.026	0.266	-3.452
Os9	-0.290	13.155	-2.613	0.026	0.266	-3.453
Lama4	0.437	9.717	2.611	0.026	0.266	-3.455
Map11c3a	-0.569	9.466	-2.611	0.026	0.266	-3.455
3110040N11Rik	-0.299	9.289	-2.611	0.026	0.266	-3.456
Jak3	0.317	8.279	2.611	0.026	0.266	-3.456
Nup98	0.178	9.903	2.610	0.026	0.266	-3.457
Cnot7	-0.208	10.797	-2.610	0.026	0.267	-3.457
Apol7c	0.981	8.560	2.609	0.026	0.267	-3.460
Bcas1	-1.725	12.658	-2.608	0.026	0.267	-3.460
Ccdc164	-0.488	7.459	-2.606	0.026	0.268	-3.463
Tmed8	-0.434	9.261	-2.606	0.026	0.268	-3.464
Vash1	0.294	7.190	2.606	0.026	0.268	-3.464
Aldoc	0.938	9.232	2.606	0.026	0.268	-3.464

2310042E22Rik	-1.693	11.239	-2.605	0.026	0.268	-3.465
Plekha1	0.327	11.575	2.605	0.026	0.268	-3.465
Scg3	-0.608	7.565	-2.605	0.026	0.268	-3.466
Pdzd4	-0.363	7.633	-2.604	0.026	0.268	-3.467
Cadm2	-0.225	6.819	-2.603	0.026	0.268	-3.468
Gbp7	0.429	9.292	2.603	0.026	0.268	-3.469
Exoc6b	0.287	10.392	2.602	0.026	0.269	-3.470
Fcgr2b	0.488	8.236	2.602	0.026	0.269	-3.471
Ino80c	0.226	10.282	2.602	0.026	0.269	-3.471
Osmr	0.926	9.495	2.601	0.026	0.269	-3.471
Sprr2f	0.441	6.572	2.601	0.026	0.269	-3.472
6720463M24Rik	0.294	8.988	2.601	0.027	0.269	-3.472
Noval	-0.386	7.152	-2.600	0.027	0.269	-3.473
Slc6a8	1.184	11.277	2.600	0.027	0.269	-3.473
Lrp2bp	0.564	6.758	2.599	0.027	0.269	-3.475
Zfp553	0.219	8.754	2.598	0.027	0.269	-3.476
Islr	-0.480	8.287	-2.597	0.027	0.270	-3.478
Gm10819	-0.349	7.475	-2.596	0.027	0.270	-3.479
Rpl36-ps3	-0.193	7.462	-2.596	0.027	0.270	-3.479
Pfdn5	-0.274	10.836	-2.595	0.027	0.270	-3.480
1110032A04Rik	-2.247	13.974	-2.595	0.027	0.270	-3.481
Wwp1	-0.388	11.930	-2.594	0.027	0.270	-3.483
Slc4a3	-0.307	7.910	-2.594	0.027	0.270	-3.483
Gm22	0.335	6.733	2.593	0.027	0.270	-3.483
Fam195a	-0.426	8.700	-2.593	0.027	0.270	-3.483
Inf2	0.716	8.794	2.593	0.027	0.270	-3.485
Isl2	-0.504	6.668	-2.593	0.027	0.270	-3.485
Taf1d	0.262	9.846	2.592	0.027	0.270	-3.485
Chaf1a	0.534	8.917	2.592	0.027	0.270	-3.485
Zbed6	0.397	10.768	2.592	0.027	0.270	-3.486
Ifnar2	0.455	8.971	2.592	0.027	0.270	-3.486
Klrd1	0.592	7.035	2.592	0.027	0.270	-3.486
Brd3	-0.259	10.429	-2.591	0.027	0.270	-3.487
Mn1	-0.392	7.279	-2.591	0.027	0.270	-3.487
Fbn1	0.358	10.270	2.591	0.027	0.270	-3.488
Acot9	0.382	10.368	2.591	0.027	0.270	-3.488
Cd86	0.601	7.600	2.590	0.027	0.270	-3.489
Rcan3	-0.428	10.682	-2.589	0.027	0.270	-3.490
Arhgef2	0.340	10.633	2.589	0.027	0.270	-3.491
Pld4	0.506	7.774	2.589	0.027	0.270	-3.491
Isoc1	-0.462	11.074	-2.589	0.027	0.270	-3.491
Cd302	0.787	8.974	2.588	0.027	0.270	-3.492
Mmadhc	-0.341	10.909	-2.588	0.027	0.270	-3.492
A930018M24Rik	0.454	6.972	2.588	0.027	0.270	-3.492
Cyp8b1	0.267	6.530	2.588	0.027	0.270	-3.492
Cym	1.133	7.186	2.588	0.027	0.270	-3.493
Klri2	0.382	6.650	2.588	0.027	0.270	-3.493
Cacna2d2	-0.415	7.216	-2.587	0.027	0.270	-3.493
B3galt1	-0.693	7.563	-2.587	0.027	0.270	-3.493
Hspb1	-0.522	7.741	-2.587	0.027	0.270	-3.494

Gm12576	0.406	7.149	2.587	0.027	0.270	-3.494
Rbl1	0.331	9.396	2.587	0.027	0.270	-3.494
Gm221	0.296	7.021	2.586	0.027	0.270	-3.495
Tceal3	-0.634	7.493	-2.586	0.027	0.270	-3.495
Gpa33	0.957	12.699	2.586	0.027	0.270	-3.495
Phgdh	-0.283	8.850	-2.586	0.027	0.270	-3.496
Atxn10	-0.527	10.392	-2.585	0.027	0.270	-3.496
Camk4	0.451	8.386	2.585	0.027	0.270	-3.497
Fgf10	-0.578	8.163	-2.584	0.027	0.270	-3.498
0910001L09Rik	-0.385	9.855	-2.583	0.027	0.270	-3.499
Ttc9	0.942	8.566	2.583	0.027	0.270	-3.500
Cd200	0.442	9.238	2.583	0.027	0.270	-3.500
Zfp748	-0.202	7.435	-2.583	0.027	0.270	-3.500
Sh3bgr13	-0.678	10.395	-2.582	0.027	0.271	-3.501
Ppfia4	0.488	7.850	2.582	0.027	0.271	-3.501
Nefl	-0.935	7.224	-2.582	0.027	0.271	-3.502
Ulbpl	0.584	7.406	2.581	0.027	0.271	-3.502
Cdon	-0.453	9.146	-2.581	0.027	0.271	-3.503
4932438A13Rik	0.367	11.682	2.581	0.027	0.271	-3.504
Rab11fip5	0.339	7.980	2.580	0.027	0.271	-3.504
Carhsp1	-0.308	11.090	-2.580	0.027	0.271	-3.505
Cd79b	0.607	7.136	2.580	0.027	0.271	-3.505
Wdr67	0.536	8.749	2.580	0.027	0.271	-3.505
Gm6288	0.321	6.616	2.579	0.028	0.271	-3.507
Sh2d4a	-0.910	12.308	-2.578	0.028	0.271	-3.508
Defa22	0.458	6.580	2.578	0.028	0.271	-3.508
Osbpl5	-0.647	9.473	-2.578	0.028	0.271	-3.509
B3gnt5	0.619	7.357	2.577	0.028	0.271	-3.509
Ankrd61	0.182	7.011	2.576	0.028	0.272	-3.511
Grasp	0.558	8.240	2.575	0.028	0.272	-3.513
Akap10	-0.225	9.687	-2.575	0.028	0.272	-3.513
Arhgap15	0.457	7.482	2.574	0.028	0.272	-3.514
Tpm1	-0.703	14.432	-2.574	0.028	0.272	-3.514
Gsta4	-1.518	15.748	-2.574	0.028	0.272	-3.514
Oosp1	0.449	6.677	2.574	0.028	0.272	-3.515
Sprr2a3	1.094	12.334	2.573	0.028	0.272	-3.516
Nipal2	-0.811	11.118	-2.573	0.028	0.272	-3.516
Rad51ap1	0.358	8.474	2.573	0.028	0.272	-3.517
Barx2	1.049	8.052	2.573	0.028	0.272	-3.517
Prss30	0.611	7.011	2.571	0.028	0.272	-3.518
9830107B12Rik	0.270	6.618	2.571	0.028	0.272	-3.519
1700003D09Rik	0.472	7.522	2.571	0.028	0.272	-3.519
Slc7a11	-1.634	10.164	-2.571	0.028	0.272	-3.519
AC153855.2	1.353	8.174	2.571	0.028	0.272	-3.520
Gm10044	-0.399	6.663	-2.570	0.028	0.272	-3.520
4930505A04Rik	0.289	6.642	2.570	0.028	0.272	-3.520
Ep300	0.289	11.026	2.570	0.028	0.272	-3.520
Ly96	-0.478	8.606	-2.570	0.028	0.272	-3.521
Lmod1	-1.256	9.866	-2.568	0.028	0.273	-3.524
Camta1	-0.223	8.635	-2.567	0.028	0.273	-3.525

Coro2a	0.467	12.496	2.567	0.028	0.273	-3.525
Tmsb10	-0.803	12.756	-2.566	0.028	0.274	-3.527
Etv3	0.385	11.331	2.565	0.028	0.274	-3.529
Shoc2	-0.336	12.392	-2.564	0.028	0.274	-3.530
Amd1	-0.502	10.579	-2.564	0.028	0.274	-3.530
Rhoa	-0.341	13.648	-2.564	0.028	0.274	-3.530
Senp6	-0.363	12.505	-2.563	0.028	0.274	-3.531
Zfp536	-0.330	6.947	-2.562	0.028	0.275	-3.533
Slc31a2	-0.326	9.368	-2.562	0.028	0.275	-3.533
Pdlim5	-0.469	12.296	-2.562	0.028	0.275	-3.534
Ogfod2	-0.284	8.973	-2.561	0.028	0.275	-3.534
Abcb1a	1.418	9.578	2.560	0.028	0.275	-3.536
Tbxas1	0.340	7.745	2.560	0.028	0.275	-3.537
Ighg1	2.813	8.971	2.558	0.029	0.276	-3.540
Coll6a1	0.954	10.169	2.557	0.029	0.276	-3.540
Igkv12-46	0.930	7.184	2.557	0.029	0.276	-3.541
Fgf9	0.347	7.460	2.556	0.029	0.276	-3.542
Igkv6-32	1.407	7.415	2.555	0.029	0.277	-3.544
Kdelc2	-0.288	9.574	-2.554	0.029	0.277	-3.546
6330549D23Rik	0.260	7.057	2.554	0.029	0.277	-3.546
Spsb4	0.354	6.630	2.553	0.029	0.277	-3.547
Apol6	-0.794	7.329	-2.552	0.029	0.278	-3.549
Shc3	-0.258	6.509	-2.552	0.029	0.278	-3.550
Pigp	-0.268	9.076	-2.551	0.029	0.278	-3.550
Gsg1	0.257	6.601	2.551	0.029	0.278	-3.550
Dnajc22	0.255	10.378	2.550	0.029	0.278	-3.552
Gm10039	-0.364	8.472	-2.550	0.029	0.278	-3.552
Srl	0.376	7.731	2.549	0.029	0.278	-3.553
Apoalbp	-0.401	10.157	-2.549	0.029	0.278	-3.553
6030429G01Rik	0.444	6.944	2.548	0.029	0.278	-3.555
Hsd11	-0.490	9.538	-2.548	0.029	0.278	-3.556
Lancl2	0.295	9.035	2.547	0.029	0.278	-3.556
Sat1	0.208	12.133	2.547	0.029	0.278	-3.557
Pycr2	-0.395	9.138	-2.547	0.029	0.278	-3.557
Rad17	-0.264	9.757	-2.547	0.029	0.278	-3.557
Supt6h	0.374	12.247	2.547	0.029	0.278	-3.558
Gja1	0.682	10.612	2.546	0.029	0.278	-3.558
Mcf21	-0.611	10.824	-2.546	0.029	0.278	-3.559
Ttll11	-0.280	6.853	-2.546	0.029	0.278	-3.559
Suclg1	-0.278	12.306	-2.545	0.029	0.278	-3.560
Gm5483	0.389	6.546	2.545	0.029	0.278	-3.560
Blnk	0.699	8.971	2.545	0.029	0.278	-3.560
Myef2	0.336	9.528	2.544	0.029	0.278	-3.561
Rabepk	-0.376	9.350	-2.544	0.029	0.278	-3.561
Laptm4b	-0.302	11.115	-2.544	0.029	0.278	-3.562
Fxyd6	-0.990	8.764	-2.544	0.029	0.278	-3.562
Tagln3	-0.428	6.822	-2.544	0.029	0.278	-3.562
Dfna5	0.353	8.300	2.544	0.029	0.278	-3.562
1110038B12Rik	0.313	9.214	2.544	0.029	0.278	-3.562
Sun1	-0.287	10.672	-2.543	0.029	0.279	-3.564

Gm13778	0.250	6.562	2.543	0.029	0.279	-3.564
Slc16a11	0.414	8.116	2.541	0.029	0.279	-3.567
Rel	0.521	8.410	2.540	0.029	0.280	-3.569
Mrpl54	-0.289	9.401	-2.539	0.029	0.280	-3.569
Zfp651	-0.493	8.102	-2.539	0.029	0.280	-3.569
Gm6142	-0.286	6.585	-2.539	0.029	0.280	-3.570
Eml6	0.250	8.473	2.539	0.029	0.280	-3.570
Et14	0.330	11.264	2.539	0.029	0.280	-3.570
Gm9575	0.240	7.268	2.539	0.029	0.280	-3.570
Zfp239	0.844	9.109	2.538	0.029	0.280	-3.571
Rnf213	0.335	10.759	2.538	0.030	0.280	-3.571
Pafah1b3	-0.548	10.193	-2.538	0.030	0.280	-3.571
Man1a2	0.190	11.963	2.538	0.030	0.280	-3.571
Eif5a2	0.395	7.742	2.538	0.030	0.280	-3.571
Ankrd24	-0.402	8.360	-2.537	0.030	0.280	-3.572
Gzmb	1.273	7.636	2.537	0.030	0.280	-3.573
Gimap5	0.401	7.527	2.536	0.030	0.280	-3.574
Gm12824	-0.321	7.261	-2.536	0.030	0.280	-3.574
Vps28	-0.336	10.955	-2.535	0.030	0.280	-3.575
Acs14	0.613	10.423	2.535	0.030	0.280	-3.575
Myh11	-1.720	13.599	-2.535	0.030	0.280	-3.576
Spag4	-0.322	6.888	-2.535	0.030	0.280	-3.576
Nme2	-0.234	8.891	-2.535	0.030	0.280	-3.576
Tff1	-2.206	15.437	-2.534	0.030	0.280	-3.577
1810063B07Rik	-0.342	8.631	-2.533	0.030	0.280	-3.579
Sec1411	-0.461	11.250	-2.533	0.030	0.280	-3.579
Msl1	-0.251	11.306	-2.533	0.030	0.280	-3.579
Apod	-0.484	7.382	-2.532	0.030	0.281	-3.580
Ctps	0.481	9.948	2.532	0.030	0.281	-3.581
Cnm2	0.383	8.427	2.531	0.030	0.281	-3.582
Krtcap2	-0.409	9.876	-2.530	0.030	0.281	-3.583
Axin2	0.948	8.933	2.530	0.030	0.281	-3.584
Erap1	0.646	10.830	2.530	0.030	0.281	-3.584
Gm10287	-0.392	6.875	-2.530	0.030	0.281	-3.584
Setdb2	0.433	8.517	2.529	0.030	0.281	-3.585
Scarb2	0.542	11.543	2.529	0.030	0.281	-3.586
Snx13	-0.249	12.017	-2.529	0.030	0.281	-3.586
S1fn5	0.369	8.953	2.528	0.030	0.281	-3.586
Ube2d2	-0.216	11.497	-2.528	0.030	0.281	-3.587
1810058N05Rik	-0.292	7.469	-2.528	0.030	0.281	-3.587
Gm14217	-0.242	7.520	-2.527	0.030	0.281	-3.588
Des	-1.921	11.735	-2.527	0.030	0.281	-3.588
AC090887.3	0.746	7.073	2.527	0.030	0.281	-3.589
Gm12312	-0.384	6.620	-2.526	0.030	0.281	-3.589
Bend5	-0.363	8.064	-2.526	0.030	0.281	-3.590
Gpatch2	0.223	9.858	2.526	0.030	0.282	-3.591
Rpl35a	-0.275	11.458	-2.525	0.030	0.282	-3.591
Uap1	-0.480	12.766	-2.525	0.030	0.282	-3.592
Cd69	0.415	6.868	2.525	0.030	0.282	-3.592
Irs1	-0.704	8.151	-2.523	0.030	0.282	-3.594

Tmco3	-0.340	11.154	-2.523	0.030	0.282	-3.594
0610010012Rik	-0.568	13.619	-2.523	0.030	0.282	-3.595
Fsd11	1.177	8.964	2.523	0.030	0.282	-3.595
Cdca2	0.402	8.646	2.522	0.030	0.282	-3.596
Tert	0.415	6.629	2.522	0.030	0.282	-3.596
Pgm5	-1.285	9.647	-2.522	0.030	0.282	-3.597
Gm15835	0.309	6.653	2.522	0.030	0.282	-3.597
Ak1	-0.563	8.453	-2.521	0.030	0.282	-3.597
Sdpr	-0.653	9.974	-2.521	0.030	0.282	-3.597
Chn2	-0.289	10.733	-2.521	0.030	0.282	-3.597
Mtus2	-0.438	7.713	-2.521	0.030	0.282	-3.598
Gkn1	-2.889	17.501	-2.521	0.030	0.282	-3.598
Mfn1	-0.248	10.764	-2.521	0.030	0.282	-3.598
Tmem87a	-0.420	11.727	-2.520	0.030	0.282	-3.599
Lama3	1.369	11.002	2.520	0.030	0.282	-3.599
Prim2	-0.637	9.584	-2.520	0.030	0.282	-3.600
R3hcc1	0.413	9.687	2.519	0.031	0.282	-3.602
Dmkn	1.560	9.028	2.518	0.031	0.282	-3.603
Prkag1	-0.177	10.616	-2.518	0.031	0.282	-3.603
Ncoa1	0.208	9.775	2.517	0.031	0.282	-3.603
Cpd	-0.522	14.670	-2.517	0.031	0.282	-3.604
Mtmr7	-0.436	8.372	-2.517	0.031	0.282	-3.604
Zfp445	0.260	10.693	2.517	0.031	0.282	-3.604
Gm14639	-0.218	6.460	-2.517	0.031	0.282	-3.604
Jrkl	0.153	9.702	2.517	0.031	0.282	-3.605
Pxmp3	-0.234	10.662	-2.516	0.031	0.282	-3.605
A130066N16Rik	0.230	6.969	2.516	0.031	0.282	-3.606
A030009H04Rik	-0.301	7.261	-2.515	0.031	0.283	-3.607
Gps1	-0.280	9.885	-2.515	0.031	0.283	-3.608
Hint1	-0.499	11.978	-2.515	0.031	0.283	-3.608
Wfikkn1	-0.226	6.968	-2.514	0.031	0.283	-3.608
Vamp5	0.300	8.179	2.513	0.031	0.283	-3.611
Pex3	0.295	9.731	2.512	0.031	0.283	-3.611
Dhx38	0.320	10.213	2.512	0.031	0.283	-3.611
Frmd4a	0.311	8.370	2.512	0.031	0.283	-3.612
Clqtnf2	-0.220	7.503	-2.512	0.031	0.283	-3.612
Brip1	0.372	8.437	2.511	0.031	0.284	-3.613
Id1	-0.846	11.060	-2.510	0.031	0.284	-3.615
Il18	-0.980	11.226	-2.510	0.031	0.284	-3.616
Scarb1	0.950	9.994	2.509	0.031	0.284	-3.617
Mecom	-0.545	12.700	-2.509	0.031	0.284	-3.617
Ces2g	-0.809	12.919	-2.508	0.031	0.284	-3.618
Trem1	0.694	7.030	2.508	0.031	0.284	-3.619
Foxp4	-0.465	10.631	-2.507	0.031	0.285	-3.620
Vipr2	-0.384	7.924	-2.507	0.031	0.285	-3.620
Ubxn8	0.255	10.061	2.506	0.031	0.285	-3.621
Naa30	-0.206	10.271	-2.506	0.031	0.285	-3.622
1700016K19Rik	-0.497	8.068	-2.506	0.031	0.285	-3.622
Gm9923	0.231	7.611	2.506	0.031	0.285	-3.622
Chpt1	-0.679	12.283	-2.506	0.031	0.285	-3.622

Ppp4r2	-0.250	11.650	-2.505	0.031	0.285	-3.622
Cdca5	0.358	8.219	2.505	0.031	0.285	-3.623
Phlpp2	1.065	9.039	2.505	0.031	0.285	-3.623
Gpn3	-0.258	9.569	-2.505	0.031	0.285	-3.623
Bloc1s2	-0.211	8.768	-2.504	0.031	0.285	-3.625
Mrps17	-0.277	9.870	-2.504	0.031	0.285	-3.625
Arhgap10	-0.657	9.076	-2.503	0.031	0.285	-3.626
D16Ert472e	0.388	7.612	2.503	0.031	0.285	-3.626
Actg2	-1.506	11.658	-2.503	0.031	0.285	-3.627
Tyro3	-0.746	9.815	-2.502	0.031	0.285	-3.628
Gpr34	0.405	7.483	2.502	0.031	0.285	-3.628
Slc35b1	-0.547	11.758	-2.501	0.031	0.285	-3.629
Stk24	0.212	11.524	2.501	0.031	0.285	-3.629
Fam3c	-0.540	12.798	-2.501	0.031	0.285	-3.630
7530422B04Rik	0.289	6.582	2.500	0.031	0.285	-3.630
Txnrd1	0.622	12.605	2.500	0.031	0.285	-3.630
Il1r2	0.543	7.464	2.500	0.032	0.285	-3.631
Ethel	-0.859	10.550	-2.500	0.032	0.285	-3.631
Zfp641	-0.339	7.269	-2.500	0.032	0.285	-3.632
Bag3	-0.438	10.192	-2.499	0.032	0.285	-3.633
Vegfa	0.438	11.449	2.499	0.032	0.285	-3.633
Arhgdig	-0.777	7.396	-2.499	0.032	0.285	-3.633
Recq1	0.459	8.971	2.498	0.032	0.285	-3.633
Alox15	0.551	8.057	2.498	0.032	0.285	-3.634
Ikzf3	0.671	7.519	2.498	0.032	0.285	-3.634
Rpa2	0.327	9.088	2.498	0.032	0.285	-3.635
Thrsp	-0.868	7.138	-2.498	0.032	0.285	-3.635
6030422M02Rik	-0.646	8.785	-2.498	0.032	0.285	-3.635
1110014N23Rik	-0.229	9.363	-2.497	0.032	0.285	-3.635
Capn8	-1.921	11.199	-2.497	0.032	0.285	-3.635
Evp1	-0.526	10.553	-2.497	0.032	0.285	-3.636
Ttbk1	-0.420	6.695	-2.496	0.032	0.285	-3.636
Pigs	0.252	9.823	2.496	0.032	0.285	-3.637
Mmp13	2.292	9.370	2.496	0.032	0.285	-3.637
D030047H15Rik	0.241	6.521	2.496	0.032	0.285	-3.637
Gm20419	0.949	8.806	2.496	0.032	0.285	-3.637
AC152451.1	0.453	7.230	2.496	0.032	0.285	-3.638
Wee1	-0.356	8.957	-2.496	0.032	0.285	-3.638
Pigf	-0.437	8.683	-2.496	0.032	0.285	-3.638
Gm12316	-0.345	6.770	-2.495	0.032	0.285	-3.638
Egr2	0.415	7.073	2.495	0.032	0.285	-3.638
Mtm1	0.437	10.168	2.495	0.032	0.285	-3.638
Gm9846	-0.344	11.489	-2.494	0.032	0.285	-3.640
Gm10501	0.248	6.812	2.494	0.032	0.285	-3.640
Cltb	-0.308	12.268	-2.494	0.032	0.285	-3.640
Sh3bgr1	0.247	12.223	2.493	0.032	0.285	-3.642
Pxdn	0.607	9.181	2.492	0.032	0.286	-3.643
Gm15318	-1.891	11.704	-2.492	0.032	0.286	-3.644
Jrk	-0.413	7.822	-2.491	0.032	0.286	-3.645
AL844174.1	0.288	6.649	2.491	0.032	0.286	-3.645

Kcnip4	-0.483	7.194	-2.490	0.032	0.286	-3.646
Rasal2	0.270	9.413	2.490	0.032	0.286	-3.646
Ptpn22	0.662	7.381	2.490	0.032	0.286	-3.647
Cfd	-1.413	7.058	-2.489	0.032	0.286	-3.648
Gm13619	-0.256	6.511	-2.489	0.032	0.286	-3.648
Gm5403	0.291	6.841	2.489	0.032	0.286	-3.648
Bcor11	0.363	8.889	2.489	0.032	0.286	-3.648
Slc23a2	1.350	10.599	2.488	0.032	0.286	-3.650
Atp8b5	-0.370	6.786	-2.488	0.032	0.286	-3.650
Denr	-0.397	11.904	-2.488	0.032	0.287	-3.650
Cd97	0.675	10.202	2.487	0.032	0.287	-3.652
Dars2	0.284	9.941	2.486	0.032	0.287	-3.652
Rbm14	-0.182	9.621	-2.486	0.032	0.287	-3.652
Galr2	-0.378	6.928	-2.486	0.032	0.287	-3.653
Ifi2711	-0.374	9.221	-2.486	0.032	0.287	-3.653
Zbtb16	-1.217	7.828	-2.486	0.032	0.287	-3.653
Drap1	-0.318	11.109	-2.485	0.032	0.287	-3.654
4930570G19Rik	-0.338	6.573	-2.485	0.032	0.287	-3.654
Cd3g	0.598	7.192	2.484	0.032	0.287	-3.656
Kctd11	-0.364	8.981	-2.483	0.032	0.288	-3.658
Lamtor3	-0.424	10.619	-2.482	0.032	0.288	-3.659
Fabp5	-0.892	12.520	-2.482	0.032	0.288	-3.660
Brp441	-0.331	9.384	-2.481	0.033	0.288	-3.661
Acox1	-0.301	6.816	-2.481	0.033	0.288	-3.661
BC049352	0.324	6.590	2.480	0.033	0.288	-3.662
AI987944	0.309	8.427	2.480	0.033	0.288	-3.662
Gm13881	-1.503	8.594	-2.480	0.033	0.288	-3.662
Leprotil1	-0.335	10.219	-2.480	0.033	0.288	-3.663
Lrrc14	-0.248	8.491	-2.479	0.033	0.288	-3.664
Zfp821	-0.332	8.646	-2.479	0.033	0.288	-3.664
Adamts15	-0.567	10.446	-2.479	0.033	0.288	-3.664
Pdlim3	-1.095	9.758	-2.479	0.033	0.288	-3.664
Ccdc73	0.330	7.386	2.479	0.033	0.288	-3.664
Gm13068	-0.358	7.007	-2.478	0.033	0.288	-3.665
Rab25	-0.483	11.845	-2.478	0.033	0.288	-3.665
Adamts11	-0.715	7.384	-2.478	0.033	0.288	-3.666
Camk1g	-0.304	6.682	-2.478	0.033	0.288	-3.666
Loxl2	0.530	9.468	2.477	0.033	0.288	-3.667
Trim46	-0.384	8.354	-2.477	0.033	0.288	-3.667
Foxq1	-0.552	12.284	-2.476	0.033	0.289	-3.668
Stap1	0.472	7.025	2.475	0.033	0.289	-3.671
Btla	0.638	7.196	2.474	0.033	0.289	-3.672
Gipc2	-0.747	11.978	-2.474	0.033	0.289	-3.672
Gm7204	0.354	9.639	2.474	0.033	0.289	-3.672
Tnrc6a	0.257	11.539	2.474	0.033	0.289	-3.672
Hps3	0.337	9.377	2.474	0.033	0.289	-3.672
Trub2	0.347	8.714	2.474	0.033	0.289	-3.672
Slc35f1	-0.522	7.091	-2.473	0.033	0.289	-3.673
Sox10	-0.478	6.994	-2.472	0.033	0.289	-3.674
Utp20	0.425	9.743	2.472	0.033	0.290	-3.675

Gjb3	0.705	6.957	2.472	0.033	0.290	-3.676
Gm15506	0.343	6.714	2.471	0.033	0.290	-3.677
Fermt3	0.377	7.860	2.470	0.033	0.290	-3.677
Anxa2	0.684	15.061	2.470	0.033	0.290	-3.677
Spon1	0.797	9.779	2.470	0.033	0.290	-3.678
BC065397	0.325	6.699	2.470	0.033	0.290	-3.678
Gm13864	0.289	7.047	2.468	0.033	0.291	-3.681
Psmb8	0.956	8.786	2.468	0.033	0.291	-3.682
Serpina3m	0.373	6.875	2.467	0.033	0.291	-3.683
Egf17	0.339	8.669	2.466	0.033	0.291	-3.684
Slc48a1	-0.367	10.196	-2.466	0.033	0.291	-3.684
Cst3	-0.512	12.880	-2.466	0.033	0.291	-3.684
Gm15564	-0.627	7.243	-2.464	0.034	0.292	-3.688
Acnat1	0.585	9.787	2.464	0.034	0.292	-3.688
Cmtm8	-0.651	9.507	-2.463	0.034	0.292	-3.690
Gkn2	-2.907	17.663	-2.462	0.034	0.293	-3.690
Ppm1j	1.091	7.876	2.462	0.034	0.293	-3.691
Thg11	0.256	9.100	2.461	0.034	0.293	-3.692
Klf15	-0.593	8.512	-2.460	0.034	0.293	-3.693
Mettl13	-0.222	8.785	-2.460	0.034	0.293	-3.694
Gramd1b	0.333	10.867	2.459	0.034	0.293	-3.695
Mrpl23	-0.246	8.482	-2.459	0.034	0.293	-3.695
Rcbtb2	0.252	9.547	2.459	0.034	0.293	-3.695
Kdm3a	0.277	10.577	2.459	0.034	0.293	-3.695
Cfp	0.402	8.102	2.459	0.034	0.293	-3.695
Satb2	0.382	7.230	2.458	0.034	0.293	-3.696
Myo19	0.439	8.891	2.458	0.034	0.293	-3.697
Tbrg1	-0.228	11.708	-2.457	0.034	0.294	-3.698
Lbr	0.240	10.960	2.457	0.034	0.294	-3.699
Defa26	0.584	6.643	2.457	0.034	0.294	-3.699
Acd	-0.302	8.068	-2.456	0.034	0.294	-3.700
Itpripl2	-1.234	12.015	-2.456	0.034	0.294	-3.701
Ly6g6d	0.265	7.960	2.455	0.034	0.294	-3.701
Mgat4a	0.512	13.090	2.455	0.034	0.294	-3.702
Plin4	-1.115	7.806	-2.455	0.034	0.294	-3.702
Zfat	0.243	7.829	2.454	0.034	0.294	-3.702
Rhoc	0.681	11.436	2.454	0.034	0.294	-3.703
Plod3	0.286	10.135	2.454	0.034	0.294	-3.703
Hif1a	0.355	11.678	2.453	0.034	0.294	-3.704
Tnfsf8	0.415	6.934	2.453	0.034	0.294	-3.704
Sh2d5	0.531	7.030	2.453	0.034	0.294	-3.705
Rab10	-0.212	12.266	-2.452	0.034	0.294	-3.706
Abca8a	-0.816	8.424	-2.452	0.034	0.294	-3.706
Prkar2a	0.418	11.405	2.452	0.034	0.295	-3.707
Gm17131	0.341	11.411	2.451	0.034	0.295	-3.707
Rnf150	0.862	8.431	2.450	0.034	0.295	-3.709
Tlk1	-0.212	11.507	-2.450	0.034	0.295	-3.709
Cckbr	-0.642	6.962	-2.450	0.034	0.295	-3.710
Slc9a1	-0.878	10.841	-2.450	0.034	0.295	-3.710
Kcnc2	-0.463	7.360	-2.450	0.034	0.295	-3.710

Fv1	0.338	8.114	2.449	0.034	0.295	-3.711
Vcan	0.863	9.549	2.448	0.034	0.295	-3.712
Cops6	-0.246	11.178	-2.448	0.034	0.295	-3.713
Atf5	-0.308	9.337	-2.448	0.034	0.295	-3.713
Yipf3	-0.283	10.929	-2.447	0.034	0.296	-3.714
Dock10	0.494	8.513	2.446	0.035	0.296	-3.715
Fnta	-0.319	11.211	-2.446	0.035	0.296	-3.715
C130021I20Rik	-0.398	6.550	-2.446	0.035	0.296	-3.716
Hoxb6	-0.281	6.947	-2.445	0.035	0.296	-3.716
Hyou1	-0.658	13.020	-2.445	0.035	0.296	-3.717
Gm13387	0.245	6.946	2.445	0.035	0.296	-3.717
Prg2	0.696	7.302	2.445	0.035	0.296	-3.718
Chmp5	-0.410	12.654	-2.444	0.035	0.296	-3.719
Lrrn4c1	-0.309	7.157	-2.443	0.035	0.296	-3.720
AC114588.1	0.226	9.595	2.443	0.035	0.296	-3.720
Slc35a5	0.372	10.112	2.443	0.035	0.296	-3.720
Gm15174	0.322	6.584	2.443	0.035	0.296	-3.721
Sgsm2	-0.567	9.606	-2.443	0.035	0.296	-3.721
Gm11647	0.399	7.046	2.442	0.035	0.296	-3.722
Chchd10	-0.438	9.786	-2.441	0.035	0.297	-3.723
Olf56	0.232	6.596	2.441	0.035	0.297	-3.723
Mrpl15	0.286	10.504	2.441	0.035	0.297	-3.723
Skint8	0.307	7.286	2.441	0.035	0.297	-3.724
4930455G09Rik	-0.275	7.104	-2.441	0.035	0.297	-3.724
Ezh2	0.324	10.364	2.440	0.035	0.297	-3.725
Pgap2	-0.757	10.122	-2.440	0.035	0.297	-3.725
Hey2	-0.318	7.174	-2.439	0.035	0.297	-3.726
Cdkn2b	0.899	8.847	2.439	0.035	0.297	-3.726
Fam105a	0.449	8.496	2.439	0.035	0.297	-3.727
Slc44a2	-0.803	11.283	-2.439	0.035	0.297	-3.727
Toplmt	0.343	8.628	2.439	0.035	0.297	-3.727
Gapdh	0.493	10.587	2.438	0.035	0.297	-3.728
Fbxw5	-0.262	9.816	-2.437	0.035	0.297	-3.729
Cd2	0.395	7.092	2.435	0.035	0.298	-3.732
Gm3500	0.146	6.456	2.435	0.035	0.298	-3.733
Dio2	1.361	8.372	2.435	0.035	0.298	-3.733
Golph31	-0.271	12.084	-2.434	0.035	0.298	-3.734
P4htm	-0.281	7.126	-2.434	0.035	0.299	-3.735
Zfyve19	-0.323	9.151	-2.433	0.035	0.299	-3.736
Gm1966	0.324	6.700	2.433	0.035	0.299	-3.736
Prodh	0.450	8.433	2.433	0.035	0.299	-3.737
Gm14851	0.793	6.779	2.432	0.035	0.299	-3.737
Defa23	0.368	6.585	2.432	0.035	0.299	-3.738
Rabgef1	-0.510	10.603	-2.431	0.035	0.299	-3.739
Rps15a	-0.266	12.052	-2.431	0.035	0.299	-3.740
Zfp599	0.227	8.121	2.431	0.035	0.299	-3.740
Ssr4	-0.344	12.005	-2.430	0.036	0.300	-3.741
Gprasp1	-0.386	9.410	-2.430	0.036	0.300	-3.741
Abi3	0.445	7.071	2.429	0.036	0.300	-3.742
Ush1g	0.928	7.106	2.429	0.036	0.300	-3.743

2210407C18Rik	-0.807	14.711	-2.427	0.036	0.301	-3.746
Malt1	0.432	9.775	2.426	0.036	0.301	-3.746
Pan3	-0.252	11.072	-2.425	0.036	0.301	-3.748
Ppm1l	-0.432	9.666	-2.425	0.036	0.301	-3.748
Ino80	0.159	10.129	2.425	0.036	0.301	-3.748
Vamp8	-0.403	12.982	-2.425	0.036	0.301	-3.749
Zc3h4	0.320	10.444	2.424	0.036	0.301	-3.750
Dab2ip	0.266	11.174	2.424	0.036	0.301	-3.750
Zfp764	0.335	8.452	2.424	0.036	0.301	-3.751
Mrpl40	-0.249	9.896	-2.423	0.036	0.301	-3.751
Bmf	0.511	8.650	2.423	0.036	0.301	-3.751
AC122322.1	0.801	7.133	2.423	0.036	0.301	-3.752
Prpf19	0.219	10.890	2.423	0.036	0.301	-3.752
Igkv8-24	0.969	7.352	2.422	0.036	0.302	-3.753
Lama1	0.893	8.219	2.422	0.036	0.302	-3.754
Pdia6	-0.744	14.971	-2.422	0.036	0.302	-3.754
Fbxl22	-0.462	7.826	-2.421	0.036	0.302	-3.754
Slc9a3	1.050	9.945	2.421	0.036	0.302	-3.755
Gm6030	-0.239	6.505	-2.421	0.036	0.302	-3.755
Map3k13	0.956	9.029	2.420	0.036	0.302	-3.756
Ngly1	-0.232	11.298	-2.420	0.036	0.302	-3.756
Ddx60	-0.483	9.033	-2.419	0.036	0.302	-3.758
Gvin1	0.430	6.739	2.418	0.036	0.303	-3.759
4921506M07Rik	-0.588	8.601	-2.418	0.036	0.303	-3.760
Hjurp	-0.379	10.457	-2.416	0.036	0.303	-3.762
Appl2	-0.645	12.425	-2.416	0.036	0.303	-3.763
Gm13480	-0.292	6.497	-2.416	0.036	0.303	-3.763
Kif3a	0.321	9.515	2.416	0.036	0.303	-3.763
Gm6166	-0.803	10.172	-2.415	0.036	0.303	-3.764
Aplf	-0.313	9.387	-2.415	0.036	0.303	-3.764
Tmem8	-0.542	10.918	-2.415	0.036	0.303	-3.765
Ttc16	0.492	6.785	2.414	0.036	0.303	-3.765
Pde3b	-0.675	10.471	-2.414	0.036	0.304	-3.766
Flt3	0.428	7.242	2.414	0.036	0.304	-3.766
Katna1	-0.253	9.937	-2.413	0.037	0.304	-3.767
Atf4	-0.273	11.925	-2.413	0.037	0.304	-3.767
Prrc1	-0.256	11.178	-2.413	0.037	0.304	-3.767
Stk32a	-0.481	7.103	-2.412	0.037	0.304	-3.768
Niacr1	0.571	6.838	2.412	0.037	0.304	-3.769
Sfpq	-0.269	12.344	-2.412	0.037	0.304	-3.769
Kctd5	0.566	10.351	2.412	0.037	0.304	-3.769
Tmem169	0.310	6.693	2.412	0.037	0.304	-3.769
Lrrn3	-0.331	7.126	-2.411	0.037	0.304	-3.770
Ophn1	-0.268	9.488	-2.410	0.037	0.304	-3.772
Akna	0.317	8.078	2.409	0.037	0.304	-3.773
Rpl17	-0.324	13.326	-2.409	0.037	0.304	-3.773
F830045P16Rik	0.290	6.496	2.409	0.037	0.304	-3.773
Pcdhb22	0.287	7.357	2.409	0.037	0.305	-3.774
Snx16	-0.265	8.893	-2.408	0.037	0.305	-3.775
Aqp3	-1.720	11.248	-2.408	0.037	0.305	-3.776

Dsg3	0.415	6.628	2.407	0.037	0.305	-3.776
Gm13502	0.395	8.191	2.407	0.037	0.305	-3.776
Inmt	-0.758	6.783	-2.407	0.037	0.305	-3.777
Muc4	1.224	12.257	2.406	0.037	0.305	-3.777
Eef2k	-0.427	11.320	-2.406	0.037	0.305	-3.778
Tcf23	-1.753	11.315	-2.406	0.037	0.305	-3.779
Spef1	-0.514	9.031	-2.405	0.037	0.305	-3.779
Nasp	0.283	11.135	2.405	0.037	0.305	-3.780
4930427A07Rik	0.434	8.506	2.405	0.037	0.305	-3.780
Rom1	-0.330	7.972	-2.405	0.037	0.305	-3.780
Trpv3	0.306	6.865	2.404	0.037	0.306	-3.782
Rpl13a-ps1	0.237	6.853	2.404	0.037	0.306	-3.782
2400009B08Rik	-0.303	6.654	-2.403	0.037	0.306	-3.782
Mmp19	0.753	8.604	2.403	0.037	0.306	-3.783
Apln	0.827	7.892	2.402	0.037	0.306	-3.785
Chek1	0.263	8.533	2.400	0.037	0.307	-3.787
Gm13509	0.229	9.831	2.400	0.037	0.307	-3.787
Galk2	-0.209	10.307	-2.400	0.037	0.307	-3.787
Gm9153	-0.365	6.736	-2.399	0.037	0.307	-3.788
A530072M11Rik	-0.313	6.949	-2.399	0.037	0.307	-3.788
Nr2f2	-0.941	10.088	-2.399	0.037	0.307	-3.789
Rpl37	-0.327	11.745	-2.399	0.037	0.307	-3.789
Zfp503	-0.526	9.701	-2.399	0.037	0.307	-3.789
Npr1	-0.449	7.757	-2.399	0.037	0.307	-3.789
Tlr11	0.244	6.675	2.398	0.037	0.307	-3.790
Cf12	-0.399	10.628	-2.398	0.038	0.307	-3.791
Invs	0.294	8.438	2.397	0.038	0.307	-3.792
Khdcla	0.477	7.007	2.397	0.038	0.307	-3.792
Hspbap1	0.292	8.387	2.397	0.038	0.307	-3.793
Gm12901	0.410	6.846	2.397	0.038	0.307	-3.793
Mrv1l	-0.695	9.253	-2.396	0.038	0.307	-3.793
Gbp8	0.514	7.413	2.396	0.038	0.307	-3.793
AL596258.1	0.157	6.430	2.396	0.038	0.307	-3.794
Gdf3	0.296	6.894	2.395	0.038	0.307	-3.795
1100001G20Rik	0.304	6.503	2.395	0.038	0.307	-3.795
Tpt1-ps6	-0.296	7.414	-2.395	0.038	0.307	-3.796
Evc	-0.269	7.918	-2.394	0.038	0.307	-3.796
Trim12	0.486	6.623	2.394	0.038	0.307	-3.796
Krcc1	-0.291	12.552	-2.393	0.038	0.308	-3.798
Gm13479	-0.234	6.565	-2.392	0.038	0.309	-3.800
2310014L17Rik	-0.416	7.151	-2.391	0.038	0.309	-3.801
Gimap7	0.601	7.128	2.391	0.038	0.309	-3.801
Trip11	-0.214	11.662	-2.391	0.038	0.309	-3.802
Atp2b1	0.909	14.013	2.391	0.038	0.309	-3.802
Psmbl	-0.216	11.741	-2.390	0.038	0.309	-3.803
Rnf122	0.287	7.776	2.390	0.038	0.309	-3.803
Fryl	0.219	11.333	2.390	0.038	0.309	-3.803
Hmgal	0.390	8.789	2.390	0.038	0.309	-3.803
Dcaf15	0.261	9.147	2.389	0.038	0.309	-3.804
Rpl13	-0.295	11.921	-2.389	0.038	0.309	-3.805

Mafk	-0.363	10.936	-2.388	0.038	0.309	-3.805
Stk11	-0.221	11.304	-2.388	0.038	0.309	-3.807
Nqo1	-1.933	13.247	-2.386	0.038	0.310	-3.810
Cdh19	-0.641	7.167	-2.385	0.038	0.310	-3.811
Ptprk	-0.264	11.889	-2.385	0.038	0.310	-3.811
Stx7	-0.208	11.980	-2.385	0.038	0.310	-3.811
Colec10	-1.347	8.962	-2.385	0.038	0.310	-3.812
Atad5	0.327	8.891	2.385	0.038	0.310	-3.812
Icam5	0.264	6.537	2.384	0.038	0.310	-3.812
Csnk1e	0.271	9.394	2.383	0.038	0.311	-3.813
Tfcp2l1	-0.841	12.846	-2.383	0.038	0.311	-3.813
Clcn5	0.341	10.956	2.383	0.038	0.311	-3.814
Gars	-0.231	11.733	-2.383	0.038	0.311	-3.814
Setd4	-0.467	8.398	-2.383	0.038	0.311	-3.815
Nt5c1b	0.257	6.480	2.382	0.039	0.311	-3.815
E330016A19Rik	0.376	7.835	2.382	0.039	0.311	-3.816
Adamts20	-0.242	6.472	-2.382	0.039	0.311	-3.816
Lrtm1	0.264	6.483	2.382	0.039	0.311	-3.816
Asb6	-0.192	8.816	-2.381	0.039	0.311	-3.817
Unc5c1	1.016	8.958	2.381	0.039	0.311	-3.817
Igfbp6	-0.515	7.786	-2.381	0.039	0.311	-3.817
Mfap1a	-0.182	9.461	-2.380	0.039	0.311	-3.818
Tsc22d3	-0.763	10.673	-2.380	0.039	0.311	-3.819
Cd80	0.365	6.867	2.380	0.039	0.311	-3.819
Foxp2	-0.603	8.807	-2.379	0.039	0.311	-3.821
Chmp2a	-0.347	12.344	-2.378	0.039	0.312	-3.822
Inhba	1.232	8.522	2.378	0.039	0.312	-3.822
Gm11428	0.360	7.304	2.377	0.039	0.312	-3.823
0610007P22Rik	-0.210	8.862	-2.377	0.039	0.312	-3.824
A330021E22Rik	-1.158	9.157	-2.376	0.039	0.312	-3.824
Ccl27a	-0.296	7.301	-2.376	0.039	0.312	-3.826
Arl4d	-0.961	7.939	-2.375	0.039	0.312	-3.826
Asf1b	0.364	8.706	2.375	0.039	0.312	-3.826
Duxbl1	-0.259	6.481	-2.375	0.039	0.313	-3.827
Rims2	0.420	7.175	2.373	0.039	0.313	-3.829
Emr4	0.377	7.161	2.373	0.039	0.313	-3.829
Sdf2l1	-0.975	12.013	-2.373	0.039	0.313	-3.830
Asz1	1.646	8.601	2.373	0.039	0.313	-3.830
Golph3	-0.333	13.111	-2.373	0.039	0.313	-3.830
Vsig2	-1.108	12.665	-2.372	0.039	0.313	-3.831
Mmp16	-0.351	6.957	-2.372	0.039	0.313	-3.831
Scarna17	0.266	6.571	2.372	0.039	0.313	-3.831
Scarna2	-0.418	7.520	-2.372	0.039	0.313	-3.831
AC160985.3	0.560	6.880	2.372	0.039	0.313	-3.831
Fam117a	-0.662	7.648	-2.371	0.039	0.313	-3.832
Gm16602	0.251	6.477	2.371	0.039	0.313	-3.832
Gab2	0.357	9.049	2.371	0.039	0.313	-3.832
4933403F05Rik	0.281	11.280	2.370	0.039	0.313	-3.833
Tlr1	0.520	8.093	2.370	0.039	0.313	-3.834
Pja2	-0.315	12.243	-2.370	0.039	0.313	-3.835

Csf2ra	0.443	8.108	2.370	0.039	0.313	-3.835
Slitrk2	-0.319	6.612	-2.370	0.039	0.313	-3.835
Peli2	-0.383	8.318	-2.369	0.039	0.313	-3.835
Mtf1	0.219	9.551	2.369	0.039	0.313	-3.836
Gpr112	0.820	7.007	2.368	0.039	0.313	-3.837
CK137956	0.179	6.472	2.368	0.039	0.313	-3.837
Gm14206	0.240	6.542	2.368	0.039	0.313	-3.837
Rap1gap	-0.647	11.685	-2.368	0.039	0.313	-3.837
Arhgef9	-0.488	8.197	-2.368	0.039	0.313	-3.838
Tnfrsf11a	0.827	9.691	2.367	0.040	0.313	-3.838
Nfix	-0.617	10.586	-2.367	0.040	0.313	-3.838
Cope	-0.240	11.663	-2.367	0.040	0.313	-3.839
Adam11	-0.428	7.337	-2.367	0.040	0.313	-3.839
Cd63	-0.291	12.722	-2.367	0.040	0.313	-3.839
Tctex1d2	-0.463	8.385	-2.367	0.040	0.313	-3.839
Gusb	0.386	10.313	2.366	0.040	0.314	-3.841
Xiap	0.336	11.997	2.366	0.040	0.314	-3.841
Taf1c	-0.195	8.221	-2.366	0.040	0.314	-3.841
2810428I15Rik	-0.312	9.549	-2.365	0.040	0.314	-3.841
Atp6v0a2	0.736	10.894	2.365	0.040	0.314	-3.842
Gbas	-0.371	10.972	-2.364	0.040	0.314	-3.843
Dppa5a	-0.561	7.038	-2.364	0.040	0.314	-3.843
Gm10775	-0.261	6.649	-2.364	0.040	0.314	-3.844
Ryr2	-0.805	8.001	-2.363	0.040	0.314	-3.846
Nos2	0.445	6.790	2.362	0.040	0.314	-3.846
Cox7a2	-0.340	11.715	-2.362	0.040	0.315	-3.847
Josd1	-0.243	9.754	-2.362	0.040	0.315	-3.847
1700088E04Rik	-0.298	6.902	-2.361	0.040	0.315	-3.848
Cops4	-0.239	10.710	-2.361	0.040	0.315	-3.848
St3gall	0.288	8.647	2.360	0.040	0.315	-3.849
Stfa211	0.305	6.580	2.359	0.040	0.316	-3.852
2210009G21Rik	0.282	8.984	2.358	0.040	0.316	-3.852
Gm5535	0.258	6.543	2.358	0.040	0.316	-3.853
Dpcr1	-1.842	16.522	-2.358	0.040	0.316	-3.853
Gm5940	-0.224	6.744	-2.358	0.040	0.316	-3.853
1500015010Rik	0.240	6.471	2.357	0.040	0.316	-3.854
Ap3s1	-0.265	11.296	-2.357	0.040	0.316	-3.854
Gchfr	0.480	6.772	2.357	0.040	0.316	-3.855
Rpl7a-ps5	-0.386	7.664	-2.356	0.040	0.316	-3.855
Atp5g1	-0.486	11.059	-2.356	0.040	0.316	-3.855
Trappc6a	-0.427	9.293	-2.355	0.040	0.316	-3.857
Aldh3b1	0.893	8.077	2.355	0.040	0.316	-3.857
Rpl31-ps4	-0.268	6.519	-2.355	0.040	0.316	-3.858
9030224M15Rik	-0.398	7.044	-2.354	0.040	0.316	-3.859
Slc27a6	-0.757	8.010	-2.354	0.040	0.316	-3.859
Hvcn1	0.357	7.917	2.354	0.040	0.316	-3.859
Trnp1	-0.567	7.132	-2.354	0.040	0.316	-3.859
Ppm1f	0.270	9.020	2.354	0.040	0.317	-3.859
Fcrls	0.462	8.031	2.353	0.040	0.317	-3.861
Luc71	-0.179	10.685	-2.353	0.041	0.317	-3.861

Lsp1	0.290	9.662	2.352	0.041	0.317	-3.863
Mycn	0.555	7.635	2.351	0.041	0.318	-3.864
Lsm14b	-0.363	9.934	-2.350	0.041	0.318	-3.865
Ccdc64	-0.797	9.458	-2.350	0.041	0.318	-3.865
Pfkfb3	0.691	9.172	2.350	0.041	0.318	-3.865
8430436N08Rik	-0.239	6.471	-2.349	0.041	0.318	-3.866
Gm11979	-0.169	6.436	-2.349	0.041	0.318	-3.866
Adh7	-2.540	10.179	-2.349	0.041	0.318	-3.867
Pde8a	-0.656	9.833	-2.348	0.041	0.318	-3.869
Aagab	-0.239	10.524	-2.348	0.041	0.318	-3.869
AB124611	-0.485	8.052	-2.347	0.041	0.318	-3.869
Lmtk2	0.285	10.938	2.347	0.041	0.318	-3.869
Cap2	-0.991	8.077	-2.347	0.041	0.319	-3.870
Dnm11	0.232	11.781	2.346	0.041	0.319	-3.871
Gm7964	0.211	10.738	2.346	0.041	0.319	-3.872
Ireb2	0.567	11.806	2.346	0.041	0.319	-3.872
Plat	0.690	9.059	2.345	0.041	0.319	-3.872
Nfe212	-0.349	13.035	-2.345	0.041	0.319	-3.873
Trmt12	-0.279	8.869	-2.345	0.041	0.319	-3.873
Akt2	-0.217	10.671	-2.345	0.041	0.319	-3.873
Gm3571	-0.349	8.209	-2.345	0.041	0.319	-3.873
Sgcd	-0.284	7.570	-2.345	0.041	0.319	-3.873
Gm12146	0.287	6.567	2.345	0.041	0.319	-3.873
Fam124a	0.719	8.463	2.344	0.041	0.319	-3.874
Gm4070	0.239	7.108	2.344	0.041	0.319	-3.874
Rep15	-1.602	11.696	-2.344	0.041	0.319	-3.875
Naglu	-0.391	8.971	-2.343	0.041	0.319	-3.876
Ring1	-0.269	8.657	-2.343	0.041	0.319	-3.876
Fam64a	0.304	7.456	2.343	0.041	0.319	-3.877
Bcl2l15	0.826	7.161	2.341	0.041	0.320	-3.879
Rims1	-1.140	8.427	-2.341	0.041	0.320	-3.879
Rnase4	-0.629	12.476	-2.341	0.041	0.320	-3.880
Kank2	-0.522	9.167	-2.340	0.041	0.320	-3.880
Uqcr10	-0.473	11.942	-2.340	0.041	0.320	-3.880
Mast2	0.352	10.645	2.339	0.041	0.320	-3.882
Pip4k2a	0.404	9.258	2.339	0.041	0.320	-3.882
Sh3kbp1	0.746	11.231	2.339	0.041	0.320	-3.882
Ighj1	0.313	6.593	2.339	0.041	0.320	-3.883
Tcp1l11	-0.221	7.214	-2.339	0.041	0.320	-3.883
Sowahb	0.486	9.594	2.338	0.041	0.320	-3.883
Gm6264	-0.232	7.360	-2.338	0.042	0.320	-3.884
Polr3k	-0.322	11.113	-2.337	0.042	0.320	-3.885
Fam83b	0.516	10.517	2.337	0.042	0.320	-3.885
B930094E09Rik	0.270	6.634	2.337	0.042	0.320	-3.885
Dis3l2	0.242	9.304	2.337	0.042	0.320	-3.885
Oaz1	-0.270	12.239	-2.337	0.042	0.320	-3.886
Kynu	0.297	7.120	2.336	0.042	0.320	-3.886
Oasl2	0.433	8.720	2.335	0.042	0.321	-3.888
Zfhx3	-0.291	9.369	-2.334	0.042	0.321	-3.889
Zfp668	0.245	8.107	2.334	0.042	0.321	-3.890

Dynl11	-0.586	11.862	-2.334	0.042	0.321	-3.891
1810032008Rik	0.259	7.813	2.333	0.042	0.321	-3.891
Zfp92	0.325	7.084	2.332	0.042	0.322	-3.893
Gm8129	-0.246	8.606	-2.332	0.042	0.322	-3.894
Usp24	-0.391	11.876	-2.331	0.042	0.322	-3.894
Ssbp2	-0.346	8.550	-2.331	0.042	0.322	-3.894
Mia2	0.788	10.401	2.331	0.042	0.322	-3.895
Serpina3f	0.579	7.081	2.330	0.042	0.322	-3.896
9930104L06Rik	-0.296	8.644	-2.330	0.042	0.322	-3.896
Mad211bp	-0.297	9.181	-2.330	0.042	0.322	-3.896
C630004H02Rik	-0.616	11.407	-2.330	0.042	0.322	-3.897
Idh2	-0.545	11.043	-2.329	0.042	0.322	-3.897
Pcdhb14	0.359	7.529	2.329	0.042	0.322	-3.897
Tnpo2	-0.212	10.605	-2.329	0.042	0.322	-3.898
Mtcp1	0.234	8.872	2.329	0.042	0.322	-3.898
Gm11605	-0.261	7.097	-2.329	0.042	0.323	-3.898
Zfp319	0.292	8.282	2.328	0.042	0.323	-3.899
Ppl	0.481	9.713	2.328	0.042	0.323	-3.899
Gabbr2	0.282	6.636	2.328	0.042	0.323	-3.900
Cblc	0.243	9.659	2.327	0.042	0.323	-3.901
Eno2	-0.496	7.713	-2.326	0.042	0.323	-3.902
Hs2st1	0.415	10.159	2.326	0.042	0.323	-3.902
Mrps24	-0.474	9.900	-2.326	0.042	0.323	-3.902
Lgals4	0.802	15.129	2.326	0.042	0.323	-3.902
Trim31	1.911	9.265	2.326	0.042	0.323	-3.903
Grpel1	-0.427	11.066	-2.326	0.042	0.323	-3.903
Cnksr1	-0.292	9.667	-2.326	0.042	0.323	-3.903
Rasa3	0.500	8.970	2.326	0.042	0.323	-3.903
Nr2e3	0.438	6.571	2.325	0.042	0.323	-3.903
Trim56	0.286	10.801	2.325	0.042	0.323	-3.904
Bet1	-0.317	10.574	-2.325	0.042	0.323	-3.904
Ptgr1	-1.427	14.274	-2.325	0.042	0.323	-3.905
Pvr	0.425	9.205	2.324	0.042	0.323	-3.905
Slc18a2	-0.373	7.953	-2.324	0.042	0.323	-3.905
Spacal	0.231	6.467	2.324	0.043	0.323	-3.906
Pik3cg	0.320	8.678	2.323	0.043	0.323	-3.907
Gm10080	-0.427	8.493	-2.323	0.043	0.323	-3.907
Pirt	-1.031	9.018	-2.323	0.043	0.323	-3.907
Pcdh17	0.284	7.945	2.323	0.043	0.323	-3.907
Rnf144a	0.342	7.561	2.323	0.043	0.323	-3.908
Rpl10	-0.285	13.279	-2.322	0.043	0.323	-3.908
Ppp2r5a	-0.298	11.184	-2.322	0.043	0.323	-3.909
Gm12138	-0.281	7.075	-2.322	0.043	0.323	-3.909
Lrig2	0.251	9.428	2.321	0.043	0.323	-3.910
2310007B03Rik	0.633	6.893	2.321	0.043	0.323	-3.910
Vsig1	-1.958	13.402	-2.321	0.043	0.323	-3.910
Tmem37	0.746	7.382	2.321	0.043	0.323	-3.910
Scn3b	-0.285	6.787	-2.321	0.043	0.323	-3.910
Baz2b	0.314	10.900	2.321	0.043	0.323	-3.910
Gm9493	-0.314	7.549	-2.321	0.043	0.323	-3.911

Sqrd1	-0.807	12.665	-2.320	0.043	0.323	-3.912
Ndufb4	-0.342	9.569	-2.320	0.043	0.323	-3.912
Gdi1	-0.316	11.531	-2.320	0.043	0.323	-3.912
Me1	-0.677	13.619	-2.319	0.043	0.323	-3.913
1700040I03Rik	-0.249	8.311	-2.319	0.043	0.323	-3.913
4930528F23Rik	0.254	6.478	2.319	0.043	0.323	-3.914
Parp14	0.851	10.309	2.319	0.043	0.323	-3.914
Trib1	0.506	10.371	2.317	0.043	0.324	-3.916
Sult6b1	0.246	6.684	2.317	0.043	0.324	-3.917
Gm10177	-0.209	8.765	-2.317	0.043	0.324	-3.917
Pcdhb4	0.476	7.309	2.316	0.043	0.324	-3.917
Tlr8	0.337	7.374	2.316	0.043	0.324	-3.918
Gm13034	0.329	7.255	2.316	0.043	0.324	-3.918
Gm17023	-0.268	6.640	-2.316	0.043	0.324	-3.918
Gad2	0.582	7.544	2.316	0.043	0.324	-3.918
Ltf	2.563	10.102	2.315	0.043	0.324	-3.919
Nrtn	-0.266	7.220	-2.315	0.043	0.324	-3.919
Tpbg	0.301	7.249	2.315	0.043	0.324	-3.919
Fam187b	0.276	7.587	2.315	0.043	0.324	-3.920
Cep72	0.580	8.270	2.315	0.043	0.324	-3.920
Tymp	1.353	7.746	2.315	0.043	0.324	-3.920
Cacna1c	-0.582	7.927	-2.315	0.043	0.324	-3.920
Gpr88	-0.301	6.734	-2.315	0.043	0.324	-3.920
Dpy1914	0.216	10.269	2.313	0.043	0.324	-3.922
Six5	-0.432	8.030	-2.313	0.043	0.324	-3.922
Dnahc2	0.345	6.962	2.313	0.043	0.324	-3.923
Nfatc4	-0.392	8.050	-2.313	0.043	0.324	-3.923
Gm20708	-0.238	6.549	-2.312	0.043	0.324	-3.923
Scn1a	-0.290	6.496	-2.312	0.043	0.324	-3.923
Ldlrad3	-0.404	8.637	-2.312	0.043	0.324	-3.923
Rps11	-0.203	12.595	-2.312	0.043	0.324	-3.924
Rundc3b	0.565	7.671	2.311	0.043	0.325	-3.925
Speg	-0.642	8.098	-2.311	0.043	0.325	-3.926
Gm6682	0.233	6.811	2.311	0.043	0.325	-3.926
Isl1	-0.628	8.262	-2.310	0.044	0.325	-3.926
Brcc3	-0.214	10.517	-2.310	0.044	0.325	-3.927
Eltf1	0.526	8.804	2.310	0.044	0.325	-3.927
Lhfp15	-0.239	6.471	-2.310	0.044	0.325	-3.927
Ptpn4	0.334	8.856	2.310	0.044	0.325	-3.927
AC073565.3	0.288	6.629	2.309	0.044	0.325	-3.929
Cdkn3	-0.301	8.254	-2.309	0.044	0.325	-3.929
Prpf18	0.176	10.870	2.308	0.044	0.325	-3.930
Ptch1	0.424	9.144	2.308	0.044	0.325	-3.930
Gmpr	-0.452	7.428	-2.308	0.044	0.325	-3.930
Bex1	-0.450	6.847	-2.308	0.044	0.325	-3.931
Foxj2	-0.440	9.480	-2.308	0.044	0.325	-3.931
Gm15774	-0.293	7.053	-2.307	0.044	0.325	-3.932
Lama5	0.535	9.635	2.307	0.044	0.325	-3.932
Gabrb2	-0.514	6.609	-2.307	0.044	0.325	-3.932
Tmem57	-0.434	10.980	-2.307	0.044	0.325	-3.932

Insig1	0.581	13.083	2.307	0.044	0.325	-3.932
Coll18a1	1.027	11.849	2.306	0.044	0.325	-3.933
Trim65	-0.360	9.006	-2.306	0.044	0.325	-3.933
Tube4	0.227	9.517	2.306	0.044	0.325	-3.933
Cyp2c44	-1.250	9.159	-2.306	0.044	0.325	-3.934
Ttf2	0.342	8.769	2.305	0.044	0.325	-3.934
Scrn1	-0.465	7.706	-2.305	0.044	0.325	-3.935
Escr	0.673	8.629	2.305	0.044	0.325	-3.935
Mxl	-0.464	8.535	-2.305	0.044	0.325	-3.936
Poc5	-0.325	9.475	-2.303	0.044	0.326	-3.937
Tnfrsf10	0.560	8.582	2.303	0.044	0.326	-3.938
Tnfr1	-0.933	11.352	-2.303	0.044	0.326	-3.938
Amdhd2	0.539	8.588	2.302	0.044	0.326	-3.940
Zfp111	-0.318	9.071	-2.302	0.044	0.326	-3.940
Uaca	0.430	11.237	2.302	0.044	0.326	-3.940
AL670114.1	0.766	7.499	2.301	0.044	0.327	-3.941
Plekha2	0.323	11.066	2.301	0.044	0.327	-3.942
Erf	0.224	9.727	2.300	0.044	0.327	-3.942
AC147162.1	0.270	6.486	2.300	0.044	0.327	-3.943
Foxn2	-0.244	10.334	-2.299	0.044	0.327	-3.944
Cttnb11	0.188	10.005	2.299	0.044	0.327	-3.945
AC120404.3	0.862	7.368	2.298	0.044	0.327	-3.945
Eme1	0.208	7.559	2.298	0.044	0.327	-3.945
Ccdc66	0.198	9.166	2.298	0.044	0.327	-3.946
Trim58	-0.397	7.043	-2.298	0.044	0.327	-3.946
Gripap1	-0.213	10.212	-2.298	0.044	0.327	-3.946
Gm12482	0.246	7.242	2.298	0.044	0.327	-3.946
2700078E11Rik	0.230	11.024	2.298	0.044	0.327	-3.946
Il20rb	0.276	7.512	2.297	0.045	0.327	-3.947
Cd38	1.282	9.901	2.297	0.045	0.327	-3.947
Gm13420	-0.363	6.857	-2.297	0.045	0.327	-3.947
Cyp4f40	1.317	8.180	2.297	0.045	0.327	-3.947
Oas3	0.448	7.146	2.297	0.045	0.327	-3.948
Klra4	-0.696	6.758	-2.296	0.045	0.327	-3.948
A21d1	0.241	10.422	2.296	0.045	0.327	-3.948
Kcna6	-0.613	6.879	-2.295	0.045	0.328	-3.950
Tapt1	-0.226	10.502	-2.295	0.045	0.328	-3.950
3110043021Rik	-0.430	9.719	-2.295	0.045	0.328	-3.950
Tmem52	-0.226	6.464	-2.293	0.045	0.328	-3.953
Aebp2	0.205	10.739	2.293	0.045	0.328	-3.953
Picalm	0.282	12.756	2.293	0.045	0.328	-3.953
Zfp579	-0.495	8.494	-2.293	0.045	0.328	-3.953
Lias	0.246	10.320	2.292	0.045	0.329	-3.955
Csf3	0.277	6.490	2.292	0.045	0.329	-3.956
Sec1414	-0.654	7.093	-2.291	0.045	0.329	-3.956
Fstl1	0.654	11.242	2.291	0.045	0.329	-3.957
Pttglip	-0.564	12.727	-2.291	0.045	0.329	-3.957
Megf9	-0.222	8.728	-2.290	0.045	0.329	-3.958
Rsf1	0.208	10.954	2.290	0.045	0.329	-3.958
Nmnat2	-0.315	7.015	-2.290	0.045	0.329	-3.958

Cd83	0.407	7.545	2.290	0.045	0.329	-3.959
Gm10562	0.254	6.478	2.289	0.045	0.329	-3.959
Lipa	0.829	11.060	2.289	0.045	0.329	-3.959
Pou2f2	0.413	6.845	2.289	0.045	0.329	-3.959
Dtx3l	0.727	9.951	2.289	0.045	0.329	-3.959
Dhrs3	-0.463	10.968	-2.289	0.045	0.329	-3.959
Hpcal1	-0.329	10.150	-2.289	0.045	0.329	-3.960
Klrb1f	0.262	6.482	2.289	0.045	0.329	-3.960
Dap	-0.514	11.066	-2.289	0.045	0.329	-3.960
Zfyve9	0.387	9.818	2.289	0.045	0.329	-3.960
Ktn1	0.250	11.137	2.289	0.045	0.329	-3.960
Sipal	0.285	8.113	2.288	0.045	0.329	-3.961
Pck2	-0.411	9.184	-2.288	0.045	0.329	-3.961
Gpr97	0.293	7.008	2.288	0.045	0.329	-3.962
Gm4963	-0.285	8.940	-2.288	0.045	0.329	-3.962
Rims3	-0.315	6.909	-2.287	0.045	0.329	-3.962
Fer116	-1.040	11.813	-2.287	0.045	0.329	-3.963
2210408F21Rik	-0.288	7.337	-2.286	0.045	0.329	-3.964
Sidt2	0.378	10.381	2.286	0.045	0.329	-3.964
Snord72	0.380	7.066	2.286	0.045	0.329	-3.965
Klh17	-0.243	10.215	-2.286	0.045	0.329	-3.965
Elov17	-0.850	12.236	-2.286	0.045	0.329	-3.965
Rhbd12	-0.906	9.871	-2.285	0.045	0.329	-3.965
D17Wsu104e	-0.283	11.862	-2.285	0.045	0.329	-3.966
Cd22	0.367	7.161	2.285	0.045	0.329	-3.966
Klh130	-0.361	6.850	-2.284	0.046	0.329	-3.967
Gm10288	-0.301	10.355	-2.284	0.046	0.329	-3.968
Ttc21a	0.215	6.459	2.284	0.046	0.329	-3.968
Nup214	0.211	9.218	2.284	0.046	0.329	-3.968
AL683847.1	0.224	6.495	2.283	0.046	0.329	-3.968
Ccr8	0.239	6.471	2.283	0.046	0.329	-3.968
Slc8a2	-0.577	7.011	-2.283	0.046	0.330	-3.969
Ccdc28b	-0.436	8.404	-2.283	0.046	0.330	-3.969
Slc9a6	-0.476	10.528	-2.282	0.046	0.330	-3.970
Fam171b	-0.386	7.820	-2.282	0.046	0.330	-3.971
Lrrc16a	0.308	10.515	2.281	0.046	0.330	-3.972
Dgcr2	-0.205	10.670	-2.281	0.046	0.330	-3.972
A530017D24Rik	-0.389	8.695	-2.281	0.046	0.330	-3.972
Gm17179	0.313	6.632	2.281	0.046	0.330	-3.972
Gm11611	-0.218	6.460	-2.280	0.046	0.330	-3.973
Suv39h1	0.359	8.684	2.280	0.046	0.330	-3.974
Tspan17	0.433	8.202	2.280	0.046	0.330	-3.974
AC165356.1	0.629	6.839	2.279	0.046	0.330	-3.975
Dusp1	0.613	9.292	2.279	0.046	0.330	-3.975
A630023P12Rik	0.248	6.476	2.279	0.046	0.330	-3.975
Socs7	-0.214	10.018	-2.278	0.046	0.330	-3.976
Thyn1	-0.207	8.803	-2.278	0.046	0.330	-3.976
Fzd5	-0.731	11.882	-2.278	0.046	0.331	-3.977
Ralbp1	-0.250	11.729	-2.277	0.046	0.331	-3.977
Bclaf1	0.216	12.306	2.277	0.046	0.331	-3.978

Lrrc58	-0.293	11.130	-2.277	0.046	0.331	-3.978
Snap23	-0.159	11.603	-2.277	0.046	0.331	-3.978
Adcy1	-0.540	7.612	-2.276	0.046	0.331	-3.979
Bbs1	0.246	7.590	2.276	0.046	0.331	-3.980
Ftl1	-0.522	13.235	-2.275	0.046	0.331	-3.980
A530016L24Rik	-0.257	6.480	-2.275	0.046	0.331	-3.981
Trerf1	-0.681	8.492	-2.275	0.046	0.331	-3.982
Upkla	-0.420	7.150	-2.274	0.046	0.331	-3.982
Lrrc26	-0.513	10.082	-2.274	0.046	0.331	-3.982
Rictor	0.230	10.205	2.274	0.046	0.331	-3.982
Fyn	0.304	8.323	2.274	0.046	0.331	-3.982
Ipol3	-0.401	9.142	-2.274	0.046	0.331	-3.983
Gm12492	-0.221	6.641	-2.274	0.046	0.331	-3.983
Strn3	-0.256	11.454	-2.274	0.046	0.331	-3.983
Tagln2	-0.806	13.896	-2.273	0.046	0.331	-3.983
Grial	-0.688	6.934	-2.273	0.046	0.331	-3.984
Tesk1	0.183	9.217	2.273	0.046	0.331	-3.984
Pcyox1	-0.239	11.977	-2.273	0.046	0.331	-3.985
Card11	0.617	7.487	2.272	0.046	0.331	-3.985
Zfp61	-0.324	8.253	-2.272	0.046	0.331	-3.985
Ensa	0.254	11.418	2.272	0.046	0.331	-3.986
Gpr183	0.298	7.154	2.272	0.047	0.331	-3.986
Efcab5	0.566	7.273	2.272	0.047	0.331	-3.986
Cldn5	-0.463	7.201	-2.271	0.047	0.331	-3.987
Plac9	-0.551	7.271	-2.271	0.047	0.331	-3.987
Tmco4	0.380	9.273	2.271	0.047	0.331	-3.988
Psg25	0.398	6.628	2.271	0.047	0.331	-3.988
Mcpt9	0.241	6.526	2.271	0.047	0.331	-3.988
Rs11	-0.305	8.056	-2.271	0.047	0.331	-3.988
Gm12974	-0.217	6.460	-2.270	0.047	0.331	-3.989
Nkain1	0.963	9.013	2.270	0.047	0.331	-3.989
Parp8	0.244	8.045	2.269	0.047	0.332	-3.990
Lrrc8e	-0.787	9.481	-2.269	0.047	0.332	-3.990
Rars	0.304	11.460	2.269	0.047	0.332	-3.991
Cab39	-0.383	13.180	-2.268	0.047	0.332	-3.991
Tgm2	0.839	11.120	2.268	0.047	0.332	-3.991
2410066E13Rik	-0.357	7.803	-2.268	0.047	0.332	-3.992
Adprh12	-0.252	9.134	-2.268	0.047	0.332	-3.992
Pde4c	-0.466	8.272	-2.268	0.047	0.332	-3.993
Gm10025	0.267	7.429	2.268	0.047	0.332	-3.993
Srd5a1	0.741	8.776	2.267	0.047	0.332	-3.993
Nlrplc	0.392	6.796	2.267	0.047	0.332	-3.993
Gm15898	0.345	6.612	2.267	0.047	0.332	-3.994
Cpped1	0.303	10.870	2.267	0.047	0.332	-3.994
Zfpm2	-0.393	6.779	-2.267	0.047	0.332	-3.994
Arhgef11	0.307	10.163	2.267	0.047	0.332	-3.994
Cnm3	-0.205	8.866	-2.266	0.047	0.332	-3.994
Asphd1	-0.256	6.634	-2.266	0.047	0.332	-3.995
B3galt1	0.379	9.069	2.266	0.047	0.332	-3.995
6330409D20Rik	0.220	6.461	2.265	0.047	0.332	-3.996

Gm16135	0.233	6.468	2.264	0.047	0.332	-3.997
Slc40a1	2.813	11.391	2.264	0.047	0.332	-3.998
Arsb	-0.318	9.879	-2.264	0.047	0.332	-3.998
4933404M02Rik	0.358	7.386	2.264	0.047	0.332	-3.998
Cadps	-0.551	7.252	-2.264	0.047	0.332	-3.999
Oraov1	-0.270	9.815	-2.263	0.047	0.332	-3.999
A330041J22Rik	-0.237	6.533	-2.263	0.047	0.332	-4.000
Lman2	-0.180	12.370	-2.263	0.047	0.332	-4.000
Reck	-0.344	7.729	-2.263	0.047	0.332	-4.000
Rnf208	-0.562	7.508	-2.263	0.047	0.332	-4.000
Rdh11	0.365	10.161	2.262	0.047	0.333	-4.001
Gm9920	-0.292	7.549	-2.262	0.047	0.333	-4.001
Slc25a22	0.604	8.868	2.261	0.047	0.333	-4.002
Colec12	0.701	9.382	2.261	0.047	0.333	-4.002
AC122379.1	0.219	6.461	2.261	0.047	0.333	-4.002
4933440N22Rik	0.309	6.680	2.261	0.047	0.333	-4.002
Galnt13	-0.239	6.912	-2.261	0.047	0.333	-4.003
Rasgef1b	-0.734	11.272	-2.261	0.047	0.333	-4.003
Lrp12	0.261	8.602	2.261	0.047	0.333	-4.003
Prr5	0.371	8.690	2.261	0.047	0.333	-4.003
Atp6ap1	-0.205	12.111	-2.260	0.047	0.333	-4.004
Bag2	-0.499	8.492	-2.260	0.047	0.333	-4.005
Gm12750	0.872	8.817	2.259	0.047	0.333	-4.006
AC125010.1	0.137	6.420	2.259	0.048	0.333	-4.006
Serinc2	-0.461	12.064	-2.259	0.048	0.333	-4.006
Fbxo41	-0.241	6.532	-2.259	0.048	0.333	-4.006
Gm10086	-0.222	6.496	-2.258	0.048	0.333	-4.007
Numb1	-0.359	7.934	-2.258	0.048	0.333	-4.007
AL589670.1	-0.185	6.573	-2.258	0.048	0.333	-4.007
Cenpl	0.266	8.462	2.258	0.048	0.333	-4.008
Calr	-0.540	16.113	-2.258	0.048	0.333	-4.008
Wisp2	0.678	7.163	2.257	0.048	0.333	-4.009
Far1	-1.466	13.897	-2.257	0.048	0.333	-4.009
Idh3a	0.266	11.769	2.256	0.048	0.334	-4.010
Cend1	-0.400	7.163	-2.256	0.048	0.334	-4.010
Top2a	0.558	12.252	2.255	0.048	0.334	-4.011
Adam15	-0.481	9.783	-2.255	0.048	0.334	-4.012
Sult1a1	-0.518	7.973	-2.255	0.048	0.334	-4.012
Mamdc2	-0.777	7.860	-2.254	0.048	0.334	-4.013
Igkv5-39	0.846	7.079	2.254	0.048	0.334	-4.014
Mtap	-0.457	9.467	-2.253	0.048	0.334	-4.015
D730003I15Rik	-0.210	7.404	-2.253	0.048	0.334	-4.015
Plk4	0.390	9.314	2.253	0.048	0.334	-4.016
Gm7292	0.324	10.120	2.253	0.048	0.334	-4.016
Ras112	-0.406	7.310	-2.252	0.048	0.334	-4.016
Nfs1	-0.193	9.940	-2.252	0.048	0.334	-4.016
Gm17509	-0.325	6.638	-2.252	0.048	0.335	-4.017
Lrrc42	-0.337	9.262	-2.252	0.048	0.335	-4.017
Rpl17-ps5	-0.535	7.862	-2.251	0.048	0.335	-4.017
Isoc2a	-0.560	9.424	-2.251	0.048	0.335	-4.018

Cda	1.474	8.588	2.251	0.048	0.335	-4.018
D6Wsu116e	0.255	10.919	2.250	0.048	0.335	-4.019
Gm10244	-0.246	6.527	-2.250	0.048	0.335	-4.019
Cdc23	-0.205	9.790	-2.250	0.048	0.335	-4.019
Mrgprx2	-0.304	6.503	-2.250	0.048	0.335	-4.020
Morn4	-0.273	7.034	-2.250	0.048	0.335	-4.020
Sgsm3	-0.400	10.479	-2.249	0.048	0.335	-4.021
Gm5506	0.301	9.413	2.249	0.048	0.335	-4.022
Gm5546	-0.210	6.456	-2.249	0.048	0.335	-4.022
Aurkaip1	-0.289	10.443	-2.248	0.048	0.335	-4.022
AU041133	0.282	7.560	2.248	0.048	0.335	-4.022
Ccl3	0.374	6.701	2.248	0.048	0.335	-4.023
Nudt2	-0.318	8.784	-2.247	0.048	0.336	-4.024
Aatk	-0.551	7.185	-2.247	0.048	0.336	-4.024
Acox2	-0.677	7.833	-2.247	0.048	0.336	-4.024
Cacna2d3	-0.329	6.908	-2.247	0.049	0.336	-4.025
Cd55	0.397	11.883	2.246	0.049	0.336	-4.025
Exoc8	-0.206	9.723	-2.246	0.049	0.336	-4.025
Bcl11b	0.666	8.689	2.246	0.049	0.336	-4.026
Sgcg	-0.238	6.470	-2.246	0.049	0.336	-4.026
Stxbp2	-0.296	12.116	-2.246	0.049	0.336	-4.026
Ints9	0.265	8.723	2.246	0.049	0.336	-4.026
Eci3	0.665	7.712	2.245	0.049	0.336	-4.027
Amph	-0.347	6.904	-2.245	0.049	0.336	-4.027
Cacnals	0.325	6.672	2.245	0.049	0.336	-4.028
Cblb	-0.367	9.621	-2.244	0.049	0.336	-4.028
Smad5	0.221	10.617	2.244	0.049	0.336	-4.029
Sec14l2	1.172	8.615	2.243	0.049	0.336	-4.030
Ighv3-8	1.267	7.568	2.243	0.049	0.336	-4.031
Fam150a	-0.357	6.668	-2.242	0.049	0.336	-4.031
Rheb	-0.192	11.062	-2.242	0.049	0.337	-4.032
Adhfe1	-0.616	8.012	-2.242	0.049	0.337	-4.032
Cysltr2	0.338	6.877	2.242	0.049	0.337	-4.032
Fgfr1op2	-0.195	11.624	-2.241	0.049	0.337	-4.033
Lpar4	-0.350	7.228	-2.241	0.049	0.337	-4.033
Fcgrt	0.937	10.317	2.241	0.049	0.337	-4.034
Gm8121	-0.333	7.567	-2.241	0.049	0.337	-4.034
Pik3c2b	0.268	10.709	2.240	0.049	0.337	-4.035
BC017643	-0.247	9.773	-2.240	0.049	0.337	-4.035
Rpl13-ps1	-0.148	6.487	-2.239	0.049	0.337	-4.036
Ccdc159	-0.337	7.025	-2.239	0.049	0.337	-4.036
Chrna3	-0.579	6.870	-2.239	0.049	0.337	-4.037
Tmem164	-0.713	12.272	-2.239	0.049	0.337	-4.037
Zkscan4	-0.239	7.145	-2.238	0.049	0.337	-4.037
Ccnel	0.392	8.136	2.238	0.049	0.337	-4.037
Nagk	-0.224	10.031	-2.238	0.049	0.337	-4.038
1700021J08Rik	0.333	6.875	2.238	0.049	0.337	-4.038
F630043A04Rik	0.295	8.229	2.238	0.049	0.337	-4.038
Ubxn1	-0.541	12.067	-2.238	0.049	0.337	-4.038
Kif2c	0.424	9.059	2.238	0.049	0.337	-4.039

Radil	-0.291	6.610	-2.237	0.049	0.337	-4.039
Ddt	-0.269	8.747	-2.237	0.049	0.337	-4.039
Txnip	-0.367	13.802	-2.237	0.049	0.337	-4.039
Jph4	-0.386	7.079	-2.237	0.049	0.337	-4.040
Pclo	-0.183	7.451	-2.237	0.049	0.337	-4.040
Arpc3	-0.280	12.180	-2.237	0.049	0.337	-4.040
Tmem175	0.278	8.612	2.237	0.049	0.337	-4.040
Rnf138	-0.266	9.759	-2.236	0.049	0.337	-4.040
Prr151	-0.234	11.624	-2.236	0.049	0.337	-4.040
Hspd1	0.384	13.185	2.236	0.049	0.337	-4.041
I118rap	1.295	8.236	2.236	0.049	0.337	-4.041
Ccdc11	-0.203	6.453	-2.236	0.049	0.337	-4.041
Stam	-0.208	10.458	-2.236	0.049	0.337	-4.042
Tank	0.239	10.217	2.235	0.049	0.337	-4.042
BC029214	-0.352	8.683	-2.234	0.050	0.337	-4.043
Gm14537	-0.262	6.546	-2.234	0.050	0.338	-4.045
BC024978	-0.176	8.144	-2.234	0.050	0.338	-4.045
Ficd	-0.357	8.488	-2.233	0.050	0.338	-4.045
Clec4a3	0.397	7.521	2.233	0.050	0.338	-4.046
Mospd1	0.446	9.592	2.231	0.050	0.339	-4.048
Cxcl1	1.585	7.941	2.231	0.050	0.339	-4.049
Aes	-0.310	12.261	-2.231	0.050	0.339	-4.049
Gm4978	-0.137	6.420	-2.231	0.050	0.339	-4.049
5730409E04Rik	-0.324	8.362	-2.230	0.050	0.339	-4.050
Greb11	0.654	8.721	2.230	0.050	0.339	-4.050
Ranbp3	-0.279	10.098	-2.230	0.050	0.339	-4.050
Dnase1	0.386	6.934	2.230	0.050	0.339	-4.051
1700034H14Rik	0.185	9.417	2.229	0.050	0.339	-4.051

Table S5. Differential expression of genes in GSE13873

Symbol	logFC	AveExpr	t	P. Value	adj. P. Val	B
Pigr	6.005	11.384	24.271	0.000	0.000	19.465
Nfkbiz	2.558	10.078	16.166	0.000	0.000	15.492
Tnfsf12	3.024	8.239	13.964	0.000	0.000	13.797
Sftpd	4.716	10.096	12.686	0.000	0.000	12.631
Trp53bp1	1.413	7.350	11.870	0.000	0.000	11.807
Clca2	5.404	7.998	11.549	0.000	0.000	11.463
Clca1	5.172	7.599	10.957	0.000	0.000	10.799
Dock11	2.614	9.463	10.515	0.000	0.000	10.278
Dmbt1	3.527	12.935	10.307	0.000	0.000	10.024
Cd177	5.345	10.003	9.077	0.000	0.000	8.406
Tomm201	-1.145	4.356	-8.859	0.000	0.000	8.098
Zc3h12a	2.005	7.113	8.635	0.000	0.000	7.774
Tnfsf13os	2.318	7.080	8.270	0.000	0.000	7.230
Ptprc	2.696	8.039	8.258	0.000	0.000	7.212
Prl3d1	-1.075	5.125	-8.211	0.000	0.000	7.142
Duoxa2	1.895	7.245	7.984	0.000	0.000	6.791
Gimap8	2.078	5.935	7.403	0.000	0.001	5.859
Fyb	1.548	7.093	7.104	0.000	0.002	5.357
Taf2	0.733	6.936	7.078	0.000	0.002	5.314
Ranbp31	-1.591	4.968	-7.009	0.000	0.002	5.195
Gzmc	-0.715	2.775	-6.960	0.000	0.002	5.112
Birc3	1.470	8.557	6.906	0.000	0.002	5.019
Rc3h1	0.933	8.647	6.904	0.000	0.002	5.016
A930002I21Rik	-0.907	3.253	-6.886	0.000	0.002	4.984
Gm15455	1.357	8.475	6.873	0.000	0.002	4.962
Clstn2	-1.071	5.000	-6.831	0.000	0.002	4.888
Gdf9	-1.917	5.503	-6.801	0.000	0.002	4.836
Angpt1	-0.833	3.885	-6.719	0.000	0.003	4.693
Vill	2.303	9.664	6.687	0.000	0.003	4.636
Cyba	2.025	9.667	6.681	0.000	0.003	4.625
LOC102635622	-0.797	4.446	-6.629	0.000	0.003	4.533
Dtna	-1.430	4.661	-6.608	0.000	0.003	4.496
Cebpa	1.319	7.759	6.518	0.000	0.003	4.337
Prdx6	1.246	11.010	6.507	0.000	0.003	4.316
Tspan14	0.992	8.823	6.488	0.000	0.003	4.282
Kcng2	-0.735	5.188	-6.476	0.000	0.003	4.261
Plscr1	1.592	8.180	6.452	0.000	0.003	4.218
Yeats2	1.275	6.170	6.403	0.000	0.003	4.129
Ikbke	1.119	6.547	6.386	0.000	0.003	4.099
Apobec3	1.760	8.603	6.331	0.000	0.004	3.998
Unc5c1	1.467	6.795	6.329	0.000	0.004	3.995
Rgs2	1.129	7.139	6.322	0.000	0.004	3.982
Sh3bp2	1.096	5.787	6.314	0.000	0.004	3.968
Slc26a7	-1.648	4.808	-6.314	0.000	0.004	3.968
Igh-VJ558	4.851	12.229	6.301	0.000	0.004	3.944
Btf3	0.818	9.880	6.265	0.000	0.004	3.878
Gas5	1.056	10.027	6.263	0.000	0.004	3.874

Prdm2	0.899	6.996	6.254	0.000	0.004	3.859
Gper1	-2.591	5.581	-6.251	0.000	0.004	3.852
Scrn1	-0.758	5.218	-6.220	0.000	0.004	3.796
Naip5	3.921	7.050	6.216	0.000	0.004	3.788
Casp4	2.930	6.611	6.211	0.000	0.004	3.779
Pop1	1.269	5.101	6.209	0.000	0.004	3.776
2210416015Rik	-0.811	5.764	-6.201	0.000	0.004	3.762
Ero11b	-1.941	6.012	-6.160	0.000	0.004	3.685
2810474C18Rik	-0.736	3.159	-6.157	0.000	0.004	3.679
Stk32b	-1.995	4.408	-6.141	0.000	0.004	3.651
Plekha2	1.039	9.761	6.047	0.000	0.004	3.477
Fam13b	0.656	8.296	6.042	0.000	0.004	3.466
Tgfb1	1.330	6.159	6.039	0.000	0.004	3.461
Sostdc1	-3.020	3.920	-6.036	0.000	0.004	3.455
Wdr43	0.965	7.430	6.004	0.000	0.005	3.396
Pglyrp1	3.033	9.380	5.969	0.000	0.005	3.331
Fkbp6	-1.148	5.993	-5.968	0.000	0.005	3.328
Igbp1	-1.544	6.602	-5.937	0.000	0.005	3.271
Rnf149	-0.874	10.102	-5.917	0.000	0.005	3.232
Cnpy4	0.804	7.119	5.908	0.000	0.005	3.215
Zcchc12	-0.873	5.966	-5.905	0.000	0.005	3.210
4933407I05Rik	-0.761	3.377	-5.895	0.000	0.005	3.191
Hdac11	-1.092	6.666	-5.889	0.000	0.005	3.181
Alg8	0.794	7.782	5.888	0.000	0.005	3.179
Rnf167	-0.865	7.983	-5.878	0.000	0.005	3.159
A930017M01Rik	-0.834	3.219	-5.877	0.000	0.005	3.158
Tjp3	0.782	9.697	5.862	0.000	0.005	3.130
Pabpn1	1.040	6.517	5.857	0.000	0.005	3.120
Pccb	-0.918	8.513	-5.827	0.000	0.005	3.063
Tlr1	1.669	5.549	5.821	0.000	0.005	3.052
4932702P03Rik	-0.677	2.905	-5.821	0.000	0.005	3.052
Steap1	1.666	7.403	5.800	0.000	0.006	3.011
Lifr	-1.748	6.216	-5.789	0.000	0.006	2.991
Calr3	-1.187	3.611	-5.786	0.000	0.006	2.986
Coro6	-0.716	3.159	-5.768	0.000	0.006	2.951
Kcnf1	-0.969	5.194	-5.764	0.000	0.006	2.944
Blm	-1.526	5.916	-5.759	0.000	0.006	2.933
Nucks1	0.553	10.447	5.754	0.000	0.006	2.924
1810007D17Rik	-0.971	3.015	-5.736	0.000	0.006	2.890
Dok1	1.146	6.390	5.725	0.000	0.006	2.869
Igj	5.601	9.714	5.725	0.000	0.006	2.869
Dusp14	-0.902	6.191	-5.711	0.000	0.006	2.843
Armc9	-0.598	3.226	-5.708	0.000	0.006	2.837
Slc9b2	-1.242	5.243	-5.703	0.000	0.006	2.827
LOC102634389	-0.844	5.025	-5.696	0.000	0.006	2.814
Esx1	-0.607	3.232	-5.666	0.000	0.006	2.757
Hykk	-1.312	5.443	-5.627	0.000	0.007	2.681
Gm7173	-0.490	2.524	-5.621	0.000	0.007	2.669
4930527J03Rik	-0.686	4.753	-5.617	0.000	0.007	2.663
Gar1	1.077	8.442	5.615	0.000	0.007	2.658

Nono	0.688	9.649	5.603	0.000	0.007	2.635
Slc29a4	-0.696	3.229	-5.603	0.000	0.007	2.635
Mthfr	-0.871	3.522	-5.586	0.000	0.007	2.602
Wnt11	1.156	7.353	5.565	0.000	0.007	2.562
1110038B12Rik	1.213	8.372	5.560	0.000	0.007	2.552
F2r	1.493	7.242	5.559	0.000	0.007	2.550
Zdhhc18	1.134	7.348	5.552	0.000	0.007	2.537
Nap111	1.468	7.998	5.538	0.000	0.007	2.509
Sstr2	-1.931	6.000	-5.533	0.000	0.007	2.501
Ftmt	-0.675	3.363	-5.522	0.000	0.007	2.479
Ydjc	0.877	6.818	5.511	0.000	0.007	2.457
Rab6b	-1.187	4.202	-5.499	0.000	0.007	2.434
Tmem158	1.336	6.675	5.485	0.000	0.007	2.408
Lrch1	0.583	7.483	5.482	0.000	0.007	2.402
Snhg1	1.496	7.701	5.467	0.000	0.008	2.372
Gss	0.679	9.009	5.461	0.000	0.008	2.360
Nudt10	-0.876	3.598	-5.456	0.000	0.008	2.351
Bak1	1.253	7.911	5.453	0.000	0.008	2.344
Amot12	-1.215	6.884	-5.444	0.000	0.008	2.327
Tmc5	1.700	8.059	5.442	0.000	0.008	2.323
1810013A23Rik	-0.605	4.867	-5.426	0.000	0.008	2.291
Hdac1	0.685	9.667	5.425	0.000	0.008	2.291
Arhgef33	-0.636	3.091	-5.410	0.000	0.008	2.262
Pxylp1	-1.071	7.867	-5.404	0.000	0.008	2.250
BC049762	-0.936	4.119	-5.400	0.000	0.008	2.242
Syt17	-0.802	4.207	-5.398	0.000	0.008	2.238
Ttc9	1.970	5.096	5.388	0.000	0.008	2.218
Adamts11	-0.706	3.173	-5.387	0.000	0.008	2.215
D3Ert751e	-0.644	3.489	-5.356	0.000	0.008	2.155
Lnx1	-0.881	6.874	-5.354	0.000	0.008	2.152
Neurog2	-0.797	3.471	-5.354	0.000	0.008	2.151
Bend7	-0.818	3.409	-5.351	0.000	0.008	2.145
Lefty1	-0.840	6.028	-5.343	0.000	0.009	2.129
Slc36a1os	-0.880	4.120	-5.335	0.000	0.009	2.115
4930500G05Rik	-0.625	4.298	-5.334	0.000	0.009	2.113
Isg2012	0.742	7.760	5.307	0.000	0.009	2.060
Egf	-2.620	4.887	-5.295	0.000	0.009	2.035
2210409E12Rik	-1.126	3.544	-5.294	0.000	0.009	2.033
Pum2	0.728	9.167	5.291	0.000	0.009	2.027
Igk-V28	4.637	11.792	5.290	0.000	0.009	2.026
Atoh8	-0.668	5.323	-5.286	0.000	0.009	2.019
Nr2f1	0.683	2.966	5.283	0.000	0.009	2.012
Mgat4a	0.656	8.938	5.274	0.000	0.009	1.994
Gatm	1.032	5.506	5.256	0.000	0.009	1.959
Prss44	-0.848	5.914	-5.255	0.000	0.009	1.956
Med20	0.774	7.671	5.239	0.000	0.010	1.927
Utp6	1.052	6.704	5.226	0.000	0.010	1.900
Gm12888	-2.976	4.262	-5.224	0.000	0.010	1.895
Fam124a	1.168	6.340	5.211	0.000	0.010	1.871
Tjp2	0.581	9.551	5.209	0.000	0.010	1.865

Fam174b	-0.561	8.853	-5.207	0.000	0.010	1.862
Ceacam13	-0.609	2.480	-5.198	0.000	0.010	1.844
Gm10362	0.568	12.400	5.190	0.000	0.010	1.829
2410006H16Rik	1.224	8.450	5.178	0.000	0.010	1.806
Paqr8	0.609	8.263	5.170	0.000	0.010	1.790
Tcl1b4	-0.646	5.868	-5.161	0.000	0.011	1.771
Rac2	1.270	7.026	5.153	0.000	0.011	1.756
Ccdc68	-1.132	7.213	-5.150	0.000	0.011	1.749
Csnk1g3	0.627	7.710	5.140	0.000	0.011	1.730
Tenc1	-0.746	6.887	-5.110	0.000	0.011	1.670
Wnt5a	0.819	4.729	5.107	0.000	0.011	1.665
Gm26745	-0.718	3.596	-5.098	0.000	0.012	1.646
Sh3pxd2b	0.923	7.843	5.095	0.000	0.012	1.640
Mnx1	-0.720	2.973	-5.090	0.000	0.012	1.630
Gng11	-0.676	6.163	-5.083	0.000	0.012	1.616
Cdcp1	0.782	9.533	5.077	0.000	0.012	1.605
Plek2	1.185	8.358	5.072	0.000	0.012	1.594
2300009A05Rik	-0.797	6.682	-5.063	0.000	0.012	1.576
AU022255	-0.618	4.682	-5.063	0.000	0.012	1.576
Der13	-1.601	7.118	-5.060	0.000	0.012	1.570
Slc6a9	0.848	9.134	5.057	0.000	0.012	1.565
Clnkos	-0.659	3.265	-5.055	0.000	0.012	1.561
Ctf1	-0.896	7.177	-5.054	0.000	0.012	1.559
Kdelr1	0.900	10.376	5.053	0.000	0.012	1.557
Nfkbia	0.887	11.560	5.053	0.000	0.012	1.556
Gimap1	0.944	4.447	5.051	0.000	0.012	1.554
Mpz11	1.435	7.310	5.049	0.000	0.012	1.549
Helz	1.035	6.153	5.027	0.000	0.012	1.504
Ythdc1	0.824	7.920	5.025	0.000	0.012	1.500
Tt114	0.595	6.782	5.021	0.000	0.012	1.493
Cdk14	-1.373	6.667	-5.020	0.000	0.012	1.491
Bcar1	0.464	8.868	5.018	0.000	0.012	1.488
Smpd13b	2.828	7.869	5.016	0.000	0.012	1.484
Kcnip3	-0.863	5.323	-5.014	0.000	0.012	1.480
Aldh112	-2.226	5.539	-5.014	0.000	0.012	1.479
Cd82	0.680	10.835	5.011	0.000	0.012	1.472
Lrg1	4.570	9.169	5.009	0.000	0.012	1.468
Osmr	3.018	7.185	5.008	0.000	0.012	1.467
Brd2	0.844	8.101	5.005	0.000	0.012	1.461
Hist3h2a	-0.517	8.046	-5.001	0.000	0.012	1.453
AI854703	-0.731	4.465	-4.992	0.000	0.012	1.435
Six4	-1.132	3.921	-4.990	0.000	0.012	1.432
Glt25d1	0.819	8.486	4.987	0.000	0.012	1.425
Gabbr1	-0.587	4.241	-4.986	0.000	0.012	1.422
Kremen1	-0.538	3.233	-4.982	0.000	0.012	1.414
Ivd	-0.912	8.405	-4.981	0.000	0.012	1.412
Cdk5rap2	-0.702	4.225	-4.978	0.000	0.012	1.407
AK007819	-0.773	3.344	-4.973	0.000	0.012	1.396
Prmt1	2.521	7.264	4.966	0.000	0.012	1.383
Hnrnpa2b1	0.542	10.985	4.964	0.000	0.012	1.378

4930415020Rik	1.392	7.075	4.964	0.000	0.012	1.378
4833413G10Rik	-0.817	4.918	-4.962	0.000	0.012	1.375
AA467197	1.459	11.882	4.962	0.000	0.012	1.374
Rab6a	1.213	8.138	4.962	0.000	0.012	1.374
Ssh2	1.010	7.391	4.958	0.000	0.012	1.367
Gm15498	-0.694	3.003	-4.952	0.000	0.012	1.354
Upf3b	0.699	7.480	4.950	0.000	0.012	1.351
Esrrg	-0.729	4.658	-4.946	0.000	0.012	1.343
Sntb1	-0.708	4.725	-4.939	0.000	0.013	1.328
Luc713	0.777	9.590	4.937	0.000	0.013	1.325
Pcdhb14	-0.798	2.898	-4.928	0.000	0.013	1.306
Tspan3	0.828	9.958	4.927	0.000	0.013	1.304
Klk1b16	-0.463	2.547	-4.912	0.000	0.013	1.275
Cldn8	-2.666	5.027	-4.911	0.000	0.013	1.272
Cd14	2.538	8.635	4.903	0.000	0.013	1.256
Slc25a29	-0.679	4.777	-4.898	0.000	0.013	1.245
Ier5	0.886	7.477	4.897	0.000	0.013	1.244
Snrpb2	0.609	8.841	4.891	0.000	0.013	1.232
A530083I20Rik	-0.683	3.405	-4.890	0.000	0.013	1.231
Snhg5	1.346	6.893	4.888	0.000	0.013	1.226
P4htm	-0.682	3.672	-4.887	0.000	0.013	1.225
Reg3g	5.434	9.501	4.887	0.000	0.013	1.224
Wtip	1.206	8.943	4.886	0.000	0.013	1.221
Snhg6	0.684	8.327	4.885	0.000	0.013	1.219
Prom1	1.029	12.518	4.882	0.000	0.013	1.214
Cyp2s1	-0.821	11.660	-4.879	0.000	0.013	1.208
Mical1	1.447	5.027	4.877	0.000	0.013	1.205
Atpl3a4	-0.950	3.342	-4.874	0.000	0.013	1.198
Timp2	-1.015	4.285	-4.872	0.000	0.013	1.194
Ncl	0.884	10.952	4.867	0.000	0.013	1.184
2210019G11Rik	-0.565	4.670	-4.865	0.000	0.013	1.179
Igsf11	-0.533	3.191	-4.863	0.000	0.013	1.176
Spo11	-0.523	3.812	-4.859	0.000	0.013	1.168
Klh14	-0.636	2.796	-4.858	0.000	0.013	1.167
C3	4.035	8.450	4.855	0.000	0.013	1.160
Emc1	0.620	8.405	4.855	0.000	0.013	1.160
Mtmr7	-0.616	5.488	-4.851	0.000	0.013	1.151
Trim8	0.559	8.457	4.850	0.000	0.013	1.149
Adhfe1	-1.717	5.827	-4.849	0.000	0.013	1.147
Cckbr	-1.036	6.278	-4.847	0.000	0.013	1.144
Adrala	-0.792	3.734	-4.847	0.000	0.013	1.143
Ints2	0.917	7.945	4.845	0.000	0.013	1.139
Zan	-0.824	4.248	-4.842	0.000	0.013	1.132
Snrpe	0.571	11.113	4.836	0.000	0.013	1.121
Midn	0.842	7.408	4.836	0.000	0.013	1.121
Pld3	-0.632	10.227	-4.827	0.000	0.013	1.103
Rnf169	0.716	6.569	4.822	0.000	0.013	1.092
LOC101243624	-0.708	2.866	-4.821	0.000	0.013	1.090
Mpc1	-0.880	10.232	-4.820	0.000	0.013	1.089
Oprm1	-0.712	4.356	-4.816	0.000	0.013	1.081

9030404E10Rik	-0.908	3.951	-4.814	0.000	0.013	1.077
C79206	-0.682	3.856	-4.814	0.000	0.013	1.076
Csgalnact1	-0.614	2.801	-4.811	0.000	0.013	1.071
Eef1b2	0.550	11.970	4.809	0.000	0.013	1.067
Hif1a	1.310	8.063	4.809	0.000	0.013	1.067
Setd1b	0.900	7.669	4.808	0.000	0.013	1.065
2010007H06Rik	2.038	7.682	4.807	0.000	0.013	1.063
4930554H23Rik	-0.742	3.557	-4.806	0.000	0.013	1.061
Rdh10	1.503	10.174	4.804	0.000	0.013	1.057
Uqcrfs1	-0.645	11.122	-4.804	0.000	0.013	1.056
Adrbk2	1.533	7.372	4.795	0.000	0.014	1.038
Aak1	-0.889	4.670	-4.792	0.000	0.014	1.032
Ceacam1	1.587	8.294	4.790	0.000	0.014	1.029
Tmem130	-0.573	3.060	-4.789	0.000	0.014	1.027
Bpifb9b	-0.554	2.538	-4.789	0.000	0.014	1.025
2010300F17Rik	-0.619	3.023	-4.783	0.000	0.014	1.015
Sowahb	0.884	7.993	4.774	0.000	0.014	0.996
Pex26	0.699	7.711	4.772	0.000	0.014	0.991
Ceacam1	1.287	7.962	4.769	0.000	0.014	0.986
4930556A12Rik	-0.738	6.144	-4.765	0.000	0.014	0.977
1110017D15Rik	-0.804	4.451	-4.764	0.000	0.014	0.975
Cbln3	-0.761	4.468	-4.761	0.000	0.014	0.970
Perml	-1.376	4.556	-4.759	0.000	0.014	0.965
LOC102640703	-0.613	3.414	-4.756	0.000	0.014	0.959
Clec14a	-0.736	4.588	-4.753	0.000	0.014	0.954
9430013L17Rik	-0.680	3.155	-4.750	0.000	0.014	0.947
C79744	-0.588	3.023	-4.749	0.000	0.014	0.945
Laptm4b	-0.677	9.388	-4.749	0.000	0.014	0.945
4930544F09Rik	-0.603	3.940	-4.744	0.000	0.014	0.934
Rhot1	-0.653	8.270	-4.735	0.000	0.014	0.917
C1cn1	-0.735	4.994	-4.734	0.000	0.014	0.916
Acs11	-1.627	6.553	-4.734	0.000	0.014	0.915
Necab1	-2.431	3.534	-4.728	0.000	0.014	0.902
Tmed6	-2.634	9.060	-4.722	0.000	0.015	0.891
Apobec1	1.151	8.154	4.722	0.000	0.015	0.891
Grk4	-0.548	3.271	-4.721	0.000	0.015	0.888
Tnfaip3	1.431	8.156	4.715	0.000	0.015	0.877
Dnajc7	1.524	8.846	4.713	0.000	0.015	0.871
Smim5	-1.804	5.444	-4.708	0.000	0.015	0.863
Dnali1	-0.647	3.826	-4.708	0.000	0.015	0.862
Ly6d	2.542	10.970	4.707	0.000	0.015	0.861
Cebpb	1.415	8.232	4.707	0.000	0.015	0.861
Gabra4	-0.855	3.791	-4.704	0.000	0.015	0.854
Ncam2	-0.925	3.131	-4.703	0.000	0.015	0.853
Tsc2	-0.617	7.347	-4.699	0.000	0.015	0.844
Edem2	-0.706	8.926	-4.697	0.000	0.015	0.839
Bhlha9	-0.662	4.192	-4.695	0.000	0.015	0.836
Efnb2	1.535	7.457	4.691	0.000	0.015	0.829
Ssx2ip	-1.029	6.302	-4.691	0.000	0.015	0.828
Snhg8	0.731	8.669	4.686	0.000	0.015	0.817

Rhbd11	-1.007	6.591	-4.681	0.000	0.015	0.808
Wnt5b	-0.690	3.753	-4.678	0.000	0.015	0.802
Allc	-0.648	5.107	-4.677	0.000	0.015	0.798
4930506C21Rik	-0.509	3.843	-4.672	0.000	0.015	0.789
Nfx11	0.579	6.740	4.671	0.000	0.015	0.787
Capza1	0.512	10.565	4.668	0.000	0.015	0.782
Hrk	-0.543	5.213	-4.668	0.000	0.015	0.780
Snx17	0.610	10.910	4.665	0.000	0.015	0.775
Cxcl5	4.075	7.313	4.660	0.000	0.015	0.765
Fus	2.622	7.610	4.660	0.000	0.015	0.764
Cd44	3.159	8.982	4.651	0.000	0.016	0.747
Igkv8-30	4.284	9.644	4.650	0.000	0.016	0.744
BC004004	1.219	8.316	4.648	0.000	0.016	0.741
Crebrf	-1.087	5.553	-4.644	0.000	0.016	0.733
Noc2l	0.876	6.970	4.643	0.000	0.016	0.729
Lrrc56	-0.584	5.426	-4.640	0.000	0.016	0.723
Hoxc9	-0.804	6.246	-4.638	0.000	0.016	0.720
Redrum	-0.437	2.728	-4.628	0.000	0.016	0.700
Sirt2	-0.890	8.528	-4.626	0.000	0.016	0.696
Cxxc4	-1.145	5.516	-4.624	0.000	0.016	0.691
Krtap19-4	-0.502	3.710	-4.621	0.000	0.016	0.686
Flt4	-0.495	5.114	-4.621	0.000	0.016	0.686
Ehf	1.221	6.688	4.620	0.000	0.016	0.684
1700016D06Rik	-0.380	2.569	-4.616	0.000	0.016	0.676
Ybx2	-0.854	5.841	-4.616	0.000	0.016	0.676
5430416N02Rik	0.800	4.931	4.616	0.000	0.016	0.675
1500012F01Rik	1.208	8.067	4.614	0.000	0.016	0.672
Pkdcc	1.064	6.558	4.613	0.000	0.016	0.669
Spn-ps	-0.746	3.498	-4.610	0.000	0.016	0.663
Rcan2	-1.200	4.297	-4.603	0.000	0.016	0.649
Lpar6	0.511	8.026	4.601	0.000	0.016	0.644
Zfp235	-0.736	3.734	-4.600	0.000	0.016	0.642
Zmynd10	-0.786	3.762	-4.598	0.000	0.016	0.639
Lrrn3	-1.229	3.901	-4.597	0.000	0.016	0.637
Tmed9	0.698	10.034	4.595	0.000	0.016	0.632
Slc39a4	1.110	10.044	4.593	0.000	0.016	0.628
Il1f10	-0.552	5.500	-4.590	0.000	0.016	0.622
Hk2	1.919	9.231	4.590	0.000	0.016	0.621
Plekhg6	-0.776	6.718	-4.588	0.000	0.016	0.618
Gm6682	-1.202	4.908	-4.587	0.000	0.016	0.616
Cpne7	-0.705	4.386	-4.579	0.000	0.016	0.601
Sf3b3	0.605	9.388	4.578	0.000	0.016	0.598
Cux1	-0.877	7.131	-4.575	0.000	0.016	0.592
At12	0.836	9.817	4.575	0.000	0.016	0.592
Gm11545	2.371	7.282	4.573	0.000	0.016	0.588
Colec11	-0.623	4.318	-4.571	0.000	0.016	0.584
Gm17753	-0.620	4.256	-4.571	0.000	0.016	0.584
Lrrc10b	-0.739	5.252	-4.571	0.000	0.016	0.583
Piezol	0.972	7.518	4.569	0.000	0.017	0.579
Klk1b11	-0.614	3.494	-4.567	0.000	0.017	0.576

Krr1	0.495	8.245	4.565	0.000	0.017	0.571
Prps2	-0.971	6.758	-4.561	0.000	0.017	0.563
4933427J07Rik	-0.609	4.215	-4.555	0.000	0.017	0.551
Glipr1	1.439	6.362	4.554	0.000	0.017	0.548
Hsd17b14	-0.895	4.422	-4.552	0.000	0.017	0.545
Slc3a2	-0.695	9.896	-4.550	0.000	0.017	0.540
Ap4e1	0.788	7.018	4.549	0.000	0.017	0.539
Slx1b	-0.555	4.760	-4.548	0.000	0.017	0.536
A230102021Rik	-0.812	3.502	-4.544	0.000	0.017	0.529
Pbx2	0.589	7.368	4.544	0.000	0.017	0.528
Arpc3	1.630	10.196	4.541	0.000	0.017	0.523
Rusc2	-0.529	6.147	-4.541	0.000	0.017	0.522
Ccdc109b	1.840	6.438	4.541	0.000	0.017	0.522
Polr3	1.009	8.166	4.539	0.000	0.017	0.518
Kcnd3	-0.643	3.790	-4.532	0.000	0.017	0.505
Dlgap3	-0.651	5.192	-4.530	0.000	0.017	0.500
Bcl3	1.331	8.042	4.530	0.000	0.017	0.499
Pkm	-0.467	11.543	-4.529	0.000	0.017	0.497
Gm2762	-0.545	3.233	-4.525	0.000	0.017	0.490
Tnpo3	0.976	8.342	4.525	0.000	0.017	0.490
Blmh	0.950	9.115	4.524	0.000	0.017	0.487
Galnt2	-1.333	8.061	-4.523	0.000	0.017	0.485
Prpf38b	1.291	8.271	4.519	0.000	0.017	0.478
Tmem27	-0.626	2.619	-4.503	0.000	0.018	0.444
1700034F02Rik	-0.577	2.494	-4.501	0.000	0.018	0.440
Mesp2	-0.740	5.047	-4.495	0.000	0.018	0.428
Neu2	-0.844	4.190	-4.495	0.000	0.018	0.428
Mfsd7b	-0.672	4.315	-4.494	0.000	0.018	0.427
Serpinalf	-0.415	2.699	-4.493	0.000	0.018	0.424
Ippk	0.768	8.910	4.493	0.000	0.018	0.423
Haus3	0.634	6.583	4.489	0.000	0.018	0.416
Myh10	-0.733	3.668	-4.486	0.000	0.018	0.410
Fubp3	0.706	7.220	4.476	0.000	0.018	0.388
Nbeal2	0.752	8.278	4.474	0.000	0.018	0.385
Klf10	1.503	7.821	4.474	0.000	0.018	0.385
Atg13	-0.513	7.195	-4.470	0.000	0.018	0.378
Zfp90	-0.865	4.689	-4.470	0.000	0.018	0.377
Cib1	0.643	5.219	4.469	0.000	0.018	0.374
LOC102641923	0.740	10.158	4.459	0.000	0.019	0.355
Nrn1	-2.389	6.750	-4.454	0.000	0.019	0.345
Tmem89	-0.639	5.765	-4.451	0.000	0.019	0.338
Cited4	-0.857	7.423	-4.449	0.000	0.019	0.334
Scn4b	-1.232	4.184	-4.448	0.000	0.019	0.332
Prickle1	-0.441	3.069	-4.443	0.000	0.019	0.322
Ingl	0.471	7.850	4.443	0.000	0.019	0.321
Gpx2	1.782	11.272	4.442	0.000	0.019	0.319
Tpcn2	0.976	5.833	4.441	0.000	0.019	0.317
Lgals4	1.019	11.665	4.441	0.000	0.019	0.317
AU015849	-0.583	2.416	-4.439	0.000	0.019	0.313
Pomgnt2	-0.566	6.732	-4.438	0.000	0.019	0.311

Myo19	-1.022	6.710	-4.434	0.000	0.019	0.303
Bcl6b	-0.552	3.707	-4.430	0.000	0.019	0.296
I700013D24Rik	-0.688	3.003	-4.429	0.000	0.019	0.294
As3mt	1.136	6.709	4.428	0.000	0.019	0.290
Epha4	0.865	5.066	4.424	0.000	0.019	0.283
Csf1	-0.563	5.989	-4.421	0.000	0.019	0.277
Ppp2r1b	-0.983	8.910	-4.421	0.000	0.019	0.276
Rlim	0.544	8.499	4.420	0.000	0.019	0.275
Rnf145	1.121	7.428	4.419	0.000	0.019	0.273
Cd53	1.942	6.688	4.419	0.000	0.019	0.272
Spib	1.686	6.840	4.414	0.000	0.020	0.262
Dmpk	-0.600	3.400	-4.413	0.000	0.020	0.261
Ccdc71	0.913	7.536	4.409	0.000	0.020	0.253
Gm12854	0.744	12.472	4.406	0.000	0.020	0.247
Kcnq5	-0.586	2.418	-4.405	0.000	0.020	0.245
Liph	1.168	6.573	4.404	0.000	0.020	0.241
D2Ertd105e	-0.580	3.384	-4.403	0.000	0.020	0.240
Phgdh	-0.746	8.250	-4.403	0.000	0.020	0.240
Myof	0.915	8.161	4.403	0.000	0.020	0.240
Sst	-2.267	8.821	-4.402	0.000	0.020	0.238
Gm15471	-0.519	2.913	-4.401	0.000	0.020	0.236
Slc6a6	-0.645	5.252	-4.401	0.000	0.020	0.235
Cldn6	-0.493	4.039	-4.400	0.000	0.020	0.233
Tmem100	-0.701	3.015	-4.393	0.000	0.020	0.220
Slc16a4	-0.690	3.570	-4.391	0.000	0.020	0.214
Eif4h	0.544	10.758	4.388	0.000	0.020	0.209
Cyp4v3	-1.447	5.898	-4.384	0.000	0.020	0.200
Pygo2	0.512	8.223	4.383	0.000	0.020	0.199
E330013P04Rik	-0.925	3.416	-4.383	0.000	0.020	0.198
4930404K06Rik	-0.453	3.353	-4.377	0.000	0.020	0.185
Arhgef4	-2.110	6.604	-4.374	0.000	0.020	0.181
Eprs	0.564	9.124	4.374	0.000	0.020	0.180
Cdc42ep1	-0.753	8.515	-4.374	0.000	0.020	0.180
4833418N02Rik	-0.698	4.723	-4.373	0.000	0.020	0.179
Pnpla8	-0.594	8.660	-4.372	0.000	0.020	0.176
Adk	-1.075	7.708	-4.370	0.000	0.020	0.172
H60c	-0.776	3.741	-4.369	0.000	0.020	0.169
Diol	-1.870	5.944	-4.368	0.000	0.020	0.168
Ceslg	2.459	6.268	4.366	0.000	0.020	0.164
Pick1	0.687	7.681	4.366	0.000	0.020	0.164
Ccdc19	-1.505	5.756	-4.366	0.000	0.020	0.163
Ankrd9	-0.595	6.549	-4.362	0.000	0.020	0.156
Tubala	0.863	8.897	4.360	0.000	0.020	0.152
D17H6S56E-5	1.613	9.156	4.360	0.000	0.020	0.151
Fnbp1	1.412	5.544	4.356	0.000	0.020	0.144
Pla2g4a	0.726	9.362	4.356	0.000	0.020	0.144
Akt1s1	0.784	8.141	4.354	0.000	0.020	0.139
Gsdmc	1.677	7.816	4.350	0.000	0.021	0.131
Atp13a2	-0.467	6.801	-4.349	0.000	0.021	0.130
5830454E08Rik	-0.520	5.318	-4.349	0.000	0.021	0.128

Fbxl16	-0.779	5.790	-4.348	0.000	0.021	0.126
Ssmem1	-0.654	4.329	-4.347	0.000	0.021	0.124
Flnb	1.268	10.329	4.344	0.000	0.021	0.118
Def8	-0.677	7.046	-4.341	0.000	0.021	0.112
5330417H12Rik	-0.592	5.269	-4.340	0.000	0.021	0.110
Atxn713	0.565	8.167	4.339	0.000	0.021	0.109
U2af1	0.869	8.790	4.339	0.000	0.021	0.108
Zfp119b	-0.660	3.829	-4.332	0.000	0.021	0.095
Plaur	2.275	8.297	4.332	0.000	0.021	0.093
Msx1	-0.580	5.661	-4.331	0.000	0.021	0.093
Mtcl1	0.718	7.814	4.326	0.000	0.021	0.082
Cdk9	0.525	9.051	4.326	0.000	0.021	0.081
Pate4	1.524	5.960	4.324	0.000	0.021	0.077
Ripply3	0.987	8.326	4.323	0.000	0.021	0.076
Rangap1	0.597	7.588	4.321	0.000	0.021	0.072
Cst11	-0.524	2.582	-4.320	0.000	0.021	0.068
Litaf	0.944	9.708	4.317	0.000	0.021	0.064
Gm5512	-0.864	6.172	-4.316	0.000	0.021	0.061
5430419D17Rik	-0.520	3.975	-4.316	0.000	0.021	0.060
Taslr3	-0.545	5.094	-4.315	0.000	0.021	0.059
Olfr65	-0.531	3.092	-4.310	0.000	0.021	0.050
Chd5	-0.623	3.919	-4.310	0.000	0.021	0.049
Tulp1	-0.637	3.490	-4.310	0.000	0.021	0.048
1810010K12Rik	-0.583	3.400	-4.309	0.000	0.021	0.046
Anp32e	0.628	8.197	4.308	0.000	0.021	0.045
Tango6	-0.664	5.877	-4.307	0.000	0.021	0.042
Rgs7	-1.794	4.686	-4.305	0.000	0.021	0.038
Runx1t1	-1.713	4.761	-4.305	0.000	0.021	0.038
Msra	-0.962	8.423	-4.304	0.000	0.021	0.037
Bnip2	1.006	7.788	4.304	0.000	0.021	0.035
Wisp2	-0.695	4.629	-4.302	0.000	0.021	0.033
Naip6	0.818	7.450	4.301	0.000	0.021	0.030
Slc13a5	-0.750	5.975	-4.301	0.000	0.021	0.029
Trrap	0.692	8.649	4.299	0.000	0.021	0.027
Klf15	-1.382	6.727	-4.299	0.000	0.021	0.027
4930455J16Rik	-0.701	2.684	-4.298	0.000	0.021	0.023
Il1rap	-0.642	4.249	-4.296	0.000	0.021	0.020
AK035085	-0.920	3.483	-4.295	0.000	0.021	0.018
Sema4a	0.613	8.743	4.294	0.000	0.021	0.015
Capn6	-1.345	4.875	-4.294	0.000	0.021	0.015
Gcn111	0.650	7.455	4.293	0.000	0.021	0.013
Gstm5	-0.719	8.989	-4.292	0.000	0.021	0.011
4930483C01Rik	-0.606	3.244	-4.291	0.000	0.021	0.010
Rims3	-0.536	4.164	-4.291	0.000	0.021	0.009
Cd59a	-1.147	6.992	-4.285	0.000	0.021	-0.004
Dmtn	-0.634	2.558	-4.283	0.000	0.021	-0.007
Emb	1.468	6.606	4.283	0.000	0.021	-0.007
P2rx3	-0.654	4.444	-4.281	0.000	0.021	-0.011
Man2b1	-0.463	9.783	-4.281	0.000	0.021	-0.011
Tor1a	0.621	6.949	4.280	0.000	0.021	-0.013

Cks1b	1.384	9.988	4.279	0.000	0.021	-0.014
Phyh	-1.290	10.738	-4.277	0.000	0.021	-0.019
Vnn1	4.943	7.913	4.277	0.000	0.021	-0.019
Pik3r5	1.760	5.668	4.276	0.000	0.021	-0.021
Tmem45b	0.857	11.303	4.276	0.000	0.021	-0.021
Khdrbs3	-0.913	5.043	-4.275	0.000	0.021	-0.023
Setd7	-0.693	3.245	-4.274	0.000	0.021	-0.025
Dnajc22	0.572	7.548	4.274	0.000	0.021	-0.025
Hpcal1	-0.518	10.125	-4.274	0.000	0.021	-0.026
Txndc2	-0.567	3.926	-4.273	0.000	0.021	-0.028
Phldb2	0.885	8.618	4.272	0.000	0.021	-0.029
Rdh14	-0.770	8.290	-4.272	0.000	0.021	-0.030
I122ra1	1.685	5.341	4.271	0.000	0.021	-0.031
Fbxo33	0.624	8.087	4.268	0.001	0.021	-0.037
Mall	1.344	6.078	4.267	0.001	0.021	-0.040
Bclaf1	0.771	7.116	4.264	0.001	0.021	-0.045
1600022D10Rik	-0.583	3.235	-4.263	0.001	0.021	-0.048
Muc1	0.452	11.991	4.262	0.001	0.021	-0.050
A430091L06Rik	-0.470	2.915	-4.262	0.001	0.021	-0.051
Mag	-0.579	4.805	-4.261	0.001	0.021	-0.051
Sh3kbp1	1.515	6.627	4.261	0.001	0.021	-0.052
Mip	-0.681	3.825	-4.259	0.001	0.021	-0.056
Ttc7b	-1.638	4.268	-4.257	0.001	0.022	-0.060
Bcl9	0.690	6.973	4.253	0.001	0.022	-0.069
Ccser2	-0.555	6.369	-4.251	0.001	0.022	-0.073
Mllt4	-0.544	4.199	-4.251	0.001	0.022	-0.074
Gjal	1.387	6.723	4.247	0.001	0.022	-0.082
Hdac3	0.602	8.555	4.245	0.001	0.022	-0.084
Man1a	-1.045	9.028	-4.245	0.001	0.022	-0.086
Bccip	0.530	9.343	4.243	0.001	0.022	-0.088
Slc4a1	-0.736	3.005	-4.243	0.001	0.022	-0.089
Tnk2	0.775	10.226	4.243	0.001	0.022	-0.090
Dhx32	-0.460	8.709	-4.238	0.001	0.022	-0.100
Fzd8	-0.801	5.771	-4.236	0.001	0.022	-0.103
Cfb	2.514	7.015	4.235	0.001	0.022	-0.106
Ccng1	-0.611	9.233	-4.233	0.001	0.022	-0.109
AK048274	-0.617	4.202	-4.232	0.001	0.022	-0.112
Neur11a	-0.641	5.496	-4.231	0.001	0.022	-0.115
AU022706	-0.579	2.507	-4.230	0.001	0.022	-0.117
Ctif	-0.368	6.099	-4.229	0.001	0.022	-0.117
1700086006Rik	-0.929	3.555	-4.229	0.001	0.022	-0.119
Ppan	0.822	6.984	4.228	0.001	0.022	-0.119
Ptchd3	-0.486	2.931	-4.225	0.001	0.022	-0.126
I118	-0.717	10.787	-4.225	0.001	0.022	-0.126
Uggt1	-0.468	4.073	-4.225	0.001	0.022	-0.127
Dtd1	-0.499	3.311	-4.224	0.001	0.022	-0.128
Trim16	-0.584	7.647	-4.224	0.001	0.022	-0.128
Ptpn2	1.730	9.489	4.224	0.001	0.022	-0.129
Hmgn3	0.623	7.384	4.224	0.001	0.022	-0.129
Acadm	-0.870	9.613	-4.223	0.001	0.022	-0.131

Cxcl12	-1.320	5.280	-4.220	0.001	0.022	-0.136
Aspa	1.367	6.709	4.220	0.001	0.022	-0.137
Zkscan4	-0.592	4.267	-4.220	0.001	0.022	-0.137
Tcf15	-0.714	5.238	-4.220	0.001	0.022	-0.137
Qsox2	-0.854	6.025	-4.219	0.001	0.022	-0.139
Arf6	0.498	11.408	4.219	0.001	0.022	-0.139
5730422E09Rik	-0.520	3.897	-4.218	0.001	0.022	-0.142
Hnrnpul2	0.943	7.718	4.215	0.001	0.022	-0.147
Rai2	-0.814	2.496	-4.212	0.001	0.022	-0.152
Esyt3	-0.942	5.732	-4.212	0.001	0.022	-0.154
Casr	-0.712	5.183	-4.211	0.001	0.022	-0.155
Synpo	-0.461	4.297	-4.211	0.001	0.022	-0.155
Adamts8	-0.616	5.882	-4.206	0.001	0.022	-0.165
D130052B06Rik	-0.643	2.951	-4.206	0.001	0.022	-0.166
Scnn1g	1.244	6.612	4.203	0.001	0.022	-0.172
Maats1	-0.654	3.251	-4.201	0.001	0.022	-0.175
Prss3	-0.690	2.810	-4.200	0.001	0.022	-0.178
Cxcr4	1.387	4.602	4.199	0.001	0.022	-0.179
Ercc8	0.603	5.675	4.198	0.001	0.022	-0.182
4933412A08Rik	-0.631	2.812	-4.198	0.001	0.022	-0.182
Gm12816	1.773	6.376	4.197	0.001	0.022	-0.184
Chd8	0.915	8.545	4.194	0.001	0.023	-0.190
Wnt7a	-0.510	4.099	-4.193	0.001	0.023	-0.192
Ak2	0.662	9.640	4.193	0.001	0.023	-0.193
Ap5s1	-0.549	6.983	-4.193	0.001	0.023	-0.193
Trnaulap	0.543	6.343	4.191	0.001	0.023	-0.196
Bag5	-0.495	4.554	-4.189	0.001	0.023	-0.201
Jazf1	-0.572	3.348	-4.189	0.001	0.023	-0.201
Srebf2	0.688	8.666	4.188	0.001	0.023	-0.202
Sema3g	-0.704	3.777	-4.185	0.001	0.023	-0.210
1700011M02Rik	-0.624	3.160	-4.184	0.001	0.023	-0.211
4930512H18Rik	-0.700	3.141	-4.180	0.001	0.023	-0.219
Pi15	-0.619	3.731	-4.180	0.001	0.023	-0.219
Weel1	-0.826	8.217	-4.179	0.001	0.023	-0.222
2610007B07Rik	-0.594	2.900	-4.178	0.001	0.023	-0.222
Slc7a6os	0.808	5.753	4.178	0.001	0.023	-0.224
Retsat	-1.326	8.226	-4.175	0.001	0.023	-0.230
Ung	0.831	6.305	4.174	0.001	0.023	-0.231
Adamts6	-0.457	3.125	-4.174	0.001	0.023	-0.232
Hoxb13	-0.555	3.939	-4.172	0.001	0.023	-0.235
Reg1	5.096	7.999	4.172	0.001	0.023	-0.236
Cldn7	3.801	8.074	4.169	0.001	0.023	-0.242
Brpf1	0.922	8.165	4.162	0.001	0.023	-0.256
Tinag	-1.287	6.146	-4.162	0.001	0.023	-0.256
Dhx9	1.356	5.792	4.161	0.001	0.023	-0.258
Kctd5	0.750	7.947	4.161	0.001	0.023	-0.259
Hoxc13	-0.560	3.889	-4.160	0.001	0.023	-0.260
Mfge8	0.795	10.105	4.160	0.001	0.023	-0.260
Slco6c1	-0.699	4.098	-4.158	0.001	0.023	-0.264
Syngn2	0.379	11.029	4.154	0.001	0.023	-0.272

Rplp2	0.507	13.196	4.154	0.001	0.023	-0.273
4930544G11Rik	-0.560	2.980	-4.153	0.001	0.023	-0.274
B4galnt2	-1.709	5.027	-4.153	0.001	0.023	-0.274
Ppp3cc	-0.940	4.045	-4.153	0.001	0.023	-0.276
Esyt2	0.631	7.676	4.152	0.001	0.023	-0.276
Raplgap2	-1.297	9.000	-4.152	0.001	0.023	-0.277
Pfkm	-0.740	7.474	-4.150	0.001	0.023	-0.281
Brms11	-0.875	6.602	-4.149	0.001	0.023	-0.282
Gucyla3	-0.649	3.805	-4.149	0.001	0.023	-0.282
Cyp2u1	-0.868	3.491	-4.149	0.001	0.023	-0.283
Ppargc1a	-1.954	5.302	-4.149	0.001	0.023	-0.283
Bckdhb	-1.389	8.340	-4.149	0.001	0.023	-0.284
Armcx5	-0.502	2.806	-4.147	0.001	0.023	-0.286
Usp46	-0.732	7.204	-4.147	0.001	0.023	-0.287
Copz1	-0.738	6.967	-4.146	0.001	0.023	-0.290
Camk2b	-0.718	4.348	-4.141	0.001	0.024	-0.299
Zfp354b	-0.592	3.135	-4.140	0.001	0.024	-0.301
Plcx3	-0.461	2.523	-4.140	0.001	0.024	-0.302
9130015G15Rik	-0.645	3.010	-4.136	0.001	0.024	-0.310
Zfp735	-0.464	2.394	-4.135	0.001	0.024	-0.312
Slc38a5	-1.958	5.842	-4.133	0.001	0.024	-0.315
2610018G03Rik	-0.869	4.350	-4.132	0.001	0.024	-0.318
Mapkapk5	0.431	7.806	4.130	0.001	0.024	-0.322
C230035I16Rik	-0.489	4.031	-4.129	0.001	0.024	-0.323
Act17a	-0.661	4.749	-4.129	0.001	0.024	-0.324
Fam43a	-0.982	7.111	-4.129	0.001	0.024	-0.324
1200014J11Rik	0.527	7.108	4.127	0.001	0.024	-0.329
Dct	-0.652	3.429	-4.127	0.001	0.024	-0.329
Ntm	-0.479	2.578	-4.126	0.001	0.024	-0.330
1700034G24Rik	-0.570	3.779	-4.125	0.001	0.024	-0.332
Fam19a5	-0.634	4.475	-4.125	0.001	0.024	-0.333
Ndufc2	-0.743	3.980	-4.125	0.001	0.024	-0.333
9430063H18Rik	-0.472	3.280	-4.124	0.001	0.024	-0.334
Bmpr2	-0.751	4.801	-4.124	0.001	0.024	-0.334
Map9	-0.536	4.160	-4.124	0.001	0.024	-0.335
Kctd12	1.449	6.968	4.123	0.001	0.024	-0.336
Plcb3	0.420	7.440	4.123	0.001	0.024	-0.337
Banf2	-0.656	4.590	-4.123	0.001	0.024	-0.337
Epha8	-0.703	4.437	-4.122	0.001	0.024	-0.340
Lrfn3	0.664	5.611	4.120	0.001	0.024	-0.342
Ier3	1.027	8.720	4.118	0.001	0.024	-0.346
Cenpe	1.019	7.392	4.117	0.001	0.024	-0.350
Gsdmd	1.774	9.191	4.108	0.001	0.024	-0.367
Tcta	-0.838	8.302	-4.106	0.001	0.024	-0.371
D12Ert216e	-0.717	5.095	-4.105	0.001	0.024	-0.373
Mkln1	-0.421	8.449	-4.105	0.001	0.024	-0.373
Ppp1r8	0.678	8.185	4.104	0.001	0.024	-0.375
Gtf3c4	0.577	7.197	4.102	0.001	0.024	-0.381
Clca1	2.167	6.106	4.098	0.001	0.025	-0.389
Acot7	0.780	8.346	4.096	0.001	0.025	-0.392

4833439L19Rik	-1.218	6.000	-4.095	0.001	0.025	-0.394
Ttc30b	-1.546	6.668	-4.095	0.001	0.025	-0.395
Gm14019	-0.581	3.234	-4.094	0.001	0.025	-0.396
Olfm4	2.153	7.212	4.094	0.001	0.025	-0.397
Blnk	0.842	7.730	4.092	0.001	0.025	-0.400
1110008E08Rik	-0.506	4.566	-4.091	0.001	0.025	-0.402
Tmprss13	-1.047	4.556	-4.088	0.001	0.025	-0.409
Mthfd2	0.548	8.040	4.084	0.001	0.025	-0.417
Gpx6	-0.547	4.478	-4.082	0.001	0.025	-0.421
2210018M11Rik	1.262	5.795	4.080	0.001	0.025	-0.425
Degs1	-0.956	9.305	-4.080	0.001	0.025	-0.426
Elk3	-0.516	3.630	-4.080	0.001	0.025	-0.426
Cml1	-1.275	5.344	-4.079	0.001	0.025	-0.427
5730521K06Rik	-0.614	3.762	-4.079	0.001	0.025	-0.427
Vps36	-0.769	5.278	-4.078	0.001	0.025	-0.430
A930009L07Rik	-0.605	2.796	-4.077	0.001	0.025	-0.432
Fbxo10	-0.559	6.487	-4.077	0.001	0.025	-0.432
Amh	-0.781	5.809	-4.075	0.001	0.025	-0.436
Hmha1	0.687	5.285	4.074	0.001	0.025	-0.437
Coro2a	0.659	8.567	4.069	0.001	0.025	-0.448
Prkci	0.365	9.512	4.069	0.001	0.025	-0.449
Dscam	-0.547	4.553	-4.068	0.001	0.025	-0.450
Tbc1d9	-0.930	4.793	-4.067	0.001	0.025	-0.452
Hepacam2	0.980	5.712	4.067	0.001	0.025	-0.453
Pdap1	0.484	9.371	4.060	0.001	0.026	-0.467
Tomm20	0.520	11.088	4.058	0.001	0.026	-0.471
Rnf13	-1.013	7.014	-4.057	0.001	0.026	-0.472
Slc15a4	-0.582	2.841	-4.056	0.001	0.026	-0.474
Fat1	0.611	10.487	4.056	0.001	0.026	-0.476
Ldlrad3	-1.040	6.297	-4.055	0.001	0.026	-0.477
Slc25a34	-1.198	6.050	-4.054	0.001	0.026	-0.478
Coro1a	2.384	7.054	4.053	0.001	0.026	-0.482
Dnm11	-0.441	2.232	-4.053	0.001	0.026	-0.482
Rbm38	0.490	6.684	4.052	0.001	0.026	-0.483
Trim59	1.035	6.335	4.051	0.001	0.026	-0.485
Kbtbd4	-0.602	6.225	-4.051	0.001	0.026	-0.485
Adck2	-0.608	5.831	-4.050	0.001	0.026	-0.487
Kcnj3	-0.470	4.942	-4.050	0.001	0.026	-0.488
Gm5126	-0.528	3.845	-4.048	0.001	0.026	-0.492
Klhdc1	-1.114	5.728	-4.047	0.001	0.026	-0.494
Zfp652os	-0.719	3.689	-4.047	0.001	0.026	-0.494
Gm9905	-0.522	4.851	-4.041	0.001	0.026	-0.506
Syt11	-0.739	7.888	-4.040	0.001	0.026	-0.508
Morc3	1.063	7.233	4.039	0.001	0.026	-0.511
Slpr5	-1.473	3.618	-4.036	0.001	0.026	-0.516
Grid1	-0.515	3.832	-4.032	0.001	0.026	-0.524
Cabin1	0.476	7.210	4.031	0.001	0.026	-0.526
Grhl1	-0.491	6.945	-4.030	0.001	0.026	-0.528
Tom1	-0.824	7.501	-4.030	0.001	0.026	-0.529
Gm10505	-0.577	4.434	-4.030	0.001	0.026	-0.530

Fth1	-0.631	12.376	-4.029	0.001	0.026	-0.531
Unc5d	-0.628	2.735	-4.028	0.001	0.026	-0.532
Enho	-0.636	5.368	-4.028	0.001	0.026	-0.533
Vegfc	-0.446	2.721	-4.028	0.001	0.026	-0.533
Rfp14b	-0.583	4.052	-4.025	0.001	0.026	-0.540
Nop58	0.879	7.676	4.024	0.001	0.027	-0.542
Nrsn2	-0.650	4.616	-4.021	0.001	0.027	-0.547
Foxp2	-0.874	4.192	-4.021	0.001	0.027	-0.547
Ptms	-0.614	9.863	-4.020	0.001	0.027	-0.550
Myb	1.322	6.613	4.018	0.001	0.027	-0.553
1200007C13Rik	-0.754	4.253	-4.017	0.001	0.027	-0.555
Osgin2	-0.776	5.167	-4.015	0.001	0.027	-0.560
Prm2	-0.636	5.062	-4.013	0.001	0.027	-0.565
Auh	-1.207	7.976	-4.011	0.001	0.027	-0.568
Mogs	0.615	9.268	4.007	0.001	0.027	-0.576
Rpl2211	0.405	11.383	4.007	0.001	0.027	-0.576
Zfp449	-0.466	3.612	-4.005	0.001	0.027	-0.581
Lmbrd1	-0.645	6.593	-4.004	0.001	0.027	-0.583
1600012H06Rik	-0.604	7.265	-4.001	0.001	0.027	-0.590
1700012015Rik	-0.525	3.650	-3.996	0.001	0.028	-0.599
Pkd112	-0.521	3.353	-3.996	0.001	0.028	-0.600
LOC102639714	-0.660	2.944	-3.992	0.001	0.028	-0.606
1110025L11Rik	-0.566	2.902	-3.992	0.001	0.028	-0.607
Abca2	-0.596	5.786	-3.991	0.001	0.028	-0.609
Cd74	3.993	11.547	3.990	0.001	0.028	-0.611
Klklb8	-0.540	3.438	-3.990	0.001	0.028	-0.612
Akr1b8	1.112	11.409	3.989	0.001	0.028	-0.614
Ptpn18	0.754	8.710	3.987	0.001	0.028	-0.617
Bzw2	0.858	8.494	3.987	0.001	0.028	-0.618
Dnah12	-0.474	3.139	-3.986	0.001	0.028	-0.619
Atf4	0.906	8.397	3.982	0.001	0.028	-0.628
9530046B11Rik	-0.514	2.916	-3.982	0.001	0.028	-0.628
2010308F09Rik	-0.534	3.378	-3.981	0.001	0.028	-0.631
Otoa	-0.404	3.581	-3.980	0.001	0.028	-0.633
Hadhb	-0.479	10.749	-3.979	0.001	0.028	-0.633
4933411K20Rik	-0.577	2.709	-3.979	0.001	0.028	-0.634
Sugct	-0.455	2.714	-3.978	0.001	0.028	-0.636
Gm5802	-0.786	5.149	-3.977	0.001	0.028	-0.637
Ulk1	-0.791	5.539	-3.976	0.001	0.028	-0.640
Ech1	-0.682	10.404	-3.976	0.001	0.028	-0.640
Rhobtb1	-0.837	6.507	-3.975	0.001	0.028	-0.643
Ntf3	-1.002	3.396	-3.974	0.001	0.028	-0.644
Fbxo24	-0.489	4.903	-3.971	0.001	0.028	-0.651
Ucp2	-0.498	12.089	-3.970	0.001	0.028	-0.653
Thtpa	-0.618	5.345	-3.969	0.001	0.028	-0.655
Dusp26	-0.588	3.842	-3.965	0.001	0.029	-0.664
Cyp4f15	-0.644	4.700	-3.964	0.001	0.029	-0.665
Pdela	-0.525	2.686	-3.963	0.001	0.029	-0.666
Foxa1	0.488	11.696	3.962	0.001	0.029	-0.670
Krt34	-0.530	3.219	-3.961	0.001	0.029	-0.670

Fam169a	-0.602	3.031	-3.961	0.001	0.029	-0.671
Sox2	0.810	8.072	3.959	0.001	0.029	-0.674
Elov16	1.049	7.536	3.959	0.001	0.029	-0.676
Cpne2	0.712	6.420	3.958	0.001	0.029	-0.677
Ppp1r2-ps9	-0.642	4.323	-3.958	0.001	0.029	-0.677
Ccdc96	-0.589	3.003	-3.958	0.001	0.029	-0.678
Psd3	-0.982	7.220	-3.957	0.001	0.029	-0.680
4933404012Rik	-0.695	4.390	-3.956	0.001	0.029	-0.681
Hdgf	0.935	8.471	3.956	0.001	0.029	-0.681
4930557J02Rik	-0.495	3.211	-3.956	0.001	0.029	-0.681
Akt2	-1.071	6.131	-3.953	0.001	0.029	-0.687
Ccp110	0.533	5.020	3.952	0.001	0.029	-0.690
Kdm8	-0.476	5.240	-3.951	0.001	0.029	-0.693
Plekhh1	-1.434	7.034	-3.949	0.001	0.029	-0.696
Dgkb	-0.627	4.344	-3.947	0.001	0.029	-0.701
Sgk1	-2.046	8.874	-3.945	0.001	0.029	-0.705
Arhgap33	-0.618	3.455	-3.942	0.001	0.029	-0.710
1110020A21Rik	-0.696	4.750	-3.942	0.001	0.029	-0.711
Vav1	0.879	4.107	3.941	0.001	0.029	-0.712
Rgs13	1.869	7.424	3.940	0.001	0.029	-0.715
Grn	0.678	10.536	3.937	0.001	0.029	-0.721
Tuba4a	0.458	12.352	3.937	0.001	0.029	-0.722
Slc48a1	-0.585	7.488	-3.935	0.001	0.029	-0.725
Prss30	-0.597	3.626	-3.934	0.001	0.029	-0.728
Epcam	1.131	10.642	3.933	0.001	0.029	-0.730
Atpl3a1	0.430	8.911	3.932	0.001	0.029	-0.730
Stac2	-0.706	3.408	-3.932	0.001	0.029	-0.731
Ptcra	-0.634	4.219	-3.931	0.001	0.029	-0.733
Sfxn4	-0.540	4.085	-3.930	0.001	0.029	-0.735
Grifin	-0.454	3.973	-3.929	0.001	0.029	-0.737
1700123K08Rik	-0.590	3.098	-3.929	0.001	0.029	-0.738
Syne1	-0.516	4.929	-3.928	0.001	0.029	-0.740
Papola	-0.712	7.909	-3.927	0.001	0.029	-0.741
Srgn	1.596	8.656	3.924	0.001	0.030	-0.747
Gm21596	0.420	10.143	3.924	0.001	0.030	-0.748
A930035D04Rik	-0.689	3.706	-3.923	0.001	0.030	-0.749
Pabpc1	0.476	12.389	3.923	0.001	0.030	-0.750
Spata511	1.136	3.580	3.921	0.001	0.030	-0.754
C030046M01Rik	-0.451	2.289	-3.920	0.001	0.030	-0.755
Tmem231	-0.378	5.289	-3.920	0.001	0.030	-0.756
Tmem64	-1.995	6.877	-3.920	0.001	0.030	-0.757
Gif	-1.654	11.801	-3.920	0.001	0.030	-0.757
6720468P15Rik	-1.243	5.081	-3.918	0.001	0.030	-0.760
Msrb2	-1.158	5.504	-3.916	0.001	0.030	-0.765
F2r11	0.605	9.268	3.912	0.001	0.030	-0.772
Sfxn3	-1.041	7.457	-3.912	0.001	0.030	-0.773
Dtnbp1	-1.043	7.403	-3.911	0.001	0.030	-0.775
Arhgap22	-0.912	6.107	-3.910	0.001	0.030	-0.776
Prnp	-1.532	7.459	-3.910	0.001	0.030	-0.778
Zfp853	-0.467	3.972	-3.907	0.001	0.030	-0.783

1810018F18Rik	-0.456	2.864	-3.907	0.001	0.030	-0.783
Ikbkb	0.853	9.034	3.906	0.001	0.030	-0.784
Rtbdn	-0.486	6.064	-3.904	0.001	0.030	-0.789
Srsf11	0.833	7.353	3.903	0.001	0.030	-0.792
6720418B01Rik	-0.439	3.101	-3.902	0.001	0.030	-0.794
Psmb4	0.586	10.801	3.901	0.001	0.030	-0.794
Cbln4	-0.571	2.900	-3.901	0.001	0.030	-0.794
Slc25a23	-1.200	6.128	-3.900	0.001	0.030	-0.797
Dpy1911	0.988	5.151	3.900	0.001	0.030	-0.798
Prom2	-1.983	5.611	-3.897	0.001	0.030	-0.803
Spats2	0.492	6.938	3.896	0.001	0.030	-0.806
Zmat4	-0.529	3.381	-3.896	0.001	0.030	-0.806
Bmp1	-0.407	6.171	-3.895	0.001	0.030	-0.808
Heatr1	0.775	8.004	3.895	0.001	0.030	-0.809
1700060J05Rik	-0.451	2.556	-3.893	0.001	0.031	-0.812
Trappc3	0.671	8.789	3.891	0.001	0.031	-0.816
Cox8c	-0.702	5.438	-3.890	0.001	0.031	-0.818
Pfkp	0.788	9.378	3.890	0.001	0.031	-0.819
Scamp2	0.501	9.685	3.888	0.001	0.031	-0.822
Ndor1	0.547	4.805	3.886	0.001	0.031	-0.826
Nr4a3	-0.578	4.055	-3.885	0.001	0.031	-0.829
Marveld3	-0.645	3.521	-3.884	0.001	0.031	-0.830
Art1	-0.483	5.352	-3.883	0.001	0.031	-0.832
Sdr9c7	-1.681	5.320	-3.883	0.001	0.031	-0.833
Sf3b1	0.635	5.920	3.881	0.001	0.031	-0.836
Mitf	-1.215	3.834	-3.881	0.001	0.031	-0.837
2210011C24Rik	-0.736	5.639	-3.881	0.001	0.031	-0.837
E230008N13Rik	-0.860	4.993	-3.880	0.001	0.031	-0.838
Nron	-0.639	3.840	-3.878	0.001	0.031	-0.842
Slc12a5	-0.462	3.905	-3.878	0.001	0.031	-0.844
Jmy	-0.823	4.735	-3.877	0.001	0.031	-0.844
Birc2	0.692	7.439	3.877	0.001	0.031	-0.845
Ppip5k1	1.034	5.897	3.875	0.001	0.031	-0.848
1810034E14Rik	-0.478	4.274	-3.875	0.001	0.031	-0.848
6030419C18Rik	-0.410	4.252	-3.875	0.001	0.031	-0.848
AW549877	-0.735	7.979	-3.875	0.001	0.031	-0.850
Gm19924	-0.502	3.689	-3.874	0.001	0.031	-0.850
Etfdh	-0.803	8.686	-3.874	0.001	0.031	-0.852
Cftr	3.801	7.052	3.873	0.001	0.031	-0.853
1700084J12Rik	-0.479	2.884	-3.873	0.001	0.031	-0.853
Axdnd1	-0.410	2.241	-3.873	0.001	0.031	-0.854
Pde8a	-0.480	8.567	-3.872	0.001	0.031	-0.856
Emilin2	-1.009	5.333	-3.871	0.001	0.031	-0.856
Gm8430	0.439	12.650	3.870	0.001	0.031	-0.859
Lrmp	1.352	7.100	3.869	0.001	0.031	-0.861
4933403L11Rik	-0.569	2.861	-3.869	0.001	0.031	-0.861
Prcl	0.869	6.941	3.868	0.001	0.031	-0.863
Sod2	-0.885	10.192	-3.867	0.001	0.031	-0.865
D730001G18Rik	-0.729	3.767	-3.867	0.001	0.031	-0.866
Sgsh	-0.498	4.855	-3.866	0.001	0.031	-0.867

Cs1	-0.491	2.791	-3.862	0.001	0.031	-0.876
Mgst1	1.631	10.887	3.859	0.001	0.031	-0.881
Atp6v0a2	0.503	5.571	3.859	0.001	0.031	-0.881
Tmed5	0.981	8.309	3.858	0.001	0.031	-0.883
Gm26831	-0.573	3.030	-3.857	0.001	0.031	-0.886
Wscd2	-0.731	3.601	-3.857	0.001	0.031	-0.886
Echs1	-0.682	9.544	-3.857	0.001	0.031	-0.886
Bpifa5	-0.521	5.375	-3.855	0.001	0.031	-0.889
5730455P16Rik	-0.596	5.136	-3.854	0.001	0.032	-0.892
Gm1965	-0.481	3.612	-3.853	0.001	0.032	-0.894
Gm20556	-0.398	2.454	-3.852	0.001	0.032	-0.896
Cnn3	-1.377	9.399	-3.851	0.001	0.032	-0.899
Efr3a	0.774	8.519	3.851	0.001	0.032	-0.899
Noxol	2.662	7.799	3.845	0.001	0.032	-0.911
Gpa33	2.314	7.477	3.845	0.001	0.032	-0.911
Ccdc57	-0.656	4.310	-3.844	0.001	0.032	-0.912
BC005764	-0.541	5.743	-3.844	0.001	0.032	-0.913
Mterfd3	-0.943	5.259	-3.844	0.001	0.032	-0.913
AW011738	-0.532	4.335	-3.844	0.001	0.032	-0.914
Hrnnpm	0.527	8.695	3.842	0.001	0.032	-0.918
Ghitm	-0.643	9.707	-3.840	0.001	0.032	-0.921
1500002F19Rik	-0.633	3.821	-3.838	0.001	0.032	-0.926
9230104L09Rik	-0.482	4.671	-3.838	0.001	0.032	-0.926
Escol	0.405	8.886	3.837	0.001	0.032	-0.926
Dpysl2	0.701	8.541	3.837	0.001	0.032	-0.927
Eif4enif1	0.335	7.775	3.837	0.001	0.032	-0.927
Mob3a	0.649	6.570	3.837	0.001	0.032	-0.927
Serpina3g	3.159	7.036	3.836	0.001	0.032	-0.930
Sord	1.490	8.378	3.835	0.001	0.032	-0.931
BC051212	-0.571	3.523	-3.835	0.001	0.032	-0.932
Cbl	0.526	7.894	3.835	0.001	0.032	-0.932
Tmem176b	1.049	10.164	3.834	0.001	0.032	-0.934
3110037L02Rik	-0.494	3.141	-3.833	0.001	0.032	-0.935
Tarsl2	-0.924	5.609	-3.833	0.001	0.032	-0.936
Clec16a	-0.502	5.056	-3.833	0.001	0.032	-0.936
2610005L07Rik	1.252	5.834	3.832	0.001	0.032	-0.938
Slfn9	1.210	6.823	3.831	0.001	0.032	-0.939
Immt	-0.991	7.311	-3.830	0.001	0.032	-0.941
Dnajb12	-0.585	5.168	-3.830	0.001	0.032	-0.942
2310040G24Rik	-0.467	3.518	-3.829	0.001	0.032	-0.943
Stil	0.905	5.068	3.829	0.001	0.032	-0.944
Olf976	-0.476	3.634	-3.828	0.001	0.032	-0.946
Fezf1	-0.615	3.265	-3.826	0.001	0.032	-0.951
Prrt3	-0.410	3.057	-3.825	0.001	0.032	-0.952
1810028F09Rik	-0.776	3.209	-3.822	0.001	0.032	-0.957
Rhcg	-0.562	4.282	-3.822	0.001	0.032	-0.959
Fbxo25	-0.890	7.415	-3.821	0.001	0.032	-0.960
Mespl	-0.541	5.405	-3.821	0.001	0.032	-0.961
Drp2	-0.822	5.209	-3.820	0.001	0.032	-0.963
Amy2a1	-3.929	5.576	-3.819	0.001	0.032	-0.964

Slc16a6	1.007	5.822	3.818	0.001	0.033	-0.967
Placl	-0.474	3.941	-3.818	0.001	0.033	-0.968
Pcdh19	-0.885	4.036	-3.817	0.001	0.033	-0.969
Sirt3	-0.538	6.545	-3.814	0.001	0.033	-0.974
4930550L24Rik	-0.442	3.751	-3.814	0.001	0.033	-0.974
Mroh1	-0.537	7.847	-3.814	0.001	0.033	-0.975
Spal7	-0.899	4.265	-3.814	0.001	0.033	-0.976
Tnfaip8	1.017	7.279	3.813	0.001	0.033	-0.976
Cd247	-0.457	3.360	-3.812	0.001	0.033	-0.979
2510046G10Rik	-0.528	4.193	-3.811	0.001	0.033	-0.981
Ift88	-0.549	6.191	-3.810	0.001	0.033	-0.984
E130006N16Rik	-0.576	4.558	-3.809	0.001	0.033	-0.985
Zfp85os	-0.500	3.042	-3.809	0.001	0.033	-0.986
Kcnj13	-1.255	6.113	-3.808	0.001	0.033	-0.987
Smg1	0.775	7.774	3.808	0.001	0.033	-0.988
Slc5a6	-0.603	4.541	-3.807	0.001	0.033	-0.990
S100a6	0.527	12.835	3.806	0.001	0.033	-0.991
Sfn	1.183	8.530	3.806	0.001	0.033	-0.992
Pepd	-0.376	8.100	-3.805	0.001	0.033	-0.993
Cst13	-0.425	3.304	-3.805	0.001	0.033	-0.993
Lancl3	-0.903	2.942	-3.805	0.001	0.033	-0.994
Map6	-0.476	4.473	-3.804	0.001	0.033	-0.995
Ptpre	1.353	6.204	3.803	0.001	0.033	-0.999
Stamos	-0.839	4.823	-3.801	0.001	0.033	-1.001
Afap111	-0.568	5.067	-3.800	0.001	0.033	-1.004
Gml2191	0.482	12.111	3.800	0.001	0.033	-1.004
Zfp712	-0.552	3.400	-3.799	0.001	0.033	-1.005
Ina	-0.461	4.952	-3.797	0.001	0.033	-1.009
Gzmd	-0.374	2.207	-3.797	0.001	0.033	-1.011
Cdk11	-1.031	3.976	-3.796	0.001	0.033	-1.011
Speer3	-0.629	4.639	-3.796	0.001	0.033	-1.012
Tmed4	-0.437	10.723	-3.795	0.001	0.033	-1.014
Ccar1	0.583	8.201	3.795	0.001	0.033	-1.014
Bdkrb2	-0.493	3.545	-3.794	0.001	0.033	-1.016
Rab19	0.890	6.880	3.794	0.001	0.033	-1.016
Csnk1a1	0.391	10.840	3.793	0.001	0.033	-1.018
5830485P09Rik	-0.532	4.097	-3.790	0.001	0.033	-1.024
Tmem139	-0.834	8.126	-3.790	0.001	0.033	-1.025
Serpina1a	0.883	10.401	3.789	0.001	0.033	-1.026
Oog3	-0.402	2.296	-3.789	0.001	0.033	-1.026
Fbxo17	-0.632	4.914	-3.788	0.001	0.033	-1.028
Car14	-0.453	4.612	-3.786	0.001	0.033	-1.032
Ttll6	-0.611	4.515	-3.786	0.001	0.033	-1.033
Tacr1	-0.478	4.087	-3.786	0.001	0.033	-1.034
Slc7a8	-1.553	6.835	-3.785	0.001	0.033	-1.035
Trpt1	-0.605	5.436	-3.785	0.001	0.033	-1.035
Cxxc5	-0.991	6.762	-3.784	0.001	0.033	-1.038
Jag2	-0.642	6.854	-3.783	0.001	0.033	-1.040
Copz2	-1.506	6.435	-3.782	0.001	0.033	-1.042
Stk19	0.720	7.014	3.782	0.001	0.033	-1.042

Urah	1.837	7.917	3.779	0.001	0.034	-1.048
Ndufs1	-0.513	9.791	-3.779	0.001	0.034	-1.048
Gm4876	-0.536	3.468	-3.779	0.001	0.034	-1.048
Dazl	-0.437	2.666	-3.778	0.001	0.034	-1.050
Slc25a37	0.942	7.173	3.777	0.001	0.034	-1.051
Chrna7	-0.467	2.614	-3.776	0.001	0.034	-1.053
Kctd12b	1.081	6.027	3.776	0.001	0.034	-1.053
Tcn2	-0.614	7.741	-3.776	0.001	0.034	-1.054
Slc5a7	-0.517	3.371	-3.776	0.001	0.034	-1.054
Mpdul	0.662	8.511	3.775	0.001	0.034	-1.055
Lingo3	-0.504	4.551	-3.774	0.001	0.034	-1.058
Inhbc	-0.581	4.078	-3.774	0.001	0.034	-1.058
Art4	-0.522	3.250	-3.774	0.001	0.034	-1.058
Bub3	0.400	9.710	3.773	0.001	0.034	-1.059
Mrpl45	0.629	8.534	3.773	0.001	0.034	-1.060
Fign	-0.569	2.842	-3.772	0.001	0.034	-1.062
Elane	-0.572	4.580	-3.767	0.001	0.034	-1.072
H60a	-0.384	2.140	-3.766	0.002	0.034	-1.074
B230208B08Rik	-0.499	3.216	-3.766	0.002	0.034	-1.074
Gp6	-0.389	3.678	-3.766	0.002	0.034	-1.074
Gm2115	-0.773	3.706	-3.766	0.002	0.034	-1.075
Max	0.780	6.573	3.764	0.002	0.034	-1.079
Fhad1	-0.546	4.120	-3.763	0.002	0.034	-1.079
Rab31	-1.496	6.671	-3.763	0.002	0.034	-1.081
Fam20c	-0.486	5.624	-3.762	0.002	0.034	-1.082
Psm13	0.817	8.509	3.760	0.002	0.034	-1.085
Furin	-1.396	9.257	-3.760	0.002	0.034	-1.086
Nme1	0.807	10.005	3.760	0.002	0.034	-1.087
AF529169	-0.563	3.302	-3.759	0.002	0.034	-1.089
Gsdmcl-ps	-0.414	3.777	-3.757	0.002	0.034	-1.094
Mettl4-ps1	-0.399	2.203	-3.756	0.002	0.034	-1.094
Hsd17b2	-0.975	8.066	-3.756	0.002	0.034	-1.095
Voppl	0.455	8.039	3.756	0.002	0.034	-1.095
Bbs4	-0.856	3.720	-3.755	0.002	0.034	-1.096
Ccb11	-0.531	6.238	-3.755	0.002	0.034	-1.097
9630028H03Rik	-0.453	3.889	-3.754	0.002	0.034	-1.098
Gnpdal	-0.617	7.058	-3.754	0.002	0.034	-1.098
Asic5	-1.094	4.117	-3.753	0.002	0.034	-1.100
Iscu	-0.666	9.099	-3.753	0.002	0.034	-1.101
D13Ertd205e	-0.727	2.731	-3.753	0.002	0.034	-1.101
Krt82	-0.537	3.078	-3.752	0.002	0.034	-1.102
Gnas	-0.578	3.232	-3.752	0.002	0.034	-1.104
4933431E20Rik	-0.608	4.563	-3.748	0.002	0.034	-1.110
Celf3	-0.644	5.997	-3.748	0.002	0.034	-1.111
Hck	1.345	7.732	3.747	0.002	0.034	-1.113
Ss18	0.389	9.410	3.747	0.002	0.034	-1.114
Sema4g	0.944	6.942	3.745	0.002	0.034	-1.117
Adss11	-1.693	5.482	-3.744	0.002	0.035	-1.119
Uba2	0.505	9.773	3.742	0.002	0.035	-1.124
9130024F11Rik	-0.467	2.287	-3.742	0.002	0.035	-1.124

Arhgef28	-0.738	8.161	-3.741	0.002	0.035	-1.126
Fam57b	-0.542	3.480	-3.740	0.002	0.035	-1.129
Irx6	-0.496	4.460	-3.739	0.002	0.035	-1.129
Rab39b	-0.549	2.683	-3.739	0.002	0.035	-1.129
4930417022Rik	-0.552	3.038	-3.739	0.002	0.035	-1.130
Os9	-0.482	9.562	-3.739	0.002	0.035	-1.130
Ctsb	-0.347	12.241	-3.738	0.002	0.035	-1.131
Gm13102	-0.370	2.524	-3.738	0.002	0.035	-1.131
Irs3	-0.521	2.780	-3.738	0.002	0.035	-1.132
Gpr75	-0.541	3.333	-3.738	0.002	0.035	-1.132
Ube2s	0.812	10.004	3.737	0.002	0.035	-1.133
Hexb	1.411	7.305	3.737	0.002	0.035	-1.133
5830458C19Rik	-0.504	2.973	-3.736	0.002	0.035	-1.135
Fn3k	-0.809	3.618	-3.736	0.002	0.035	-1.136
Defa-rs2	-0.551	7.324	-3.733	0.002	0.035	-1.143
Csmd2	-0.636	4.012	-3.733	0.002	0.035	-1.143
Hmgcr	0.643	7.679	3.732	0.002	0.035	-1.144
Dbf4	0.820	7.592	3.731	0.002	0.035	-1.146
Mak	-0.562	3.166	-3.730	0.002	0.035	-1.148
Cbs	-1.192	4.931	-3.730	0.002	0.035	-1.149
AK160502	-0.479	2.621	-3.730	0.002	0.035	-1.149
Cd3001g	-0.565	3.784	-3.728	0.002	0.035	-1.153
Trim2	-0.719	8.537	-3.727	0.002	0.035	-1.154
1700084K02Rik	-0.485	4.231	-3.727	0.002	0.035	-1.154
Umps	-0.430	2.352	-3.727	0.002	0.035	-1.155
Agtr1a	-0.612	4.548	-3.722	0.002	0.035	-1.164
4931406H21Rik	-0.562	3.511	-3.722	0.002	0.035	-1.165
1700063K16Rik	-0.582	4.362	-3.719	0.002	0.035	-1.172
Rps15a	0.432	12.297	3.714	0.002	0.036	-1.181
Pitx1	1.238	7.197	3.713	0.002	0.036	-1.183
Prph	-0.630	4.156	-3.713	0.002	0.036	-1.184
Ndst1	-0.698	4.033	-3.712	0.002	0.036	-1.186
Gm11508	-0.441	4.031	-3.711	0.002	0.036	-1.187
Mthfd21	0.841	6.270	3.711	0.002	0.036	-1.188
Ralgapa2	-0.702	8.113	-3.711	0.002	0.036	-1.189
Dok7	-0.554	6.021	-3.708	0.002	0.036	-1.193
Steap2	0.617	7.742	3.708	0.002	0.036	-1.194
Ube3a	0.670	9.527	3.707	0.002	0.036	-1.195
Gm10029	0.359	12.427	3.707	0.002	0.036	-1.197
Park2	-0.732	4.170	-3.706	0.002	0.036	-1.197
K1	-0.510	3.357	-3.706	0.002	0.036	-1.198
AK052226	-0.626	4.997	-3.702	0.002	0.036	-1.205
Smim19	-0.586	7.174	-3.701	0.002	0.036	-1.208
Tmsb15a	-0.575	3.104	-3.701	0.002	0.036	-1.208
Asphd2	-0.548	4.347	-3.700	0.002	0.036	-1.210
Rbmx12	-0.405	3.302	-3.699	0.002	0.036	-1.212
St18	-0.624	3.760	-3.699	0.002	0.036	-1.213
Mapk8ip2	-0.404	5.674	-3.697	0.002	0.036	-1.216
Zfp708	-0.472	2.859	-3.697	0.002	0.036	-1.217
Cby3	-0.519	3.187	-3.697	0.002	0.036	-1.217

Snhg8	0.814	10.993	3.696	0.002	0.036	-1.218
Nab1	0.707	9.859	3.695	0.002	0.036	-1.221
Gm11744	-0.552	4.988	-3.694	0.002	0.037	-1.224
E130112B07Rik	-0.577	3.753	-3.693	0.002	0.037	-1.224
R1f	0.720	6.340	3.692	0.002	0.037	-1.226
Arl4d	-0.651	5.459	-3.692	0.002	0.037	-1.227
Pdzrn3	1.928	6.545	3.691	0.002	0.037	-1.230
Plekha7	0.641	8.424	3.690	0.002	0.037	-1.231
Slco5a1	-0.549	4.552	-3.688	0.002	0.037	-1.234
Nkx2-2	-0.678	3.416	-3.686	0.002	0.037	-1.239
Lrrc40	0.633	6.983	3.686	0.002	0.037	-1.239
Sox14	-0.516	5.855	-3.686	0.002	0.037	-1.239
Hs3st4	-0.424	3.718	-3.686	0.002	0.037	-1.240
BC023202	-0.650	5.048	-3.685	0.002	0.037	-1.240
Ssu2	-0.507	4.527	-3.685	0.002	0.037	-1.241
1700007K13Rik	-0.681	3.441	-3.685	0.002	0.037	-1.242
Gdf15	-0.468	5.845	-3.685	0.002	0.037	-1.242
Tbc1d16	-0.974	6.004	-3.684	0.002	0.037	-1.244
Fbxo7	-0.373	7.734	-3.683	0.002	0.037	-1.245
Tial	1.385	7.212	3.683	0.002	0.037	-1.246
Trip12	0.445	10.419	3.682	0.002	0.037	-1.248
Dzip3	-0.457	5.923	-3.681	0.002	0.037	-1.250
Mcg1038069	0.503	9.616	3.680	0.002	0.037	-1.252
Itfgl	-0.451	9.085	-3.680	0.002	0.037	-1.252
2900052L18Rik	-0.718	4.870	-3.679	0.002	0.037	-1.254
Gapvdl	0.447	9.868	3.679	0.002	0.037	-1.254
Flcn	-0.566	6.875	-3.679	0.002	0.037	-1.255
Ecell	-0.741	3.844	-3.677	0.002	0.037	-1.257
Nefm	-0.659	3.118	-3.675	0.002	0.037	-1.261
4930449E01Rik	-0.520	5.007	-3.675	0.002	0.037	-1.263
Tnfrsf25	-0.483	4.532	-3.674	0.002	0.037	-1.263
Dnaja4	-0.932	5.885	-3.670	0.002	0.037	-1.271
AU020206	1.607	7.419	3.670	0.002	0.037	-1.273
Gpr123	-0.496	3.702	-3.669	0.002	0.037	-1.275
Elov15	1.795	8.096	3.668	0.002	0.037	-1.275
Emc3	0.377	9.811	3.668	0.002	0.037	-1.277
Ccl9	1.409	5.728	3.667	0.002	0.037	-1.277
Nup98	0.485	8.597	3.666	0.002	0.038	-1.281
Zfp804a	-0.380	2.485	-3.665	0.002	0.038	-1.283
Opalin	-0.541	4.267	-3.665	0.002	0.038	-1.283
Golga7b	-0.606	6.203	-3.664	0.002	0.038	-1.284
Atp10b	-0.469	3.690	-3.663	0.002	0.038	-1.286
Gramd1c	-0.665	6.295	-3.663	0.002	0.038	-1.286
Csnk2a2	0.811	5.355	3.663	0.002	0.038	-1.286
1700001G17Rik	-0.544	4.795	-3.663	0.002	0.038	-1.287
Cyp2j6	-0.783	8.512	-3.661	0.002	0.038	-1.291
2500004C02Rik	-0.531	2.678	-3.659	0.002	0.038	-1.295
Rabac1	-0.671	10.021	-3.658	0.002	0.038	-1.296
Fam19a2	-0.421	3.277	-3.657	0.002	0.038	-1.298
A830005F24Rik	-0.556	5.129	-3.657	0.002	0.038	-1.299

Got111	-0.501	3.620	-3.656	0.002	0.038	-1.301
Dpagt1	0.445	8.498	3.655	0.002	0.038	-1.302
4930473022Rik	-0.600	3.765	-3.655	0.002	0.038	-1.303
Clic3	-1.041	5.965	-3.654	0.002	0.038	-1.304
Alox12	-0.543	4.256	-3.654	0.002	0.038	-1.304
P11p	-0.439	10.842	-3.654	0.002	0.038	-1.305
2810433D01Rik	-0.500	2.492	-3.654	0.002	0.038	-1.306
Slc39a11	-0.783	10.229	-3.654	0.002	0.038	-1.306
Vegfb	-1.403	7.696	-3.652	0.002	0.038	-1.310
Sdad1	0.544	6.994	3.651	0.002	0.038	-1.311
Tubb4a	-0.509	5.903	-3.650	0.002	0.038	-1.313
2610507I01Rik	-0.712	5.219	-3.649	0.002	0.038	-1.315
Ly75	1.665	5.007	3.648	0.002	0.038	-1.317
Lgi3	-0.545	2.747	-3.648	0.002	0.038	-1.318
Tmc8	-0.514	7.243	-3.647	0.002	0.038	-1.320
Olfr112	-0.434	2.912	-3.647	0.002	0.038	-1.320
Gm7056	-0.443	2.563	-3.647	0.002	0.038	-1.320
Chml	-0.712	3.598	-3.645	0.002	0.038	-1.325
LOC102637400	-0.450	2.938	-3.644	0.002	0.038	-1.326
Hcn2	-0.497	4.564	-3.644	0.002	0.038	-1.326
Arhgap17	0.628	7.287	3.641	0.002	0.039	-1.333
Traf6	-0.568	4.953	-3.638	0.002	0.039	-1.337
Sox15	-0.560	3.856	-3.638	0.002	0.039	-1.338
Alg9	0.439	8.394	3.638	0.002	0.039	-1.339
Cgrrf1	-0.556	6.404	-3.637	0.002	0.039	-1.339
Grik1	-0.501	2.487	-3.637	0.002	0.039	-1.341
App	-0.853	10.744	-3.637	0.002	0.039	-1.341
Gm17244	-0.455	3.187	-3.637	0.002	0.039	-1.341
Rnps1	0.586	9.601	3.636	0.002	0.039	-1.341
Srrt	0.644	8.127	3.636	0.002	0.039	-1.342
Mug1	-3.304	5.082	-3.635	0.002	0.039	-1.344
Ctss	2.448	9.230	3.635	0.002	0.039	-1.344
Otud7a	-0.499	2.959	-3.635	0.002	0.039	-1.344
Eif3e	-0.504	3.644	-3.635	0.002	0.039	-1.344
Dgat2	0.949	9.112	3.634	0.002	0.039	-1.347
Yod1	1.015	5.742	3.631	0.002	0.039	-1.352
Obox6	-0.486	3.951	-3.631	0.002	0.039	-1.352
C80889	-0.550	3.201	-3.631	0.002	0.039	-1.353
Cnn2	1.436	7.379	3.630	0.002	0.039	-1.354
Zscan20	-0.480	4.455	-3.630	0.002	0.039	-1.355
H2-Aa	3.326	11.260	3.629	0.002	0.039	-1.356
4930402F06Rik	-0.514	3.171	-3.629	0.002	0.039	-1.357
Taf9b	-1.034	5.320	-3.628	0.002	0.039	-1.359
9330169B04Rik	-0.408	2.332	-3.628	0.002	0.039	-1.360
Alkbh1	0.847	6.618	3.627	0.002	0.039	-1.361
Pvr13	0.934	5.227	3.625	0.002	0.039	-1.365
Cebpd	1.774	8.373	3.624	0.002	0.039	-1.367
Fam19a4	-0.458	3.956	-3.624	0.002	0.039	-1.367
Rel11	0.647	8.498	3.624	0.002	0.039	-1.368
Mylk	-0.417	4.309	-3.624	0.002	0.039	-1.368

Gm11651	-0.586	3.233	-3.624	0.002	0.039	-1.368
Klh110	-0.622	3.315	-3.624	0.002	0.039	-1.368
Strm	-0.520	4.914	-3.623	0.002	0.039	-1.369
Gpr3711	-0.524	4.025	-3.622	0.002	0.039	-1.371
Eda	-0.475	5.131	-3.621	0.002	0.039	-1.372
Ubqln1	-0.550	4.281	-3.621	0.002	0.039	-1.373
Gsdmc2	2.431	8.840	3.621	0.002	0.039	-1.373
Baz1a	1.049	8.002	3.621	0.002	0.039	-1.374
Trim25	0.485	10.677	3.620	0.002	0.039	-1.375
Wdsub1	-1.222	7.334	-3.620	0.002	0.039	-1.375
Zdhhc24	-0.587	5.352	-3.620	0.002	0.039	-1.376
Grhpr	-1.007	8.336	-3.619	0.002	0.039	-1.377
Stampb	-0.502	6.418	-3.619	0.002	0.039	-1.378
Naip2	0.719	7.383	3.618	0.002	0.039	-1.379
Icel	0.500	6.678	3.618	0.002	0.039	-1.379
Abhd16b	-0.469	3.156	-3.616	0.002	0.039	-1.383
Pnlip	-0.483	3.554	-3.616	0.002	0.039	-1.383
2310001K24Rik	-0.583	5.434	-3.616	0.002	0.039	-1.383
Zfp710	0.393	7.718	3.615	0.002	0.039	-1.385
Nxf2	-0.467	3.231	-3.615	0.002	0.039	-1.385
Plcg2	0.539	8.203	3.615	0.002	0.039	-1.386
Kcnmb2	-0.794	4.943	-3.614	0.002	0.039	-1.387
Tmem175	-0.548	5.196	-3.614	0.002	0.039	-1.387
Fam57a	0.488	8.363	3.614	0.002	0.039	-1.387
5033430I15Rik	0.711	3.929	3.614	0.002	0.039	-1.388
Syt1	-0.405	3.181	-3.613	0.002	0.039	-1.390
Zbed3	-0.598	3.407	-3.612	0.002	0.039	-1.391
Dazap1	0.488	8.667	3.612	0.002	0.039	-1.392
9130410C08Rik	-0.488	3.233	-3.610	0.002	0.039	-1.395
Fgf4	-0.601	2.868	-3.610	0.002	0.039	-1.396
Mc3r	-0.359	4.274	-3.609	0.002	0.039	-1.397
Dlk2	-0.557	5.750	-3.607	0.002	0.039	-1.401
Cript	-0.543	9.027	-3.607	0.002	0.039	-1.402
Pnliprpl	-2.065	7.836	-3.606	0.002	0.039	-1.403
2900060N12Rik	-0.717	3.323	-3.606	0.002	0.039	-1.403
Spaml	-0.389	2.584	-3.605	0.002	0.039	-1.406
Hira	-0.785	6.579	-3.605	0.002	0.039	-1.406
Cbx6	0.665	7.390	3.604	0.002	0.039	-1.408
4930473H19Rik	-0.582	4.023	-3.604	0.002	0.039	-1.408
C77905	-0.569	4.332	-3.603	0.002	0.039	-1.410
4930592C13Rik	-0.587	3.852	-3.602	0.002	0.039	-1.412
Isca1	-0.610	9.714	-3.602	0.002	0.039	-1.412
Ubox5	-0.671	5.719	-3.602	0.002	0.039	-1.413
Steap3	-0.561	5.888	-3.601	0.002	0.039	-1.414
Tstd1	-0.962	7.899	-3.601	0.002	0.039	-1.414
Gas213	0.975	6.395	3.600	0.002	0.039	-1.416
Lhfp15	-0.575	4.928	-3.600	0.002	0.039	-1.416
4930488B22Rik	-0.552	4.102	-3.600	0.002	0.039	-1.417
Set	0.630	10.149	3.599	0.002	0.039	-1.418
Rgs12	-0.634	3.818	-3.599	0.002	0.039	-1.419

H2afy	0.748	10.046	3.598	0.002	0.039	-1.420
Lkaaearl	-0.460	2.631	-3.598	0.002	0.039	-1.421
E2f2	0.692	6.642	3.597	0.002	0.040	-1.423
AI662270	1.997	4.490	3.596	0.002	0.040	-1.425
Gstt4	-0.436	3.159	-3.594	0.002	0.040	-1.429
Cntnap5a	-0.550	2.425	-3.593	0.002	0.040	-1.431
2900022M07Rik	-0.490	2.625	-3.593	0.002	0.040	-1.432
Itga3	0.574	8.412	3.592	0.002	0.040	-1.433
Gm9769	0.431	10.551	3.592	0.002	0.040	-1.433
BB557941	-0.540	3.534	-3.591	0.002	0.040	-1.434
Pspcl	0.604	6.698	3.590	0.002	0.040	-1.436
Gpr110	-0.483	2.524	-3.590	0.002	0.040	-1.437
Crat	-0.984	6.983	-3.589	0.002	0.040	-1.438
4930524007Rik	-0.479	5.807	-3.589	0.002	0.040	-1.439
Aplp1	-1.007	6.721	-3.589	0.002	0.040	-1.439
Pamr1	-0.987	4.173	-3.587	0.002	0.040	-1.442
Mta2	0.496	8.217	3.587	0.002	0.040	-1.443
Pcdhb19	-0.524	3.432	-3.587	0.002	0.040	-1.443
Bckdha	-1.053	8.166	-3.587	0.002	0.040	-1.443
Rpl18	0.540	11.774	3.587	0.002	0.040	-1.443
Pex5l	-0.490	3.905	-3.587	0.002	0.040	-1.443
Shb	0.496	8.622	3.587	0.002	0.040	-1.444
Fam120aos	-0.639	7.383	-3.586	0.002	0.040	-1.445
Pbld1	-1.197	4.243	-3.585	0.002	0.040	-1.448
Pgbd1	-0.560	4.145	-3.584	0.002	0.040	-1.448
A630039003Rik	-0.396	3.367	-3.583	0.002	0.040	-1.451
Lmo4	1.019	9.685	3.583	0.002	0.040	-1.451
Tgfb3	-0.768	4.047	-3.582	0.002	0.040	-1.453
Emc9	-0.547	6.209	-3.582	0.002	0.040	-1.453
Cdan1	-0.765	4.659	-3.582	0.002	0.040	-1.453
Ccdc42os	-0.627	4.938	-3.581	0.002	0.040	-1.455
Acta1	-0.515	4.968	-3.581	0.002	0.040	-1.455
Cacng8	-0.627	4.432	-3.579	0.002	0.040	-1.459
Vmn2r103	-0.683	2.847	-3.579	0.002	0.040	-1.460
DQ699523	-0.608	4.070	-3.579	0.002	0.040	-1.460
Tmcc2	-0.602	4.858	-3.578	0.002	0.040	-1.462
Hrnnpu	0.373	10.131	3.577	0.002	0.040	-1.463
Lyrn9	-0.712	5.232	-3.577	0.002	0.040	-1.464
Lrrfip1	0.683	10.098	3.576	0.002	0.040	-1.465
Epor	-0.521	5.865	-3.576	0.002	0.040	-1.465
Rtn4	1.924	8.037	3.575	0.002	0.040	-1.468
Tle3	0.630	6.157	3.574	0.002	0.040	-1.469
Ran	0.621	11.485	3.574	0.002	0.040	-1.469
Sdha	-0.388	10.726	-3.574	0.002	0.040	-1.469
Hsd11	-0.664	7.530	-3.573	0.002	0.040	-1.471
Tbx15	-0.409	2.815	-3.573	0.002	0.040	-1.472
Fam73b	-0.484	5.094	-3.572	0.002	0.040	-1.473
Slc41a2	-0.549	8.469	-3.571	0.002	0.040	-1.475
Bex2	-1.157	6.473	-3.571	0.002	0.040	-1.477
Tgm2	2.981	8.689	3.570	0.002	0.040	-1.477

Gm10308	-0.458	2.688	-3.570	0.002	0.040	-1.479
Hist2h2aa2	-1.381	6.911	-3.569	0.002	0.040	-1.481
Tmem151a	-1.458	8.447	-3.569	0.002	0.040	-1.481
Krt77	-0.475	4.215	-3.566	0.002	0.041	-1.485
Rorc	-0.825	5.571	-3.566	0.002	0.041	-1.487
Pmfbp1	-0.514	5.378	-3.565	0.002	0.041	-1.489
2410131K14Rik	-0.666	4.231	-3.564	0.002	0.041	-1.490
Wipf1	0.771	5.670	3.564	0.002	0.041	-1.491
Ncoa5	0.572	6.664	3.563	0.002	0.041	-1.492
Spns2	1.260	8.317	3.563	0.002	0.041	-1.492
Speer6-ps1	-0.463	2.233	-3.563	0.002	0.041	-1.493
Cacnale	-0.607	4.271	-3.562	0.002	0.041	-1.494
Dcbld2	-0.834	5.864	-3.562	0.002	0.041	-1.494
Prss23	-2.003	7.708	-3.562	0.002	0.041	-1.495
Mccc1	-1.434	8.950	-3.560	0.002	0.041	-1.499
Eps8	1.005	9.239	3.560	0.002	0.041	-1.499
Cobl	-2.026	6.927	-3.560	0.002	0.041	-1.499
Fam228a	-0.504	4.126	-3.559	0.002	0.041	-1.500
Coq9	-0.785	9.150	-3.558	0.002	0.041	-1.502
Fgf18	-0.991	3.832	-3.558	0.002	0.041	-1.502
Tex43	-0.467	4.300	-3.555	0.002	0.041	-1.508
I19	-0.540	5.268	-3.554	0.002	0.041	-1.510
Tshz1	0.486	7.733	3.554	0.002	0.041	-1.511
Mblac1	-0.557	4.556	-3.553	0.002	0.041	-1.513
Ephx2	-1.157	8.710	-3.553	0.002	0.041	-1.514
5730415C11Rik	-0.489	3.368	-3.552	0.002	0.041	-1.514
Ypel4	-0.414	3.452	-3.552	0.002	0.041	-1.516
Hdgf11	-0.505	3.093	-3.551	0.002	0.041	-1.516
Atp6v1c1	-0.506	8.619	-3.551	0.002	0.041	-1.518
Exoc312	-0.593	3.569	-3.551	0.002	0.041	-1.518
Rexo4	0.690	7.773	3.550	0.002	0.041	-1.520
Prr3	0.501	4.763	3.549	0.002	0.041	-1.521
Zfp454	-0.479	3.765	-3.549	0.002	0.041	-1.522
Nop56	0.644	7.536	3.549	0.002	0.041	-1.522
4933428G20Rik	-0.480	2.758	-3.547	0.002	0.041	-1.525
Gm10750	-0.551	4.873	-3.547	0.002	0.041	-1.526
Prss32	2.012	6.887	3.546	0.002	0.041	-1.526
Gm10052	1.132	7.351	3.545	0.002	0.041	-1.528
Tex101	-0.501	3.188	-3.545	0.002	0.041	-1.529
Muc4	2.712	7.314	3.541	0.002	0.042	-1.538
4930402H05Rik	-0.452	2.891	-3.540	0.002	0.042	-1.539
Fam98b	0.497	8.324	3.540	0.002	0.042	-1.539
Rbm26	0.960	6.616	3.540	0.002	0.042	-1.539
Alox5ap	1.313	8.370	3.540	0.002	0.042	-1.539
Dnajc4	-0.419	7.530	-3.540	0.002	0.042	-1.540
Gm10590	-0.602	5.225	-3.539	0.002	0.042	-1.541
4933425M03Rik	-0.482	2.848	-3.537	0.002	0.042	-1.545
4933440J02Rik	-0.543	2.688	-3.537	0.002	0.042	-1.546
Fam163b	-0.550	4.251	-3.537	0.002	0.042	-1.546
Frrs1	0.686	7.791	3.534	0.002	0.042	-1.551

Eef1g	0.432	11.919	3.532	0.003	0.042	-1.555
9430027B09Rik	-0.448	3.274	-3.531	0.003	0.042	-1.557
Dennd2c	-0.568	4.286	-3.530	0.003	0.042	-1.560
Hsbp111	-1.662	4.168	-3.530	0.003	0.042	-1.561
Kcne1	-1.225	4.832	-3.529	0.003	0.042	-1.561
Ppp1r1c	-0.684	3.860	-3.529	0.003	0.042	-1.563
1700008003Rik	-0.449	3.188	-3.529	0.003	0.042	-1.563
Gn13	0.808	8.439	3.527	0.003	0.042	-1.565
A230070E04Rik	-0.396	4.703	-3.527	0.003	0.042	-1.565
Reep4	0.452	7.819	3.527	0.003	0.042	-1.566
LOC102641779	-0.562	4.969	-3.527	0.003	0.042	-1.567
Fos	1.501	10.673	3.526	0.003	0.042	-1.568
Acap1	0.759	5.845	3.526	0.003	0.042	-1.569
Ttc25	-0.383	2.999	-3.526	0.003	0.042	-1.569
Vars2	-0.818	6.663	-3.526	0.003	0.042	-1.569
4930571K23Rik	-0.553	3.933	-3.524	0.003	0.042	-1.573
Upk1a	-0.488	5.147	-3.523	0.003	0.042	-1.575
Sgms2	-0.743	8.907	-3.523	0.003	0.042	-1.575
Rsph3a	-0.647	9.160	-3.523	0.003	0.042	-1.575
Prm3	-0.467	4.543	-3.522	0.003	0.042	-1.577
Lhb	-0.502	4.444	-3.521	0.003	0.042	-1.578
Gtpbp4	0.987	6.773	3.521	0.003	0.042	-1.579
LOC102643254	0.548	9.216	3.520	0.003	0.042	-1.580
Tbc1d8	-0.829	6.093	-3.520	0.003	0.042	-1.581
Cblc	0.629	8.313	3.519	0.003	0.042	-1.582
Adil	-0.929	8.599	-3.519	0.003	0.042	-1.582
Kazald1	-1.040	5.861	-3.516	0.003	0.043	-1.589
Dnttip1	0.464	8.356	3.515	0.003	0.043	-1.590
AA516738	-0.496	2.908	-3.515	0.003	0.043	-1.591
Kcnab1	-0.561	3.171	-3.514	0.003	0.043	-1.592
Trank1	-0.566	4.027	-3.513	0.003	0.043	-1.594
Rhbdf1	0.927	7.392	3.513	0.003	0.043	-1.596
Sptb	-0.496	4.722	-3.512	0.003	0.043	-1.598
Mfsd2a	1.386	7.040	3.511	0.003	0.043	-1.599
BC037039	-0.399	3.064	-3.511	0.003	0.043	-1.599
Slc4a7	0.696	9.078	3.511	0.003	0.043	-1.600
4933415A04Rik	-0.659	3.874	-3.509	0.003	0.043	-1.603
Muc5ac	-0.830	12.519	-3.509	0.003	0.043	-1.604
Hist3h2ba	-0.645	4.074	-3.508	0.003	0.043	-1.605
Raly1	-0.419	4.191	-3.506	0.003	0.043	-1.609
Pde7a	0.952	5.931	3.506	0.003	0.043	-1.610
Acat1	-0.852	7.509	-3.505	0.003	0.043	-1.612
Chchd10	-0.639	11.013	-3.505	0.003	0.043	-1.612
A230046K03Rik	-0.849	7.093	-3.505	0.003	0.043	-1.612
Fgd4	-0.895	4.868	-3.505	0.003	0.043	-1.612
Pdk2	-0.866	7.267	-3.504	0.003	0.043	-1.613
Lrat	-0.468	2.650	-3.504	0.003	0.043	-1.613
Acadsb	-1.390	8.526	-3.502	0.003	0.043	-1.617
Mogat2	1.618	8.143	3.502	0.003	0.043	-1.617
Sh2b1	-0.460	3.208	-3.502	0.003	0.043	-1.618

Mkl1	-0.431	7.396	-3.501	0.003	0.043	-1.619
C230073G13Rik	-0.455	3.299	-3.500	0.003	0.043	-1.621
Ttyh3	0.638	6.588	3.500	0.003	0.043	-1.621
Bloc1s2	0.504	8.152	3.499	0.003	0.043	-1.624
Hagh	-0.857	7.883	-3.499	0.003	0.043	-1.624
Armc10	0.501	7.881	3.499	0.003	0.043	-1.624
Gml3826	0.414	12.072	3.498	0.003	0.043	-1.625
Lrrn4c1	-0.502	4.322	-3.497	0.003	0.043	-1.627
Mt3	-0.430	5.178	-3.497	0.003	0.043	-1.628
C2cd21	-0.312	7.160	-3.496	0.003	0.044	-1.629
LOC102633368	-0.479	2.469	-3.496	0.003	0.044	-1.630
Cdc42se2	0.433	7.709	3.496	0.003	0.044	-1.631
Aplg2	0.576	7.586	3.495	0.003	0.044	-1.632
4930509E16Rik	-0.818	3.015	-3.494	0.003	0.044	-1.633
4930503B20Rik	-0.384	2.653	-3.494	0.003	0.044	-1.635
Gstk1	-1.233	9.583	-3.493	0.003	0.044	-1.635
AW125324	-0.585	3.316	-3.493	0.003	0.044	-1.637
Elf1	0.528	7.909	3.492	0.003	0.044	-1.637
Vmnlr44	-0.761	6.759	-3.492	0.003	0.044	-1.639
Myzap	-0.907	6.320	-3.492	0.003	0.044	-1.639
Mettl1	1.203	7.197	3.492	0.003	0.044	-1.639
Aigl	-0.767	8.135	-3.491	0.003	0.044	-1.640
Hs3st6	-0.513	4.779	-3.491	0.003	0.044	-1.641
2610307P16Rik	-0.401	2.669	-3.490	0.003	0.044	-1.643
Erv3	-0.462	3.071	-3.489	0.003	0.044	-1.644
Tmem62	-0.500	8.128	-3.487	0.003	0.044	-1.648
Pgrmc1	-0.519	10.296	-3.487	0.003	0.044	-1.649
Fbxl15	-0.522	5.705	-3.487	0.003	0.044	-1.649
Ccl27a	-0.747	4.431	-3.485	0.003	0.044	-1.652
Car11	-0.541	5.012	-3.485	0.003	0.044	-1.653
Rcc2	0.524	7.937	3.483	0.003	0.044	-1.657
Stradb	-1.053	7.567	-3.483	0.003	0.044	-1.657
Eogt	0.401	6.472	3.482	0.003	0.044	-1.659
Wipf3	-0.922	5.417	-3.482	0.003	0.044	-1.659
Hmgb3	0.747	7.285	3.481	0.003	0.044	-1.660
BC022687	-1.180	5.956	-3.481	0.003	0.044	-1.661
BC018473	-0.468	2.581	-3.481	0.003	0.044	-1.661
Mfsd11	-0.514	4.666	-3.481	0.003	0.044	-1.661
B230118H07Rik	-1.096	7.723	-3.480	0.003	0.044	-1.662
Snap47	-0.482	7.384	-3.480	0.003	0.044	-1.662
D630032N06Rik	-0.652	5.137	-3.480	0.003	0.044	-1.663
Gpatch4	0.918	5.538	3.479	0.003	0.044	-1.665
Fam46c	-1.926	5.741	-3.479	0.003	0.044	-1.665
Sp8	-0.370	2.695	-3.477	0.003	0.044	-1.669
Zfp60	-0.510	3.187	-3.477	0.003	0.044	-1.670
D2hgdh	-0.441	5.241	-3.475	0.003	0.044	-1.673
Galt	-0.470	8.234	-3.473	0.003	0.045	-1.677
Tmem161b	-0.664	8.176	-3.472	0.003	0.045	-1.678
Arpclb	1.039	9.959	3.472	0.003	0.045	-1.680
C1ra	2.408	7.136	3.471	0.003	0.045	-1.680

Olfir70	-0.536	3.622	-3.470	0.003	0.045	-1.682
Pld6	-1.544	4.695	-3.468	0.003	0.045	-1.687
LOC100043315	-0.366	2.494	-3.467	0.003	0.045	-1.689
Osbp11a	-1.338	6.676	-3.467	0.003	0.045	-1.690
Slc25a1	0.467	10.315	3.467	0.003	0.045	-1.690
Rassf5	0.947	4.570	3.467	0.003	0.045	-1.690
Ell3	-0.978	4.858	-3.466	0.003	0.045	-1.692
Cd52	2.364	7.654	3.466	0.003	0.045	-1.692
Leng9	-0.364	4.834	-3.466	0.003	0.045	-1.692
Asb11	-1.210	5.621	-3.466	0.003	0.045	-1.692
Gga2	-1.792	9.010	-3.465	0.003	0.045	-1.693
2410089E03Rik	-0.601	5.062	-3.463	0.003	0.045	-1.697
Cds1	-0.912	8.004	-3.463	0.003	0.045	-1.698
Rilp12	0.997	8.226	3.461	0.003	0.045	-1.702
Cflar	0.510	7.072	3.461	0.003	0.045	-1.702
St3gal3	-0.628	4.076	-3.461	0.003	0.045	-1.702
Dnajc12	-0.977	7.908	-3.460	0.003	0.045	-1.704
Proser2	0.700	6.724	3.459	0.003	0.045	-1.705
Grin1	-0.572	6.111	-3.459	0.003	0.045	-1.705
Nfkbid	0.545	5.710	3.459	0.003	0.045	-1.707
Carhsp1	-0.625	7.928	-3.458	0.003	0.045	-1.707
Gipc3	-0.543	3.876	-3.458	0.003	0.045	-1.708
LOC102640476	-0.551	4.211	-3.457	0.003	0.045	-1.709
Wdr96	-0.524	2.727	-3.457	0.003	0.045	-1.709
Il18r1	1.350	7.005	3.454	0.003	0.046	-1.716
Cabs1	-0.499	3.029	-3.453	0.003	0.046	-1.719
Eif3c	-0.575	10.667	-3.452	0.003	0.046	-1.719
Nr2c2ap	0.438	7.353	3.452	0.003	0.046	-1.721
Cox8a	-0.387	11.406	-3.451	0.003	0.046	-1.721
Edc4	0.495	7.455	3.451	0.003	0.046	-1.722
Krt20	1.201	11.064	3.450	0.003	0.046	-1.723
Tnn	-1.613	7.060	-3.450	0.003	0.046	-1.724
Adipor2	-0.482	10.621	-3.450	0.003	0.046	-1.725
Rdh16	-0.623	6.085	-3.450	0.003	0.046	-1.725
Dcaf13	0.557	9.595	3.449	0.003	0.046	-1.727
Cntln	-0.595	4.719	-3.449	0.003	0.046	-1.727
Mef2a	-0.644	5.612	-3.449	0.003	0.046	-1.727
Cpm	-1.412	7.670	-3.449	0.003	0.046	-1.727
Slco1c1	-0.479	2.873	-3.448	0.003	0.046	-1.727
Syp	-1.106	4.714	-3.448	0.003	0.046	-1.728
Mug-ps1	-2.595	4.687	-3.448	0.003	0.046	-1.728
Rab15	1.053	7.868	3.447	0.003	0.046	-1.731
Casq2	-0.569	4.357	-3.447	0.003	0.046	-1.731
AW124847	-0.520	5.885	-3.447	0.003	0.046	-1.731
Gale	0.667	10.099	3.446	0.003	0.046	-1.733
Ube2b	-0.582	8.343	-3.446	0.003	0.046	-1.733
1700104B16Rik	-0.590	3.120	-3.445	0.003	0.046	-1.734
G1ra2	-0.328	2.409	-3.444	0.003	0.046	-1.736
Zbtb8b	-0.585	3.319	-3.443	0.003	0.046	-1.738
Ub15	-0.401	8.069	-3.442	0.003	0.046	-1.741

3110035E14Rik	-0.492	3.258	-3.440	0.003	0.046	-1.745
Pcdh8	-0.469	2.545	-3.439	0.003	0.046	-1.746
Ap3m2	-0.513	5.055	-3.439	0.003	0.046	-1.747
Farsa	0.640	7.561	3.438	0.003	0.046	-1.749
Rnf165	-0.593	3.734	-3.437	0.003	0.046	-1.751
Prrg1	-0.601	5.063	-3.437	0.003	0.046	-1.752
Bail	-0.604	5.214	-3.436	0.003	0.046	-1.752
Snapc1	0.658	7.021	3.436	0.003	0.046	-1.752
Vamp5	0.883	7.125	3.435	0.003	0.046	-1.755
Hpvc-ps	-0.578	3.095	-3.434	0.003	0.046	-1.756
Unc93b1	1.028	7.068	3.434	0.003	0.046	-1.757
4930568A13Rik	-0.441	2.298	-3.433	0.003	0.046	-1.758
Peg3	-0.793	6.635	-3.432	0.003	0.047	-1.761
Slc25a30	-0.641	5.919	-3.432	0.003	0.047	-1.761
1700029P11Rik	-0.505	4.383	-3.432	0.003	0.047	-1.762
Aqp4	-2.451	5.492	-3.431	0.003	0.047	-1.763
Tbcd4	-0.722	5.255	-3.430	0.003	0.047	-1.765
Map7d1	1.080	6.862	3.430	0.003	0.047	-1.765
Gm2102	-0.451	2.690	-3.429	0.003	0.047	-1.766
El12	-0.757	9.434	-3.429	0.003	0.047	-1.767
Bax	0.619	8.011	3.429	0.003	0.047	-1.767
1110032A03Rik	-1.079	7.466	-3.428	0.003	0.047	-1.768
Gm10125	-0.465	6.445	-3.428	0.003	0.047	-1.768
Pdia5	0.741	8.640	3.428	0.003	0.047	-1.770
1700010B08Rik	-0.444	4.163	-3.427	0.003	0.047	-1.771
Grk1	-0.519	3.159	-3.426	0.003	0.047	-1.773
E130304I02Rik	-0.448	3.712	-3.426	0.003	0.047	-1.773
Ctsc	1.020	10.363	3.426	0.003	0.047	-1.773
Rbm14	0.826	8.657	3.425	0.003	0.047	-1.774
2210011C24Rik	-1.637	5.829	-3.425	0.003	0.047	-1.776
Fhdcl	-0.488	8.522	-3.424	0.003	0.047	-1.777
Il2rg	2.191	6.406	3.424	0.003	0.047	-1.777
Pgam2	-0.426	4.033	-3.424	0.003	0.047	-1.777
Rnft2	-0.452	3.379	-3.424	0.003	0.047	-1.778
Ostm1	-0.439	7.516	-3.423	0.003	0.047	-1.779
AK077405	-0.414	3.329	-3.421	0.003	0.047	-1.784
Morn5	-0.514	3.658	-3.421	0.003	0.047	-1.784
Emilin3	-0.452	6.012	-3.420	0.003	0.047	-1.786
Ccdc150	-0.454	5.289	-3.417	0.003	0.047	-1.791
Tcf24	-0.841	3.678	-3.416	0.003	0.047	-1.793
Evi5l	-0.584	4.908	-3.416	0.003	0.047	-1.793
1700122011Rik	-0.528	4.489	-3.416	0.003	0.047	-1.793
Lphn2	0.546	8.051	3.416	0.003	0.047	-1.794
Gstt2	0.658	8.070	3.415	0.003	0.047	-1.796
Spsb1	0.979	5.949	3.414	0.003	0.047	-1.797
Adamdec1	0.791	8.889	3.414	0.003	0.047	-1.798
Ptgds	-0.664	6.639	-3.413	0.003	0.047	-1.799
Atp5h	-0.523	11.872	-3.413	0.003	0.047	-1.800
Fbxw24	-0.573	2.935	-3.413	0.003	0.047	-1.801
Papss1	0.420	9.915	3.412	0.003	0.047	-1.802

Hoxd3	-0.676	3.765	-3.411	0.003	0.047	-1.803
AK079912	-0.904	4.244	-3.411	0.003	0.047	-1.804
Slitrk5	-0.476	3.215	-3.411	0.003	0.047	-1.805
Npb	-1.155	6.225	-3.410	0.003	0.047	-1.807
Clip1	-1.525	2.941	-3.410	0.003	0.047	-1.807
Slc2a4	-1.437	7.163	-3.409	0.003	0.047	-1.807
1700065I16Rik	-0.522	3.825	-3.409	0.003	0.047	-1.808
Selplg	1.227	5.518	3.409	0.003	0.047	-1.808
Cpz	-0.536	3.600	-3.409	0.003	0.047	-1.809
Ncapg2	0.710	7.675	3.408	0.003	0.047	-1.809
Mki67	0.789	9.752	3.408	0.003	0.048	-1.811
Cln3	-0.809	6.350	-3.407	0.003	0.048	-1.811
Plin4	-0.884	5.028	-3.407	0.003	0.048	-1.812
Chmpla	0.507	9.136	3.407	0.003	0.048	-1.812
Tmprss4	0.859	8.817	3.405	0.003	0.048	-1.817
Urb2	0.475	6.724	3.403	0.003	0.048	-1.820
Eml2	1.116	6.528	3.403	0.003	0.048	-1.821
Sspo	-0.670	5.544	-3.402	0.003	0.048	-1.821
Srcrb4d	-0.498	6.231	-3.402	0.003	0.048	-1.823
Hist1h2bp	-0.454	4.702	-3.401	0.003	0.048	-1.825
Fam183b	-0.438	4.416	-3.400	0.003	0.048	-1.825
Csdc2	-0.541	3.818	-3.399	0.003	0.048	-1.829
Afp	1.778	4.696	3.397	0.003	0.048	-1.832
Ptger3	-0.552	2.933	-3.396	0.003	0.048	-1.835
Smarcad1	-0.518	6.657	-3.396	0.003	0.048	-1.835
Tacr2	-0.537	5.465	-3.395	0.003	0.048	-1.837
Elmo2	-0.547	4.874	-3.394	0.003	0.048	-1.839
Bpifb1	1.928	11.389	3.394	0.003	0.048	-1.839
Kcnj15	-1.707	9.169	-3.394	0.003	0.048	-1.839
Gstm7	-0.575	6.733	-3.393	0.003	0.048	-1.840
B3galt5	-0.918	6.043	-3.393	0.003	0.048	-1.840
Fbxl21	-0.594	3.817	-3.393	0.003	0.048	-1.840
Tmem5	-0.501	8.586	-3.393	0.003	0.048	-1.840
Man1c1	-0.643	5.861	-3.392	0.003	0.048	-1.842
Farsb	0.471	8.794	3.392	0.003	0.048	-1.843
B230308N11Rik	0.494	7.888	3.391	0.003	0.048	-1.844
L2hgdh	-0.643	7.368	-3.391	0.003	0.048	-1.846
Aldh5a1	-0.740	6.471	-3.390	0.003	0.049	-1.847
Nrtn	-1.233	6.679	-3.390	0.003	0.049	-1.847
Fbln2	-1.068	5.057	-3.389	0.003	0.049	-1.848
Tsix	-0.429	2.730	-3.389	0.003	0.049	-1.849
Dnajc28	-0.811	4.160	-3.389	0.003	0.049	-1.849
Pcbd1	-0.660	9.574	-3.389	0.003	0.049	-1.850
AI132709	-0.419	2.766	-3.388	0.003	0.049	-1.850
Apol7c	2.238	5.026	3.388	0.003	0.049	-1.851
Pgd	0.488	10.867	3.387	0.003	0.049	-1.853
Rbbp5	0.413	7.398	3.387	0.003	0.049	-1.853
1700007F19Rik	-0.470	2.901	-3.387	0.003	0.049	-1.854
9530056K15Rik	-0.535	3.185	-3.385	0.003	0.049	-1.856
Lix1	-0.655	5.802	-3.384	0.003	0.049	-1.859

5330423I11Rik	-0.462	2.687	-3.383	0.003	0.049	-1.861
D8Ert572e	-0.382	2.285	-3.383	0.003	0.049	-1.862
Plk5	-0.388	5.297	-3.382	0.003	0.049	-1.862
Gm5817	-0.657	5.408	-3.382	0.003	0.049	-1.862
Slc5a8	-0.600	3.042	-3.382	0.003	0.049	-1.864
Slc39a2	-0.640	3.581	-3.382	0.003	0.049	-1.864
Ntan1	-0.721	7.898	-3.381	0.003	0.049	-1.864
Arhgap35	-0.669	7.047	-3.381	0.003	0.049	-1.865
Capn9	-1.376	9.286	-3.381	0.003	0.049	-1.865
St8sia4	1.137	5.590	3.381	0.003	0.049	-1.866
Tmem176a	1.156	9.024	3.381	0.003	0.049	-1.866
Hdac8	0.617	3.924	3.380	0.003	0.049	-1.866
Gnat2	-0.580	4.196	-3.379	0.003	0.049	-1.868
Prmt8	-0.545	2.760	-3.379	0.004	0.049	-1.870
Calcoc1	-0.632	5.238	-3.378	0.004	0.049	-1.870
Sdhb	-0.560	11.157	-3.377	0.004	0.049	-1.873
AU045717	-0.445	3.561	-3.377	0.004	0.049	-1.873
Slc25a4	-1.099	9.442	-3.377	0.004	0.049	-1.874
Hba-a1	-0.417	2.915	-3.377	0.004	0.049	-1.874
Bet11	0.641	7.102	3.377	0.004	0.049	-1.874
Lrrc24	-0.727	3.285	-3.377	0.004	0.049	-1.874
Htr2c	-0.509	2.670	-3.376	0.004	0.049	-1.875
Gm10700	-0.575	2.975	-3.376	0.004	0.049	-1.875
Wfdc2	1.804	9.446	3.376	0.004	0.049	-1.876
Ifrd2	0.514	7.735	3.375	0.004	0.049	-1.877
Adcy1	-0.427	2.950	-3.374	0.004	0.049	-1.879
Hbegf	1.479	7.460	3.374	0.004	0.049	-1.880
1700014B07Rik	-0.546	3.951	-3.374	0.004	0.049	-1.880
Nxph4	-0.687	6.823	-3.373	0.004	0.049	-1.881
2500002B13Rik	-0.702	5.721	-3.372	0.004	0.049	-1.883
Nlrc3	-0.358	3.499	-3.372	0.004	0.049	-1.883
Pcid2	0.589	6.817	3.372	0.004	0.049	-1.884
Snrpn	-0.734	11.584	-3.371	0.004	0.049	-1.886
Bmpr1b	-0.600	2.937	-3.371	0.004	0.049	-1.886
Magix	-0.866	4.837	-3.370	0.004	0.049	-1.888
Tssk2	-0.432	3.074	-3.369	0.004	0.049	-1.890
Bcl2l14	0.519	8.465	3.368	0.004	0.049	-1.892
Cntf	-0.462	5.271	-3.367	0.004	0.049	-1.893
Lmb1	0.759	4.879	3.367	0.004	0.049	-1.893
Usp54	-0.537	6.581	-3.366	0.004	0.049	-1.895
Rom1	-0.462	4.615	-3.366	0.004	0.049	-1.895
Garnl3	-0.402	3.715	-3.366	0.004	0.049	-1.897
Faah	-0.506	6.611	-3.365	0.004	0.049	-1.898
Slitrk3	-0.361	3.013	-3.364	0.004	0.050	-1.899
Gm4024	-0.389	10.962	-3.364	0.004	0.050	-1.901
Ndufa7	-0.426	10.261	-3.363	0.004	0.050	-1.902
Peak1	0.437	6.432	3.363	0.004	0.050	-1.902
Anapc1	0.370	7.893	3.362	0.004	0.050	-1.903
Cdk10	0.537	6.555	3.362	0.004	0.050	-1.903
Hivep1	0.514	5.765	3.362	0.004	0.050	-1.903

Foxj1	-0.419	4.017	-3.362	0.004	0.050	-1.904
Car1	-0.359	3.560	-3.361	0.004	0.050	-1.906
Rab3a	-0.490	7.297	-3.361	0.004	0.050	-1.906
Atad2b	0.441	8.128	3.361	0.004	0.050	-1.906
Foxn3	-0.611	7.305	-3.361	0.004	0.050	-1.907
Irf1	2.006	9.890	3.359	0.004	0.050	-1.910
4921525D07Rik	-0.471	4.139	-3.359	0.004	0.050	-1.910
C530025M09Rik	-0.401	3.387	-3.359	0.004	0.050	-1.911
4930432K21Rik	-0.439	3.520	-3.359	0.004	0.050	-1.911
6330407A03Rik	1.596	5.728	3.357	0.004	0.050	-1.914
Ptprd	-0.957	7.299	-3.357	0.004	0.050	-1.914
4930432B10Rik	-0.447	3.536	-3.357	0.004	0.050	-1.915
D1Ertd185e	-0.484	3.440	-3.356	0.004	0.050	-1.916
Ube2r2	0.579	8.358	3.354	0.004	0.050	-1.920
2010309G21Rik	3.419	6.874	3.354	0.004	0.050	-1.921
Nupr1	-1.479	9.705	-3.353	0.004	0.050	-1.923
Tex9	-0.462	2.964	-3.352	0.004	0.050	-1.924
Cd320	-0.964	7.905	-3.352	0.004	0.050	-1.924
Ispd	-0.785	4.201	-3.351	0.004	0.050	-1.926
Tmem86a	-1.371	7.530	-3.351	0.004	0.050	-1.926
Slc25a11	-0.415	8.855	-3.350	0.004	0.050	-1.928
Cadps2	0.501	8.055	3.350	0.004	0.050	-1.928
Prss51	-0.492	4.983	-3.349	0.004	0.050	-1.930
Ecm2	-0.576	3.223	-3.349	0.004	0.050	-1.930
Ifi30	-0.363	5.143	-3.348	0.004	0.050	-1.932
S100a14	1.411	8.929	3.348	0.004	0.050	-1.933
Ptpn12	0.868	8.724	3.346	0.004	0.050	-1.937
Acot13	-0.876	9.109	-3.346	0.004	0.050	-1.937
Lrriq3	-0.381	2.305	-3.345	0.004	0.050	-1.938
Slc44a2	-0.459	8.282	-3.345	0.004	0.050	-1.938
Ak5	-0.357	5.068	-3.344	0.004	0.051	-1.940
Glb112	-0.723	5.812	-3.344	0.004	0.051	-1.941
Il4ra	0.708	7.236	3.344	0.004	0.051	-1.941
AI464131	-1.007	5.211	-3.342	0.004	0.051	-1.944
Scfd1	-0.571	3.464	-3.342	0.004	0.051	-1.945
Dicer1	0.502	6.974	3.341	0.004	0.051	-1.946
Fah	-1.060	6.786	-3.341	0.004	0.051	-1.947
Dpp4	1.136	5.370	3.341	0.004	0.051	-1.947
Egfem1	-0.489	2.699	-3.338	0.004	0.051	-1.954
Krtap7-1	-0.624	2.958	-3.338	0.004	0.051	-1.954
Spred2	-0.355	5.920	-3.337	0.004	0.051	-1.954
Paqr7	-1.024	5.617	-3.337	0.004	0.051	-1.955
Ppplr16b	-0.531	3.922	-3.337	0.004	0.051	-1.955
Fam187a	-0.559	3.273	-3.337	0.004	0.051	-1.955
Syt4	-0.456	2.437	-3.336	0.004	0.051	-1.957
Spata25	-0.487	4.063	-3.336	0.004	0.051	-1.957
Tmem106a	0.803	6.598	3.336	0.004	0.051	-1.958
Tnfaip1	0.408	9.616	3.335	0.004	0.051	-1.959
Lrrc3b	-1.070	4.275	-3.333	0.004	0.051	-1.962
C2cd5	0.573	5.947	3.333	0.004	0.051	-1.962

Gab1	-0.629	7.673	-3.332	0.004	0.051	-1.965
Cldn12	0.451	9.137	3.331	0.004	0.051	-1.966
Avpr1a	-0.459	3.441	-3.331	0.004	0.051	-1.966
Tmed8	-0.456	3.822	-3.331	0.004	0.051	-1.967
Sbk1	-0.724	5.173	-3.331	0.004	0.051	-1.967
2010007E15Rik	-0.484	3.038	-3.331	0.004	0.051	-1.968
Krt42	-0.479	3.393	-3.330	0.004	0.051	-1.970
Piezo2	-0.449	5.296	-3.329	0.004	0.051	-1.970
Zfhx2os	-0.745	3.680	-3.329	0.004	0.051	-1.970
Gm11532	-0.392	3.709	-3.329	0.004	0.051	-1.971
Hibadh	-1.199	9.824	-3.329	0.004	0.051	-1.971
Zbtb3	-0.615	4.248	-3.329	0.004	0.051	-1.971
2610020H08Rik	-0.423	2.423	-3.329	0.004	0.051	-1.971
Hmgal	1.020	9.064	3.329	0.004	0.051	-1.972
D4Ertd117e	-0.482	7.094	-3.329	0.004	0.051	-1.972
Kcne3	3.173	8.061	3.329	0.004	0.051	-1.972
AU022746	-0.589	3.774	-3.327	0.004	0.051	-1.974
Selenbp1	-0.587	8.691	-3.326	0.004	0.051	-1.977
9630013D21Rik	-0.472	2.461	-3.325	0.004	0.051	-1.980
Tdrkh	-0.733	4.148	-3.325	0.004	0.051	-1.980
C030014009Rik	-0.495	3.185	-3.324	0.004	0.051	-1.980
Hrc	-0.367	4.220	-3.324	0.004	0.051	-1.981
Zfp580	-0.469	5.772	-3.324	0.004	0.051	-1.981
Ict1	-0.587	3.791	-3.323	0.004	0.052	-1.983
Mafg	0.856	7.098	3.323	0.004	0.052	-1.983
Wdr25	-0.511	4.481	-3.323	0.004	0.052	-1.983
Rnf133	-0.406	2.513	-3.321	0.004	0.052	-1.986
Neat1	-0.588	6.079	-3.321	0.004	0.052	-1.987
Ap1s1	0.404	9.642	3.321	0.004	0.052	-1.988
Drd3	-0.469	3.132	-3.319	0.004	0.052	-1.991
C80678	-0.425	2.732	-3.319	0.004	0.052	-1.991
Lamp3	0.684	8.234	3.319	0.004	0.052	-1.992
Cd38	2.395	7.122	3.319	0.004	0.052	-1.992
A530016L24Rik	-0.547	3.013	-3.318	0.004	0.052	-1.994
Accs1	-0.447	2.820	-3.317	0.004	0.052	-1.995
Fam189a2	-0.856	6.412	-3.317	0.004	0.052	-1.995
Rab11fip5	-0.963	4.159	-3.317	0.004	0.052	-1.996
Gm10334	-0.904	3.287	-3.317	0.004	0.052	-1.996
Efna5	-0.578	4.617	-3.317	0.004	0.052	-1.997
Zfp330	0.525	8.461	3.316	0.004	0.052	-1.998
AW061147	-0.520	4.487	-3.315	0.004	0.052	-1.999
Ankub1	-0.535	4.623	-3.315	0.004	0.052	-2.001
Pdelc	-0.614	3.782	-3.314	0.004	0.052	-2.003
Col7a1	-0.692	5.322	-3.313	0.004	0.052	-2.003
4933428M09Rik	-0.567	4.260	-3.313	0.004	0.052	-2.004
Aars	0.772	7.672	3.312	0.004	0.052	-2.005
2200002J24Rik	-1.818	6.618	-3.312	0.004	0.052	-2.006
Slc36a1	-0.421	6.575	-3.312	0.004	0.052	-2.006
Hand1	-0.414	5.223	-3.312	0.004	0.052	-2.007
Pdcd1	-0.310	2.850	-3.312	0.004	0.052	-2.007

Cacng2	-0.760	4.733	-3.311	0.004	0.052	-2.007
Arhgef19	-0.618	5.360	-3.311	0.004	0.052	-2.008
Kril	0.416	6.872	3.310	0.004	0.052	-2.010
Try4	-4.356	6.285	-3.309	0.004	0.052	-2.012
Rps28	0.276	13.307	3.308	0.004	0.052	-2.013
Lpo	-0.587	3.899	-3.308	0.004	0.052	-2.014
2810457G06Rik	-0.457	4.934	-3.308	0.004	0.052	-2.014
9630050P21Rik	0.654	5.017	3.308	0.004	0.052	-2.014
Ttc39d	-0.408	2.967	-3.307	0.004	0.052	-2.015
Naa25	0.659	7.775	3.307	0.004	0.052	-2.015
Rbbp9	-0.951	7.102	-3.307	0.004	0.052	-2.016
Gm17344	0.489	4.338	3.307	0.004	0.052	-2.016
Fut1	-0.618	3.787	-3.306	0.004	0.052	-2.019
Fam78b	-0.731	5.093	-3.305	0.004	0.052	-2.020
Ptprg	1.079	5.360	3.305	0.004	0.052	-2.020
Cdk5r1	-0.558	3.719	-3.305	0.004	0.052	-2.021
Rpp21	-0.415	8.698	-3.305	0.004	0.052	-2.021
Kdelc1	0.592	7.879	3.304	0.004	0.052	-2.022
Wdr59	-0.424	6.187	-3.304	0.004	0.052	-2.022
Cryab	-1.431	4.407	-3.302	0.004	0.053	-2.026
Ppil6	-0.451	2.885	-3.302	0.004	0.053	-2.026
Svepl	-0.652	5.408	-3.302	0.004	0.053	-2.027
Fndc9	-0.433	2.921	-3.301	0.004	0.053	-2.028
Cox6a1	-0.487	11.984	-3.301	0.004	0.053	-2.028
Plekha6	0.649	8.613	3.301	0.004	0.053	-2.029
Fam89b	-0.389	7.315	-3.300	0.004	0.053	-2.029
BC051628	-0.418	3.590	-3.300	0.004	0.053	-2.030
1810053B23Rik	-0.372	3.382	-3.300	0.004	0.053	-2.031
Nhs12	-0.438	2.217	-3.299	0.004	0.053	-2.031
Pi4k2a	-1.599	6.664	-3.299	0.004	0.053	-2.032
Psm3	0.619	8.992	3.298	0.004	0.053	-2.034
Nup210	0.848	7.596	3.298	0.004	0.053	-2.035
Adam8	1.395	5.085	3.297	0.004	0.053	-2.037
Prss40	-0.362	4.821	-3.296	0.004	0.053	-2.037
Trim33	-0.404	8.034	-3.296	0.004	0.053	-2.038
Irs4	-0.466	4.127	-3.295	0.004	0.053	-2.040
Spn	0.834	6.754	3.294	0.004	0.053	-2.042
Pde6g	-0.611	4.382	-3.294	0.004	0.053	-2.042
Efh2	0.573	11.008	3.293	0.004	0.053	-2.044
Slc35f2	1.188	4.910	3.293	0.004	0.053	-2.045
Yeats4	0.362	8.881	3.291	0.004	0.053	-2.048
Plekhf1	-0.813	6.066	-3.290	0.004	0.053	-2.051
Snord104	0.926	7.835	3.290	0.004	0.053	-2.051
Polr2h	0.642	7.986	3.289	0.004	0.053	-2.052
Mtmr11	-0.691	2.870	-3.289	0.004	0.053	-2.052
Mknk1	-0.548	6.643	-3.289	0.004	0.053	-2.052
Necab2	-0.499	5.750	-3.289	0.004	0.053	-2.052
Hdac10	-0.389	2.387	-3.289	0.004	0.053	-2.053
Slpi	1.191	7.247	3.288	0.004	0.053	-2.054
Odf3	-0.437	4.024	-3.288	0.004	0.053	-2.055

Phf14	-0.390	2.191	-3.288	0.004	0.053	-2.055
D530031A16Rik	-0.641	4.435	-3.287	0.004	0.053	-2.056
Zfp61	-0.524	4.448	-3.286	0.004	0.053	-2.059
Misl8a	0.784	6.504	3.285	0.004	0.053	-2.060
Cabp5	-0.587	3.742	-3.284	0.004	0.053	-2.062
1700013F07Rik	-0.520	3.953	-3.284	0.004	0.053	-2.062
Cdk5	-0.469	5.384	-3.284	0.004	0.054	-2.064
B3gnt11	-0.439	5.683	-3.283	0.004	0.054	-2.064
Pdcd11	0.610	7.022	3.282	0.004	0.054	-2.067
Zc4h2	-0.540	3.852	-3.282	0.004	0.054	-2.067
Vgf	-0.622	5.602	-3.281	0.004	0.054	-2.068
Id2	-0.670	9.204	-3.280	0.004	0.054	-2.071
Eif1a	0.731	8.652	3.279	0.004	0.054	-2.072
Rilp	-0.361	6.527	-3.279	0.004	0.054	-2.073
Hnrnp1	1.079	9.694	3.279	0.004	0.054	-2.073
Trim71	-0.474	2.933	-3.279	0.004	0.054	-2.073
Zfand6	-0.468	8.258	-3.277	0.004	0.054	-2.076
BC027231	0.652	5.788	3.276	0.004	0.054	-2.080
Nlrc5	3.369	6.589	3.275	0.004	0.054	-2.081
Gm27032	-0.603	3.960	-3.275	0.004	0.054	-2.081
Rcc1	0.582	7.057	3.273	0.004	0.054	-2.084
5033415L01Rik	-0.724	4.777	-3.273	0.004	0.054	-2.084
Hnf1b	-0.630	5.569	-3.272	0.004	0.054	-2.086
Fam50b	-0.386	4.531	-3.272	0.004	0.054	-2.087
Ccna2	0.763	8.774	3.272	0.004	0.054	-2.087
Mndal	1.688	5.047	3.270	0.004	0.055	-2.092
Tmem60	-0.604	7.857	-3.269	0.004	0.055	-2.094
Sox30	-0.335	2.366	-3.268	0.004	0.055	-2.094
Pex11b	-0.546	6.146	-3.266	0.004	0.055	-2.100
Peli2	-1.213	4.533	-3.265	0.004	0.055	-2.100
Camkv	-0.530	4.354	-3.265	0.004	0.055	-2.101
Atrn	-0.624	4.660	-3.265	0.004	0.055	-2.101
E130116L18Rik	-0.644	4.811	-3.265	0.004	0.055	-2.102
Pard3bos1	-0.500	2.772	-3.263	0.005	0.055	-2.105
Gm438	-0.537	2.870	-3.263	0.005	0.055	-2.106
Rtcb	0.546	10.032	3.263	0.005	0.055	-2.106
Mina	0.447	5.575	3.262	0.005	0.055	-2.107
Tap2	2.010	7.821	3.262	0.005	0.055	-2.107
Wsb1	1.065	6.043	3.262	0.005	0.055	-2.108
Zfp219	0.405	6.432	3.259	0.005	0.055	-2.114
Grem2	-1.362	6.173	-3.259	0.005	0.055	-2.114
Med20	-0.399	6.116	-3.258	0.005	0.055	-2.116
Wnt8b	-0.395	2.997	-3.258	0.005	0.055	-2.116
Sult2b1	-0.684	6.684	-3.257	0.005	0.055	-2.117
Ppp2r2c	-0.319	2.390	-3.257	0.005	0.056	-2.118
Gripap1	0.486	8.024	3.256	0.005	0.056	-2.119
C78148	-0.641	4.630	-3.255	0.005	0.056	-2.121
2810459M11Rik	0.577	7.375	3.254	0.005	0.056	-2.123
Dact1	-0.785	5.225	-3.253	0.005	0.056	-2.126
Trmt61b	0.530	6.077	3.253	0.005	0.056	-2.126

Ldhb	-1.768	9.811	-3.252	0.005	0.056	-2.127
Tep1	0.628	8.198	3.252	0.005	0.056	-2.127
Zdhhc22	-0.506	5.146	-3.252	0.005	0.056	-2.128
Zfp286it	-0.584	3.687	-3.251	0.005	0.056	-2.129
Tbccd1	-0.464	4.298	-3.251	0.005	0.056	-2.129
Cabp7	-0.439	2.718	-3.251	0.005	0.056	-2.130
Tmem254a	-0.600	5.566	-3.250	0.005	0.056	-2.131
AU015253	-0.543	3.658	-3.250	0.005	0.056	-2.131
2310016G11Rik	-0.501	3.171	-3.250	0.005	0.056	-2.132
Rpia	0.719	9.055	3.249	0.005	0.056	-2.133
Dock10	1.500	4.786	3.249	0.005	0.056	-2.135
Fez2	-0.603	6.225	-3.246	0.005	0.056	-2.141
Rimkla	-0.562	3.011	-3.246	0.005	0.056	-2.141
Zfat	-0.654	5.308	-3.244	0.005	0.056	-2.143
Sfxn2	-0.751	6.680	-3.244	0.005	0.056	-2.143
Elk4	-0.527	6.171	-3.244	0.005	0.056	-2.144
Vax1	-0.487	4.327	-3.244	0.005	0.056	-2.144
Ncmap	0.663	8.807	3.244	0.005	0.056	-2.144
AU045094	-0.382	2.215	-3.242	0.005	0.057	-2.147
Prkrip1	0.441	7.315	3.242	0.005	0.057	-2.147
4930551I15Rik	-0.455	3.256	-3.242	0.005	0.057	-2.148
Axin2	-0.460	3.154	-3.242	0.005	0.057	-2.149
2700089I24Rik	-0.569	5.418	-3.241	0.005	0.057	-2.150
Pus71	0.710	5.350	3.241	0.005	0.057	-2.150
Tfdp2	-1.175	8.289	-3.241	0.005	0.057	-2.151
Mpz12	0.465	8.325	3.239	0.005	0.057	-2.154
Sgms1	-0.562	6.366	-3.239	0.005	0.057	-2.154
Rep15	-0.966	10.434	-3.239	0.005	0.057	-2.155
Neol	-0.662	7.640	-3.238	0.005	0.057	-2.155
2310034005Rik	-0.454	3.109	-3.238	0.005	0.057	-2.155
Kbtbd13	-0.517	4.474	-3.238	0.005	0.057	-2.156
Prpf19	0.395	9.360	3.237	0.005	0.057	-2.157
Krtap4-16	-0.488	4.337	-3.237	0.005	0.057	-2.157
Msh3	-0.361	3.150	-3.236	0.005	0.057	-2.159
B930059L03Rik	-0.415	5.193	-3.236	0.005	0.057	-2.160
Itga6	0.410	11.071	3.235	0.005	0.057	-2.161
Slc16a10	-0.618	5.855	-3.235	0.005	0.057	-2.162
Sec61a1	0.617	11.069	3.234	0.005	0.057	-2.164
Scnn1b	0.709	5.276	3.233	0.005	0.057	-2.167
Zfp759	-0.472	4.596	-3.232	0.005	0.057	-2.168
Tceanc	0.392	5.666	3.231	0.005	0.057	-2.170
Vwa5b2	-0.482	3.259	-3.231	0.005	0.057	-2.170
C820005J03Rik	-0.411	2.906	-3.231	0.005	0.057	-2.170
Tnfrsf19	-0.450	3.431	-3.231	0.005	0.057	-2.171
Slc2a12	-0.790	4.138	-3.229	0.005	0.057	-2.173
Phrf1	0.386	7.962	3.229	0.005	0.057	-2.174
Islr2	-0.579	3.560	-3.229	0.005	0.057	-2.175
Arsa	-0.383	7.001	-3.228	0.005	0.057	-2.176
Hist1h1t	-0.564	4.182	-3.228	0.005	0.057	-2.176
Trpc7	-0.596	5.022	-3.227	0.005	0.057	-2.178

AI662175	-0.478	2.846	-3.227	0.005	0.057	-2.178
Smarcel	0.386	8.209	3.226	0.005	0.057	-2.179
Fut9	-1.368	7.309	-3.226	0.005	0.057	-2.179
AK040357	-0.515	3.588	-3.224	0.005	0.058	-2.184
Klk1b24	-0.546	3.667	-3.224	0.005	0.058	-2.184
Rgs10	0.847	7.046	3.224	0.005	0.058	-2.184
Smg7	0.430	7.284	3.222	0.005	0.058	-2.189
Krt7	1.792	10.168	3.222	0.005	0.058	-2.189
Zfp286	-0.444	2.591	-3.221	0.005	0.058	-2.191
Pou2af1	1.863	4.534	3.220	0.005	0.058	-2.192
Stxbp51	-0.376	3.196	-3.219	0.005	0.058	-2.194
Gabra6	-0.453	3.116	-3.218	0.005	0.058	-2.196
Trappc12	-0.376	7.060	-3.218	0.005	0.058	-2.197
Gpam	-1.164	8.703	-3.217	0.005	0.058	-2.198
St6gal2	-1.473	5.148	-3.217	0.005	0.058	-2.199
Gjb4	-0.453	3.229	-3.217	0.005	0.058	-2.199
Adck3	-1.435	6.751	-3.216	0.005	0.058	-2.199
Mtmr6	-0.588	7.651	-3.216	0.005	0.058	-2.200
Mtag2	-0.290	3.599	-3.216	0.005	0.058	-2.201
Nrros	0.955	4.958	3.215	0.005	0.058	-2.202
Kdmlb	-0.518	6.987	-3.215	0.005	0.058	-2.202
Gm16794	-0.515	2.508	-3.215	0.005	0.058	-2.203
Nkx6-1	-0.525	3.882	-3.214	0.005	0.058	-2.204
Cib4	-0.389	4.800	-3.214	0.005	0.058	-2.204
AI844869	-0.367	4.656	-3.214	0.005	0.058	-2.205
Vcan	-0.552	3.312	-3.213	0.005	0.058	-2.206
BC065403	-0.401	2.463	-3.213	0.005	0.058	-2.206
Prop1	-0.386	3.574	-3.213	0.005	0.058	-2.206
Hltf	-0.865	3.973	-3.213	0.005	0.058	-2.207
9130414P19Rik	-0.379	2.458	-3.213	0.005	0.058	-2.207
Efhd1	-0.539	3.385	-3.212	0.005	0.058	-2.209
Ndrg2	-1.030	7.266	-3.211	0.005	0.058	-2.210
Zfp329	0.903	4.520	3.211	0.005	0.058	-2.210
Ft11	-0.433	7.643	-3.210	0.005	0.058	-2.212
Bmp7	-0.673	5.121	-3.210	0.005	0.058	-2.212
Colq	-0.329	3.863	-3.210	0.005	0.058	-2.213
Slc35d3	-0.437	2.562	-3.210	0.005	0.058	-2.213
Cib2	-0.730	3.801	-3.210	0.005	0.058	-2.213
Zfp326	0.615	5.889	3.209	0.005	0.058	-2.214
Usp42	0.396	7.618	3.208	0.005	0.059	-2.216
1110008P14Rik	-0.546	8.660	-3.208	0.005	0.059	-2.217
Lcor	0.392	9.499	3.208	0.005	0.059	-2.217
Mrps2	-0.521	6.246	-3.207	0.005	0.059	-2.218
Psca	-0.762	13.400	-3.207	0.005	0.059	-2.218
Nat10	0.481	6.633	3.206	0.005	0.059	-2.220
Sltm	0.519	8.499	3.206	0.005	0.059	-2.221
Cel	-1.471	6.124	-3.205	0.005	0.059	-2.222
4921504P20Rik	-0.487	4.590	-3.204	0.005	0.059	-2.224
Pcdhb5	-0.489	3.632	-3.203	0.005	0.059	-2.226
Kis2	-0.474	4.153	-3.203	0.005	0.059	-2.226

Zbtb2	0.381	7.291	3.203	0.005	0.059	-2.227
9030613N10Rik	-0.497	2.923	-3.203	0.005	0.059	-2.227
Eif4g1	0.436	11.490	3.203	0.005	0.059	-2.228
Aldh4a1	-0.590	6.455	-3.201	0.005	0.059	-2.231
Gm8579	-0.342	2.856	-3.201	0.005	0.059	-2.231
9430076C15Rik	-0.484	3.322	-3.201	0.005	0.059	-2.231
Unc13b	-0.532	8.142	-3.200	0.005	0.059	-2.232
6430573F11Rik	-0.370	2.772	-3.200	0.005	0.059	-2.233
Tmtc1	-0.697	4.810	-3.199	0.005	0.059	-2.235
Uqcrq	-0.589	4.510	-3.199	0.005	0.059	-2.235
Magi3	-0.679	4.974	-3.199	0.005	0.059	-2.235
Sorbs3	-0.731	7.340	-3.199	0.005	0.059	-2.235
Pde3a	-0.634	3.979	-3.198	0.005	0.059	-2.236
Nmb	-0.533	4.739	-3.197	0.005	0.059	-2.238
Slc22a29	-0.566	3.477	-3.197	0.005	0.059	-2.239
Ntn4	-1.076	7.712	-3.196	0.005	0.059	-2.241
Zfp263	1.095	6.786	3.195	0.005	0.059	-2.242
Unc45b	-0.831	3.537	-3.195	0.005	0.059	-2.243
Gli3	-0.571	3.748	-3.195	0.005	0.059	-2.243
4930500M09Rik	-0.431	4.078	-3.194	0.005	0.060	-2.245
Stx1a	-0.441	5.715	-3.194	0.005	0.060	-2.246
Etv3	0.749	8.668	3.193	0.005	0.060	-2.247
Setd4	-0.705	6.876	-3.192	0.005	0.060	-2.248
Fycol	-0.482	8.044	-3.192	0.005	0.060	-2.248
Gm11267	-0.452	4.444	-3.191	0.005	0.060	-2.250
AI503301	1.174	4.581	3.190	0.005	0.060	-2.253
Zfp14	-0.575	3.492	-3.190	0.005	0.060	-2.254
Cacnalg	-0.392	4.167	-3.189	0.005	0.060	-2.255
Limal	0.858	9.620	3.188	0.005	0.060	-2.258
LOC102636681	-0.317	2.147	-3.187	0.005	0.060	-2.259
Lyrn5	-0.949	8.093	-3.187	0.005	0.060	-2.260
A130040M12Rik	1.508	8.068	3.186	0.005	0.060	-2.260
Pnma1	-0.495	3.192	-3.186	0.005	0.060	-2.260
Cutal	-0.671	4.848	-3.184	0.005	0.060	-2.265
Thg11	-0.591	4.834	-3.183	0.005	0.060	-2.267
Pdcd6ip	0.404	7.091	3.183	0.005	0.060	-2.268
Kat6a	0.304	9.012	3.182	0.005	0.060	-2.268
Satb1	1.299	4.116	3.182	0.005	0.060	-2.268
Cdip1	-0.410	6.369	-3.182	0.005	0.060	-2.269
Hivep2	0.727	6.380	3.181	0.005	0.060	-2.270
Srsf3	0.516	10.400	3.181	0.005	0.060	-2.270
Kcnq1	-0.789	9.360	-3.181	0.005	0.060	-2.271
Nuak2	0.495	5.660	3.181	0.005	0.060	-2.271
Capn2	0.672	9.139	3.181	0.005	0.060	-2.271
Brd1	0.355	7.902	3.181	0.005	0.060	-2.272
AU015558	-0.495	3.029	-3.181	0.005	0.060	-2.272
Adamts16	-0.511	5.157	-3.180	0.005	0.060	-2.273
Gsta2	-1.022	9.451	-3.179	0.005	0.061	-2.275
Isca2	-0.480	7.909	-3.179	0.005	0.061	-2.275
Thsd7b	-0.492	5.527	-3.177	0.005	0.061	-2.279

Rbbp4	0.369	10.408	3.177	0.005	0.061	-2.280
Ankrd54	0.332	6.937	3.176	0.005	0.061	-2.281
Smad9	-0.605	3.364	-3.176	0.005	0.061	-2.282
Svop	-0.318	4.333	-3.175	0.005	0.061	-2.284
abParts	1.823	5.435	3.175	0.005	0.061	-2.284
Six5	-0.558	5.461	-3.174	0.005	0.061	-2.285
Yipf7	-0.433	5.102	-3.173	0.005	0.061	-2.287
LOC102635387	-0.506	4.483	-3.173	0.005	0.061	-2.287
Gm13872	-0.480	5.565	-3.172	0.005	0.061	-2.289
Nucb2	-0.800	7.722	-3.172	0.005	0.061	-2.289
Gm9777	-0.454	4.999	-3.172	0.005	0.061	-2.290
Zfp867	-0.447	3.013	-3.172	0.005	0.061	-2.290
St8sial	-0.485	4.079	-3.171	0.005	0.061	-2.292
9430069I07Rik	-0.544	3.781	-3.170	0.006	0.061	-2.292
Abcc4	0.786	8.142	3.170	0.006	0.061	-2.293
Lats2	-0.549	4.825	-3.170	0.006	0.061	-2.293
Rbm34	0.540	6.503	3.170	0.006	0.061	-2.293
Cmtm5	-0.517	5.272	-3.169	0.006	0.061	-2.295
AK076947	-0.561	5.239	-3.168	0.006	0.061	-2.298
Prkcz	-0.914	7.327	-3.168	0.006	0.061	-2.298
Slc25a3	-0.356	12.458	-3.168	0.006	0.061	-2.298
4930430A15Rik	-0.406	2.802	-3.167	0.006	0.061	-2.299
Vgl13	-0.422	2.930	-3.167	0.006	0.061	-2.299
Krt79	0.785	7.427	3.167	0.006	0.061	-2.300
2810430I11Rik	-0.528	3.029	-3.166	0.006	0.061	-2.301
Slc41a3	-0.326	6.739	-3.166	0.006	0.061	-2.302
Efcab3	-0.415	3.703	-3.165	0.006	0.062	-2.304
Phf5a	0.500	9.381	3.165	0.006	0.062	-2.304
Tmcc3	0.939	7.947	3.164	0.006	0.062	-2.305
C80283	-0.541	4.126	-3.164	0.006	0.062	-2.305
C1s1	2.072	6.281	3.164	0.006	0.062	-2.306
Mst1r	0.473	7.915	3.163	0.006	0.062	-2.307
4930459I23Rik	-0.414	2.720	-3.163	0.006	0.062	-2.307
Rbpms	-0.582	4.532	-3.162	0.006	0.062	-2.309
Pcp411	-1.504	5.308	-3.162	0.006	0.062	-2.310
Cysrt1	-0.889	9.234	-3.162	0.006	0.062	-2.310
Tdpoz1	-0.457	2.985	-3.162	0.006	0.062	-2.310
Afmid	-0.701	5.587	-3.161	0.006	0.062	-2.311
2510039018Rik	0.515	9.040	3.161	0.006	0.062	-2.311
Cc16	1.164	4.945	3.161	0.006	0.062	-2.311
6030400A10Rik	-0.407	3.325	-3.161	0.006	0.062	-2.312
A430035B10Rik	-0.513	3.982	-3.160	0.006	0.062	-2.313
Rnf5	-0.392	8.803	-3.160	0.006	0.062	-2.314
Gpt	-1.087	8.677	-3.159	0.006	0.062	-2.314
Hcrt	-0.398	5.488	-3.159	0.006	0.062	-2.315
Cbx3	0.541	10.103	3.159	0.006	0.062	-2.315
1700034E13Rik	-0.344	3.454	-3.159	0.006	0.062	-2.316
Pla2g2a	-0.522	4.207	-3.158	0.006	0.062	-2.318
Smpd2	-0.414	8.138	-3.157	0.006	0.062	-2.320
Obp2a	-0.563	4.013	-3.157	0.006	0.062	-2.320

1700019G17Rik	-0.349	5.070	-3.156	0.006	0.062	-2.321
Ctag2	-0.453	3.920	-3.156	0.006	0.062	-2.321
Hs3st1	1.707	8.401	3.156	0.006	0.062	-2.321
4930438A08Rik	-0.558	4.313	-3.156	0.006	0.062	-2.322
Exoc3l	-0.514	3.388	-3.155	0.006	0.062	-2.323
Gm6297	-0.610	2.866	-3.155	0.006	0.062	-2.323
Glul	-0.729	9.817	-3.154	0.006	0.062	-2.325
Fuca2	-0.548	8.587	-3.154	0.006	0.062	-2.325
Cp	2.035	6.751	3.151	0.006	0.062	-2.331
Nol3	-0.457	2.908	-3.151	0.006	0.062	-2.332
Abhd14b	-0.460	9.390	-3.150	0.006	0.062	-2.333
Lingol	-0.503	3.427	-3.150	0.006	0.062	-2.334
Vars	0.645	8.810	3.150	0.006	0.062	-2.334
Psmc4	0.796	9.742	3.149	0.006	0.062	-2.335
2610028H24Rik	-0.530	3.931	-3.149	0.006	0.062	-2.335
Pycr1	-1.501	6.949	-3.149	0.006	0.062	-2.336
Camk2n2	-0.631	5.474	-3.148	0.006	0.062	-2.337
Cox4i1	-0.358	12.734	-3.148	0.006	0.063	-2.338
Pfkfb4	0.766	6.668	3.147	0.006	0.063	-2.339
8030476L19Rik	-0.444	3.125	-3.147	0.006	0.063	-2.340
Gm19924	-0.498	3.611	-3.146	0.006	0.063	-2.341
Tmx4	-0.718	4.558	-3.146	0.006	0.063	-2.341
Cenpf	0.820	6.984	3.146	0.006	0.063	-2.342
4933427D14Rik	0.575	5.500	3.146	0.006	0.063	-2.342
Rbm20	-0.837	5.568	-3.146	0.006	0.063	-2.342
4930402D18Rik	-0.408	2.792	-3.146	0.006	0.063	-2.342
Rbbp6	-0.712	4.497	-3.145	0.006	0.063	-2.344
Kit	-0.796	5.283	-3.144	0.006	0.063	-2.345
Cdx2	-0.405	4.115	-3.144	0.006	0.063	-2.345
Trpc2	-0.419	6.657	-3.144	0.006	0.063	-2.346
4632419I22Rik	-0.500	3.150	-3.143	0.006	0.063	-2.348
Mei1	-0.363	3.092	-3.143	0.006	0.063	-2.348
Gm7846	0.938	7.997	3.143	0.006	0.063	-2.348
Prcp	-0.352	2.597	-3.143	0.006	0.063	-2.348
Rfp14	-0.323	2.558	-3.143	0.006	0.063	-2.348
Fgf22	-0.408	4.302	-3.143	0.006	0.063	-2.348
5330403D14Rik	-0.410	2.814	-3.142	0.006	0.063	-2.350
Mgat4b	0.530	9.674	3.141	0.006	0.063	-2.351
Rtn4r11	-0.541	5.411	-3.141	0.006	0.063	-2.351
Pik3c2g	-0.770	5.352	-3.141	0.006	0.063	-2.352
Fam160a1	-0.690	6.613	-3.141	0.006	0.063	-2.352
Zfp189	-0.499	3.339	-3.139	0.006	0.063	-2.355
Mrap2	-0.353	3.702	-3.139	0.006	0.063	-2.355
Folr2	-0.484	4.389	-3.139	0.006	0.063	-2.356
Gm4285	-0.466	4.812	-3.139	0.006	0.063	-2.356
4930406D18Rik	-0.432	3.918	-3.139	0.006	0.063	-2.357
4933436E23Rik	-0.629	4.940	-3.138	0.006	0.063	-2.358
Akap6	-0.534	4.612	-3.138	0.006	0.063	-2.358
Atxn712	-0.470	5.741	-3.138	0.006	0.063	-2.359
1810008I18Rik	-0.585	4.363	-3.137	0.006	0.063	-2.359

Wdr95	-0.525	3.275	-3.136	0.006	0.063	-2.362
Ccdc711	0.846	8.748	3.136	0.006	0.063	-2.363
Ypel5	-0.438	7.201	-3.135	0.006	0.063	-2.364
Gcdh	-0.935	6.089	-3.135	0.006	0.063	-2.364
Hyal4	-0.458	4.163	-3.135	0.006	0.063	-2.365
LOC102635048	0.320	11.964	3.134	0.006	0.063	-2.365
Naaa	-0.471	4.939	-3.134	0.006	0.063	-2.366
Zfp566	0.338	4.241	3.133	0.006	0.063	-2.368
Rnf141	-0.402	2.544	-3.133	0.006	0.063	-2.368
Shroom4	-0.455	4.261	-3.133	0.006	0.063	-2.368
Btf3l4	-0.691	5.259	-3.133	0.006	0.063	-2.368
Plxna4	-0.441	5.739	-3.132	0.006	0.063	-2.370
Ttbk1	-0.476	4.995	-3.131	0.006	0.063	-2.371
Chst11	0.678	5.595	3.131	0.006	0.063	-2.371
Mllt3	-0.509	8.065	-3.131	0.006	0.063	-2.371
Hrh2	-1.514	5.917	-3.131	0.006	0.063	-2.372
Zfp319	-0.456	3.802	-3.130	0.006	0.063	-2.374
5430402E10Rik	-0.327	2.759	-3.130	0.006	0.063	-2.374
Gtf3c6	-0.428	4.126	-3.130	0.006	0.063	-2.374
Pcbp3	-0.634	5.140	-3.130	0.006	0.063	-2.374
Slc19a1	0.547	7.298	3.129	0.006	0.063	-2.377
Syncrip	0.705	6.882	3.128	0.006	0.063	-2.377
D130084N16Rik	1.725	4.992	3.128	0.006	0.063	-2.378
Tex37	-0.541	4.364	-3.128	0.006	0.063	-2.378
Tbcd20	0.356	8.717	3.128	0.006	0.063	-2.378
Ptgs1	0.632	6.481	3.127	0.006	0.063	-2.380
Ptgfr	-0.758	3.104	-3.127	0.006	0.063	-2.380
Sstr5	-0.598	4.440	-3.127	0.006	0.063	-2.380
4933412E24Rik	-0.354	3.948	-3.127	0.006	0.063	-2.380
Gpsm3	0.909	5.673	3.127	0.006	0.063	-2.381
Acad11	-0.757	8.300	-3.126	0.006	0.063	-2.381
4932702M13Rik	-0.368	2.422	-3.126	0.006	0.063	-2.382
Ddb1	0.421	9.332	3.126	0.006	0.063	-2.382
Rprd1b	0.461	7.457	3.126	0.006	0.063	-2.382
Usp28	-0.439	6.358	-3.126	0.006	0.063	-2.383
Kcnj4	-0.464	4.176	-3.126	0.006	0.063	-2.383
Dfna5	0.376	3.290	3.126	0.006	0.063	-2.383
Limk1	0.388	3.461	3.125	0.006	0.063	-2.384
Extl3	-0.529	3.579	-3.124	0.006	0.064	-2.387
Kcng1	-0.397	3.572	-3.124	0.006	0.064	-2.387
Mrap	-0.542	4.126	-3.123	0.006	0.064	-2.387
C920021L13Rik	-0.591	5.438	-3.122	0.006	0.064	-2.389
Exoc5	0.546	9.166	3.122	0.006	0.064	-2.390
Lpxn	1.180	5.136	3.121	0.006	0.064	-2.392
Galnt15	-0.534	4.655	-3.121	0.006	0.064	-2.392
Ank3	-0.780	5.949	-3.120	0.006	0.064	-2.394
C230091D08Rik	-0.862	5.864	-3.120	0.006	0.064	-2.395
Chrn3	-0.426	3.989	-3.119	0.006	0.064	-2.396
Cd16311	-0.520	3.619	-3.118	0.006	0.064	-2.397
Vps4b	0.345	10.838	3.118	0.006	0.064	-2.398

Mrgpra3	-0.589	4.220	-3.118	0.006	0.064	-2.398
4930558J22Rik	-0.484	2.545	-3.118	0.006	0.064	-2.398
4930566F21Rik	-0.391	2.635	-3.118	0.006	0.064	-2.399
Cln6	-0.493	7.251	-3.117	0.006	0.064	-2.400
Slc39a8	1.413	5.281	3.117	0.006	0.064	-2.401
Tbce1	-0.462	6.936	-3.115	0.006	0.064	-2.404
Rnf182	-0.358	2.472	-3.115	0.006	0.064	-2.404
TCRB	-0.370	4.680	-3.115	0.006	0.064	-2.405
Krtap12-1	-0.512	7.538	-3.114	0.006	0.064	-2.405
C79452	-0.345	3.244	-3.114	0.006	0.064	-2.406
Nudcd2	0.505	9.479	3.114	0.006	0.064	-2.407
Pcmt1	-0.598	7.329	-3.113	0.006	0.064	-2.408
Lemd2	0.454	7.426	3.112	0.006	0.064	-2.410
Palm2	-0.563	4.457	-3.112	0.006	0.064	-2.410
Rnf208	-1.004	7.099	-3.112	0.006	0.064	-2.410
Crtcl	-0.385	6.370	-3.112	0.006	0.064	-2.411
Clca3	2.245	12.029	3.112	0.006	0.064	-2.411
1110028F11Rik	-0.395	4.142	-3.111	0.006	0.064	-2.411
Dot11	0.411	6.962	3.111	0.006	0.064	-2.411
Eps813	0.447	8.431	3.110	0.006	0.065	-2.414
Map4k3	-0.451	8.660	-3.110	0.006	0.065	-2.415
5830407F19Rik	-0.660	3.890	-3.109	0.006	0.065	-2.415
1700034J05Rik	-0.333	2.272	-3.109	0.006	0.065	-2.416
Kpnb1	0.551	8.178	3.108	0.006	0.065	-2.417
E430016F16Rik	-0.482	4.338	-3.108	0.006	0.065	-2.418
Cnm3	-0.490	5.338	-3.108	0.006	0.065	-2.419
Dync1h1	0.393	10.380	3.107	0.006	0.065	-2.419
Phex	-0.318	2.269	-3.107	0.006	0.065	-2.420
C130026L21Rik	-0.514	4.941	-3.107	0.006	0.065	-2.421
4933433C11Rik	-0.430	4.362	-3.106	0.006	0.065	-2.422
Did1	-0.329	4.049	-3.106	0.006	0.065	-2.423
Stox1	-0.443	2.804	-3.106	0.006	0.065	-2.423
Rhob	0.572	9.566	3.105	0.006	0.065	-2.424
Mccc2	-0.774	4.897	-3.105	0.006	0.065	-2.425
Gm14204	-0.575	3.683	-3.104	0.006	0.065	-2.425
Npm1	0.484	10.694	3.103	0.006	0.065	-2.428
Me3	-1.399	5.637	-3.102	0.006	0.065	-2.429
Prrg2	-0.382	7.679	-3.101	0.006	0.065	-2.433
Dbn1	-0.483	4.330	-3.101	0.006	0.065	-2.433
Dgkeos	-0.411	3.228	-3.100	0.006	0.065	-2.433
Clcn6	-0.393	4.973	-3.100	0.006	0.065	-2.433
Clic6	-1.655	10.065	-3.100	0.006	0.065	-2.433
Mnt	0.472	7.700	3.100	0.006	0.065	-2.434
Lpcat1	-0.721	4.098	-3.098	0.006	0.065	-2.437
Rex2	-0.485	3.212	-3.098	0.006	0.065	-2.438
Wdr35	-0.566	3.466	-3.098	0.006	0.065	-2.438
1700007L15Rik	-0.537	4.040	-3.098	0.006	0.065	-2.438
Rnase2a	-0.539	3.708	-3.098	0.006	0.065	-2.438
Scrn3	-0.568	7.637	-3.097	0.006	0.065	-2.439
Hey1	-0.499	5.298	-3.097	0.006	0.065	-2.439

Sarnp	0.339	8.735	3.097	0.006	0.065	-2.440
Cobl11	-0.811	8.524	-3.097	0.006	0.065	-2.440
Tmem171	-1.154	7.867	-3.097	0.006	0.065	-2.440
Cpped1	0.379	7.287	3.097	0.006	0.065	-2.440
1700092E16Rik	-0.353	3.905	-3.097	0.006	0.065	-2.440
4930488N15Rik	-0.540	3.702	-3.096	0.006	0.065	-2.441
AU017263	-0.388	3.761	-3.096	0.006	0.065	-2.441
4930428021Rik	-0.450	3.801	-3.096	0.006	0.065	-2.442
9530003J23Rik	-0.357	2.686	-3.096	0.006	0.065	-2.442
Tada2b	-0.555	7.225	-3.096	0.006	0.065	-2.442
Skap2	0.495	8.523	3.096	0.006	0.065	-2.443
Hoxd3	-0.429	4.367	-3.096	0.006	0.065	-2.443
Cckar	-2.714	7.350	-3.095	0.006	0.065	-2.443
Stk31	-0.382	2.262	-3.094	0.006	0.065	-2.446
Atp5b	-0.414	12.783	-3.092	0.007	0.066	-2.449
Grk6	0.491	8.936	3.092	0.007	0.066	-2.450
Izumo2	-0.402	3.010	-3.092	0.007	0.066	-2.450
Fhod1	0.710	5.801	3.092	0.007	0.066	-2.451
4933427I22Rik	-0.369	4.072	-3.092	0.007	0.066	-2.451
2700038G22Rik	1.096	7.315	3.092	0.007	0.066	-2.451
AA408396	-0.364	2.557	-3.091	0.007	0.066	-2.451
2310079F09Rik	-0.490	3.140	-3.091	0.007	0.066	-2.452
6030468B19Rik	-0.531	4.426	-3.091	0.007	0.066	-2.452
Moxd1	-0.475	3.387	-3.090	0.007	0.066	-2.454
Limd2	0.466	7.615	3.090	0.007	0.066	-2.454
Primal	-1.493	5.971	-3.090	0.007	0.066	-2.455
Arid4a	0.715	5.732	3.089	0.007	0.066	-2.457
Ppat	-0.973	5.857	-3.088	0.007	0.066	-2.457
Zcwpw2	-0.405	3.718	-3.088	0.007	0.066	-2.457
C130021I20Rik	-0.474	3.974	-3.088	0.007	0.066	-2.459
Hagh1	-0.744	8.111	-3.087	0.007	0.066	-2.461
C76938	-0.480	3.152	-3.085	0.007	0.066	-2.465
Atic	0.574	9.170	3.084	0.007	0.066	-2.465
Kcnb1	-0.514	11.044	-3.084	0.007	0.066	-2.466
Gcnt7	-0.348	3.845	-3.084	0.007	0.066	-2.466
Mtor	-0.732	7.938	-3.084	0.007	0.066	-2.466
4930529I22Rik	-0.549	2.838	-3.083	0.007	0.066	-2.468
Fam214b	0.410	7.213	3.083	0.007	0.066	-2.468
Dio3os	-0.425	5.981	-3.083	0.007	0.066	-2.468
Myt1	-0.378	3.565	-3.083	0.007	0.066	-2.468
Inpp5d	0.599	7.021	3.082	0.007	0.066	-2.469
Wdr82	0.537	7.885	3.082	0.007	0.066	-2.470
Fsip1	-0.462	3.926	-3.081	0.007	0.066	-2.473
Efhc2	-0.596	3.113	-3.081	0.007	0.066	-2.473
AI463170	-0.543	5.273	-3.080	0.007	0.067	-2.474
Gm5620	0.661	12.412	3.079	0.007	0.067	-2.476
Mex3a	-0.706	6.425	-3.079	0.007	0.067	-2.477
Hlcs	-0.663	6.843	-3.078	0.007	0.067	-2.479
Myo3b	-0.489	2.855	-3.078	0.007	0.067	-2.479
Slc46a3	-0.514	4.669	-3.076	0.007	0.067	-2.482

A930004D18Rik	-0.322	2.859	-3.075	0.007	0.067	-2.484
Gm11787	0.973	7.345	3.074	0.007	0.067	-2.485
E130311K13Rik	-0.648	5.697	-3.073	0.007	0.067	-2.488
Glce	-0.407	4.513	-3.072	0.007	0.067	-2.489
Rpl10a	0.298	12.704	3.072	0.007	0.067	-2.490
Acaa2	-0.545	9.399	-3.072	0.007	0.067	-2.491
Frmpd1	-0.426	4.388	-3.071	0.007	0.068	-2.493
C80360	-0.417	4.240	-3.070	0.007	0.068	-2.493
Traf7	0.460	7.384	3.070	0.007	0.068	-2.493
Syne4	-0.533	4.428	-3.070	0.007	0.068	-2.494
Zfp608	0.551	6.664	3.070	0.007	0.068	-2.494
Lrrc66	0.466	6.681	3.070	0.007	0.068	-2.495
Phf21a	0.784	7.165	3.069	0.007	0.068	-2.495
Nkiras1	-0.473	6.660	-3.069	0.007	0.068	-2.496
9430081I23Rik	-0.427	4.118	-3.069	0.007	0.068	-2.496
D17Erttd763e	-0.386	3.586	-3.069	0.007	0.068	-2.497
Hnrnp2	0.393	8.934	3.068	0.007	0.068	-2.498
Gna15	-0.548	3.856	-3.068	0.007	0.068	-2.498
Plcd1	-0.764	6.706	-3.068	0.007	0.068	-2.499
Rbp3	-0.513	4.965	-3.067	0.007	0.068	-2.500
Ep400	0.342	8.154	3.067	0.007	0.068	-2.501
9430064I24Rik	-0.386	3.462	-3.066	0.007	0.068	-2.502
Foxd1	-0.391	2.686	-3.066	0.007	0.068	-2.502
Rab42	0.446	3.159	3.065	0.007	0.068	-2.503
Zfp358	-0.427	5.924	-3.065	0.007	0.068	-2.503
Slmo1	-0.373	6.113	-3.065	0.007	0.068	-2.504
Epha1	1.105	5.859	3.065	0.007	0.068	-2.504
Ltc4s	0.548	7.083	3.065	0.007	0.068	-2.504
BC048609	-0.321	3.045	-3.064	0.007	0.068	-2.506
Bmyc	-0.747	7.093	-3.064	0.007	0.068	-2.507
Bbx	-1.001	3.665	-3.064	0.007	0.068	-2.507
Aif11	-0.949	7.870	-3.064	0.007	0.068	-2.507
Pdzd4	-0.412	3.940	-3.064	0.007	0.068	-2.507
Zfp78	-0.600	3.064	-3.063	0.007	0.068	-2.507
Vps37c	0.727	8.021	3.063	0.007	0.068	-2.508
Tmem44	-0.398	2.479	-3.063	0.007	0.068	-2.509
LOC100503594	-0.467	4.136	-3.062	0.007	0.068	-2.510
D15Erttd621e	-0.712	8.507	-3.062	0.007	0.068	-2.510
LOC102637500	-0.358	2.859	-3.061	0.007	0.068	-2.511
Gnaq	0.462	7.698	3.061	0.007	0.068	-2.511
Hist1h3f	-0.420	4.236	-3.061	0.007	0.068	-2.512
LOC102636737	-0.535	5.122	-3.060	0.007	0.068	-2.513
AU015230	-0.361	3.000	-3.060	0.007	0.068	-2.514
Rnf222	-0.544	5.581	-3.059	0.007	0.068	-2.515
Tmem88b	-0.419	3.949	-3.059	0.007	0.068	-2.516
Gm20324	-0.422	4.556	-3.059	0.007	0.068	-2.516
4930573G07Rik	-0.559	3.323	-3.058	0.007	0.068	-2.517
LOC102642250	0.593	8.728	3.057	0.007	0.068	-2.520
C030007D22Rik	-0.393	2.254	-3.057	0.007	0.068	-2.521
Rapgef4	-0.571	4.104	-3.056	0.007	0.068	-2.522

Stard7	-0.378	4.401	-3.056	0.007	0.068	-2.522
9530020I12Rik	-0.552	3.297	-3.056	0.007	0.068	-2.523
Grm5	-0.360	2.305	-3.055	0.007	0.068	-2.524
Ptgs2	1.306	4.396	3.055	0.007	0.068	-2.525
Cml3	-0.433	2.952	-3.055	0.007	0.068	-2.525
Knstrn	0.731	6.947	3.054	0.007	0.068	-2.525
Pr1	-0.489	3.376	-3.054	0.007	0.068	-2.526
Rab5c	0.566	8.204	3.053	0.007	0.068	-2.527
Eltd1	-0.836	4.926	-3.053	0.007	0.068	-2.528
Gpihbp1	-0.471	5.473	-3.053	0.007	0.068	-2.528
LOC102643125	-0.355	2.314	-3.053	0.007	0.068	-2.528
Tspan9	-0.648	7.266	-3.053	0.007	0.068	-2.529
Ttc13	0.469	7.932	3.053	0.007	0.068	-2.529
Anxa13	-2.042	5.937	-3.052	0.007	0.068	-2.529
Apoo	-0.884	8.988	-3.052	0.007	0.068	-2.530
Slc44a4	0.412	10.985	3.052	0.007	0.068	-2.530
Zfp40	-0.489	2.724	-3.052	0.007	0.068	-2.530
Zfp626	-0.333	2.950	-3.050	0.007	0.069	-2.533
Efna2	-0.543	4.653	-3.050	0.007	0.069	-2.534
Ctnnal1	-0.548	4.530	-3.050	0.007	0.069	-2.534
Spem1	-0.583	5.917	-3.050	0.007	0.069	-2.535
G3bp1	0.641	9.630	3.049	0.007	0.069	-2.535
AI844685	-1.565	5.892	-3.049	0.007	0.069	-2.536
Gm17399	-0.404	3.303	-3.049	0.007	0.069	-2.536
Arap1	0.437	7.337	3.049	0.007	0.069	-2.536
1700026D08Rik	-0.415	2.664	-3.048	0.007	0.069	-2.537
Gpr162	-0.592	6.526	-3.048	0.007	0.069	-2.539
Nid2	-0.675	3.426	-3.048	0.007	0.069	-2.539
Rhox9	-0.508	4.608	-3.048	0.007	0.069	-2.539
Crybb3	-0.409	5.086	-3.048	0.007	0.069	-2.539
Vtcn1	0.681	4.029	3.047	0.007	0.069	-2.540
Slc25a39	-0.463	12.344	-3.047	0.007	0.069	-2.541
4930447K03Rik	-0.495	4.204	-3.046	0.007	0.069	-2.541
Plagl1	-0.931	9.185	-3.046	0.007	0.069	-2.542
Fat3	-0.581	4.025	-3.046	0.007	0.069	-2.543
Ndufa1	-0.515	11.828	-3.045	0.007	0.069	-2.543
Fgfr1op	0.364	7.591	3.045	0.007	0.069	-2.544
Adad2	-0.431	4.797	-3.045	0.007	0.069	-2.544
9530001P21Rik	-0.530	4.074	-3.045	0.007	0.069	-2.544
B9d1os	-0.393	3.657	-3.044	0.007	0.069	-2.547
Pax4	-0.471	4.145	-3.042	0.007	0.069	-2.549
Barhl1	-0.402	2.865	-3.042	0.007	0.069	-2.549
Doc2b	-0.575	3.951	-3.042	0.007	0.069	-2.551
Smco3	-0.387	2.327	-3.042	0.007	0.069	-2.551
Ltf	3.056	9.549	3.042	0.007	0.069	-2.551
Foxa2	-1.264	8.737	-3.041	0.007	0.069	-2.551
Rgs9	-0.407	6.284	-3.041	0.007	0.069	-2.552
Map2	-0.391	3.026	-3.041	0.007	0.069	-2.552
Ndufs3	-0.522	10.301	-3.041	0.007	0.069	-2.552
Fam83e	0.822	9.372	3.041	0.007	0.069	-2.552

Llgl2	-0.409	9.241	-3.041	0.007	0.069	-2.552
C4a	1.822	8.397	3.041	0.007	0.069	-2.553
Adam6a	-0.462	3.614	-3.040	0.007	0.069	-2.553
2900092N22Rik	-0.416	3.067	-3.040	0.007	0.069	-2.553
AA408251	-0.550	3.089	-3.039	0.007	0.069	-2.555
Cdca7	0.909	6.414	3.039	0.007	0.069	-2.556
Neto1	-0.580	4.944	-3.039	0.007	0.069	-2.556
Fbxl17	-0.409	5.641	-3.038	0.007	0.069	-2.557
Atp6v0e	-0.511	10.266	-3.038	0.007	0.069	-2.557
Dock1	-0.527	3.580	-3.038	0.007	0.069	-2.558
2010001E11Rik	-0.491	5.481	-3.038	0.007	0.069	-2.558
Clql2	-0.440	4.129	-3.038	0.007	0.069	-2.558
Osr2	-0.409	2.633	-3.036	0.007	0.069	-2.561
Fam212b	-0.403	3.570	-3.036	0.007	0.069	-2.562
Myh6	-0.520	3.865	-3.036	0.007	0.069	-2.563
Cst10	-0.444	2.941	-3.035	0.007	0.069	-2.565
Mmd2	-0.470	3.910	-3.035	0.007	0.069	-2.565
Rps24	0.313	11.950	3.034	0.007	0.070	-2.566
Fbxo27	-0.501	5.546	-3.034	0.007	0.070	-2.566
AU015581	-0.542	3.188	-3.033	0.007	0.070	-2.567
Ube2q11	-0.402	4.313	-3.033	0.007	0.070	-2.567
Papss2	-0.755	8.461	-3.033	0.007	0.070	-2.568
Slc45a4	-0.339	7.879	-3.033	0.007	0.070	-2.568
Pnpla2	-0.419	8.762	-3.033	0.007	0.070	-2.568
Slc25a46	-0.315	9.367	-3.032	0.007	0.070	-2.569
Mboat4	-0.591	4.637	-3.032	0.007	0.070	-2.569
Gm10436	-0.341	2.332	-3.032	0.007	0.070	-2.570
4930453H23Rik	-0.335	2.751	-3.032	0.007	0.070	-2.571
Actl10	-0.586	4.949	-3.030	0.007	0.070	-2.574
Ppm1l	-0.712	5.557	-3.030	0.007	0.070	-2.574
Ncapg	1.110	5.160	3.029	0.007	0.070	-2.575
4931429L15Rik	-0.427	6.467	-3.029	0.007	0.070	-2.575
9430052A13Rik	-0.461	4.081	-3.029	0.007	0.070	-2.577
St14	0.431	10.452	3.028	0.007	0.070	-2.579
Gm27040	-0.452	4.135	-3.027	0.007	0.070	-2.579
AV039307	-0.575	3.658	-3.027	0.008	0.070	-2.581
Cd209f	-0.582	5.547	-3.026	0.008	0.070	-2.581
Ptpro	-0.543	5.718	-3.026	0.008	0.070	-2.582
Eif4e	0.442	8.042	3.025	0.008	0.070	-2.584
Plcb4	-0.825	3.641	-3.025	0.008	0.070	-2.585
Slc2a5	-1.009	6.452	-3.024	0.008	0.070	-2.585
Fabp12	-1.681	5.708	-3.024	0.008	0.070	-2.587
LOC102639781	-0.480	3.588	-3.023	0.008	0.070	-2.587
Dync1i1	-0.410	2.709	-3.023	0.008	0.070	-2.588
Fntb	0.382	7.171	3.023	0.008	0.070	-2.588
Adamts12	-0.499	6.322	-3.022	0.008	0.071	-2.590
Defb10	-0.458	3.096	-3.022	0.008	0.071	-2.590
H2-DMb1	3.806	8.506	3.021	0.008	0.071	-2.591
Tnfrsf1b	0.737	8.006	3.021	0.008	0.071	-2.591
2310079G19Rik	-0.436	4.251	-3.021	0.008	0.071	-2.592

Hpgd	-0.817	9.585	-3.020	0.008	0.071	-2.594
Casp8ap2	0.564	7.397	3.020	0.008	0.071	-2.594
B930036G03Rik	-0.506	6.732	-3.020	0.008	0.071	-2.595
Pitpnm1	0.556	6.840	3.019	0.008	0.071	-2.595
Prpsap2	-0.438	7.464	-3.019	0.008	0.071	-2.595
C230096K16Rik	-0.535	4.204	-3.019	0.008	0.071	-2.595
Hddc3	-0.496	4.085	-3.018	0.008	0.071	-2.598
D11Ertd4e	-0.440	3.977	-3.017	0.008	0.071	-2.599
D7Ertd481e	-0.447	3.955	-3.017	0.008	0.071	-2.600
Znrf2	-0.459	3.864	-3.017	0.008	0.071	-2.600
C130073F10Rik	-0.537	3.004	-3.017	0.008	0.071	-2.600
Anp32b	0.438	10.199	3.016	0.008	0.071	-2.601
Slc4a2	-0.680	10.432	-3.016	0.008	0.071	-2.601
Gm11149	-0.388	3.464	-3.016	0.008	0.071	-2.602
Aimp1	0.569	9.082	3.016	0.008	0.071	-2.602
1700030K09Rik	-0.320	5.721	-3.016	0.008	0.071	-2.602
4930556N09Rik	-0.390	2.830	-3.015	0.008	0.071	-2.603
Lhx5	-0.757	3.876	-3.015	0.008	0.071	-2.604
3830417A13Rik	-0.524	3.930	-3.014	0.008	0.071	-2.606
Fkbp9	-0.586	8.785	-3.013	0.008	0.071	-2.608
Armcx4	-1.233	4.358	-3.013	0.008	0.071	-2.608
Tram2	-0.553	4.176	-3.012	0.008	0.071	-2.610
4933411E08Rik	-0.477	3.009	-3.011	0.008	0.071	-2.612
Zfp563	-0.537	5.406	-3.010	0.008	0.072	-2.614
Paox	0.985	7.430	3.010	0.008	0.072	-2.614
Tnni3	-2.514	8.049	-3.009	0.008	0.072	-2.615
4930578I07Rik	-0.373	4.714	-3.009	0.008	0.072	-2.616
Myef2	0.616	3.277	3.009	0.008	0.072	-2.616
D11Ertd506e	-0.403	3.848	-3.008	0.008	0.072	-2.617
Pigv	-0.313	5.388	-3.008	0.008	0.072	-2.618
Srd5a3	-0.433	6.822	-3.008	0.008	0.072	-2.618
Rad54l2	-0.444	5.382	-3.006	0.008	0.072	-2.621
Padi6	-0.409	3.507	-3.006	0.008	0.072	-2.621
Gja3	-0.443	4.274	-3.006	0.008	0.072	-2.622
Bean1	-0.355	3.040	-3.006	0.008	0.072	-2.622
Csrp2	-0.404	10.121	-3.005	0.008	0.072	-2.623
2610306M01Rik	-0.639	5.654	-3.005	0.008	0.072	-2.624
Trio	0.652	7.779	3.004	0.008	0.072	-2.625
Nbr1	-0.427	9.587	-3.004	0.008	0.072	-2.626
Usp7	0.436	9.384	3.004	0.008	0.072	-2.626
Cyp2b10	-1.238	4.750	-3.003	0.008	0.072	-2.627
Adrbk1	0.483	8.396	3.002	0.008	0.072	-2.630
Stom	1.290	6.587	3.001	0.008	0.072	-2.631
Col4a3	-0.750	4.766	-3.001	0.008	0.072	-2.631
Tmem246	-0.872	10.199	-3.001	0.008	0.072	-2.632
Srsf4	0.291	8.832	3.001	0.008	0.072	-2.632
Bri3	-0.602	9.988	-3.000	0.008	0.072	-2.633
Elmsan1	-0.465	3.838	-3.000	0.008	0.072	-2.634
Zcchc7	0.853	8.281	2.998	0.008	0.073	-2.638
Smndc1	0.583	6.815	2.998	0.008	0.073	-2.638

Tmem52b	-0.489	3.393	-2.997	0.008	0.073	-2.639
Opn4	-0.469	5.356	-2.997	0.008	0.073	-2.640
1700024P04Rik	-0.397	3.419	-2.996	0.008	0.073	-2.641
Braf	-0.460	4.561	-2.996	0.008	0.073	-2.642
Taf1d	0.816	3.760	2.996	0.008	0.073	-2.642
Wnk4	-0.732	5.525	-2.996	0.008	0.073	-2.642
Impact	0.663	5.626	2.996	0.008	0.073	-2.642
Gstcd	0.504	6.541	2.996	0.008	0.073	-2.642
4933417G07Rik	-0.382	3.326	-2.995	0.008	0.073	-2.643
Zcchc2	0.578	7.184	2.995	0.008	0.073	-2.644
B230354K17Rik	0.727	5.972	2.994	0.008	0.073	-2.645
Gm19589	-0.331	2.989	-2.994	0.008	0.073	-2.645
Ankrd40	-0.425	8.281	-2.994	0.008	0.073	-2.646
3830408C21Rik	-0.402	2.932	-2.994	0.008	0.073	-2.646
Trim31	1.692	5.919	2.993	0.008	0.073	-2.647
Dusp18	-0.372	6.331	-2.993	0.008	0.073	-2.648
D030055H07Rik	-0.566	3.504	-2.993	0.008	0.073	-2.648
Sema4f	-0.387	4.835	-2.993	0.008	0.073	-2.648
3110018I06Rik	-0.425	3.186	-2.992	0.008	0.073	-2.650
Sirt6	-0.328	5.875	-2.991	0.008	0.073	-2.651
Rab43	-0.475	8.661	-2.991	0.008	0.073	-2.651
4933437F24Rik	-0.375	3.015	-2.991	0.008	0.073	-2.652
H2-Eb1	3.150	10.248	2.990	0.008	0.073	-2.653
Lcn9	-0.396	3.027	-2.990	0.008	0.073	-2.653
Klh129	-0.374	2.630	-2.990	0.008	0.073	-2.654
Hyal3	-0.429	4.662	-2.989	0.008	0.073	-2.655
Cyb5r3	-0.306	9.300	-2.989	0.008	0.073	-2.655
A130071D04Rik	0.921	3.926	2.989	0.008	0.073	-2.656
Nabp1	-0.612	6.634	-2.988	0.008	0.073	-2.657
2210010C04Rik	-1.682	3.471	-2.987	0.008	0.073	-2.659
1810009N02Rik	-0.384	6.657	-2.987	0.008	0.073	-2.659
Pard6a	-0.872	5.784	-2.986	0.008	0.073	-2.661
Tmem50b	-1.068	9.327	-2.986	0.008	0.073	-2.662
Scly	0.494	7.237	2.986	0.008	0.073	-2.662
Irak2	0.784	7.234	2.986	0.008	0.073	-2.662
Zbtb39	0.444	6.877	2.985	0.008	0.073	-2.662
Nrd1	-0.380	9.185	-2.985	0.008	0.073	-2.663
AA408456	-0.542	4.293	-2.985	0.008	0.073	-2.663
Zbtb6	0.441	7.627	2.985	0.008	0.073	-2.663
Hist1h2bc	-0.615	9.796	-2.985	0.008	0.073	-2.664
Usp39	0.583	8.900	2.985	0.008	0.073	-2.664
4930408017Rik	-0.308	5.507	-2.984	0.008	0.073	-2.665
Tnfrsf21	-0.635	8.536	-2.984	0.008	0.073	-2.665
Gpsm2	0.811	7.300	2.984	0.008	0.073	-2.666
Gsdmc2	1.532	9.701	2.983	0.008	0.074	-2.668
Dnal1	-0.482	4.135	-2.981	0.008	0.074	-2.670
Syt14	-0.574	8.209	-2.981	0.008	0.074	-2.671
Slc4a1ap	0.424	6.315	2.981	0.008	0.074	-2.672
Plcx2	0.895	6.622	2.980	0.008	0.074	-2.672
Gm12538	-0.431	7.188	-2.980	0.008	0.074	-2.674

Spats1	-0.535	3.764	-2.979	0.008	0.074	-2.674
Msrbl	-0.449	8.897	-2.979	0.008	0.074	-2.675
4930556J24Rik	-0.386	3.020	-2.979	0.008	0.074	-2.676
Nup85	0.513	7.621	2.979	0.008	0.074	-2.676
Fancm	-0.372	3.709	-2.978	0.008	0.074	-2.676
Clqa	1.830	7.380	2.978	0.008	0.074	-2.677
C2	0.654	4.943	2.978	0.008	0.074	-2.677
Sox1	-0.432	3.363	-2.977	0.008	0.074	-2.679
Txnrd1	0.487	10.305	2.977	0.008	0.074	-2.679
4930551A22Rik	-0.536	4.988	-2.977	0.008	0.074	-2.679
Ccdc134	-0.505	4.034	-2.977	0.008	0.074	-2.680
Dbn1	-1.230	6.313	-2.977	0.008	0.074	-2.680
Pdgfr1	-0.525	3.213	-2.975	0.008	0.074	-2.682
Endod1	-0.551	5.684	-2.974	0.008	0.074	-2.684
Hoxd3os1	-0.415	3.346	-2.974	0.008	0.074	-2.685
D17Ertd191e	-0.424	2.883	-2.974	0.008	0.074	-2.686
C81608	-0.505	3.754	-2.974	0.008	0.074	-2.686
Myola	0.545	9.487	2.973	0.008	0.074	-2.687
Thap6	-0.339	3.706	-2.973	0.008	0.074	-2.688
Uxs1	0.506	6.639	2.972	0.008	0.075	-2.689
Pola2	-0.402	3.281	-2.972	0.008	0.075	-2.690
Clvs1	-0.388	3.681	-2.971	0.008	0.075	-2.690
Txndc8	-0.362	3.092	-2.971	0.008	0.075	-2.691
Brd4	0.546	8.400	2.970	0.008	0.075	-2.693
Ube2v2	0.666	7.495	2.970	0.008	0.075	-2.694
Akt1	0.496	9.969	2.968	0.008	0.075	-2.696
BC018242	-0.483	4.769	-2.968	0.009	0.075	-2.697
Smarcc2	-0.386	7.790	-2.967	0.009	0.075	-2.698
Ttc18	-0.392	2.988	-2.967	0.009	0.075	-2.698
4933413C19Rik	-0.382	3.852	-2.967	0.009	0.075	-2.699
Atp5s	-0.680	6.388	-2.967	0.009	0.075	-2.699
Fktn	-0.612	4.640	-2.965	0.009	0.075	-2.702
Prss37	-0.285	2.062	-2.965	0.009	0.075	-2.703
Sh3d21	-0.400	5.922	-2.964	0.009	0.075	-2.706
5730405N03Rik	-0.362	4.366	-2.963	0.009	0.075	-2.706
D7Ertd523e	-0.440	3.464	-2.963	0.009	0.076	-2.707
Mzb1	1.607	5.350	2.963	0.009	0.076	-2.708
Dscam11	-0.475	3.543	-2.962	0.009	0.076	-2.709
Maoa	1.116	7.434	2.962	0.009	0.076	-2.709
Ctsh	0.795	9.813	2.962	0.009	0.076	-2.709
Cep55	0.946	7.808	2.962	0.009	0.076	-2.710
Krt76	-0.403	4.742	-2.961	0.009	0.076	-2.710
Fam122c	-0.462	3.057	-2.960	0.009	0.076	-2.713
AI118078	-0.463	5.380	-2.960	0.009	0.076	-2.713
Gnaz	-0.773	4.598	-2.960	0.009	0.076	-2.714
Gpaal	-0.545	6.527	-2.960	0.009	0.076	-2.714
2300002M23Rik	-0.528	3.851	-2.959	0.009	0.076	-2.714
Igfals	-0.443	5.149	-2.958	0.009	0.076	-2.716
Slc9a3r2	-0.522	6.834	-2.958	0.009	0.076	-2.716
3300002P13Rik	-0.423	4.058	-2.958	0.009	0.076	-2.718

I11f9	-0.451	4.756	-2.958	0.009	0.076	-2.718
Pik3ca	0.405	6.586	2.957	0.009	0.076	-2.718
Klra21	-0.423	2.422	-2.957	0.009	0.076	-2.718
4933438A12Rik	-0.557	5.753	-2.957	0.009	0.076	-2.720
Mgea5	0.501	8.666	2.956	0.009	0.076	-2.720
Dgke	-0.464	4.611	-2.956	0.009	0.076	-2.721
Kcnk1	1.034	9.619	2.956	0.009	0.076	-2.721
I14i1	-0.700	4.965	-2.956	0.009	0.076	-2.722
Etfa	-0.487	10.567	-2.955	0.009	0.076	-2.722
Zrsr2	-0.309	2.682	-2.955	0.009	0.076	-2.723
C030047K22Rik	-0.407	2.645	-2.955	0.009	0.076	-2.723
Plp1	-0.522	7.065	-2.954	0.009	0.076	-2.724
Akap3	-0.417	3.135	-2.954	0.009	0.076	-2.725
Tas1r2	-0.485	4.443	-2.954	0.009	0.076	-2.725
Popdc2	-0.681	5.332	-2.954	0.009	0.076	-2.726
2900011F02Rik	-0.535	3.319	-2.953	0.009	0.076	-2.727
Eif3b	0.407	9.730	2.952	0.009	0.076	-2.728
5430427N15Rik	-0.450	2.468	-2.951	0.009	0.076	-2.730
Klh16	0.687	5.030	2.950	0.009	0.077	-2.732
Cpa5	-0.489	2.786	-2.950	0.009	0.077	-2.732
Myod1	-0.413	4.746	-2.950	0.009	0.077	-2.733
1700008K24Rik	-0.443	3.814	-2.950	0.009	0.077	-2.733
Clec4b1	-0.313	2.432	-2.949	0.009	0.077	-2.734
I12	-0.583	8.710	-2.949	0.009	0.077	-2.736
Pramel6	-0.317	2.904	-2.948	0.009	0.077	-2.736
Ppp1r3fos	-0.356	3.487	-2.948	0.009	0.077	-2.736
Got2	-0.565	10.289	-2.948	0.009	0.077	-2.736
4930435F18Rik	-0.365	2.521	-2.948	0.009	0.077	-2.737
C79557	-0.433	4.197	-2.948	0.009	0.077	-2.737
LOC102635744	-0.383	3.287	-2.947	0.009	0.077	-2.738
Ube2j2	0.435	9.170	2.947	0.009	0.077	-2.739
Depdcla	0.893	4.003	2.947	0.009	0.077	-2.739
Klf1	-0.511	4.587	-2.946	0.009	0.077	-2.740
Fam126b	-0.634	6.443	-2.946	0.009	0.077	-2.740
Cfhr3	-0.262	2.422	-2.946	0.009	0.077	-2.741
Btbd3	-0.885	7.889	-2.945	0.009	0.077	-2.743
Tulp2	-0.497	2.871	-2.945	0.009	0.077	-2.743
Gm6682	0.620	6.125	2.944	0.009	0.077	-2.745
Mettl6	0.427	6.181	2.943	0.009	0.077	-2.747
Cr1f1	-0.970	6.274	-2.942	0.009	0.077	-2.748
Kdm4a	0.796	6.828	2.942	0.009	0.077	-2.749
Sft2d2	0.354	7.951	2.941	0.009	0.077	-2.751
Brap	-0.377	8.332	-2.941	0.009	0.077	-2.751
1700071K01Rik	-0.388	5.073	-2.940	0.009	0.077	-2.751
Grin2b	-0.532	3.841	-2.940	0.009	0.077	-2.752
Psm1	0.507	9.543	2.940	0.009	0.077	-2.752
Col18a1	1.059	6.504	2.940	0.009	0.077	-2.753
Adcy4	-0.408	4.976	-2.940	0.009	0.077	-2.753
Aasdh	0.631	6.339	2.939	0.009	0.077	-2.755
5430435K18Rik	-0.515	2.845	-2.939	0.009	0.077	-2.755

Ube2d2b	-0.436	2.341	-2.939	0.009	0.077	-2.755
Sacs	-0.501	3.640	-2.939	0.009	0.077	-2.755
Gm6150	-0.392	2.625	-2.938	0.009	0.077	-2.756
Plcl1	-0.435	2.776	-2.938	0.009	0.077	-2.756
Mturn	-0.474	3.609	-2.938	0.009	0.077	-2.756
Gtpbp8	-0.358	4.208	-2.938	0.009	0.077	-2.757
Gm6936	-0.331	3.286	-2.938	0.009	0.077	-2.757
Slc34a2	-0.438	5.694	-2.937	0.009	0.077	-2.757
Tex24	-0.436	2.584	-2.937	0.009	0.077	-2.757
Gsr	0.557	8.812	2.937	0.009	0.077	-2.758
Sncb	-0.476	6.052	-2.936	0.009	0.078	-2.760
Ghdc	0.559	5.670	2.936	0.009	0.078	-2.760
Dpfl	-0.420	3.724	-2.936	0.009	0.078	-2.761
Pom121	0.415	7.640	2.935	0.009	0.078	-2.762
2900064F13Rik	-0.324	2.357	-2.934	0.009	0.078	-2.764
Krtap10-4	-0.374	4.486	-2.934	0.009	0.078	-2.764
Pyhin1	1.127	5.007	2.933	0.009	0.078	-2.765
5430414B12Rik	-0.378	2.851	-2.933	0.009	0.078	-2.765
4930563E18Rik	-0.502	4.431	-2.933	0.009	0.078	-2.767
Atxn1	0.442	8.041	2.933	0.009	0.078	-2.767
4930529M08Rik	-0.456	4.792	-2.932	0.009	0.078	-2.768
Socs3	1.500	7.563	2.932	0.009	0.078	-2.768
1190002N15Rik	-0.746	5.585	-2.932	0.009	0.078	-2.769
AW413774	-0.446	5.500	-2.930	0.009	0.078	-2.771
1810064F22Rik	-0.493	6.933	-2.929	0.009	0.078	-2.773
Gm166	-0.588	4.380	-2.929	0.009	0.078	-2.773
1110002L01Rik	-0.477	4.904	-2.929	0.009	0.078	-2.774
Lyz1	2.574	9.763	2.929	0.009	0.078	-2.775
LOC102641068	-0.378	2.935	-2.928	0.009	0.078	-2.776
AU022297	-0.526	3.382	-2.928	0.009	0.078	-2.777
Gpr22	-0.389	2.746	-2.927	0.009	0.078	-2.777
2900079G21Rik	-0.473	3.732	-2.927	0.009	0.078	-2.777
Gm15417	-0.410	6.488	-2.927	0.009	0.079	-2.779
Nat3	-0.550	2.770	-2.926	0.009	0.079	-2.780
2310030G06Rik	-0.594	8.118	-2.926	0.009	0.079	-2.780
Fam86	-0.508	7.280	-2.926	0.009	0.079	-2.781
Strip1	0.418	7.648	2.925	0.009	0.079	-2.781
Gpt2	-0.846	6.970	-2.925	0.009	0.079	-2.782
Tiel	-0.543	3.737	-2.925	0.009	0.079	-2.782
Cldnd2	-0.413	3.293	-2.925	0.009	0.079	-2.782
Gm9558	-0.486	3.387	-2.925	0.009	0.079	-2.782
Entpd7	0.687	6.976	2.925	0.009	0.079	-2.783
Ppmle	-1.079	3.626	-2.924	0.009	0.079	-2.783
Sfpq	0.720	8.281	2.924	0.009	0.079	-2.784
Slc30a8	-0.479	3.200	-2.923	0.009	0.079	-2.787
Nav3	-0.543	3.450	-2.922	0.009	0.079	-2.787
Mios	-0.391	6.459	-2.922	0.009	0.079	-2.787
Sema3c	-0.652	6.189	-2.922	0.009	0.079	-2.788
Rbm8a	0.571	9.297	2.922	0.009	0.079	-2.788
2310057B04Rik	-0.444	3.855	-2.922	0.009	0.079	-2.788

Sox10	-0.396	6.002	-2.921	0.009	0.079	-2.789
Fbx15	0.523	8.505	2.921	0.009	0.079	-2.790
2610528A11Rik	-0.419	3.233	-2.921	0.009	0.079	-2.791
Igh-VJ558	-0.397	3.983	-2.920	0.009	0.079	-2.792
Gm5089	-0.444	3.188	-2.920	0.009	0.079	-2.793
C79329	-0.423	2.461	-2.919	0.009	0.079	-2.793
AA589418	-0.336	2.879	-2.919	0.009	0.079	-2.794
9130221J17Rik	1.381	5.181	2.918	0.009	0.079	-2.796
Zfp318	-0.588	5.049	-2.917	0.009	0.079	-2.797
Gpr174	-0.461	3.233	-2.916	0.010	0.080	-2.800
1700012A03Rik	-0.324	2.415	-2.916	0.010	0.080	-2.801
P2ry10	1.425	3.785	2.916	0.010	0.080	-2.801
Fryl	0.707	8.726	2.915	0.010	0.080	-2.801
1810046K07Rik	0.639	5.547	2.915	0.010	0.080	-2.801
Mtss11	-0.391	3.916	-2.915	0.010	0.080	-2.802
5430425E15Rik	-0.433	3.124	-2.915	0.010	0.080	-2.802
Siae	-0.588	5.200	-2.914	0.010	0.080	-2.803
Phip	0.679	7.394	2.914	0.010	0.080	-2.803
4930522H14Rik	-0.455	3.569	-2.914	0.010	0.080	-2.804
Bsnd	-0.464	3.912	-2.914	0.010	0.080	-2.804
Cul2	0.539	5.256	2.914	0.010	0.080	-2.804
LOC102633199	-0.499	4.566	-2.913	0.010	0.080	-2.805
4933429K18Rik	-0.481	4.450	-2.913	0.010	0.080	-2.806
Ep300	0.360	8.294	2.913	0.010	0.080	-2.806
Rbm43	0.645	7.478	2.912	0.010	0.080	-2.807
Dpy1912	-0.310	2.362	-2.912	0.010	0.080	-2.807
Xbp1	-0.430	10.216	-2.912	0.010	0.080	-2.807
Pnkd	-1.192	7.335	-2.912	0.010	0.080	-2.808
Morc2a	0.443	6.973	2.912	0.010	0.080	-2.808
D830044I16Rik	-0.519	4.858	-2.911	0.010	0.080	-2.809
Gbgt1	-0.569	3.614	-2.911	0.010	0.080	-2.809
Ndufa3	-0.514	12.055	-2.911	0.010	0.080	-2.810
Capn5	0.807	9.792	2.911	0.010	0.080	-2.810
Rab27a	0.940	5.414	2.908	0.010	0.080	-2.815
Tpm3	0.296	12.138	2.908	0.010	0.080	-2.815
Npy5r	-0.516	3.604	-2.908	0.010	0.080	-2.815
Tcrb-J	-0.351	2.741	-2.908	0.010	0.080	-2.815
Snapc5	-0.381	2.489	-2.908	0.010	0.080	-2.816
Sprn	-0.437	2.952	-2.907	0.010	0.080	-2.818
Cabp1	-0.457	2.915	-2.907	0.010	0.080	-2.818
Slc4a8	-0.365	2.626	-2.907	0.010	0.080	-2.818
Olfir16	-0.446	4.110	-2.907	0.010	0.080	-2.818
Emp2	-0.850	6.624	-2.906	0.010	0.080	-2.819
Gm10501	-0.382	3.085	-2.906	0.010	0.080	-2.819
D630023F18Rik	-0.566	2.870	-2.906	0.010	0.080	-2.820
Anxa2	1.036	11.943	2.905	0.010	0.080	-2.821
Brsk2	-0.345	2.867	-2.905	0.010	0.080	-2.821
Casp1	2.967	7.326	2.905	0.010	0.080	-2.821
BC002288	2.770	5.768	2.905	0.010	0.080	-2.822
N28178	-0.519	4.828	-2.904	0.010	0.080	-2.824

Chrd	-0.439	5.468	-2.904	0.010	0.080	-2.824
Tmem135	-0.470	8.893	-2.904	0.010	0.080	-2.824
Fut7	-0.380	5.169	-2.903	0.010	0.080	-2.825
Ghr	-0.981	8.980	-2.903	0.010	0.080	-2.826
Fbn1	-0.570	4.057	-2.903	0.010	0.080	-2.826
Marveld2	0.605	7.439	2.903	0.010	0.080	-2.826
Nostrin	-0.321	8.152	-2.902	0.010	0.080	-2.826
Psd2	-0.376	2.496	-2.902	0.010	0.080	-2.828
Atp5o	-0.420	11.749	-2.901	0.010	0.080	-2.828
Nkx2-4	-0.537	4.936	-2.901	0.010	0.080	-2.829
Mphosph6	0.430	8.158	2.901	0.010	0.080	-2.829
U2af2	0.387	9.584	2.901	0.010	0.080	-2.829
7630402I04Rik	-0.844	3.593	-2.901	0.010	0.081	-2.830
6720460K10Rik	-0.383	2.874	-2.900	0.010	0.081	-2.831
Art2b	-0.380	2.808	-2.900	0.010	0.081	-2.831
Opcml	-0.322	2.390	-2.900	0.010	0.081	-2.831
LOC102632066	-0.315	4.492	-2.900	0.010	0.081	-2.831
Stag2	-0.394	8.818	-2.900	0.010	0.081	-2.832
Atp2c2	1.043	6.049	2.900	0.010	0.081	-2.832
Birc5	0.864	8.610	2.899	0.010	0.081	-2.833
Hsd3b1	-0.367	3.494	-2.899	0.010	0.081	-2.834
Hist1h3a	-0.459	3.427	-2.899	0.010	0.081	-2.834
Gm10362	0.910	7.895	2.898	0.010	0.081	-2.834
Bcas3	-0.609	4.314	-2.898	0.010	0.081	-2.835
Adamts14	-0.536	5.750	-2.898	0.010	0.081	-2.835
Mxra8	-0.610	6.587	-2.898	0.010	0.081	-2.835
Cd163	-0.393	2.827	-2.898	0.010	0.081	-2.835
Gria2	-0.446	4.179	-2.898	0.010	0.081	-2.835
Synj1	0.767	6.328	2.897	0.010	0.081	-2.836
Ripk3	1.466	6.710	2.897	0.010	0.081	-2.837
Eif2s2	0.556	10.849	2.897	0.010	0.081	-2.837
Fads2	1.579	6.414	2.897	0.010	0.081	-2.838
Slc22a29	-0.381	3.115	-2.897	0.010	0.081	-2.838
Mapk3	0.331	10.941	2.895	0.010	0.081	-2.841
4933416I08Rik	-0.490	3.668	-2.895	0.010	0.081	-2.841
Mthfd11	0.798	6.292	2.895	0.010	0.081	-2.841
Iah1	-0.711	8.886	-2.895	0.010	0.081	-2.841
Mdn1	0.713	6.403	2.895	0.010	0.081	-2.842
Scd2	0.650	10.037	2.894	0.010	0.081	-2.842
Aes	-0.378	9.570	-2.893	0.010	0.081	-2.845
AU015263	1.258	5.365	2.893	0.010	0.081	-2.845
Rogdi	-0.514	7.591	-2.893	0.010	0.081	-2.845
Fbxl19	0.771	5.754	2.893	0.010	0.081	-2.846
Pkd211	-0.474	3.293	-2.892	0.010	0.081	-2.848
A330068G13Rik	-0.459	2.624	-2.891	0.010	0.081	-2.848
6230424C14Rik	0.578	6.391	2.891	0.010	0.081	-2.848
Mob3c	0.417	5.581	2.891	0.010	0.081	-2.849
BC030336	-0.713	5.841	-2.891	0.010	0.081	-2.850
Pls3	-0.733	7.742	-2.891	0.010	0.081	-2.850
Rc3h2	-0.908	6.240	-2.890	0.010	0.081	-2.850

Rdh12	-0.499	3.529	-2.890	0.010	0.081	-2.851
H2-D1	1.679	10.511	2.890	0.010	0.081	-2.851
2310024H09Rik	-0.420	2.386	-2.890	0.010	0.081	-2.852
G630016G05Rik	-0.415	2.650	-2.890	0.010	0.081	-2.852
Wars2	0.445	5.061	2.890	0.010	0.081	-2.852
Dym	-0.397	7.614	-2.889	0.010	0.081	-2.854
Fam45a	-0.481	7.659	-2.888	0.010	0.081	-2.854
Plekha3	-0.482	5.373	-2.888	0.010	0.081	-2.855
Rps7	0.286	12.687	2.888	0.010	0.081	-2.856
1700096K18Rik	-0.510	4.499	-2.887	0.010	0.081	-2.856
Cdc7	1.045	5.191	2.887	0.010	0.081	-2.856
Vps13b	-0.711	3.644	-2.886	0.010	0.082	-2.858
Abhd14a	-0.460	6.887	-2.886	0.010	0.082	-2.859
9430020K01Rik	-1.030	5.984	-2.885	0.010	0.082	-2.860
Clybl	-1.081	7.377	-2.885	0.010	0.082	-2.861
Shfm1	0.490	9.403	2.885	0.010	0.082	-2.861
Parp16	-0.612	5.219	-2.884	0.010	0.082	-2.863
Mcm4	0.851	7.886	2.884	0.010	0.082	-2.863
Slc32a1	-0.527	4.361	-2.884	0.010	0.082	-2.864
Dmrt2	-0.480	2.519	-2.884	0.010	0.082	-2.864
Ror2	0.703	5.353	2.883	0.010	0.082	-2.865
Nacad	-0.438	5.981	-2.883	0.010	0.082	-2.865
LOC433197	-0.393	2.923	-2.883	0.010	0.082	-2.865
Thns12	-1.037	6.426	-2.883	0.010	0.082	-2.865
Ggnbp1	-0.715	4.175	-2.882	0.010	0.082	-2.866
Prrt1	-0.434	6.736	-2.882	0.010	0.082	-2.866
Crip3	-0.357	3.235	-2.881	0.010	0.082	-2.868
2610027K06Rik	-0.470	3.016	-2.881	0.010	0.082	-2.868
Impdh1	-0.455	7.752	-2.881	0.010	0.082	-2.869
1700071A11Rik	-0.466	4.260	-2.881	0.010	0.082	-2.869
Gpm6a	-2.046	5.375	-2.880	0.010	0.082	-2.871
Tmem161a	-0.348	5.954	-2.880	0.010	0.082	-2.871
Ngp	-0.520	3.841	-2.879	0.010	0.082	-2.872
Zfp704	0.580	6.290	2.879	0.010	0.082	-2.872
Trip11	0.771	6.422	2.879	0.010	0.082	-2.873
Gemin2	0.602	5.550	2.879	0.010	0.082	-2.873
Vmn1r15	-0.403	2.471	-2.878	0.010	0.082	-2.874
Myold	0.423	10.142	2.878	0.010	0.082	-2.874
Plat	2.001	7.175	2.878	0.010	0.082	-2.875
D6Ertd47e	-0.652	4.059	-2.878	0.010	0.082	-2.875
Fermt2	-1.130	5.980	-2.877	0.010	0.082	-2.876
Ns11	-0.373	6.064	-2.877	0.010	0.082	-2.877
1810010H24Rik	-0.489	3.536	-2.876	0.010	0.082	-2.878
4930402K13Rik	-0.268	2.224	-2.876	0.010	0.082	-2.878
Cldn22	-0.530	5.217	-2.876	0.010	0.082	-2.878
Dusp4	0.872	6.524	2.876	0.010	0.082	-2.879
Tbc1d19	-0.769	6.306	-2.876	0.010	0.082	-2.879
D4Ertd669e	-0.409	3.438	-2.875	0.010	0.082	-2.880
Eif2ak1	-0.348	7.725	-2.875	0.010	0.082	-2.880
Zfp593	0.652	7.191	2.875	0.010	0.082	-2.880

2610034E01Rik	-0.444	3.929	-2.875	0.010	0.082	-2.881
Nudt15	-0.466	4.495	-2.875	0.010	0.082	-2.881
Stim1	-0.432	6.272	-2.875	0.010	0.082	-2.881
Nipal	-0.811	6.046	-2.874	0.010	0.082	-2.882
Itgb3bp	-0.391	2.907	-2.874	0.010	0.082	-2.882
Fxyd6	-1.698	5.643	-2.874	0.010	0.082	-2.882
6030442K20Rik	-0.486	2.738	-2.874	0.010	0.082	-2.882
Gm16340	-0.453	2.945	-2.874	0.010	0.082	-2.883
I117re	-0.692	8.917	-2.873	0.010	0.082	-2.884
Psmas8	-0.354	2.935	-2.872	0.010	0.083	-2.887
Kcnk16	-0.615	5.167	-2.872	0.010	0.083	-2.887
6030440G07Rik	-0.435	2.604	-2.872	0.010	0.083	-2.887
Coq10b	0.557	7.983	2.872	0.010	0.083	-2.887
2410087M07Rik	-0.350	3.743	-2.871	0.010	0.083	-2.887
Rtel1	-0.332	4.340	-2.871	0.010	0.083	-2.887
Gtf2b	-0.383	8.677	-2.871	0.010	0.083	-2.888
Ass1	-0.494	2.825	-2.871	0.010	0.083	-2.889
Fbxw5	-0.521	6.809	-2.871	0.010	0.083	-2.889
Oxct1	-1.273	10.332	-2.869	0.011	0.083	-2.893
Ptk2b	0.373	7.565	2.868	0.011	0.083	-2.893
Gpank1	-0.303	7.401	-2.868	0.011	0.083	-2.894
Jmjd8	-0.586	7.184	-2.868	0.011	0.083	-2.895
Slc6a14	1.045	4.267	2.868	0.011	0.083	-2.895
Aldh6a1	-1.462	9.058	-2.868	0.011	0.083	-2.895
Cryz11	-0.354	5.191	-2.867	0.011	0.083	-2.896
Dkk2	-0.444	2.485	-2.867	0.011	0.083	-2.897
4430402I18Rik	-0.540	3.309	-2.866	0.011	0.083	-2.897
Srrm3	-0.422	3.266	-2.866	0.011	0.083	-2.897
Ndufa6	-0.425	10.709	-2.866	0.011	0.083	-2.898
Ly86	1.699	6.925	2.865	0.011	0.083	-2.900
St5	-0.743	8.473	-2.864	0.011	0.083	-2.901
Clstn1	-0.531	7.150	-2.864	0.011	0.083	-2.902
Eml6	-0.512	3.772	-2.864	0.011	0.083	-2.902
Nckap51	-0.477	4.313	-2.863	0.011	0.084	-2.905
Tmx3	0.508	7.565	2.862	0.011	0.084	-2.905
1700003D09Rik	-0.331	3.580	-2.862	0.011	0.084	-2.906
Smim8	-0.523	7.699	-2.862	0.011	0.084	-2.906
Larpl	0.357	9.968	2.862	0.011	0.084	-2.906
Tm9sf2	0.503	7.120	2.862	0.011	0.084	-2.907
Entpd4	-0.467	3.586	-2.861	0.011	0.084	-2.908
Glt28d2	-0.863	5.839	-2.860	0.011	0.084	-2.909
Ift122	-0.945	5.215	-2.860	0.011	0.084	-2.911
Fxyd5	1.077	6.647	2.859	0.011	0.084	-2.911
Mocs1	0.486	6.113	2.859	0.011	0.084	-2.911
9030407C09Rik	-0.375	2.292	-2.859	0.011	0.084	-2.911
Hoxb7	-0.499	2.857	-2.859	0.011	0.084	-2.912
C78339	0.344	9.437	2.858	0.011	0.084	-2.913
Cers1	-0.473	3.935	-2.858	0.011	0.084	-2.913
Rmdn1	-0.521	7.225	-2.858	0.011	0.084	-2.913
Tnfaip811	0.492	6.742	2.858	0.011	0.084	-2.914

Smim13	-0.441	7.542	-2.858	0.011	0.084	-2.914
Ifitm1	1.776	7.709	2.858	0.011	0.084	-2.915
Fgf15	-0.386	3.357	-2.857	0.011	0.084	-2.915
LOC102633691	-0.413	3.844	-2.857	0.011	0.084	-2.915
4930456K20Rik	-0.517	4.591	-2.857	0.011	0.084	-2.916
Slc25a5	-0.302	12.719	-2.857	0.011	0.084	-2.916
Psmbl0	2.151	9.909	2.856	0.011	0.084	-2.917
Bcl9l	0.568	7.234	2.856	0.011	0.084	-2.917
Pde3b	-0.646	8.935	-2.856	0.011	0.084	-2.918
Plk4	1.098	6.430	2.856	0.011	0.084	-2.918
Zrsr1	-0.541	6.399	-2.856	0.011	0.084	-2.918
Hspa5	0.697	12.209	2.855	0.011	0.084	-2.919
Fut2	0.656	8.501	2.855	0.011	0.084	-2.919
Zfp865	-0.403	6.198	-2.855	0.011	0.084	-2.920
D130037M23Rik	-0.429	4.558	-2.854	0.011	0.084	-2.921
Serac1	-0.519	3.584	-2.853	0.011	0.084	-2.923
Fkbp4	0.644	5.289	2.853	0.011	0.084	-2.924
Prpsap1	0.466	9.707	2.852	0.011	0.084	-2.925
Zfp157	-0.331	2.392	-2.852	0.011	0.084	-2.925
Mif	0.432	10.475	2.852	0.011	0.084	-2.925
Ankrd13a	-0.388	9.710	-2.852	0.011	0.084	-2.925
Grm2	-0.624	5.318	-2.852	0.011	0.084	-2.926
Smek2	0.354	8.120	2.852	0.011	0.084	-2.926
Drd2	-0.438	4.149	-2.851	0.011	0.084	-2.927
Ccl20	0.753	6.216	2.851	0.011	0.084	-2.927
Pmvk	0.948	6.947	2.850	0.011	0.084	-2.928
Kank2	-1.276	6.013	-2.850	0.011	0.084	-2.929
Tmem591	-0.443	5.152	-2.850	0.011	0.085	-2.930
Rps25	-0.588	7.195	-2.850	0.011	0.085	-2.930
Tgm6	-0.368	2.569	-2.849	0.011	0.085	-2.931
BE949265	-0.508	4.687	-2.849	0.011	0.085	-2.932
Cecr6	-0.466	5.398	-2.848	0.011	0.085	-2.933
Clec12b	-0.358	3.234	-2.848	0.011	0.085	-2.933
Gn11	0.377	7.445	2.848	0.011	0.085	-2.933
Efcab10	-0.390	2.567	-2.848	0.011	0.085	-2.933
Ptpn21	-0.363	7.550	-2.848	0.011	0.085	-2.934
Jsrp1	-0.454	5.531	-2.847	0.011	0.085	-2.935
Slc7a12	-0.327	2.941	-2.847	0.011	0.085	-2.936
Robo3	0.396	3.574	2.846	0.011	0.085	-2.937
Mt1	-0.800	11.975	-2.846	0.011	0.085	-2.937
Wap	-0.357	4.630	-2.846	0.011	0.085	-2.937
Plscr3	0.455	6.022	2.846	0.011	0.085	-2.937
S100a9	1.974	5.225	2.846	0.011	0.085	-2.938
Snhg12	0.531	7.073	2.845	0.011	0.085	-2.938
Cggbp1	0.278	10.586	2.845	0.011	0.085	-2.939
Gm10710	-0.446	3.170	-2.845	0.011	0.085	-2.940
Rabgap1l	-0.479	3.574	-2.844	0.011	0.085	-2.940
Zfp868	-0.556	5.438	-2.844	0.011	0.085	-2.940
Mpp5	-0.723	7.272	-2.844	0.011	0.085	-2.940
9030617003Rik	-0.700	7.117	-2.844	0.011	0.085	-2.940

Lgmn	0.874	7.555	2.844	0.011	0.085	-2.941
Bre	-0.461	8.295	-2.844	0.011	0.085	-2.941
Vmnlr54	-0.467	3.132	-2.843	0.011	0.085	-2.942
1700058M13Rik	-0.394	2.669	-2.843	0.011	0.085	-2.943
Trib2	-1.024	6.375	-2.843	0.011	0.085	-2.944
Mrgprf	-0.437	4.958	-2.842	0.011	0.085	-2.944
Cela2a	-0.830	4.409	-2.842	0.011	0.085	-2.945
Rbm7	0.391	9.497	2.842	0.011	0.085	-2.945
Neto2	-0.500	4.252	-2.842	0.011	0.085	-2.946
Fam174a	-0.563	8.607	-2.842	0.011	0.085	-2.946
Clint1	0.419	10.881	2.841	0.011	0.085	-2.948
B3gnt1	-0.374	7.049	-2.841	0.011	0.085	-2.948
Sox12	-0.400	4.169	-2.840	0.011	0.085	-2.948
Rps19	0.524	12.125	2.840	0.011	0.085	-2.949
4933427E11Rik	-0.316	2.572	-2.840	0.011	0.085	-2.950
Clcn3	-0.584	9.244	-2.839	0.011	0.085	-2.951
Epn2	0.557	6.871	2.838	0.011	0.085	-2.952
Car5b	-0.917	5.009	-2.838	0.011	0.085	-2.953
4933411013Rik	-0.276	2.266	-2.838	0.011	0.085	-2.953
Lyar	0.819	7.640	2.837	0.011	0.085	-2.954
Mlx	0.443	8.374	2.837	0.011	0.086	-2.955
Wdr45	-0.438	7.597	-2.837	0.011	0.086	-2.956
Klrc2	-0.318	2.474	-2.835	0.011	0.086	-2.959
Heatr5a	0.335	9.188	2.834	0.011	0.086	-2.960
Insr	-0.488	3.055	-2.834	0.011	0.086	-2.961
Iqsec1	-0.499	6.409	-2.833	0.011	0.086	-2.962
5330425B07Rik	-0.400	3.784	-2.832	0.011	0.086	-2.964
Il17ra	0.531	5.431	2.831	0.011	0.086	-2.967
Edn1	-0.881	5.829	-2.831	0.011	0.086	-2.967
Btgl	0.517	10.991	2.830	0.011	0.086	-2.968
Ergic2	0.539	7.352	2.830	0.011	0.086	-2.969
Fam118a	-0.803	6.024	-2.830	0.011	0.086	-2.969
Fkrp	-0.486	7.341	-2.830	0.011	0.086	-2.969
Gm3362	0.310	12.775	2.829	0.011	0.087	-2.970
Gm4736	-0.557	3.719	-2.829	0.011	0.087	-2.971
Ddx60	-1.351	4.756	-2.829	0.011	0.087	-2.971
Galnt12	0.592	9.941	2.828	0.011	0.087	-2.972
Fam134b	-1.703	9.611	-2.827	0.011	0.087	-2.974
Tgfbr1	-0.571	3.404	-2.827	0.011	0.087	-2.975
Camk2a	-0.461	4.283	-2.827	0.011	0.087	-2.975
Tctex1d1	-0.294	2.506	-2.826	0.012	0.087	-2.976
Fgf16	-0.394	2.849	-2.825	0.012	0.087	-2.977
Chsyl	0.423	6.659	2.825	0.012	0.087	-2.978
Cox6c	-0.303	12.177	-2.825	0.012	0.087	-2.978
Tmem109	0.642	6.938	2.825	0.012	0.087	-2.979
Ficd	-0.685	5.760	-2.824	0.012	0.087	-2.979
Map4	0.341	7.097	2.823	0.012	0.087	-2.982
Dnlz	-0.532	7.612	-2.823	0.012	0.087	-2.982
AF366264	-0.402	2.492	-2.823	0.012	0.087	-2.982
Nhlrc2	0.701	7.340	2.821	0.012	0.087	-2.985

LOC102638970	-0.573	3.686	-2.821	0.012	0.087	-2.986
Neu3	-0.334	4.382	-2.821	0.012	0.087	-2.986
Chod1	-0.462	3.223	-2.821	0.012	0.087	-2.986
Slc39a6	0.749	6.711	2.821	0.012	0.087	-2.986
Cct811	-0.398	3.710	-2.821	0.012	0.088	-2.987
2900055J20Rik	-0.517	3.244	-2.820	0.012	0.088	-2.988
9230112D13Rik	-0.470	3.404	-2.820	0.012	0.088	-2.988
Atad5	0.606	5.850	2.820	0.012	0.088	-2.988
Pet112	-0.744	6.219	-2.820	0.012	0.088	-2.988
Slc2a3	-0.505	2.992	-2.819	0.012	0.088	-2.989
D5Ert525e	-0.419	2.834	-2.819	0.012	0.088	-2.990
Clic1	0.628	11.130	2.819	0.012	0.088	-2.990
Klk1b27	-0.474	2.966	-2.818	0.012	0.088	-2.991
Ehbp111	0.532	5.511	2.818	0.012	0.088	-2.991
Tns1	-1.411	8.064	-2.818	0.012	0.088	-2.991
Fut10	-0.471	3.694	-2.818	0.012	0.088	-2.992
Akr1c21	-0.526	4.255	-2.818	0.012	0.088	-2.992
Creb3	0.547	9.236	2.818	0.012	0.088	-2.992
Ubqln4	0.459	8.307	2.817	0.012	0.088	-2.993
Fundc1	-0.663	8.028	-2.817	0.012	0.088	-2.994
Nufip2	0.586	7.003	2.816	0.012	0.088	-2.995
Dlx3	-0.515	4.439	-2.816	0.012	0.088	-2.995
Tmem230	-0.573	8.993	-2.816	0.012	0.088	-2.995
Fam167b	-0.436	4.103	-2.816	0.012	0.088	-2.996
5730522E02Rik	-0.406	3.967	-2.816	0.012	0.088	-2.996
Hao2	-0.367	2.390	-2.816	0.012	0.088	-2.997
Btbd11	0.536	3.817	2.815	0.012	0.088	-2.997
Dld	-0.556	8.652	-2.815	0.012	0.088	-2.997
Scx	-0.475	3.138	-2.814	0.012	0.088	-2.999
Stk3	0.421	7.069	2.814	0.012	0.088	-2.999
Ccdc108	-0.481	4.024	-2.814	0.012	0.088	-3.000
Gpr1	-0.360	3.755	-2.814	0.012	0.088	-3.000
6330582A15Rik	-0.497	3.237	-2.813	0.012	0.088	-3.001
A430005L14Rik	0.528	8.024	2.813	0.012	0.088	-3.001
Timp3	-0.593	3.515	-2.813	0.012	0.088	-3.002
Tlr2	1.577	6.724	2.812	0.012	0.088	-3.003
Mfsd4	-1.121	10.211	-2.812	0.012	0.088	-3.003
D5Ert615e	-0.340	3.223	-2.812	0.012	0.088	-3.004
5330411J11Rik	-0.435	3.140	-2.812	0.012	0.088	-3.004
Cdhr2	1.529	6.735	2.812	0.012	0.088	-3.004
Coa6	0.718	6.437	2.812	0.012	0.088	-3.004
Fam103a1	-0.317	9.508	-2.811	0.012	0.088	-3.005
Prss58	-0.452	2.447	-2.811	0.012	0.088	-3.005
LOC102634683	-0.477	3.551	-2.810	0.012	0.088	-3.007
Rpp25	-1.295	6.743	-2.810	0.012	0.088	-3.008
Khdc1b	-0.329	2.686	-2.810	0.012	0.088	-3.008
Khdc1a	3.586	6.348	2.809	0.012	0.088	-3.009
Gm4951	3.300	6.604	2.809	0.012	0.088	-3.009
Slc16a7	-1.943	7.326	-2.809	0.012	0.088	-3.010
Tsc22d3	-0.798	7.791	-2.808	0.012	0.088	-3.011

Tmem72	-0.333	3.925	-2.808	0.012	0.088	-3.012
Dcxr	0.612	9.122	2.807	0.012	0.089	-3.013
Gpatch8	-0.406	5.669	-2.807	0.012	0.089	-3.014
Fgd1	-0.501	5.247	-2.807	0.012	0.089	-3.014
Slc24a4	-0.534	4.494	-2.806	0.012	0.089	-3.015
Donson	0.549	6.460	2.806	0.012	0.089	-3.015
Fam221b	-0.423	3.100	-2.806	0.012	0.089	-3.015
Zfp94	-0.420	3.684	-2.806	0.012	0.089	-3.015
Chrne	-0.554	4.278	-2.806	0.012	0.089	-3.015
Dtymk	0.555	8.558	2.806	0.012	0.089	-3.016
1700051A21Rik	-0.442	3.153	-2.805	0.012	0.089	-3.016
Epha2	0.886	7.877	2.805	0.012	0.089	-3.017
Pou6f1	-0.422	2.817	-2.805	0.012	0.089	-3.017
Bglap	-1.119	8.682	-2.804	0.012	0.089	-3.019
Atp11c	-0.931	3.243	-2.804	0.012	0.089	-3.020
Tbc1d9b	-0.319	8.133	-2.803	0.012	0.089	-3.020
Myo15	-0.443	4.816	-2.803	0.012	0.089	-3.021
Mospd3	-0.351	5.359	-2.803	0.012	0.089	-3.021
1700016H13Rik	-0.412	2.681	-2.802	0.012	0.089	-3.023
Pxdn	0.770	5.503	2.802	0.012	0.089	-3.024
Kif1a	-0.667	4.671	-2.802	0.012	0.089	-3.024
Megf9	-1.536	6.091	-2.802	0.012	0.089	-3.024
Ccdc13	-0.353	5.653	-2.802	0.012	0.089	-3.024
Slc35f3	-0.524	3.055	-2.801	0.012	0.089	-3.024
Cox7a2	-0.308	12.947	-2.801	0.012	0.089	-3.025
1700093J21Rik	-0.558	4.804	-2.800	0.012	0.089	-3.026
Dnajb5	-0.403	4.870	-2.800	0.012	0.089	-3.027
Efnb3	-0.369	4.037	-2.800	0.012	0.089	-3.027
Ubd	4.770	8.359	2.800	0.012	0.089	-3.027
Zfyve1	-0.493	4.536	-2.800	0.012	0.089	-3.027
Slc6a2	-0.343	3.610	-2.799	0.012	0.089	-3.028
Atxn10	-0.478	8.408	-2.799	0.012	0.089	-3.028
H2-DMa	3.727	8.465	2.799	0.012	0.089	-3.028
LOC675947	-0.450	4.595	-2.799	0.012	0.089	-3.029
B430105A11Rik	-0.385	2.670	-2.799	0.012	0.089	-3.029
LOC102634000	-0.459	3.748	-2.798	0.012	0.089	-3.031
Rrh	-0.446	3.256	-2.798	0.012	0.089	-3.031
Tex264	-0.369	8.002	-2.798	0.012	0.089	-3.032
Cyp2j9	-0.488	3.748	-2.798	0.012	0.089	-3.032
Nol10	0.646	4.489	2.797	0.012	0.089	-3.032
Sapcd1	-0.350	4.389	-2.797	0.012	0.089	-3.033
Pclo	-0.777	4.378	-2.797	0.012	0.089	-3.033
Ccr111	-0.541	3.267	-2.796	0.012	0.089	-3.034
2900017F05Rik	-0.315	2.816	-2.796	0.012	0.089	-3.034
F8	-0.440	3.521	-2.796	0.012	0.089	-3.034
1700052M09Rik	-0.465	6.400	-2.796	0.012	0.089	-3.035
LOC102642137	0.391	10.640	2.795	0.012	0.089	-3.036
Ppp1r3c	-0.682	4.183	-2.795	0.012	0.089	-3.036
Eepd1	-0.708	6.377	-2.795	0.012	0.089	-3.036
4932430A15Rik	-0.494	3.451	-2.795	0.012	0.089	-3.037

D1Ertd704e	-0.413	3.020	-2.795	0.012	0.089	-3.037
Gm8069	0.434	10.244	2.795	0.012	0.089	-3.037
Gdf11	-0.428	4.797	-2.794	0.012	0.089	-3.038
Tcte2	-0.424	2.966	-2.794	0.012	0.089	-3.038
D15Ertd154e	-0.377	2.925	-2.794	0.012	0.089	-3.038
Arhgdig	-1.331	9.271	-2.794	0.012	0.089	-3.038
Dynlrb1	-0.499	9.544	-2.794	0.012	0.089	-3.039
Tars2	0.409	7.244	2.793	0.012	0.090	-3.040
Lrp2	-0.420	2.686	-2.793	0.012	0.090	-3.040
Rmnd5a	-0.496	8.682	-2.793	0.012	0.090	-3.041
Arhgef18	-0.424	8.236	-2.792	0.012	0.090	-3.043
Slc35f5	-0.355	9.261	-2.792	0.012	0.090	-3.043
1700027J07Rik	-0.398	3.699	-2.792	0.012	0.090	-3.043
Tlr5	-0.452	4.575	-2.791	0.012	0.090	-3.045
Hsfy2	-0.363	3.012	-2.790	0.012	0.090	-3.046
Ppplr37	0.560	7.730	2.790	0.012	0.090	-3.046
Zfyve9	-0.659	6.124	-2.790	0.012	0.090	-3.046
Unc13a	-0.427	3.425	-2.789	0.012	0.090	-3.049
Fam117a	-1.222	7.443	-2.789	0.012	0.090	-3.049
Top1	0.476	9.790	2.789	0.012	0.090	-3.049
Grhl3	1.068	3.962	2.788	0.012	0.090	-3.050
Reep1	-0.435	3.012	-2.788	0.012	0.090	-3.050
4933436I01Rik	-0.355	2.571	-2.788	0.012	0.090	-3.051
Pdia2	-3.246	9.764	-2.787	0.012	0.090	-3.051
Hs3st3b1	-0.844	5.778	-2.787	0.012	0.090	-3.051
Maff	0.857	6.112	2.787	0.012	0.090	-3.051
2810408A11Rik	-0.492	3.839	-2.787	0.012	0.090	-3.051
Myl3	-0.525	2.811	-2.787	0.012	0.090	-3.051
AI662168	-0.443	3.496	-2.786	0.013	0.090	-3.053
Mvp	0.860	8.420	2.786	0.013	0.090	-3.054
Nek6	0.531	7.994	2.786	0.013	0.090	-3.054
Ccdc63	-0.419	3.830	-2.785	0.013	0.090	-3.057
Tubb1	-0.356	4.285	-2.784	0.013	0.091	-3.058
Parp3	1.322	5.961	2.784	0.013	0.091	-3.058
2010002M09Rik	-0.529	3.702	-2.784	0.013	0.091	-3.058
BC024137	-0.785	4.746	-2.784	0.013	0.091	-3.059
Arhgap23	-0.457	6.008	-2.783	0.013	0.091	-3.059
Suclg1	-0.279	10.497	-2.783	0.013	0.091	-3.059
Nap115	-0.352	3.195	-2.783	0.013	0.091	-3.060
1700028I16Rik	-0.343	3.486	-2.783	0.013	0.091	-3.061
E330021D16Rik	-0.547	2.873	-2.782	0.013	0.091	-3.061
Gm12429	-0.407	4.932	-2.782	0.013	0.091	-3.062
Thbs4	-0.444	3.817	-2.781	0.013	0.091	-3.064
Spata16	-0.358	3.549	-2.780	0.013	0.091	-3.065
LOC102640815	-0.379	4.655	-2.780	0.013	0.091	-3.065
Elov11	-0.409	9.592	-2.779	0.013	0.091	-3.067
Egr1	1.849	9.763	2.779	0.013	0.091	-3.067
4933429H19Rik	-0.419	2.751	-2.779	0.013	0.091	-3.068
Slc6a12	-0.413	3.377	-2.779	0.013	0.091	-3.068
Crlf2	0.921	6.160	2.779	0.013	0.091	-3.068

Hlfnt	-0.463	4.446	-2.778	0.013	0.091	-3.070
4930579K19Rik	-0.325	2.518	-2.777	0.013	0.091	-3.071
Ireb2	0.360	7.524	2.777	0.013	0.091	-3.071
Kcnh3	-0.354	7.067	-2.776	0.013	0.091	-3.072
I11r1	0.481	7.089	2.776	0.013	0.091	-3.073
Fam101a	-1.171	8.104	-2.776	0.013	0.091	-3.073
Ntsr1	-0.417	3.766	-2.776	0.013	0.091	-3.073
Rph3a1	-0.498	4.551	-2.776	0.013	0.091	-3.074
Lat	1.031	6.225	2.775	0.013	0.091	-3.075
Aoc1	-0.365	5.405	-2.775	0.013	0.091	-3.075
Pr17d1	-0.382	2.690	-2.775	0.013	0.091	-3.076
Aass	-1.789	6.437	-2.775	0.013	0.091	-3.076
Zfand5	0.431	9.369	2.775	0.013	0.091	-3.076
2810049E08Rik	-0.323	2.458	-2.774	0.013	0.091	-3.077
Slc25a13	-0.656	7.741	-2.774	0.013	0.091	-3.077
Tuba3a	0.416	6.553	2.774	0.013	0.091	-3.077
Epstil	-0.374	5.425	-2.774	0.013	0.091	-3.078
5330439B14Rik	-0.370	2.785	-2.773	0.013	0.092	-3.079
Slc35e2	0.447	7.527	2.773	0.013	0.092	-3.079
Slc4a10	-0.395	2.602	-2.773	0.013	0.092	-3.080
Fam219aos	-0.343	4.649	-2.773	0.013	0.092	-3.080
Gm10199	-0.424	4.305	-2.772	0.013	0.092	-3.080
4933412E12Rik	-0.313	3.329	-2.772	0.013	0.092	-3.081
C87436	-0.536	5.280	-2.772	0.013	0.092	-3.081
4930444K16Rik	-0.346	2.655	-2.772	0.013	0.092	-3.081
Aim1	0.635	7.231	2.771	0.013	0.092	-3.082
Atp5s1	-0.388	6.919	-2.771	0.013	0.092	-3.083
Rsph4a	-0.283	2.489	-2.770	0.013	0.092	-3.084
1700016D18Rik	-0.420	5.462	-2.770	0.013	0.092	-3.084
1700001K19Rik	-0.409	3.758	-2.770	0.013	0.092	-3.085
Ofd1	0.609	4.830	2.770	0.013	0.092	-3.085
Tro	-0.514	4.009	-2.770	0.013	0.092	-3.085
Wbp1	-0.324	8.466	-2.769	0.013	0.092	-3.086
Gm4070	3.225	7.268	2.769	0.013	0.092	-3.087
Cd3001f	1.108	5.385	2.769	0.013	0.092	-3.087
Mboat7	-0.515	5.864	-2.769	0.013	0.092	-3.087
Klhdc8a	-0.650	5.150	-2.769	0.013	0.092	-3.088
Abca8b	-0.525	3.626	-2.768	0.013	0.092	-3.088
4931406B18Rik	-0.460	3.828	-2.768	0.013	0.092	-3.089
Mzfl	-0.492	4.255	-2.768	0.013	0.092	-3.089
Trim15	2.483	6.334	2.768	0.013	0.092	-3.090
Anapc13	-0.552	9.634	-2.766	0.013	0.092	-3.092
Elavl4	-0.408	3.574	-2.766	0.013	0.092	-3.093
1700009P17Rik	-0.338	5.766	-2.766	0.013	0.092	-3.093
Tmem134	-0.340	6.463	-2.766	0.013	0.092	-3.094
Usp2	-1.300	5.312	-2.765	0.013	0.092	-3.095
Slc12a7	-0.503	9.607	-2.765	0.013	0.092	-3.095
Cnst	-0.446	7.672	-2.765	0.013	0.092	-3.096
D14Ertd426e	-0.444	3.846	-2.765	0.013	0.092	-3.096
Tcirgl	0.736	7.917	2.764	0.013	0.092	-3.096

Rps3a1	0.319	12.978	2.764	0.013	0.092	-3.096
Pias4	0.440	8.384	2.764	0.013	0.092	-3.097
Kif16b	-0.569	5.401	-2.764	0.013	0.092	-3.097
Serp2	-0.432	3.869	-2.764	0.013	0.092	-3.097
5930436019Rik	1.763	5.581	2.763	0.013	0.092	-3.098
Gadd45a	0.694	6.083	2.763	0.013	0.092	-3.098
Ptgdr2	-0.301	4.351	-2.763	0.013	0.092	-3.099
Tcf7l1	-0.463	6.136	-2.763	0.013	0.092	-3.099
Pprc1	0.685	7.543	2.762	0.013	0.092	-3.100
A930037016Rik	-0.349	2.775	-2.762	0.013	0.093	-3.100
Amy1	-1.882	4.349	-2.762	0.013	0.093	-3.101
Myrip	-0.938	4.834	-2.761	0.013	0.093	-3.102
Mlana	-0.521	3.204	-2.760	0.013	0.093	-3.104
Adra1b	-0.456	3.875	-2.760	0.013	0.093	-3.104
4930519H02Rik	-0.393	3.766	-2.760	0.013	0.093	-3.105
Dntt	-0.367	2.624	-2.759	0.013	0.093	-3.105
Farp2	-0.413	4.855	-2.759	0.013	0.093	-3.106
Fam131a	-0.387	3.566	-2.759	0.013	0.093	-3.107
2700068H02Rik	-0.366	2.812	-2.758	0.013	0.093	-3.109
Acrv1	-0.438	3.155	-2.758	0.013	0.093	-3.109
Rblcc1	-0.348	7.209	-2.757	0.013	0.093	-3.110
Stc1	-0.346	3.601	-2.757	0.013	0.093	-3.111
Pr17a1	-0.349	2.182	-2.756	0.013	0.093	-3.112
Mybpc2	-0.422	3.375	-2.756	0.013	0.093	-3.112
Toporsos	-0.513	7.208	-2.755	0.013	0.093	-3.113
Cdkn1c	-1.314	7.080	-2.755	0.013	0.093	-3.114
Asb13	-0.819	6.214	-2.754	0.013	0.093	-3.115
Pdha1	-0.338	10.908	-2.754	0.013	0.093	-3.115
Prkd1	-0.494	4.667	-2.754	0.013	0.094	-3.116
Slc39a5	-0.497	4.432	-2.754	0.013	0.094	-3.116
Cd47	0.608	9.360	2.754	0.013	0.094	-3.117
Mycbp	-0.275	2.339	-2.753	0.013	0.094	-3.118
Mpeg1	2.038	7.795	2.753	0.013	0.094	-3.118
Ankrd52	-0.510	2.913	-2.753	0.013	0.094	-3.119
Fstl5	-0.433	3.940	-2.752	0.013	0.094	-3.119
Pcnx14	-0.426	4.146	-2.752	0.013	0.094	-3.120
Rsrc2	1.383	6.509	2.752	0.013	0.094	-3.120
Gtf2h4	0.729	5.799	2.751	0.013	0.094	-3.122
Ttll1	-0.596	5.192	-2.750	0.014	0.094	-3.123
Rpap1	0.406	6.336	2.750	0.014	0.094	-3.124
LOC102635638	1.813	7.592	2.750	0.014	0.094	-3.124
Cpsf4	0.278	7.304	2.749	0.014	0.094	-3.125
Upf1	0.471	6.622	2.749	0.014	0.094	-3.125
Ccdc43	0.365	6.807	2.749	0.014	0.094	-3.126
1700034I23Rik	-0.357	2.679	-2.749	0.014	0.094	-3.127
Stk36	-0.367	3.692	-2.748	0.014	0.094	-3.127
Mt2	-0.755	11.690	-2.748	0.014	0.094	-3.127
Tpgs2	-0.763	5.441	-2.748	0.014	0.094	-3.128
Scn9a	-0.454	2.591	-2.748	0.014	0.094	-3.128
Tesc	-0.616	9.232	-2.747	0.014	0.094	-3.130

Lsamp	-0.444	3.779	-2.747	0.014	0.094	-3.130
Hiplr	-0.458	7.079	-2.746	0.014	0.094	-3.131
Rgma	-0.493	4.084	-2.746	0.014	0.094	-3.131
Arll4	0.546	9.601	2.746	0.014	0.094	-3.131
Zbtb7a	-0.368	4.976	-2.746	0.014	0.094	-3.131
AI414108	-0.385	5.700	-2.745	0.014	0.094	-3.133
4933407C09Rik	-0.422	4.737	-2.745	0.014	0.094	-3.133
Repin1	-0.315	3.693	-2.745	0.014	0.094	-3.133
Phyhip1	-0.522	4.374	-2.745	0.014	0.094	-3.133
Anpep	-0.891	8.168	-2.744	0.014	0.095	-3.135
Xk	-0.509	4.016	-2.744	0.014	0.095	-3.136
2900056L01Rik	-0.427	5.098	-2.743	0.014	0.095	-3.136
Ifitm6	-0.429	4.301	-2.743	0.014	0.095	-3.137
H2-Q7	4.431	9.177	2.743	0.014	0.095	-3.137
Ntsr2	-0.401	3.476	-2.743	0.014	0.095	-3.137
Clcn2	1.286	7.452	2.743	0.014	0.095	-3.138
Nicn1	-0.886	5.820	-2.742	0.014	0.095	-3.139
Kif6	-0.442	3.544	-2.742	0.014	0.095	-3.139
Ldhc	-0.398	2.664	-2.741	0.014	0.095	-3.140
Rabep1	-0.449	5.771	-2.741	0.014	0.095	-3.141
Ncbp1	0.369	9.309	2.741	0.014	0.095	-3.141
Camsap1	0.391	5.460	2.741	0.014	0.095	-3.141
Arid1a	0.705	8.597	2.741	0.014	0.095	-3.141
Klra20	-0.306	2.351	-2.741	0.014	0.095	-3.141
Krtap5-3	-0.357	3.099	-2.741	0.014	0.095	-3.142
Sntal	-0.879	6.278	-2.741	0.014	0.095	-3.142
Rpgr	0.458	4.357	2.740	0.014	0.095	-3.143
1110019B22Rik	-0.480	4.158	-2.739	0.014	0.095	-3.144
Prfl	-0.400	3.240	-2.739	0.014	0.095	-3.144
Luc712	0.567	8.581	2.739	0.014	0.095	-3.145
2900046B09Rik	-0.483	4.839	-2.739	0.014	0.095	-3.145
4922502N22Rik	-0.354	3.071	-2.739	0.014	0.095	-3.145
Ppip5k2	0.365	7.367	2.738	0.014	0.095	-3.147
Rptoros	-0.448	4.330	-2.738	0.014	0.095	-3.147
Asb17	-0.454	2.572	-2.738	0.014	0.095	-3.147
A230009B12Rik	-0.352	3.166	-2.738	0.014	0.095	-3.148
Aph1b	-0.777	6.141	-2.738	0.014	0.095	-3.148
Sox4	0.697	7.882	2.737	0.014	0.095	-3.148
Tnrc6b	-0.653	8.074	-2.737	0.014	0.095	-3.149
Nupr11	-0.446	3.937	-2.737	0.014	0.095	-3.149
Irf8	2.056	7.475	2.737	0.014	0.095	-3.150
Fh1	-0.478	10.668	-2.737	0.014	0.095	-3.150
4833419G08Rik	-0.465	3.599	-2.736	0.014	0.095	-3.150
Scg3	-0.637	5.701	-2.736	0.014	0.095	-3.150
Cxcl15	2.117	5.997	2.736	0.014	0.095	-3.151
Dner	-0.436	3.642	-2.736	0.014	0.095	-3.151
Gm5930	-0.488	2.342	-2.736	0.014	0.095	-3.151
Pax6os1	-0.364	2.879	-2.736	0.014	0.095	-3.152
Ccdc7	-0.359	2.283	-2.736	0.014	0.095	-3.152
Gpr19	-0.457	5.660	-2.735	0.014	0.095	-3.153

Pramell	-0.532	3.577	-2.735	0.014	0.095	-3.153
Pdpx	-0.445	5.293	-2.735	0.014	0.095	-3.153
Pde6d	-0.625	6.482	-2.734	0.014	0.095	-3.154
Slain1	-0.400	5.023	-2.734	0.014	0.095	-3.155
Sash3	0.782	6.159	2.734	0.014	0.095	-3.155
A630014C17Rik	-0.350	3.168	-2.733	0.014	0.095	-3.156
AI413759	-0.453	5.072	-2.733	0.014	0.095	-3.156
Lama4	-0.592	5.111	-2.733	0.014	0.095	-3.157
Eng	-0.436	6.428	-2.733	0.014	0.095	-3.157
Mett114	0.443	6.249	2.732	0.014	0.095	-3.159
Ap1b1	0.324	8.711	2.732	0.014	0.095	-3.159
Coq10a	-0.454	6.559	-2.732	0.014	0.095	-3.159
D130020L05Rik	-0.444	6.092	-2.732	0.014	0.095	-3.159
4933407L21Rik	-0.396	3.346	-2.731	0.014	0.096	-3.161
C030014I23Rik	-0.445	5.005	-2.730	0.014	0.096	-3.163
H2-Ab1	3.588	8.269	2.729	0.014	0.096	-3.163
Spred1	0.383	7.709	2.729	0.014	0.096	-3.164
Mrpl16	-0.627	8.898	-2.729	0.014	0.096	-3.165
Dhrs11	-0.750	7.791	-2.728	0.014	0.096	-3.165
BC038331	-0.458	5.359	-2.728	0.014	0.096	-3.165
Fmod	-0.411	4.061	-2.728	0.014	0.096	-3.166
Mett12	0.397	5.265	2.728	0.014	0.096	-3.166
Igkv1-117	-0.474	2.665	-2.728	0.014	0.096	-3.166
Tbcd1d2b	0.413	8.653	2.728	0.014	0.096	-3.167
Bbs7	-0.482	2.853	-2.728	0.014	0.096	-3.167
Npy6r	-0.438	3.603	-2.727	0.014	0.096	-3.168
Zim1	-0.388	3.319	-2.727	0.014	0.096	-3.168
Ccdc87	-0.414	3.251	-2.726	0.014	0.096	-3.170
4632404M16Rik	-0.327	2.752	-2.725	0.014	0.096	-3.172
Ice2	0.427	6.671	2.725	0.014	0.096	-3.172
Gats12	-0.368	3.151	-2.724	0.014	0.096	-3.173
Cdkal1	-0.641	5.997	-2.724	0.014	0.096	-3.174
Trpv6	-0.464	5.456	-2.724	0.014	0.096	-3.174
1700023B13Rik	-0.466	5.411	-2.724	0.014	0.096	-3.174
LOC102641624	-0.327	3.242	-2.724	0.014	0.096	-3.174
Nags	-0.389	4.232	-2.724	0.014	0.096	-3.175
Jmjd6	0.569	7.543	2.723	0.014	0.096	-3.175
Ckap4	0.663	8.585	2.723	0.014	0.096	-3.175
4930413E15Rik	-0.338	3.548	-2.723	0.014	0.096	-3.175
Fbxo38	0.403	7.322	2.723	0.014	0.096	-3.176
Rmdn3	0.715	9.158	2.723	0.014	0.096	-3.177
2310014L17Rik	-0.485	5.102	-2.723	0.014	0.096	-3.177
AK076909	-0.442	4.015	-2.722	0.014	0.097	-3.178
Zik1	-0.345	3.054	-2.721	0.014	0.097	-3.179
Ccdc184	-0.402	5.244	-2.721	0.014	0.097	-3.180
Myoz3	-0.430	3.533	-2.721	0.014	0.097	-3.180
Chfr	0.301	8.580	2.721	0.014	0.097	-3.181
Frem2	-1.682	4.920	-2.720	0.014	0.097	-3.181
Sfxn1	0.660	8.919	2.720	0.014	0.097	-3.182
4933411E06Rik	-0.253	2.139	-2.720	0.014	0.097	-3.183

Lzts3	0.362	7.394	2.719	0.014	0.097	-3.183
Gm6756	-0.508	7.223	-2.719	0.014	0.097	-3.183
4833417C18Rik	-0.465	3.383	-2.719	0.014	0.097	-3.183
Chil1	2.692	7.110	2.719	0.014	0.097	-3.184
Tmie	-0.396	4.199	-2.719	0.014	0.097	-3.184
Wdr3	0.589	8.051	2.719	0.014	0.097	-3.184
Syt7	-0.323	4.380	-2.718	0.014	0.097	-3.185
Zmynd15	0.548	4.390	2.718	0.014	0.097	-3.185
1700023F06Rik	-0.387	2.951	-2.718	0.014	0.097	-3.186
Zc3h7a	1.208	6.344	2.718	0.014	0.097	-3.186
Chst3	-0.391	4.642	-2.718	0.014	0.097	-3.186
Mr1	-0.471	5.505	-2.718	0.014	0.097	-3.186
1700003E16Rik	-0.646	6.734	-2.717	0.014	0.097	-3.188
BB168181	-0.361	2.494	-2.716	0.015	0.097	-3.189
Ms4a6b	1.857	6.112	2.716	0.015	0.097	-3.189
Mov1011	-0.504	3.835	-2.715	0.015	0.097	-3.191
Pcx	-0.429	9.123	-2.715	0.015	0.097	-3.192
Anks1	-0.312	7.519	-2.714	0.015	0.097	-3.194
Nsg2	-0.443	4.734	-2.713	0.015	0.098	-3.196
Six1	-0.365	2.611	-2.713	0.015	0.098	-3.196
Nup93	0.522	7.376	2.712	0.015	0.098	-3.197
2810408B13Rik	-0.364	2.481	-2.712	0.015	0.098	-3.197
Echdc2	-0.680	6.266	-2.712	0.015	0.098	-3.197
Lonrf1	-1.166	7.262	-2.712	0.015	0.098	-3.198
Spast	0.377	7.881	2.711	0.015	0.098	-3.198
Dmwd	-0.335	5.641	-2.711	0.015	0.098	-3.200
Rela	0.290	8.939	2.711	0.015	0.098	-3.200
Rgs3	0.519	7.442	2.710	0.015	0.098	-3.201
Necap2	-0.376	7.085	-2.710	0.015	0.098	-3.201
BC064078	0.695	4.059	2.710	0.015	0.098	-3.201
Aox4	-0.454	2.824	-2.709	0.015	0.098	-3.202
Gm15393	-0.657	4.394	-2.708	0.015	0.098	-3.204
Hn1	0.750	9.811	2.708	0.015	0.098	-3.205
1700101I19Rik	-0.524	5.628	-2.707	0.015	0.098	-3.207
Kcnc2	-0.391	2.815	-2.707	0.015	0.098	-3.207
Gin1	-0.464	4.372	-2.707	0.015	0.098	-3.207
6430709C05Rik	-0.409	2.446	-2.706	0.015	0.098	-3.208
Ulk2	-0.641	5.048	-2.706	0.015	0.098	-3.208
Pdia3	0.877	11.299	2.706	0.015	0.098	-3.209
Mettl8	-0.421	5.647	-2.706	0.015	0.098	-3.209
4933404K13Rik	-0.354	3.310	-2.705	0.015	0.099	-3.210
Apoe	2.150	8.134	2.705	0.015	0.099	-3.210
Myo16	-0.740	5.462	-2.705	0.015	0.099	-3.211
B230117015Rik	1.194	4.532	2.705	0.015	0.099	-3.211
Tmem68	0.294	7.611	2.704	0.015	0.099	-3.212
4930524N10Rik	-0.404	2.909	-2.704	0.015	0.099	-3.212
Cyp51	0.686	7.913	2.704	0.015	0.099	-3.213
Foxi1	-0.490	3.788	-2.703	0.015	0.099	-3.213
Slc38a6	-0.488	3.568	-2.703	0.015	0.099	-3.214
9530036011Rik	-0.876	7.403	-2.703	0.015	0.099	-3.215

Gnb2	0.495	10.382	2.703	0.015	0.099	-3.215
Trib1	0.614	7.328	2.702	0.015	0.099	-3.216
Nfkb1l1	0.499	4.685	2.702	0.015	0.099	-3.217
4930483J18Rik	-0.519	4.573	-2.702	0.015	0.099	-3.217
Nqo1	-0.657	10.550	-2.702	0.015	0.099	-3.217
Rcn2	0.633	8.346	2.702	0.015	0.099	-3.217
Dnal4	-0.297	6.430	-2.701	0.015	0.099	-3.217
Ctsr	-0.259	2.699	-2.701	0.015	0.099	-3.217
Rbck1	0.456	8.703	2.701	0.015	0.099	-3.218
Apba2	-0.328	3.830	-2.701	0.015	0.099	-3.219
Nek2	0.589	5.427	2.701	0.015	0.099	-3.219
Pcmt2	-0.473	7.542	-2.701	0.015	0.099	-3.219
Srl	-0.520	4.321	-2.700	0.015	0.099	-3.219
Hint3	-0.487	8.386	-2.700	0.015	0.099	-3.219
5730408K05Rik	0.767	6.744	2.700	0.015	0.099	-3.220
Smg5	0.335	7.482	2.700	0.015	0.099	-3.220
Macrodl	-1.222	7.456	-2.700	0.015	0.099	-3.220
Setmar	-0.515	6.040	-2.700	0.015	0.099	-3.220
Apoalbp	-0.440	9.419	-2.700	0.015	0.099	-3.221
Fam81a	-0.546	4.695	-2.699	0.015	0.099	-3.222
Col10a1	-0.450	3.829	-2.698	0.015	0.099	-3.223
9430024F10Rik	-0.378	2.949	-2.698	0.015	0.099	-3.223
Rchyl	-0.326	8.926	-2.698	0.015	0.099	-3.224
Tom1l2	-0.353	3.498	-2.698	0.015	0.099	-3.224
Zfp688	-0.490	6.428	-2.697	0.015	0.099	-3.225
Csn1s1	-0.385	3.892	-2.697	0.015	0.099	-3.225
Hoxb3	-0.372	5.582	-2.697	0.015	0.099	-3.226
D6Ertd234e	-0.327	4.252	-2.697	0.015	0.099	-3.227
Hivep3	0.975	6.664	2.696	0.015	0.099	-3.227
4930403018Rik	-0.347	2.482	-2.696	0.015	0.099	-3.228
Parg	0.463	7.599	2.696	0.015	0.099	-3.228
Abcb1b	-0.321	3.538	-2.695	0.015	0.099	-3.229
Gm13305	-1.008	8.926	-2.695	0.015	0.099	-3.229
9030622022Rik	-0.661	5.798	-2.694	0.015	0.100	-3.231
Foxc1	-0.637	3.067	-2.694	0.015	0.100	-3.232
2610301B20Rik	-0.354	4.810	-2.693	0.015	0.100	-3.233
6330403L08Rik	-0.472	4.150	-2.693	0.015	0.100	-3.233
Mtmr12	0.542	7.837	2.693	0.015	0.100	-3.233
Dysf	-0.436	4.604	-2.693	0.015	0.100	-3.234
Irx4	-0.420	4.032	-2.692	0.015	0.100	-3.235
C81001	-0.283	3.188	-2.692	0.015	0.100	-3.235
Sugp2	0.675	6.630	2.692	0.015	0.100	-3.235
Kank4	-0.384	5.408	-2.692	0.015	0.100	-3.236
Sox8	-0.461	2.966	-2.692	0.015	0.100	-3.236
Bex4	-1.484	6.348	-2.691	0.015	0.100	-3.237
Fnip2	-0.876	7.415	-2.690	0.015	0.100	-3.239
1700018L02Rik	-0.456	4.971	-2.690	0.015	0.100	-3.239
Ttr	-2.055	8.904	-2.690	0.015	0.100	-3.239
Kera	-0.366	2.642	-2.690	0.015	0.100	-3.239
Ubl4b	-0.345	2.710	-2.690	0.015	0.100	-3.239

2700046G09Rik	-0.450	5.346	-2.690	0.015	0.100	-3.239
Spatc11	-0.356	4.310	-2.690	0.015	0.100	-3.239
Pptc7	0.563	9.403	2.690	0.015	0.100	-3.240
Rhof	-0.558	8.252	-2.689	0.015	0.100	-3.240
Tardbp	0.395	8.976	2.689	0.015	0.100	-3.241
Zfp763	0.542	5.003	2.688	0.015	0.100	-3.243
Fucal	0.451	11.159	2.688	0.015	0.100	-3.244
Rcbtb1	-0.364	4.714	-2.687	0.015	0.100	-3.244
Zfp462	-0.517	4.172	-2.687	0.015	0.100	-3.245
Col17a1	-0.436	2.632	-2.687	0.015	0.100	-3.245
H2-K1	1.248	13.129	2.687	0.015	0.100	-3.245
Sash1	-0.455	3.785	-2.687	0.015	0.100	-3.246
Tceal7	-0.372	2.542	-2.686	0.015	0.100	-3.247
5330426L24Rik	-0.352	4.593	-2.685	0.016	0.101	-3.249
Dcaf11	-0.300	9.139	-2.684	0.016	0.101	-3.250
Tbcd31	-0.475	5.768	-2.684	0.016	0.101	-3.251
Krtap17-1	-0.475	3.467	-2.684	0.016	0.101	-3.251
Ncoa4	-0.530	9.578	-2.684	0.016	0.101	-3.251
Cd209a	-0.526	3.609	-2.684	0.016	0.101	-3.251
AW209491	0.369	7.733	2.683	0.016	0.101	-3.253
Phf20	-0.377	6.337	-2.683	0.016	0.101	-3.253
Exoc314	2.112	6.131	2.682	0.016	0.101	-3.254
Tmem232	-0.302	2.517	-2.682	0.016	0.101	-3.254
Xkr5	-0.410	4.231	-2.682	0.016	0.101	-3.254
Gdap111	-0.484	3.567	-2.682	0.016	0.101	-3.255
Dyrklb	-0.431	6.495	-2.682	0.016	0.101	-3.255
Gabarapl1	-1.188	7.479	-2.681	0.016	0.101	-3.256
4930564C03Rik	-0.336	2.707	-2.681	0.016	0.101	-3.256
Olf315	-0.324	2.926	-2.681	0.016	0.101	-3.256
Rnaset2a	-0.583	4.833	-2.681	0.016	0.101	-3.256
Ifna5	-0.303	3.132	-2.681	0.016	0.101	-3.257
Slmo2	0.389	8.214	2.680	0.016	0.101	-3.258
Celf1	-0.492	4.913	-2.680	0.016	0.101	-3.258
Unc5b	-0.490	8.017	-2.680	0.016	0.101	-3.259
C86695	-0.540	2.982	-2.680	0.016	0.101	-3.259
Pmaip1	0.563	7.725	2.679	0.016	0.101	-3.259
Yipf6	0.664	7.318	2.679	0.016	0.101	-3.260
Becn2	-0.441	3.203	-2.679	0.016	0.101	-3.260
Ids	-0.515	5.000	-2.679	0.016	0.101	-3.261
8430437L04Rik	-0.395	3.196	-2.679	0.016	0.101	-3.261
Ccpglos	-0.804	5.763	-2.678	0.016	0.101	-3.262
Utf1	-0.371	6.197	-2.677	0.016	0.101	-3.264
Cmtm8	-0.570	9.348	-2.677	0.016	0.101	-3.264
Tmem8b	-0.349	4.774	-2.677	0.016	0.101	-3.265
Slc35e4	-0.299	5.881	-2.676	0.016	0.101	-3.265
Ccdc81	-0.351	2.480	-2.676	0.016	0.101	-3.265
AY074887	-0.369	2.887	-2.675	0.016	0.102	-3.268
Zfp1	0.367	6.568	2.675	0.016	0.102	-3.269
1700080G18Rik	-0.422	5.623	-2.675	0.016	0.102	-3.269
Azgp1	-1.728	6.189	-2.674	0.016	0.102	-3.270

9130214F15Rik	-0.535	4.043	-2.674	0.016	0.102	-3.270
Mob1a	0.436	9.175	2.674	0.016	0.102	-3.271
Slc18a1	-0.481	4.518	-2.674	0.016	0.102	-3.271
Spg7	-0.386	7.945	-2.673	0.016	0.102	-3.271
Evi2a-evi2b	0.723	4.066	2.673	0.016	0.102	-3.271
Zfp386	-0.770	5.375	-2.673	0.016	0.102	-3.272
LOC100044627	0.243	12.973	2.672	0.016	0.102	-3.274
Zfp444	-0.542	6.401	-2.671	0.016	0.102	-3.275
Snrpal	0.840	8.252	2.671	0.016	0.102	-3.276
D930048N14Rik	-0.444	2.989	-2.670	0.016	0.102	-3.278
Hmox2	-0.540	8.890	-2.668	0.016	0.103	-3.281
Epc2	0.401	7.591	2.668	0.016	0.103	-3.281
Plin2	1.051	8.563	2.668	0.016	0.103	-3.282
Naa15	0.558	8.303	2.667	0.016	0.103	-3.283
Gm12816	0.271	12.875	2.667	0.016	0.103	-3.284
Hcar1	-0.410	3.735	-2.666	0.016	0.103	-3.285
1700061E18Rik	-0.395	2.633	-2.666	0.016	0.103	-3.285
Clra	1.795	4.549	2.666	0.016	0.103	-3.286
Mbtps2	0.666	4.114	2.665	0.016	0.103	-3.287
AA517858	-0.309	2.202	-2.665	0.016	0.103	-3.287
Fahd1	-0.739	6.372	-2.665	0.016	0.103	-3.288
Sdf2	0.391	9.893	2.665	0.016	0.103	-3.288
Phlpp1	-0.466	7.196	-2.664	0.016	0.103	-3.288
Me2	-0.845	9.070	-2.664	0.016	0.103	-3.288
9430087N24Rik	-0.421	2.544	-2.664	0.016	0.103	-3.289
Cars2	-0.299	6.767	-2.663	0.016	0.103	-3.291
Rab9b	-0.314	2.591	-2.662	0.016	0.103	-3.292
Plxnb3	-0.481	4.389	-2.662	0.016	0.103	-3.292
Snai3	-0.381	4.411	-2.662	0.016	0.103	-3.292
Ly6e	1.615	7.347	2.662	0.016	0.104	-3.293
Gm4132	-0.524	3.376	-2.660	0.016	0.104	-3.296
Nkx2-9	-0.378	6.555	-2.660	0.016	0.104	-3.296
Fbxw2	0.433	6.693	2.660	0.016	0.104	-3.297
4930552P12Rik	-0.364	3.754	-2.660	0.016	0.104	-3.297
Dbr1	0.343	7.515	2.660	0.016	0.104	-3.297
4930544L04Rik	-0.479	3.595	-2.659	0.016	0.104	-3.299
Nlrp12	-0.382	3.095	-2.659	0.016	0.104	-3.299
Car10	-0.361	2.381	-2.658	0.016	0.104	-3.300
D11Ertd326e	-0.440	3.569	-2.658	0.016	0.104	-3.301
1700031F10Rik	-0.418	3.598	-2.657	0.016	0.104	-3.302
Drd4	-0.375	4.360	-2.657	0.016	0.104	-3.302
Nrep	0.965	5.297	2.657	0.016	0.104	-3.302
8030453022Rik	-0.583	3.541	-2.657	0.016	0.104	-3.303
Mcee	-0.800	7.737	-2.657	0.016	0.104	-3.303
Nup2101	-0.413	5.955	-2.656	0.016	0.104	-3.303
Csf2ra	0.816	5.669	2.656	0.016	0.104	-3.304
Iglc1	3.597	6.088	2.656	0.016	0.104	-3.304
Gbe1	-0.607	5.471	-2.656	0.016	0.104	-3.304
Psmb8	3.323	8.952	2.656	0.016	0.104	-3.304
6430553K19Rik	-0.406	2.976	-2.656	0.016	0.104	-3.305

St3gal5	-0.743	7.530	-2.656	0.016	0.104	-3.305
Xkr6	-0.432	4.685	-2.655	0.016	0.104	-3.305
Sema6d	0.327	3.099	2.655	0.016	0.104	-3.305
Smim6	-0.426	10.588	-2.655	0.016	0.104	-3.306
Srgap1	-0.438	3.175	-2.655	0.017	0.104	-3.306
Atp6v0d2	1.901	9.051	2.655	0.017	0.104	-3.307
Dapk1	0.631	6.104	2.655	0.017	0.104	-3.307
Dcst1	-0.462	3.672	-2.655	0.017	0.104	-3.307
Hectd2	0.383	2.527	2.654	0.017	0.104	-3.307
Catsperg2	-0.351	3.237	-2.654	0.017	0.104	-3.308
Msn	0.698	7.637	2.653	0.017	0.104	-3.309
Zdhhc2	-0.812	7.314	-2.653	0.017	0.104	-3.310
Trafd1	1.200	8.227	2.653	0.017	0.104	-3.310
Mesdc1	0.298	7.965	2.652	0.017	0.105	-3.311
Plbd2	-0.427	6.680	-2.652	0.017	0.105	-3.311
Gm5963	0.289	12.572	2.652	0.017	0.105	-3.312
Rnf8	0.378	7.756	2.652	0.017	0.105	-3.312
Svip	-0.507	6.575	-2.652	0.017	0.105	-3.312
H2-Q5	1.913	6.057	2.651	0.017	0.105	-3.313
Upp1	1.398	9.560	2.651	0.017	0.105	-3.314
6230400D17Rik	-0.389	2.759	-2.651	0.017	0.105	-3.314
Snrpf	0.780	8.149	2.650	0.017	0.105	-3.315
2900008C10Rik	-0.486	3.439	-2.650	0.017	0.105	-3.315
Psmb9	2.496	9.464	2.650	0.017	0.105	-3.316
AK076759	-0.291	2.287	-2.650	0.017	0.105	-3.316
Hnrnpa1	0.786	8.265	2.650	0.017	0.105	-3.316
Kmt2a	0.653	7.273	2.649	0.017	0.105	-3.317
Rsph6a	-0.497	4.320	-2.649	0.017	0.105	-3.317
Fzd10	-0.425	2.742	-2.649	0.017	0.105	-3.318
Scap	-0.356	9.765	-2.649	0.017	0.105	-3.318
Cdpf1	-0.427	7.218	-2.649	0.017	0.105	-3.318
Slc20a2	0.486	6.604	2.648	0.017	0.105	-3.319
Fbxw16	-0.585	5.384	-2.648	0.017	0.105	-3.319
Clql1	-0.275	3.196	-2.648	0.017	0.105	-3.319
Baalc	-0.463	2.928	-2.648	0.017	0.105	-3.320
Acox1	-0.378	10.333	-2.647	0.017	0.105	-3.322
P4ha2	-1.471	6.975	-2.647	0.017	0.105	-3.322
Tnks2	0.298	10.386	2.647	0.017	0.105	-3.322
Pnma3	-0.324	2.932	-2.646	0.017	0.105	-3.323
Clec2d	0.616	5.027	2.646	0.017	0.105	-3.323
Hnrnpa0	0.393	9.131	2.646	0.017	0.105	-3.324
Piwil2	0.476	3.629	2.645	0.017	0.105	-3.324
Tapbp	1.109	10.704	2.645	0.017	0.105	-3.325
Ino80d	0.528	7.779	2.644	0.017	0.105	-3.327
Smyd2	0.605	7.876	2.643	0.017	0.106	-3.329
Fam49a	-0.404	4.083	-2.643	0.017	0.106	-3.329
3110067C02Rik	-0.335	2.411	-2.643	0.017	0.106	-3.330
Pisd	-0.275	10.105	-2.642	0.017	0.106	-3.331
Havcr1	-0.521	3.820	-2.641	0.017	0.106	-3.332
Akr1c18	-0.304	4.892	-2.641	0.017	0.106	-3.332

Dnajb7	-0.442	2.612	-2.641	0.017	0.106	-3.332
Kcnk3	-0.863	5.880	-2.641	0.017	0.106	-3.333
D1Erttd228e	-0.404	5.118	-2.641	0.017	0.106	-3.333
Dmrt1	-0.302	3.120	-2.641	0.017	0.106	-3.334
Celsr3	-0.381	4.532	-2.640	0.017	0.106	-3.334
Endov	-0.467	5.222	-2.640	0.017	0.106	-3.335
4930423M02Rik	-0.319	5.015	-2.640	0.017	0.106	-3.336
Nb11	-0.379	5.518	-2.639	0.017	0.106	-3.336
Pnrc1	-0.597	8.990	-2.639	0.017	0.106	-3.336
Strip2	1.557	4.529	2.639	0.017	0.106	-3.336
Airn	-0.440	2.760	-2.639	0.017	0.106	-3.337
Spdyb	-0.478	4.447	-2.639	0.017	0.106	-3.337
Fbxo46	-0.438	5.943	-2.639	0.017	0.106	-3.337
Hsd3b2	-0.468	3.047	-2.639	0.017	0.106	-3.337
Ezh2	0.470	7.789	2.638	0.017	0.106	-3.338
Dnajc2	0.564	8.553	2.638	0.017	0.106	-3.338
4930517019Rik	-0.393	2.635	-2.638	0.017	0.106	-3.339
Srsf1	0.453	7.824	2.638	0.017	0.106	-3.339
Cpal	-0.508	3.722	-2.638	0.017	0.106	-3.339
Eno1	-0.359	12.006	-2.637	0.017	0.106	-3.340
B330016D10Rik	-0.402	4.267	-2.637	0.017	0.106	-3.340
Tet2	1.524	6.615	2.636	0.017	0.106	-3.341
Cldn3	-0.470	4.435	-2.636	0.017	0.106	-3.342
Wdr5	0.327	7.518	2.636	0.017	0.106	-3.342
Ankrd45	-0.405	3.742	-2.636	0.017	0.106	-3.343
Olfra658	-0.432	2.803	-2.636	0.017	0.106	-3.343
Snhg4	0.696	7.005	2.635	0.017	0.106	-3.343
Rnf168	0.388	7.906	2.635	0.017	0.106	-3.344
Gcc2	0.483	10.444	2.635	0.017	0.106	-3.344
Gm15776	-0.315	12.380	-2.635	0.017	0.106	-3.344
D8Erttd107e	-0.304	3.500	-2.635	0.017	0.106	-3.344
Pvr12	0.516	9.113	2.635	0.017	0.106	-3.345
Snail	-0.373	4.240	-2.634	0.017	0.106	-3.345
Lrp5	0.682	6.006	2.634	0.017	0.106	-3.346
Slc25a27	-0.410	3.184	-2.634	0.017	0.106	-3.346
Spata24	-0.308	4.579	-2.634	0.017	0.106	-3.347
5530402H23Rik	0.716	4.197	2.634	0.017	0.106	-3.347
Aqp11	-0.536	5.854	-2.634	0.017	0.106	-3.347
S100a16	0.715	10.637	2.633	0.017	0.107	-3.348
Ifna2	-0.540	3.883	-2.633	0.017	0.107	-3.348
Itgb21	-0.530	4.849	-2.632	0.017	0.107	-3.349
C79741	-0.454	4.438	-2.632	0.017	0.107	-3.350
Smc1b	-0.387	4.250	-2.632	0.017	0.107	-3.350
Pnma11	-0.368	3.875	-2.631	0.017	0.107	-3.351
Syt10	-0.283	3.122	-2.630	0.017	0.107	-3.353
Ost4	-0.354	3.453	-2.630	0.017	0.107	-3.353
Gas5	1.811	6.790	2.630	0.017	0.107	-3.354
Plekhol	0.692	4.830	2.630	0.017	0.107	-3.354
Setdb1	-0.477	4.224	-2.630	0.017	0.107	-3.354
Upk1b	1.930	5.479	2.630	0.017	0.107	-3.354

4933424M12Rik	-0.414	2.883	-2.629	0.017	0.107	-3.356
Tmtc2	0.509	7.272	2.628	0.017	0.107	-3.357
Cngb3	-0.337	2.362	-2.628	0.017	0.107	-3.357
Cyp26a1	-0.459	4.713	-2.628	0.017	0.107	-3.357
Gm3556	0.685	5.262	2.628	0.017	0.107	-3.358
Rbbp7	0.841	11.365	2.628	0.017	0.107	-3.358
Tspyl4	-0.752	6.516	-2.628	0.017	0.107	-3.358
Arhgap26	-0.335	3.243	-2.627	0.017	0.107	-3.359
Gm13441	-0.319	4.576	-2.627	0.017	0.107	-3.359
Krtap4-1	-0.239	2.598	-2.627	0.017	0.107	-3.360
Tmem210	-0.421	5.021	-2.627	0.018	0.107	-3.360
Mrc1	0.802	5.509	2.626	0.018	0.107	-3.361
Mapklip1	-0.411	6.823	-2.626	0.018	0.107	-3.362
AA517650	-0.391	3.846	-2.625	0.018	0.107	-3.362
Gatsl3	-0.568	5.722	-2.625	0.018	0.108	-3.363
Cdc14b	-0.502	7.109	-2.625	0.018	0.108	-3.363
Fcgbp	2.051	11.027	2.625	0.018	0.108	-3.364
Myolc	0.415	8.715	2.624	0.018	0.108	-3.365
Edrf1	-0.394	3.220	-2.624	0.018	0.108	-3.365
5730412P04Rik	-0.509	3.413	-2.624	0.018	0.108	-3.366
Misp	0.773	10.172	2.623	0.018	0.108	-3.366
A330084C13Rik	-0.304	3.199	-2.623	0.018	0.108	-3.366
H2-DMb1	3.323	7.478	2.623	0.018	0.108	-3.367
Mettl24	-0.373	3.313	-2.623	0.018	0.108	-3.368
Pde4a	-0.295	5.180	-2.623	0.018	0.108	-3.368
Exoc6	0.524	6.442	2.622	0.018	0.108	-3.368
Wwp1	-0.310	8.850	-2.622	0.018	0.108	-3.370
Hecw2	-2.924	4.794	-2.621	0.018	0.108	-3.371
Tenm4	-0.700	5.851	-2.621	0.018	0.108	-3.371
Ndufb9	-0.587	11.695	-2.621	0.018	0.108	-3.371
Gdap1	-0.469	3.595	-2.620	0.018	0.108	-3.372
Ptpru	-0.670	5.810	-2.620	0.018	0.108	-3.372
Ubxn11	-0.419	5.210	-2.619	0.018	0.108	-3.374
Stx8	-0.397	6.509	-2.619	0.018	0.108	-3.374
Nrxn1	-0.315	5.936	-2.619	0.018	0.108	-3.375
Supt6	0.284	7.754	2.619	0.018	0.108	-3.375
Nbeal1	-0.925	9.104	-2.619	0.018	0.108	-3.375
Paxbp1	0.743	7.555	2.619	0.018	0.108	-3.375
Ezh1	-0.621	4.114	-2.619	0.018	0.108	-3.375
Lrrc36	-0.525	3.764	-2.618	0.018	0.108	-3.376
Tyr	-0.381	3.337	-2.618	0.018	0.108	-3.376
Gpc5	-0.313	2.505	-2.618	0.018	0.108	-3.376
Acr	-0.469	4.731	-2.618	0.018	0.108	-3.376
Slc25a36	-0.813	5.920	-2.618	0.018	0.108	-3.377
Cog3	0.678	7.874	2.618	0.018	0.108	-3.377
9430019H13Rik	-0.287	2.398	-2.618	0.018	0.108	-3.377
Usp44	-0.370	3.292	-2.617	0.018	0.108	-3.378
Adora1	0.603	6.000	2.617	0.018	0.108	-3.378
Cspg5	-0.481	4.590	-2.617	0.018	0.108	-3.379
Ntng1	-0.371	3.728	-2.617	0.018	0.108	-3.379

Fam60a	0.622	6.166	2.617	0.018	0.108	-3.379
Mrm1	-0.434	5.900	-2.616	0.018	0.108	-3.380
4930478P22Rik	-0.473	4.480	-2.615	0.018	0.109	-3.382
Pal1	0.619	6.735	2.615	0.018	0.109	-3.382
Tgfb1	1.403	6.934	2.615	0.018	0.109	-3.383
Gm2011	-0.342	2.637	-2.614	0.018	0.109	-3.383
D030018L15Rik	-0.458	4.223	-2.614	0.018	0.109	-3.383
Lims1	-1.661	6.862	-2.614	0.018	0.109	-3.384
Macrod2	-0.396	2.940	-2.613	0.018	0.109	-3.385
Snhg3	0.864	5.024	2.613	0.018	0.109	-3.386
Tex12	-0.343	3.037	-2.613	0.018	0.109	-3.387
9330179D12Rik	-0.334	2.514	-2.612	0.018	0.109	-3.387
Scg2	-1.252	4.764	-2.612	0.018	0.109	-3.388
Adora3	-0.356	4.686	-2.612	0.018	0.109	-3.388
Nr1	-0.434	3.999	-2.612	0.018	0.109	-3.389
Rps9	1.610	5.556	2.612	0.018	0.109	-3.389
Asphd1	-0.332	4.352	-2.611	0.018	0.109	-3.390
Cse11	0.433	8.299	2.611	0.018	0.109	-3.390
1700029M03Rik	-0.341	2.470	-2.610	0.018	0.109	-3.391
1110006024Rik	-0.317	4.265	-2.610	0.018	0.109	-3.391
Ecscr	1.079	4.626	2.610	0.018	0.109	-3.391
Dgcr6	-0.560	6.461	-2.610	0.018	0.109	-3.392
H2-Q4	3.197	6.363	2.609	0.018	0.109	-3.393
Lipn	-0.345	2.366	-2.609	0.018	0.109	-3.393
Fetub	1.141	5.579	2.608	0.018	0.110	-3.396
Klc2	-0.451	6.253	-2.607	0.018	0.110	-3.396
Slc1a5	0.891	7.579	2.607	0.018	0.110	-3.397
2310014F06Rik	-0.473	5.014	-2.607	0.018	0.110	-3.397
Sec1414	-1.275	6.214	-2.607	0.018	0.110	-3.397
4930402C16Rik	-0.472	3.716	-2.607	0.018	0.110	-3.398
Slamf6	-0.464	4.472	-2.607	0.018	0.110	-3.398
Sim1	-0.498	4.079	-2.607	0.018	0.110	-3.398
Lrrc46	-0.393	4.983	-2.607	0.018	0.110	-3.398
LOC102638744	-0.266	3.990	-2.607	0.018	0.110	-3.398
4930444E06Rik	-0.381	5.334	-2.606	0.018	0.110	-3.399
4933402E15Rik	-0.323	3.436	-2.606	0.018	0.110	-3.400
Gp1bb	-0.358	3.114	-2.604	0.018	0.110	-3.402
Rap1a	-0.445	10.972	-2.604	0.018	0.110	-3.402
Mlf2	-0.361	9.868	-2.604	0.018	0.110	-3.402
Rpl14	0.418	11.138	2.604	0.018	0.110	-3.403
12-Sep	-0.333	2.639	-2.604	0.018	0.110	-3.403
Aldh111	-0.689	8.476	-2.604	0.018	0.110	-3.404
5830477G23Rik	-0.366	2.968	-2.603	0.018	0.110	-3.404
Gm1673	-0.285	6.089	-2.603	0.018	0.110	-3.405
Pea15a	0.421	7.194	2.603	0.018	0.110	-3.405
Lactb11	-0.390	3.966	-2.603	0.018	0.110	-3.405
Gm2824	-0.364	2.662	-2.602	0.018	0.110	-3.406
Vg111	-0.527	4.346	-2.602	0.018	0.110	-3.406
Cplx4	-0.452	3.267	-2.602	0.018	0.110	-3.408
Keap1	0.425	8.678	2.601	0.018	0.110	-3.408

Dmrtc1a	-0.511	4.163	-2.601	0.018	0.110	-3.408
Dctd	1.053	5.157	2.601	0.018	0.110	-3.408
Sgk3	-0.547	4.582	-2.601	0.018	0.110	-3.409
Cfhr2	-0.351	3.991	-2.600	0.018	0.110	-3.410
Dnhd1	-0.361	4.320	-2.600	0.018	0.110	-3.410
Plekhh2	-0.633	5.200	-2.599	0.019	0.111	-3.412
Abcb9	-0.571	6.248	-2.599	0.019	0.111	-3.412
Dedd2	0.634	7.281	2.599	0.019	0.111	-3.413
Ssbpl	0.416	10.229	2.598	0.019	0.111	-3.415
Cyfipl	0.453	10.205	2.598	0.019	0.111	-3.415
Ddn	-0.276	4.548	-2.598	0.019	0.111	-3.415
2900046D03Rik	-0.451	3.452	-2.597	0.019	0.111	-3.415
Rab9	0.341	9.984	2.597	0.019	0.111	-3.416
Hand2	-0.477	3.078	-2.597	0.019	0.111	-3.417
Ywhah	0.308	9.922	2.596	0.019	0.111	-3.417
Mrps10	0.529	8.625	2.596	0.019	0.111	-3.418
Ccdc34	0.762	6.452	2.596	0.019	0.111	-3.418
Parvb	-0.493	4.299	-2.596	0.019	0.111	-3.418
LOC102633720	-0.405	2.896	-2.596	0.019	0.111	-3.419
Slc22a5	-0.514	4.964	-2.595	0.019	0.111	-3.421
Krt85	-0.292	5.954	-2.594	0.019	0.111	-3.421
Tacc3	0.825	6.310	2.594	0.019	0.111	-3.421
Pde6b	-0.396	3.671	-2.594	0.019	0.111	-3.421
4933423K11Rik	-0.595	3.685	-2.594	0.019	0.111	-3.421
Vmn2r29	-0.319	2.291	-2.594	0.019	0.111	-3.421
Prmt3	0.378	7.883	2.594	0.019	0.111	-3.421
Fads6	-1.114	5.452	-2.594	0.019	0.111	-3.422
Tstd2	0.363	7.454	2.594	0.019	0.111	-3.423
A030007N12Rik	1.159	3.586	2.593	0.019	0.111	-3.423
4930466I24Rik	-0.488	3.370	-2.593	0.019	0.111	-3.424
Dos	-0.513	5.304	-2.592	0.019	0.111	-3.425
Ppp1r12c	-0.324	5.170	-2.592	0.019	0.111	-3.425
Foxh1	-0.606	7.039	-2.592	0.019	0.111	-3.425
Zfp81	-0.312	2.454	-2.592	0.019	0.111	-3.425
Dcdc2a	-0.525	5.159	-2.591	0.019	0.112	-3.427
Cts6	-0.300	2.433	-2.591	0.019	0.112	-3.428
C330022C24Rik	-0.373	4.341	-2.590	0.019	0.112	-3.429
Usp171a	-0.438	2.800	-2.590	0.019	0.112	-3.430
Trappc9	-0.413	4.063	-2.590	0.019	0.112	-3.430
Gpr146	-0.536	4.716	-2.589	0.019	0.112	-3.431
Arsj	-0.372	2.570	-2.589	0.019	0.112	-3.431
Rhd	-0.390	4.436	-2.589	0.019	0.112	-3.432
B3gnt2	-1.218	6.543	-2.589	0.019	0.112	-3.432
Aqp6	-0.315	4.513	-2.589	0.019	0.112	-3.432
Rab8b	0.944	6.849	2.588	0.019	0.112	-3.432
AI854517	-0.340	3.057	-2.588	0.019	0.112	-3.433
Bcl7a	-0.388	6.469	-2.588	0.019	0.112	-3.434
C730036E19Rik	-0.298	2.196	-2.587	0.019	0.112	-3.434
Ehmt1	0.331	8.858	2.587	0.019	0.112	-3.435
1700084C06Rik	-0.276	2.791	-2.587	0.019	0.112	-3.435

Nceh1	-0.590	5.794	-2.586	0.019	0.112	-3.436
Arhgap24	-1.235	7.112	-2.586	0.019	0.112	-3.437
4631402F24Rik	-0.414	3.594	-2.586	0.019	0.112	-3.437
Chic2	0.605	9.198	2.586	0.019	0.112	-3.438
4732460I02Rik	-0.408	3.957	-2.585	0.019	0.112	-3.438
1700113P08Rik	-0.273	2.538	-2.585	0.019	0.112	-3.440
LOC102638940	-0.401	3.968	-2.585	0.019	0.112	-3.440
Zdhhc1	-0.421	5.163	-2.585	0.019	0.112	-3.440
I120	-0.452	4.752	-2.584	0.019	0.112	-3.440
Acss2	0.509	8.012	2.584	0.019	0.112	-3.440
Paics	-0.459	10.125	-2.584	0.019	0.112	-3.440
AW495222	-0.515	3.732	-2.584	0.019	0.112	-3.441
Cyp7a1	-0.325	2.996	-2.584	0.019	0.112	-3.441
Eif4a1	0.701	10.767	2.584	0.019	0.113	-3.441
Ganab	0.386	8.681	2.583	0.019	0.113	-3.442
Fbxo34	0.483	8.193	2.583	0.019	0.113	-3.443
2310045N14Rik	-0.337	2.620	-2.582	0.019	0.113	-3.444
Pla2g7	1.502	4.760	2.582	0.019	0.113	-3.444
Skiv21	0.622	7.204	2.582	0.019	0.113	-3.444
Ubtf	0.312	8.183	2.582	0.019	0.113	-3.444
C78704	-0.518	2.948	-2.582	0.019	0.113	-3.444
Snx15	-0.355	7.940	-2.582	0.019	0.113	-3.444
1110050P16Rik	-0.452	3.675	-2.582	0.019	0.113	-3.445
Cbfb	0.452	9.582	2.581	0.019	0.113	-3.446
Man2a1	-0.338	9.799	-2.581	0.019	0.113	-3.447
Car9	-0.833	10.430	-2.581	0.019	0.113	-3.447
Gm17580	-0.369	3.833	-2.581	0.019	0.113	-3.447
Fgf9	-0.386	4.012	-2.581	0.019	0.113	-3.447
Tex15	-1.119	4.505	-2.581	0.019	0.113	-3.447
A4galt	-0.390	3.573	-2.580	0.019	0.113	-3.448
Lim2	-0.345	5.198	-2.580	0.019	0.113	-3.448
Crybb1	-0.493	4.987	-2.580	0.019	0.113	-3.449
Tas2r105	-0.276	2.514	-2.580	0.019	0.113	-3.449
Stxbp2	0.322	8.000	2.580	0.019	0.113	-3.449
LOC102638722	-0.271	2.678	-2.580	0.019	0.113	-3.449
Art3	-0.476	2.701	-2.579	0.019	0.113	-3.450
Aldh3a1	-1.022	10.403	-2.579	0.019	0.113	-3.450
Scfd2	-0.444	5.421	-2.579	0.019	0.113	-3.450
Evala	1.471	5.087	2.579	0.019	0.113	-3.451
Mtx2	-0.496	8.729	-2.578	0.019	0.113	-3.451
4933406K04Rik	-0.462	3.789	-2.578	0.019	0.113	-3.453
Arhgef17	-0.398	4.133	-2.577	0.019	0.113	-3.453
Ano9	1.273	6.839	2.576	0.019	0.113	-3.455
Synj2bp	-0.293	7.828	-2.576	0.019	0.113	-3.455
Fam210b	-0.522	7.483	-2.576	0.019	0.113	-3.456
Nr1i2	0.630	5.480	2.576	0.019	0.113	-3.457
Sntb2	-0.480	4.955	-2.576	0.019	0.113	-3.457
Bcl6	0.949	6.050	2.575	0.019	0.114	-3.458
Gm20765	-0.482	3.840	-2.575	0.019	0.114	-3.458
2900076A13Rik	-0.362	3.442	-2.575	0.020	0.114	-3.459

Nrp2	0.478	6.731	2.574	0.020	0.114	-3.459
E330037M01Rik	-0.512	2.857	-2.574	0.020	0.114	-3.459
Kif13b	-0.375	3.109	-2.574	0.020	0.114	-3.460
Defa21	-0.338	2.919	-2.574	0.020	0.114	-3.460
Bche	-0.424	4.515	-2.574	0.020	0.114	-3.460
Elfn1	-0.527	3.421	-2.574	0.020	0.114	-3.460
Dpp9	0.384	7.765	2.573	0.020	0.114	-3.461
1110051M20Rik	-0.401	6.657	-2.573	0.020	0.114	-3.462
Baat	-0.378	4.863	-2.572	0.020	0.114	-3.462
Pde4dip	-0.583	4.548	-2.571	0.020	0.114	-3.465
AA675344	-0.334	2.940	-2.571	0.020	0.114	-3.465
Cd36	-2.803	6.404	-2.571	0.020	0.114	-3.465
4930507D10Rik	-0.525	3.692	-2.570	0.020	0.114	-3.466
Cryba1	-0.455	3.183	-2.570	0.020	0.114	-3.467
Lcmt1	-0.516	7.325	-2.570	0.020	0.114	-3.467
Fech	-0.595	6.859	-2.570	0.020	0.114	-3.467
Ddx4	-0.349	2.372	-2.569	0.020	0.114	-3.468
Rasgrp3	-2.344	6.030	-2.569	0.020	0.114	-3.469
AA536887	-0.429	4.912	-2.569	0.020	0.114	-3.470
Wdr77	0.577	8.708	2.568	0.020	0.115	-3.471
Cdx1	-0.454	3.538	-2.568	0.020	0.115	-3.472
Uroc1	-0.668	6.902	-2.567	0.020	0.115	-3.472
2410012E07Rik	-0.394	4.019	-2.567	0.020	0.115	-3.472
Stk11	-0.343	8.142	-2.567	0.020	0.115	-3.473
9330199F22Rik	-0.951	4.703	-2.567	0.020	0.115	-3.473
Gdel	-0.477	10.742	-2.567	0.020	0.115	-3.473
Col13a1	-0.401	3.707	-2.567	0.020	0.115	-3.473
Act17b	-0.541	5.496	-2.566	0.020	0.115	-3.474
Traf3	0.436	7.926	2.566	0.020	0.115	-3.475
Crot	-0.522	4.975	-2.566	0.020	0.115	-3.475
Lrp3	-0.476	4.981	-2.566	0.020	0.115	-3.475
Cuedc2	-0.491	5.179	-2.565	0.020	0.115	-3.476
Gm7694	-0.611	4.933	-2.565	0.020	0.115	-3.477
Gpn3	-0.357	7.346	-2.565	0.020	0.115	-3.477
Srebf1	0.318	9.122	2.564	0.020	0.115	-3.478
Gkn3	1.766	12.206	2.564	0.020	0.115	-3.478
Gpr137b-ps	-0.415	5.840	-2.563	0.020	0.115	-3.480
Igf2	-0.432	3.439	-2.563	0.020	0.115	-3.480
Inpp5j	-0.293	9.046	-2.563	0.020	0.115	-3.480
Gmpr	-1.747	6.082	-2.563	0.020	0.115	-3.481
Slcola5	-0.368	3.058	-2.561	0.020	0.115	-3.483
Ext1	0.486	6.913	2.561	0.020	0.115	-3.483
Adrb3	-0.371	3.707	-2.561	0.020	0.115	-3.484
Cts1	0.745	10.211	2.561	0.020	0.115	-3.484
Fbxl20	-0.436	7.099	-2.561	0.020	0.115	-3.484
Kans111	0.477	3.522	2.561	0.020	0.115	-3.484
Srrm4	-0.454	3.878	-2.561	0.020	0.115	-3.485
Cadm3	-0.315	4.815	-2.560	0.020	0.116	-3.486
BC025920	-0.334	3.150	-2.560	0.020	0.116	-3.487
Serpib6e	0.520	6.599	2.560	0.020	0.116	-3.487

Ppp1r26	-0.561	5.194	-2.560	0.020	0.116	-3.487
Pex5	-0.553	5.677	-2.559	0.020	0.116	-3.487
D730045A05Rik	-0.323	4.226	-2.559	0.020	0.116	-3.487
Chmp4b	0.585	9.652	2.559	0.020	0.116	-3.487
Tmem174	-0.317	2.955	-2.559	0.020	0.116	-3.487
Gm12606	-0.482	2.967	-2.559	0.020	0.116	-3.487
Lhx1	-0.410	3.010	-2.559	0.020	0.116	-3.488
D17892	-0.346	4.006	-2.559	0.020	0.116	-3.488
4933424C09Rik	-0.268	2.775	-2.559	0.020	0.116	-3.488
Acot1	0.593	5.098	2.558	0.020	0.116	-3.489
5730457N03Rik	-0.292	2.857	-2.558	0.020	0.116	-3.489
Doc2a	-0.535	3.955	-2.558	0.020	0.116	-3.489
Smarcc1	0.383	8.830	2.558	0.020	0.116	-3.490
Tshr	-0.491	2.818	-2.558	0.020	0.116	-3.490
Add2	-0.390	3.944	-2.557	0.020	0.116	-3.491
Acpl	-0.461	8.568	-2.557	0.020	0.116	-3.492
AW046200	-0.488	4.030	-2.556	0.020	0.116	-3.492
Meg3	-0.425	5.600	-2.556	0.020	0.116	-3.493
Tectb	-0.453	3.726	-2.555	0.020	0.116	-3.494
8430432A02Rik	-0.387	2.753	-2.555	0.020	0.116	-3.495
AI467606	1.007	7.375	2.555	0.020	0.116	-3.495
Mrgprb1	-0.317	2.349	-2.554	0.020	0.116	-3.497
D5Ertd798e	1.567	6.845	2.554	0.020	0.116	-3.497
G6pd2	-0.288	2.453	-2.553	0.020	0.116	-3.499
Gfra2	-0.457	4.451	-2.553	0.020	0.116	-3.499
Myct1	-0.328	2.520	-2.552	0.020	0.117	-3.500
Zfp292	0.639	5.206	2.552	0.020	0.117	-3.500
Cldn23	1.678	6.063	2.552	0.020	0.117	-3.501
Zfp810	-0.589	5.853	-2.551	0.020	0.117	-3.503
C230011H18Rik	-0.417	3.184	-2.551	0.020	0.117	-3.503
Ndufs5	-0.552	9.938	-2.551	0.020	0.117	-3.503
Carm1	0.369	8.299	2.550	0.021	0.117	-3.505
Fkbp5	-1.167	7.266	-2.550	0.021	0.117	-3.505
Tuba3b	-0.533	4.451	-2.549	0.021	0.117	-3.506
Wnt6	-0.372	5.072	-2.549	0.021	0.117	-3.506
Aldh7a1	-0.376	2.946	-2.549	0.021	0.117	-3.507
Trim43a	-0.405	4.028	-2.549	0.021	0.117	-3.507
Aen	0.489	7.156	2.549	0.021	0.117	-3.507
Sult1c2	-0.416	11.726	-2.548	0.021	0.117	-3.509
4930564B18Rik	-0.354	3.896	-2.548	0.021	0.117	-3.509
A930015G24Rik	-0.401	2.892	-2.547	0.021	0.117	-3.509
2810001G20Rik	-0.459	5.622	-2.547	0.021	0.117	-3.510
LOC102636808	-0.294	2.646	-2.547	0.021	0.117	-3.510
LOC100862433	0.280	12.642	2.547	0.021	0.117	-3.511
Acot8	0.462	8.219	2.546	0.021	0.117	-3.512
Lect1	-0.370	2.997	-2.546	0.021	0.117	-3.512
Trem2	-0.447	3.787	-2.546	0.021	0.118	-3.513
Prtn3	-0.346	5.222	-2.545	0.021	0.118	-3.513
Akr1c1	-0.370	3.419	-2.545	0.021	0.118	-3.514
Edem1	-0.401	9.125	-2.545	0.021	0.118	-3.514

Gjc3	-0.474	3.280	-2.545	0.021	0.118	-3.515
Slc16a1	0.573	10.041	2.545	0.021	0.118	-3.515
Myc	0.897	7.677	2.543	0.021	0.118	-3.517
Adam11	-0.297	3.208	-2.543	0.021	0.118	-3.517
Bhlha15	-0.494	4.339	-2.543	0.021	0.118	-3.517
Iqcf3	-0.334	3.621	-2.543	0.021	0.118	-3.517
Dtx3l	1.176	8.364	2.543	0.021	0.118	-3.518
Nmnat3	-0.432	5.075	-2.543	0.021	0.118	-3.518
4833424015Rik	-0.384	3.513	-2.543	0.021	0.118	-3.518
Amph	-0.304	2.606	-2.543	0.021	0.118	-3.518
Cand2	-0.574	5.118	-2.543	0.021	0.118	-3.518
Ndufs8	-0.536	11.439	-2.543	0.021	0.118	-3.518
Shc2	-0.345	3.966	-2.542	0.021	0.118	-3.519
Trmt13	0.394	4.751	2.541	0.021	0.118	-3.521
Prex1	0.390	6.266	2.541	0.021	0.118	-3.521
Actn1	1.296	6.332	2.541	0.021	0.118	-3.521
Lbx1	-0.414	6.394	-2.541	0.021	0.118	-3.522
1700123L14Rik	-0.376	2.941	-2.541	0.021	0.118	-3.522
Upk3b1	-0.489	4.643	-2.540	0.021	0.118	-3.522
Tmem180	-0.326	6.074	-2.540	0.021	0.118	-3.523
Zbtb18	0.427	8.776	2.540	0.021	0.118	-3.523
Zfp518b	-0.437	3.647	-2.540	0.021	0.118	-3.524
4930423K06Rik	-0.624	4.048	-2.539	0.021	0.118	-3.525
Cam1	0.306	7.762	2.539	0.021	0.118	-3.525
Tmem238	-0.411	9.707	-2.539	0.021	0.118	-3.525
9430006E15Rik	-0.288	3.699	-2.539	0.021	0.118	-3.526
Rnase6	0.426	4.489	2.539	0.021	0.118	-3.526
Tgfbrap1	-0.328	7.336	-2.539	0.021	0.118	-3.526
Krt26	-0.442	3.170	-2.538	0.021	0.118	-3.528
Smchd1	0.431	7.978	2.537	0.021	0.118	-3.528
Ak1	-1.992	6.856	-2.537	0.021	0.118	-3.528
1700028E10Rik	-0.422	4.309	-2.537	0.021	0.118	-3.529
Gm10309	-0.348	3.471	-2.537	0.021	0.118	-3.529
Jarid2	0.332	6.887	2.537	0.021	0.118	-3.529
8-Mar	-0.369	7.780	-2.537	0.021	0.118	-3.530
Nhlrc3	-0.347	6.982	-2.536	0.021	0.118	-3.530
Adprh11	-0.384	4.329	-2.536	0.021	0.118	-3.530
Phlda1	1.004	10.377	2.536	0.021	0.118	-3.530
Ras12-9	-0.391	2.873	-2.536	0.021	0.118	-3.530
Car7	-0.339	4.589	-2.536	0.021	0.118	-3.531
Celf4	0.893	5.531	2.536	0.021	0.118	-3.531
Atox1	-0.403	9.521	-2.536	0.021	0.118	-3.532
Emc4	-0.391	9.193	-2.536	0.021	0.118	-3.532
C81600	-0.484	3.667	-2.536	0.021	0.118	-3.532
Diras1	-0.365	3.903	-2.535	0.021	0.118	-3.532
Fam71e1	-0.438	3.584	-2.535	0.021	0.118	-3.532
Eroll	0.457	9.905	2.535	0.021	0.118	-3.532
Gm11397	-0.334	3.298	-2.535	0.021	0.118	-3.533
Lgr6	-0.425	5.292	-2.535	0.021	0.118	-3.533
4930456G14Rik	-0.368	4.044	-2.535	0.021	0.118	-3.534

LOC102634103	-0.335	3.906	-2.534	0.021	0.118	-3.534
Slc39a3	-0.373	6.890	-2.534	0.021	0.118	-3.534
Gm9796	-0.431	4.339	-2.534	0.021	0.118	-3.534
Gm21571	0.246	12.225	2.534	0.021	0.118	-3.534
Gp49a	1.751	6.663	2.534	0.021	0.118	-3.534
Ablim3	-0.425	3.229	-2.534	0.021	0.118	-3.534
Slc35g1	-0.594	10.230	-2.534	0.021	0.119	-3.535
Celf5	-0.364	2.822	-2.534	0.021	0.119	-3.535
Zfp397	-0.351	5.394	-2.534	0.021	0.119	-3.535
Itpkc	0.502	6.995	2.534	0.021	0.119	-3.535
D7Ert715e	0.808	3.264	2.534	0.021	0.119	-3.535
Cdk1	0.616	8.508	2.532	0.021	0.119	-3.537
2010107G12Rik	0.681	5.466	2.532	0.021	0.119	-3.539
Tmem184a	-0.551	9.054	-2.531	0.021	0.119	-3.539
Kalrn	0.410	7.592	2.531	0.021	0.119	-3.540
Nop2	0.549	8.061	2.531	0.021	0.119	-3.541
Cwc22	0.416	4.970	2.530	0.021	0.119	-3.541
Gm10094	-0.359	8.235	-2.530	0.021	0.119	-3.542
Gm12042	-0.419	3.682	-2.530	0.021	0.119	-3.542
Olfr672	-0.382	3.781	-2.529	0.021	0.119	-3.543
Soga1	-0.440	5.961	-2.529	0.021	0.119	-3.544
Cep164	-0.407	4.312	-2.529	0.021	0.119	-3.544
Stac	-0.309	3.149	-2.529	0.021	0.119	-3.545
5430434G16Rik	1.582	5.589	2.528	0.021	0.120	-3.547
4930563E22Rik	-0.497	6.231	-2.527	0.022	0.120	-3.547
4930570E03Rik	-0.339	2.976	-2.527	0.022	0.120	-3.548
Tmod4	-0.321	3.408	-2.527	0.022	0.120	-3.548
1700008J07Rik	-0.489	5.088	-2.527	0.022	0.120	-3.548
9-Mar	-0.367	3.917	-2.527	0.022	0.120	-3.549
Atxn21	0.600	7.479	2.526	0.022	0.120	-3.549
Rit2	-0.377	2.689	-2.526	0.022	0.120	-3.549
Slfn11	-0.438	4.800	-2.526	0.022	0.120	-3.550
Hpse	0.635	7.346	2.526	0.022	0.120	-3.550
Capn11	-0.357	5.518	-2.526	0.022	0.120	-3.550
Kifc1	0.657	5.036	2.525	0.022	0.120	-3.551
Klhdc2	-0.747	6.444	-2.525	0.022	0.120	-3.551
4930558K02Rik	-0.320	4.558	-2.525	0.022	0.120	-3.551
Polr1b	0.539	6.985	2.524	0.022	0.120	-3.553
Eif2a	0.628	6.697	2.524	0.022	0.120	-3.554
Col24a1	-0.293	2.203	-2.524	0.022	0.120	-3.554
Twist2	-0.396	4.024	-2.524	0.022	0.120	-3.554
Rnf4	0.330	8.564	2.523	0.022	0.120	-3.555
Zfp229	-0.651	4.495	-2.522	0.022	0.120	-3.557
Zfp827	-0.537	6.731	-2.522	0.022	0.120	-3.557
Sgsm3	-0.340	7.950	-2.522	0.022	0.120	-3.558
Tomm22	0.313	9.317	2.521	0.022	0.121	-3.559
Ap3s2	0.505	6.284	2.521	0.022	0.121	-3.559
Bok	0.381	8.659	2.520	0.022	0.121	-3.561
Psme3	0.741	7.339	2.520	0.022	0.121	-3.561
Slc4a9	-0.435	3.432	-2.519	0.022	0.121	-3.563

Cdy12	-0.313	3.274	-2.518	0.022	0.121	-3.564
Rff1	-0.346	4.365	-2.518	0.022	0.121	-3.564
2410021H03Rik	-0.320	2.925	-2.518	0.022	0.121	-3.565
1810021M19Rik	-0.518	4.667	-2.518	0.022	0.121	-3.565
Psm3	1.420	5.479	2.518	0.022	0.121	-3.565
Tpd5212	0.334	7.956	2.517	0.022	0.121	-3.565
Bicc1	0.419	6.618	2.517	0.022	0.121	-3.566
Pibf1	-0.338	2.637	-2.517	0.022	0.121	-3.566
Cyp4f13	-0.485	6.021	-2.517	0.022	0.121	-3.566
Gga1	0.415	7.910	2.517	0.022	0.121	-3.567
D730002M21Rik	-0.440	3.896	-2.517	0.022	0.121	-3.567
Ppmln	-0.350	4.591	-2.517	0.022	0.121	-3.567
Wfdc17	0.752	6.086	2.517	0.022	0.121	-3.567
Man2a2	0.402	5.842	2.516	0.022	0.121	-3.568
Fam204a	-0.408	3.004	-2.516	0.022	0.121	-3.569
Arnt	0.302	7.061	2.515	0.022	0.121	-3.569
Gm4665	-0.340	2.811	-2.515	0.022	0.121	-3.570
Cfh	1.276	4.623	2.514	0.022	0.122	-3.572
Fndc5	-0.511	4.179	-2.514	0.022	0.122	-3.572
Cep83os	-0.449	5.327	-2.514	0.022	0.122	-3.573
Icam1	1.894	6.104	2.513	0.022	0.122	-3.573
Rora	-0.575	5.486	-2.513	0.022	0.122	-3.573
Txnrd2	-0.637	5.897	-2.513	0.022	0.122	-3.573
Cdon	-0.314	3.779	-2.513	0.022	0.122	-3.574
Plcd4	-0.310	3.453	-2.512	0.022	0.122	-3.575
D12Ert247e	-0.313	2.479	-2.512	0.022	0.122	-3.576
Mark3	0.368	7.969	2.512	0.022	0.122	-3.576
Matn3	-0.325	3.424	-2.512	0.022	0.122	-3.576
Micalc1	-0.608	5.789	-2.511	0.022	0.122	-3.577
Atp6v0e2	-0.499	3.987	-2.511	0.022	0.122	-3.577
Ptges	-0.476	4.355	-2.511	0.022	0.122	-3.577
Rfwd3	0.390	8.054	2.509	0.022	0.122	-3.581
Piga	0.666	7.094	2.509	0.022	0.122	-3.582
Safb2	0.720	6.703	2.509	0.022	0.123	-3.582
Dand5	-0.451	4.942	-2.508	0.022	0.123	-3.584
Aloxe3	-0.412	5.987	-2.508	0.022	0.123	-3.584
Egr3	-0.359	6.070	-2.507	0.022	0.123	-3.585
4930445B03Rik	-0.379	3.506	-2.507	0.022	0.123	-3.586
Cdk2	0.535	7.464	2.506	0.022	0.123	-3.586
Fam196a	-0.436	5.852	-2.506	0.022	0.123	-3.586
Tpmt	-0.343	5.158	-2.506	0.022	0.123	-3.587
C79657	-0.282	3.499	-2.506	0.022	0.123	-3.587
Prkab2	-0.416	6.436	-2.506	0.022	0.123	-3.587
Fzd7	-0.380	4.937	-2.506	0.022	0.123	-3.587
Celsr2	-0.419	5.736	-2.505	0.022	0.123	-3.588
AW049021	-0.327	3.794	-2.505	0.023	0.123	-3.588
Trak2	-0.448	4.286	-2.505	0.023	0.123	-3.588
Slc38a7	-0.352	6.547	-2.505	0.023	0.123	-3.588
9530018H14Rik	-0.443	3.914	-2.505	0.023	0.123	-3.589
Hspa8	0.572	10.860	2.504	0.023	0.123	-3.590

Vpreb3	-0.425	5.349	-2.504	0.023	0.123	-3.590
Kcne2	-2.347	8.444	-2.503	0.023	0.123	-3.592
Ltbp4	-0.489	6.337	-2.503	0.023	0.123	-3.592
1700064N11Rik	-0.374	4.077	-2.503	0.023	0.123	-3.593
Bbs2	-0.357	5.092	-2.502	0.023	0.123	-3.593
Tspan8	0.542	9.808	2.502	0.023	0.124	-3.595
Bcl11b	1.103	5.865	2.502	0.023	0.124	-3.595
Hs3st2	-0.443	3.180	-2.501	0.023	0.124	-3.596
9530067L11Rik	-0.482	3.098	-2.500	0.023	0.124	-3.597
AI849538	-0.413	2.576	-2.500	0.023	0.124	-3.597
Dcplb	-0.349	5.716	-2.500	0.023	0.124	-3.597
Rgp1	0.446	8.368	2.499	0.023	0.124	-3.599
Fkbp10	-0.572	4.792	-2.499	0.023	0.124	-3.600
1700013G24Rik	-0.342	3.349	-2.499	0.023	0.124	-3.600
Ctdnep1	0.471	8.395	2.499	0.023	0.124	-3.601
Tmsb10	0.480	10.573	2.498	0.023	0.124	-3.602
Prdx4	0.822	7.749	2.498	0.023	0.124	-3.603
Cd3eap	0.362	5.312	2.497	0.023	0.124	-3.603
Tmem177	-0.479	4.919	-2.497	0.023	0.124	-3.603
Gm16499	-0.366	3.830	-2.497	0.023	0.124	-3.604
P2rx4	0.474	9.360	2.497	0.023	0.124	-3.604
Gm10627	-0.444	5.748	-2.497	0.023	0.124	-3.604
Gipr	-0.313	3.473	-2.496	0.023	0.124	-3.605
4921534H16Rik	-0.349	2.959	-2.496	0.023	0.124	-3.606
Zfp112	-0.433	5.375	-2.495	0.023	0.125	-3.606
Pcsk1n	-0.525	5.164	-2.495	0.023	0.125	-3.607
Gpr64	-1.055	6.400	-2.495	0.023	0.125	-3.608
Susd4	-0.492	3.422	-2.495	0.023	0.125	-3.608
Zfp551	-0.515	4.514	-2.495	0.023	0.125	-3.608
Gas212	-0.389	3.676	-2.494	0.023	0.125	-3.608
Plod3	0.309	8.230	2.494	0.023	0.125	-3.609
Bzw1	0.349	9.199	2.494	0.023	0.125	-3.610
LOC552882	0.462	3.253	2.494	0.023	0.125	-3.610
4931428A05Rik	-0.416	4.472	-2.493	0.023	0.125	-3.610
Ifitm10	-0.526	4.435	-2.493	0.023	0.125	-3.611
Dnajb3	-0.432	3.309	-2.493	0.023	0.125	-3.611
Nek3	-0.384	6.167	-2.493	0.023	0.125	-3.611
Ptpn5	-0.456	3.305	-2.493	0.023	0.125	-3.612
6-Sep	-0.802	4.049	-2.492	0.023	0.125	-3.613
Ooep	-0.309	6.772	-2.492	0.023	0.125	-3.613
Ccdc166	-0.266	4.949	-2.492	0.023	0.125	-3.613
Tusc3	-0.532	7.751	-2.491	0.023	0.125	-3.615
C80165	-0.311	2.594	-2.491	0.023	0.125	-3.615
Gsx2	-0.416	3.921	-2.490	0.023	0.125	-3.616
Gm6793	0.281	10.473	2.490	0.023	0.125	-3.617
Plcb1	-0.383	4.215	-2.489	0.023	0.125	-3.618
Plagl2	0.870	6.612	2.489	0.023	0.125	-3.618
8430434A19Rik	-0.328	2.357	-2.489	0.023	0.126	-3.619
Msantd3	-0.336	3.008	-2.489	0.023	0.126	-3.619
Hist3h2a	-0.353	6.726	-2.488	0.023	0.126	-3.620

Unc5c	-0.363	2.667	-2.488	0.023	0.126	-3.621
Irak1	0.406	8.495	2.488	0.023	0.126	-3.621
Nmt2	-0.491	4.866	-2.487	0.023	0.126	-3.621
Itga4	-0.302	4.875	-2.487	0.023	0.126	-3.622
H2-Q6	3.441	9.594	2.487	0.023	0.126	-3.623
Atp5g1	-0.559	10.859	-2.487	0.023	0.126	-3.623
LOC102632764	-0.422	3.138	-2.486	0.023	0.126	-3.623
Abcf1	0.292	8.951	2.486	0.023	0.126	-3.623
Ccl8	1.545	6.484	2.486	0.023	0.126	-3.623
Cd46	-0.463	5.147	-2.486	0.023	0.126	-3.624
Pianp	-0.461	5.015	-2.486	0.023	0.126	-3.624
2900069G24Rik	-0.310	2.996	-2.486	0.023	0.126	-3.624
Uqcrb	-0.297	10.920	-2.486	0.023	0.126	-3.625
AU021880	-0.413	2.499	-2.485	0.023	0.126	-3.625
Gm13999	-0.436	3.187	-2.485	0.023	0.126	-3.625
Depdc1b	0.654	5.316	2.485	0.023	0.126	-3.626
Tmem126b	-0.357	4.696	-2.485	0.023	0.126	-3.626
Dpysl5	-0.302	3.060	-2.484	0.023	0.126	-3.627
1700111N16Rik	-0.363	2.725	-2.484	0.023	0.126	-3.627
Dexi	0.402	7.042	2.484	0.024	0.126	-3.628
Tfcp2	0.305	5.549	2.483	0.024	0.126	-3.630
Hspb6	-0.673	5.456	-2.483	0.024	0.126	-3.630
Slc35a5	-0.696	5.168	-2.482	0.024	0.126	-3.631
Mphosph8	-0.403	6.393	-2.482	0.024	0.126	-3.631
Tmem97	-0.734	7.649	-2.482	0.024	0.126	-3.631
AW555355	1.004	7.056	2.482	0.024	0.126	-3.632
C920009B18Rik	-0.443	3.503	-2.482	0.024	0.126	-3.632
1700018C11Rik	-0.286	3.506	-2.481	0.024	0.127	-3.633
A430033K04Rik	-0.475	4.321	-2.481	0.024	0.127	-3.634
1810019N24Rik	-0.336	2.603	-2.481	0.024	0.127	-3.634
Tc11b1	-0.370	5.626	-2.480	0.024	0.127	-3.635
Ckb	-2.136	9.478	-2.480	0.024	0.127	-3.635
Pnn	0.788	7.908	2.479	0.024	0.127	-3.636
Gdap10	1.576	6.588	2.479	0.024	0.127	-3.637
Aktip	-0.457	6.851	-2.479	0.024	0.127	-3.637
Ifnal	-0.365	5.450	-2.479	0.024	0.127	-3.638
Psmg3	0.425	8.277	2.479	0.024	0.127	-3.638
Actrt3	-0.300	2.971	-2.478	0.024	0.127	-3.638
Kank1	-1.723	6.140	-2.478	0.024	0.127	-3.639
Gch1	1.053	8.836	2.477	0.024	0.127	-3.640
5830468F06Rik	-0.396	3.419	-2.477	0.024	0.127	-3.641
Snx6	-1.108	10.162	-2.477	0.024	0.127	-3.641
Chtf18	0.588	4.336	2.476	0.024	0.127	-3.642
C87490	-0.453	3.762	-2.476	0.024	0.127	-3.642
Reep6	0.565	6.734	2.476	0.024	0.127	-3.642
Ccdc32	-0.696	7.545	-2.476	0.024	0.127	-3.642
Rpl27a	-0.254	3.370	-2.476	0.024	0.127	-3.642
Gm5082	-0.430	2.951	-2.476	0.024	0.127	-3.642
Palm	-0.475	5.582	-2.476	0.024	0.127	-3.643
Arl8a	-0.464	6.466	-2.475	0.024	0.127	-3.643

Stard10	-0.309	11.632	-2.475	0.024	0.127	-3.643
Zfp784	-0.452	4.864	-2.475	0.024	0.127	-3.643
2310005A03Rik	-0.365	3.417	-2.474	0.024	0.128	-3.645
Neurod2	-0.465	5.370	-2.473	0.024	0.128	-3.647
1700012L04Rik	-0.414	3.935	-2.473	0.024	0.128	-3.648
Gm10266	-0.283	4.702	-2.473	0.024	0.128	-3.649
Socs7	-0.379	4.743	-2.472	0.024	0.128	-3.649
Stau2	-0.977	6.713	-2.472	0.024	0.128	-3.651
Ttc4	0.363	6.709	2.471	0.024	0.128	-3.652
Mpl	-0.602	4.190	-2.471	0.024	0.128	-3.652
Rcn1	1.181	5.570	2.470	0.024	0.128	-3.653
Usp36	0.481	7.265	2.470	0.024	0.128	-3.653
Rbm41	-0.402	3.922	-2.470	0.024	0.128	-3.653
Podx12	-0.421	3.276	-2.470	0.024	0.128	-3.654
Rbl1	0.612	6.834	2.470	0.024	0.128	-3.654
Krtap19-9b	-0.431	3.892	-2.470	0.024	0.128	-3.654
Fasl	-0.297	3.089	-2.469	0.024	0.128	-3.655
Col8a1	-0.548	4.003	-2.469	0.024	0.128	-3.655
Psmc8	-0.421	9.834	-2.469	0.024	0.129	-3.656
Sdccag8	-0.473	2.779	-2.469	0.024	0.129	-3.656
Pthlh	-2.010	5.285	-2.468	0.024	0.129	-3.656
Phactr2	-0.258	3.253	-2.468	0.024	0.129	-3.657
Nme5	-0.408	4.498	-2.467	0.024	0.129	-3.659
Rbmx11	0.494	8.540	2.466	0.024	0.129	-3.660
Tubb2a	0.648	8.851	2.466	0.024	0.129	-3.661
Zfp69	-0.433	3.412	-2.466	0.024	0.129	-3.662
AU022751	-0.403	3.884	-2.465	0.024	0.129	-3.662
Nxf1	0.618	8.503	2.465	0.024	0.129	-3.663
0610040J01Rik	0.269	9.906	2.465	0.024	0.129	-3.664
Prss41	-0.411	3.780	-2.464	0.024	0.129	-3.664
Mast2	0.259	8.325	2.464	0.024	0.129	-3.665
1700129C05Rik	-0.284	2.857	-2.464	0.024	0.129	-3.665
Magea7-ps	-0.526	5.374	-2.464	0.025	0.129	-3.665
Rdh7	-2.031	8.125	-2.464	0.025	0.129	-3.665
Tac2	-0.349	3.138	-2.463	0.025	0.129	-3.666
Idh1	0.619	9.929	2.463	0.025	0.130	-3.667
Sdpr	-1.107	5.957	-2.462	0.025	0.130	-3.667
Gm9947	-0.364	4.294	-2.462	0.025	0.130	-3.668
Minos1	-0.466	10.072	-2.462	0.025	0.130	-3.668
Snrnp27	0.341	9.259	2.462	0.025	0.130	-3.669
Ppara	-1.177	5.220	-2.462	0.025	0.130	-3.669
Mrgprg	-0.378	3.900	-2.462	0.025	0.130	-3.669
Galm	-0.407	8.913	-2.462	0.025	0.130	-3.669
Rras2	0.281	8.560	2.462	0.025	0.130	-3.669
Akr1c19	-0.836	8.918	-2.462	0.025	0.130	-3.669
Tmprss2	-0.437	10.499	-2.462	0.025	0.130	-3.669
Gm13262	-0.307	3.645	-2.461	0.025	0.130	-3.669
Wdr90	0.480	5.456	2.461	0.025	0.130	-3.669
Ankrd23	-0.336	4.961	-2.461	0.025	0.130	-3.670
Il25	-0.425	3.231	-2.461	0.025	0.130	-3.670

Atp9a	0.278	8.555	2.461	0.025	0.130	-3.671
Oas1f	-0.412	5.013	-2.461	0.025	0.130	-3.671
A630033H20Rik	-0.281	2.459	-2.460	0.025	0.130	-3.671
Rasa2	0.666	8.153	2.460	0.025	0.130	-3.671
Hdac6	-0.269	7.093	-2.460	0.025	0.130	-3.672
Zfp384	0.468	8.435	2.460	0.025	0.130	-3.672
2310005E17Rik	-0.299	2.822	-2.460	0.025	0.130	-3.673
Rusc1	-0.367	5.660	-2.459	0.025	0.130	-3.673
Gpllr	-0.381	3.744	-2.459	0.025	0.130	-3.673
Dmbx1	-0.410	4.502	-2.459	0.025	0.130	-3.673
Fbxo3	-0.476	8.034	-2.459	0.025	0.130	-3.673
Deptor	-0.375	5.814	-2.459	0.025	0.130	-3.674
Plekha4	-0.363	5.716	-2.459	0.025	0.130	-3.674
Cst9	-0.457	3.082	-2.459	0.025	0.130	-3.674
Gm9748	-0.403	3.043	-2.459	0.025	0.130	-3.674
Il13	-0.370	4.023	-2.458	0.025	0.130	-3.676
Add3	-0.456	7.019	-2.458	0.025	0.130	-3.676
AU022320	-0.381	3.898	-2.458	0.025	0.130	-3.677
4930458K08Rik	-0.314	3.262	-2.457	0.025	0.130	-3.677
Yrdc	0.550	7.865	2.457	0.025	0.130	-3.678
Zscan10	-0.390	4.993	-2.457	0.025	0.130	-3.678
Runx2	0.681	5.254	2.457	0.025	0.130	-3.678
Fam71a	-0.402	3.902	-2.456	0.025	0.130	-3.679
Lrfn4	0.452	5.955	2.456	0.025	0.130	-3.679
Slc44a3	-0.538	8.305	-2.456	0.025	0.130	-3.679
Stard13	-0.520	5.795	-2.456	0.025	0.130	-3.680
Dock5	0.425	6.582	2.456	0.025	0.130	-3.680
Sftpb	-0.389	5.678	-2.456	0.025	0.130	-3.680
LOC552874	-0.396	4.881	-2.456	0.025	0.130	-3.680
Raplgapos	-0.871	6.303	-2.455	0.025	0.130	-3.681
Pygl	0.899	5.640	2.455	0.025	0.130	-3.682
4930549C15Rik	-0.360	4.079	-2.455	0.025	0.130	-3.682
Prr22	-0.395	5.183	-2.454	0.025	0.130	-3.683
St8sia5	-0.467	4.874	-2.454	0.025	0.130	-3.683
Cd200r3	-0.416	2.593	-2.454	0.025	0.130	-3.684
Pdzk1	-0.458	4.038	-2.454	0.025	0.130	-3.684
Bpnt1	-0.714	8.375	-2.454	0.025	0.130	-3.684
Slc50a1	0.413	9.100	2.454	0.025	0.130	-3.684
Alas2	-0.656	5.537	-2.454	0.025	0.130	-3.684
Akap2	-1.166	6.141	-2.453	0.025	0.130	-3.684
2900078I11Rik	-0.449	2.991	-2.453	0.025	0.131	-3.685
4930533B18Rik	-0.309	2.407	-2.453	0.025	0.131	-3.685
Lym2	-0.445	6.541	-2.453	0.025	0.131	-3.686
Aebp2	-0.500	3.904	-2.452	0.025	0.131	-3.686
4930431F12Rik	-0.340	2.601	-2.452	0.025	0.131	-3.686
Gm26801	0.598	4.406	2.452	0.025	0.131	-3.687
Maf	0.367	4.278	2.452	0.025	0.131	-3.687
C230040D14	-0.297	3.610	-2.452	0.025	0.131	-3.687
BC003965	0.274	8.932	2.451	0.025	0.131	-3.688
2010012005Rik	0.425	6.966	2.451	0.025	0.131	-3.688

Nadsyn1	-0.332	6.635	-2.451	0.025	0.131	-3.688
4921530L21Rik	-0.322	2.876	-2.451	0.025	0.131	-3.690
Mast4	-0.368	4.189	-2.450	0.025	0.131	-3.690
Mdgal	-0.327	4.575	-2.450	0.025	0.131	-3.690
Mup4	-0.276	2.513	-2.450	0.025	0.131	-3.690
Mpo	-0.428	3.471	-2.450	0.025	0.131	-3.691
Amer3	-0.377	4.431	-2.450	0.025	0.131	-3.691
Gmppb	0.663	8.637	2.450	0.025	0.131	-3.691
Zfp143	0.287	6.094	2.449	0.025	0.131	-3.692
Ino80dos	-0.284	2.395	-2.449	0.025	0.131	-3.693
Wdfy4	0.845	5.079	2.448	0.025	0.131	-3.694
4921532D01Rik	-0.331	5.655	-2.448	0.025	0.131	-3.695
Klra21	-0.469	5.905	-2.447	0.025	0.131	-3.695
1810062018Rik	-0.358	3.772	-2.447	0.025	0.131	-3.696
Cstf3	0.467	7.583	2.447	0.025	0.131	-3.696
Zfp28	-0.369	2.941	-2.447	0.025	0.131	-3.696
Hcrtr2	-0.456	4.775	-2.447	0.025	0.131	-3.696
Col9a2	-0.498	3.432	-2.447	0.025	0.131	-3.696
Fzd6	-0.444	5.203	-2.446	0.025	0.131	-3.697
Fbx14	-0.338	6.949	-2.446	0.025	0.131	-3.698
Hhat	-0.307	4.912	-2.446	0.025	0.131	-3.698
Tubb2b	0.541	3.480	2.446	0.025	0.131	-3.698
AW047730	-0.348	5.040	-2.445	0.025	0.132	-3.699
Ltbp3	-0.507	5.625	-2.445	0.025	0.132	-3.699
Cdkn2aipn1	0.431	7.781	2.445	0.025	0.132	-3.700
Ltb	1.326	5.094	2.445	0.025	0.132	-3.700
LOC100041483	-0.495	9.383	-2.444	0.026	0.132	-3.701
A130006I12Rik	-0.458	3.530	-2.444	0.026	0.132	-3.702
H2-Q2	1.602	4.657	2.444	0.026	0.132	-3.702
Tmem33	-0.688	9.157	-2.443	0.026	0.132	-3.703
4933413I22Rik	-0.322	3.430	-2.443	0.026	0.132	-3.703
Fbxo2	-0.315	3.259	-2.443	0.026	0.132	-3.703
Lins	-0.426	3.893	-2.443	0.026	0.132	-3.704
Tmem101	0.432	5.852	2.443	0.026	0.132	-3.704
Trpc4	-0.288	2.488	-2.443	0.026	0.132	-3.704
Lyg2	-0.324	3.603	-2.442	0.026	0.132	-3.704
Zfp961	-0.480	4.943	-2.442	0.026	0.132	-3.705
Atpla3	-0.354	3.555	-2.442	0.026	0.132	-3.705
Slc30a3	-0.337	6.769	-2.441	0.026	0.132	-3.707
Tt1113	-0.417	4.056	-2.441	0.026	0.132	-3.707
Dnmt3b	0.309	5.031	2.441	0.026	0.132	-3.707
9530068E07Rik	0.301	9.231	2.441	0.026	0.132	-3.708
H13	0.375	9.559	2.440	0.026	0.132	-3.708
Angpt12	-0.516	4.326	-2.440	0.026	0.132	-3.708
Palld1	1.527	6.115	2.440	0.026	0.132	-3.708
Proz	-0.398	3.768	-2.440	0.026	0.132	-3.709
Rnf207	-0.379	3.002	-2.439	0.026	0.132	-3.710
Meal	-0.260	9.025	-2.439	0.026	0.132	-3.710
1700084F23Rik	-0.350	3.094	-2.439	0.026	0.132	-3.710
Rgs9bp	-0.355	2.898	-2.439	0.026	0.132	-3.711

Sp4	-0.773	5.589	-2.439	0.026	0.132	-3.711
Zbtb40	0.487	5.991	2.439	0.026	0.132	-3.712
Atp6v1c2	-0.334	3.832	-2.438	0.026	0.133	-3.712
Xab2	0.399	6.893	2.438	0.026	0.133	-3.712
5830435N06Rik	-0.386	3.278	-2.438	0.026	0.133	-3.713
2410018L13Rik	-0.428	4.773	-2.438	0.026	0.133	-3.713
Ctsz	0.755	10.314	2.437	0.026	0.133	-3.714
8030431A06Rik	-0.388	6.829	-2.437	0.026	0.133	-3.714
Dkk4	-0.336	3.327	-2.437	0.026	0.133	-3.714
D530037P16Rik	-0.365	2.652	-2.437	0.026	0.133	-3.714
Ubl3	-0.612	9.954	-2.437	0.026	0.133	-3.714
B230214009Rik	2.083	6.881	2.437	0.026	0.133	-3.715
Ptprn2	-0.521	4.302	-2.436	0.026	0.133	-3.715
AI594671	-0.274	2.213	-2.436	0.026	0.133	-3.716
Mrps21	-0.440	9.448	-2.436	0.026	0.133	-3.717
Hinfp	-0.638	4.821	-2.436	0.026	0.133	-3.717
Fhl1	-0.911	11.289	-2.435	0.026	0.133	-3.717
Kcnv2	-0.457	2.674	-2.435	0.026	0.133	-3.717
Dmrt3	-0.362	2.653	-2.435	0.026	0.133	-3.719
Gm715	-0.451	3.187	-2.435	0.026	0.133	-3.719
Cenpb	-0.290	7.886	-2.435	0.026	0.133	-3.719
Hspa14	0.436	4.943	2.434	0.026	0.133	-3.720
Pfas	0.697	6.116	2.434	0.026	0.133	-3.720
LOC102636304	-0.496	5.179	-2.434	0.026	0.133	-3.720
Rfesd	-0.608	5.826	-2.434	0.026	0.133	-3.721
Prpf3	0.421	6.881	2.433	0.026	0.133	-3.721
Efemp2	0.494	5.494	2.432	0.026	0.134	-3.724
Hbb-bh1	-0.422	3.450	-2.432	0.026	0.134	-3.724
Cmip	0.518	7.287	2.431	0.026	0.134	-3.725
Sft2d1	0.386	9.212	2.431	0.026	0.134	-3.725
Rhox13	-0.350	2.351	-2.431	0.026	0.134	-3.725
A030005K14Rik	-0.339	4.582	-2.431	0.026	0.134	-3.725
Stmn4	-0.338	4.737	-2.431	0.026	0.134	-3.726
Npc111	1.390	6.791	2.431	0.026	0.134	-3.726
Slc39a1	0.367	8.588	2.431	0.026	0.134	-3.726
Zfp553	-0.331	4.332	-2.430	0.026	0.134	-3.726
4930557B21Rik	-0.373	3.336	-2.430	0.026	0.134	-3.727
4933407I08Rik	-0.285	2.940	-2.430	0.026	0.134	-3.727
Srsf10	0.568	6.941	2.429	0.026	0.134	-3.728
4930500A05Rik	-0.358	2.948	-2.429	0.026	0.134	-3.730
A330050F15Rik	-0.322	4.346	-2.428	0.026	0.134	-3.730
Trim47	-0.883	6.090	-2.428	0.026	0.134	-3.730
Nr3c1	-0.962	4.753	-2.428	0.026	0.134	-3.730
Themis2	0.761	5.055	2.428	0.026	0.134	-3.731
Egfr	0.669	7.518	2.428	0.026	0.134	-3.731
Stard8	-0.614	5.167	-2.428	0.026	0.134	-3.731
Zbpl	1.771	7.128	2.427	0.026	0.134	-3.733
Cwc15	-0.326	8.495	-2.427	0.026	0.134	-3.733
D9Erttd338e	-0.234	2.938	-2.427	0.026	0.134	-3.733
Gm26673	-0.312	3.901	-2.427	0.026	0.134	-3.733

Mllt1	-0.451	3.329	-2.427	0.026	0.134	-3.733
Csflr	1.328	8.595	2.427	0.026	0.134	-3.733
D7Ertd443e	-0.649	4.174	-2.426	0.026	0.134	-3.734
Nlk	-0.607	7.614	-2.426	0.026	0.134	-3.734
Plekhs1	1.118	5.740	2.426	0.026	0.134	-3.734
Pcdh7	-0.396	3.765	-2.426	0.026	0.134	-3.734
Gpr45	-0.313	4.387	-2.426	0.026	0.134	-3.734
Sez612	-0.661	4.520	-2.426	0.026	0.134	-3.735
4930512M02Rik	-0.271	2.478	-2.425	0.027	0.134	-3.736
Nrbp1	0.284	8.074	2.425	0.027	0.134	-3.737
Gpx8	-0.932	6.216	-2.424	0.027	0.135	-3.738
Mrgpra2a	-0.353	3.433	-2.423	0.027	0.135	-3.740
Acsbg2	-0.390	3.350	-2.423	0.027	0.135	-3.740
Ssxb1	-0.362	2.769	-2.423	0.027	0.135	-3.741
Abcc3	0.298	10.577	2.422	0.027	0.135	-3.741
Fank1	-0.480	5.687	-2.422	0.027	0.135	-3.741
Lrrc51	-0.395	5.381	-2.422	0.027	0.135	-3.741
2810047J09Rik	-0.300	2.467	-2.422	0.027	0.135	-3.742
Rps6ka2	-0.462	5.918	-2.422	0.027	0.135	-3.742
Ttc3	-0.476	4.583	-2.422	0.027	0.135	-3.742
Ifna11	-0.401	3.193	-2.422	0.027	0.135	-3.742
Got1	-0.488	9.892	-2.422	0.027	0.135	-3.743
Cox7c	0.681	2.992	2.421	0.027	0.135	-3.743
3010027C24Rik	-0.296	4.246	-2.421	0.027	0.135	-3.744
Tepp	-0.253	2.863	-2.421	0.027	0.135	-3.744
Cmas	0.358	10.389	2.420	0.027	0.135	-3.745
Slco2a1	-0.606	9.246	-2.419	0.027	0.135	-3.747
Isl2	-0.413	5.186	-2.419	0.027	0.135	-3.748
Mab2111	-0.413	2.871	-2.419	0.027	0.135	-3.748
Sesn2	-0.441	4.772	-2.418	0.027	0.136	-3.748
Ctxn2	-0.284	3.922	-2.418	0.027	0.136	-3.750
Prkag3	-0.513	3.489	-2.417	0.027	0.136	-3.750
Gbp8	2.732	4.904	2.417	0.027	0.136	-3.752
A230038B01Rik	-0.366	2.568	-2.417	0.027	0.136	-3.752
Lmx1a	-0.376	4.169	-2.416	0.027	0.136	-3.752
Prkcsb	0.260	9.375	2.416	0.027	0.136	-3.752
Commd6	-0.539	7.964	-2.416	0.027	0.136	-3.753
Gm17762	-0.448	3.393	-2.415	0.027	0.136	-3.754
A730008H23Rik	-0.412	4.341	-2.415	0.027	0.136	-3.755
Rhoc	0.502	9.847	2.414	0.027	0.136	-3.756
Cf12	-0.580	6.318	-2.414	0.027	0.136	-3.756
9330159N22Rik	-0.487	3.071	-2.414	0.027	0.136	-3.757
Ermp1	-0.856	10.486	-2.413	0.027	0.137	-3.758
Spag17	-0.263	2.388	-2.413	0.027	0.137	-3.758
Oog4	-0.337	2.519	-2.413	0.027	0.137	-3.758
Kcne11	-0.418	3.258	-2.413	0.027	0.137	-3.759
AU022052	-0.320	2.703	-2.413	0.027	0.137	-3.759
D2Ertd173e	-0.434	2.728	-2.412	0.027	0.137	-3.759
1010001I08Rik	-0.293	2.823	-2.412	0.027	0.137	-3.760
Ccdc122	0.617	5.896	2.412	0.027	0.137	-3.760

Psme2	1.242	11.021	2.412	0.027	0.137	-3.760
AW112010	1.928	11.024	2.412	0.027	0.137	-3.760
Rnase1	-2.091	7.126	-2.412	0.027	0.137	-3.761
4930550C17Rik	-0.366	5.356	-2.411	0.027	0.137	-3.761
Filip11	-0.810	8.344	-2.411	0.027	0.137	-3.761
Cox15	-0.465	7.153	-2.411	0.027	0.137	-3.762
Dtd2	-0.407	3.212	-2.411	0.027	0.137	-3.762
Flrt2	-0.398	4.263	-2.411	0.027	0.137	-3.762
9230118N17Rik	-0.275	2.946	-2.411	0.027	0.137	-3.763
Gm17597	-0.424	3.456	-2.411	0.027	0.137	-3.763
Zfp84	-0.281	4.630	-2.410	0.027	0.137	-3.764
Zdhhc8	-0.395	6.109	-2.410	0.027	0.137	-3.764
S1fn2	1.780	7.982	2.410	0.027	0.137	-3.764
Tmem196	-0.285	2.149	-2.409	0.027	0.137	-3.765
1700008P02Rik	-0.376	3.502	-2.409	0.027	0.137	-3.765
Pf4	0.804	5.877	2.409	0.027	0.137	-3.765
Pnliprp2	-2.348	7.982	-2.409	0.027	0.137	-3.766
Muc5b	1.536	6.796	2.409	0.027	0.137	-3.766
Vmnlr14	-0.271	2.468	-2.409	0.027	0.137	-3.766
Prr15	-0.429	2.599	-2.409	0.027	0.137	-3.766
6430411K18Rik	-0.366	3.831	-2.408	0.027	0.137	-3.767
Coq7	-0.342	8.857	-2.408	0.027	0.137	-3.768
Atp5d	-0.223	11.618	-2.408	0.027	0.137	-3.768
Hcrtr1	-0.304	2.811	-2.407	0.028	0.137	-3.769
Nap112	-0.333	2.671	-2.407	0.028	0.137	-3.769
Aknaos	-0.400	2.942	-2.407	0.028	0.137	-3.770
Gm10575	-0.488	5.751	-2.407	0.028	0.137	-3.770
P2rx6	-0.392	4.147	-2.406	0.028	0.137	-3.770
4930506M07Rik	0.249	9.326	2.406	0.028	0.137	-3.771
Shisa4	-0.562	6.129	-2.406	0.028	0.137	-3.771
Ddx17	0.637	10.430	2.406	0.028	0.137	-3.771
Susd2	-0.696	5.467	-2.406	0.028	0.137	-3.771
1810073G21Rik	-0.371	4.590	-2.406	0.028	0.137	-3.772
4930448E06Rik	-0.272	3.143	-2.404	0.028	0.138	-3.774
Fam160b1	-0.602	5.709	-2.404	0.028	0.138	-3.775
Gm5526	0.225	12.393	2.403	0.028	0.138	-3.776
Dlg4	-0.414	3.366	-2.403	0.028	0.138	-3.776
1700123M08Rik	-0.447	2.812	-2.403	0.028	0.138	-3.776
Gapdhs	-0.319	6.145	-2.403	0.028	0.138	-3.777
Slc25a15	-0.407	4.990	-2.402	0.028	0.138	-3.778
4921523P09Rik	-0.329	2.906	-2.402	0.028	0.138	-3.778
Tsacc	-0.572	5.089	-2.402	0.028	0.138	-3.779
Gm11175	-0.404	6.048	-2.402	0.028	0.138	-3.779
Pstpipl	-0.858	6.472	-2.402	0.028	0.138	-3.779
Zcchc9	0.375	7.541	2.402	0.028	0.138	-3.779
Gm10461	-0.373	2.359	-2.401	0.028	0.138	-3.780
4933408M05Rik	-0.235	2.230	-2.401	0.028	0.138	-3.780
4930435F05Rik	-0.270	5.014	-2.401	0.028	0.138	-3.781
Gnptab	-0.489	7.928	-2.401	0.028	0.138	-3.781
Gm7367	0.258	9.837	2.400	0.028	0.138	-3.781

Gm12338	-0.242	11.632	-2.400	0.028	0.138	-3.781
Col6a3	0.741	6.365	2.400	0.028	0.138	-3.782
Erap1	1.055	7.440	2.400	0.028	0.138	-3.782
Fgf12	-0.283	2.637	-2.400	0.028	0.138	-3.782
LOC102634352	0.304	5.455	2.399	0.028	0.138	-3.783
Naf1	0.464	8.111	2.399	0.028	0.138	-3.783
Arf3	-0.538	3.858	-2.399	0.028	0.138	-3.783
Mfap3	0.250	8.777	2.399	0.028	0.138	-3.784
Nkx2-5	-0.461	5.254	-2.399	0.028	0.138	-3.784
4930447N08Rik	-0.330	2.552	-2.399	0.028	0.138	-3.784
Ctnnb1	-0.369	6.895	-2.399	0.028	0.138	-3.784
Dimt1	0.521	5.407	2.399	0.028	0.138	-3.784
Ephb1	-0.399	4.632	-2.399	0.028	0.138	-3.784
Tpk1	-0.424	8.215	-2.399	0.028	0.138	-3.785
Hars	0.436	7.564	2.399	0.028	0.138	-3.785
Gm15800	-0.328	6.724	-2.398	0.028	0.138	-3.785
5730407005Rik	-0.299	2.391	-2.398	0.028	0.138	-3.785
Saysd1	-0.421	7.225	-2.398	0.028	0.138	-3.786
BC006965	-0.330	2.765	-2.398	0.028	0.138	-3.786
E430025E21Rik	-0.409	9.229	-2.398	0.028	0.139	-3.787
Ipo13	0.333	7.176	2.397	0.028	0.139	-3.787
Ankrd61	-0.389	3.050	-2.397	0.028	0.139	-3.787
Tmem160	-0.630	8.513	-2.397	0.028	0.139	-3.787
Atp2c1	-0.539	5.102	-2.397	0.028	0.139	-3.788
Gm19950	-0.341	3.584	-2.397	0.028	0.139	-3.788
Slc20a1	0.669	3.524	2.396	0.028	0.139	-3.789
Enpp5	-0.619	8.787	-2.396	0.028	0.139	-3.789
Ifna1	-0.381	4.736	-2.396	0.028	0.139	-3.789
Sowaha	-0.290	3.032	-2.396	0.028	0.139	-3.790
Tmem40	0.519	5.199	2.396	0.028	0.139	-3.790
AU022331	-0.445	4.663	-2.395	0.028	0.139	-3.791
Fam222a	-0.502	4.427	-2.395	0.028	0.139	-3.792
Tt1	-0.376	4.193	-2.395	0.028	0.139	-3.792
Tdrd7	0.561	9.370	2.394	0.028	0.139	-3.793
Gm9754	-0.381	3.659	-2.394	0.028	0.139	-3.793
Vasp	0.608	10.451	2.394	0.028	0.139	-3.793
4933423P22Rik	-0.362	4.163	-2.394	0.028	0.139	-3.793
Chp2	-0.937	4.346	-2.394	0.028	0.139	-3.793
C78444	-0.329	4.395	-2.394	0.028	0.139	-3.794
Prm1	-0.383	5.501	-2.393	0.028	0.139	-3.794
Esrp1	0.495	9.927	2.393	0.028	0.139	-3.794
4930568D16Rik	-0.426	2.867	-2.393	0.028	0.139	-3.795
Empl	0.531	8.902	2.393	0.028	0.139	-3.795
Tctn1	0.447	5.794	2.393	0.028	0.139	-3.795
Exd1	-0.393	4.114	-2.392	0.028	0.139	-3.796
Lrba	-0.442	3.076	-2.392	0.028	0.139	-3.797
Acad12	-0.439	5.486	-2.392	0.028	0.139	-3.797
Dhrs4	0.535	6.641	2.392	0.028	0.139	-3.798
Fblim1	-0.900	8.380	-2.391	0.028	0.139	-3.798
Zfp433	-0.307	4.359	-2.391	0.028	0.139	-3.798

Dnah1	-0.309	4.352	-2.391	0.028	0.139	-3.798
9530077C05Rik	-0.309	3.010	-2.391	0.028	0.139	-3.799
Efcab9	-0.313	2.909	-2.391	0.028	0.139	-3.799
4930579G24Rik	0.596	3.854	2.391	0.028	0.139	-3.799
Gtf2f1	0.320	8.528	2.391	0.028	0.139	-3.799
Lysmd3	0.541	8.096	2.390	0.028	0.140	-3.800
Exosc8	0.625	6.250	2.390	0.028	0.140	-3.800
5430403G19Rik	-0.377	3.208	-2.390	0.028	0.140	-3.800
Nifk	0.607	7.537	2.390	0.028	0.140	-3.801
Vmnlr42	-0.422	3.603	-2.390	0.029	0.140	-3.801
Urod	-0.556	6.914	-2.389	0.029	0.140	-3.802
BC024139	-0.522	3.595	-2.389	0.029	0.140	-3.803
Tlcd1	-0.347	4.652	-2.388	0.029	0.140	-3.803
Hvcn1	0.805	4.926	2.388	0.029	0.140	-3.805
Aldh3a2	-0.507	8.910	-2.388	0.029	0.140	-3.805
Lingo2	-0.375	4.211	-2.388	0.029	0.140	-3.805
D930028M14Rik	-0.431	5.106	-2.387	0.029	0.140	-3.806
Pvalb	-0.306	4.628	-2.387	0.029	0.140	-3.806
Atrip	-0.377	6.709	-2.387	0.029	0.140	-3.807
Pes1	0.426	7.645	2.386	0.029	0.140	-3.807
Sptbn4	-0.390	4.868	-2.386	0.029	0.140	-3.807
Hcls1	1.101	4.741	2.386	0.029	0.140	-3.807
A030005L19Rik	-0.317	3.508	-2.386	0.029	0.140	-3.808
Trit1	0.388	6.483	2.386	0.029	0.140	-3.808
Rbfox3	-0.270	2.998	-2.386	0.029	0.140	-3.808
Hlfoo	-0.413	4.029	-2.386	0.029	0.140	-3.808
Arfip1	0.246	10.245	2.386	0.029	0.140	-3.808
Sema6a	-0.350	5.075	-2.385	0.029	0.140	-3.809
Arhgap12	-0.576	3.560	-2.385	0.029	0.140	-3.809
Sec61b	0.310	11.137	2.385	0.029	0.140	-3.809
Ctps	0.537	7.825	2.385	0.029	0.140	-3.810
Vmnlr46	-0.345	2.599	-2.385	0.029	0.140	-3.810
C77683	-0.412	5.642	-2.385	0.029	0.140	-3.810
Sntg2	-0.486	3.194	-2.384	0.029	0.140	-3.811
Kcnc3	-0.252	2.935	-2.383	0.029	0.141	-3.813
AU041133	-0.257	2.867	-2.383	0.029	0.141	-3.813
Fgf1	-0.647	4.950	-2.382	0.029	0.141	-3.814
D2Ertd612e	1.213	6.017	2.382	0.029	0.141	-3.815
Cldn4	0.561	5.313	2.381	0.029	0.141	-3.816
Btbd6	-0.452	6.437	-2.380	0.029	0.141	-3.818
Psg21	-0.415	2.708	-2.380	0.029	0.141	-3.818
D5Ertd566e	-0.458	2.778	-2.380	0.029	0.141	-3.818
Igflr	-0.742	6.051	-2.380	0.029	0.141	-3.818
Esf1	0.348	6.783	2.379	0.029	0.141	-3.820
Pdgfd	-0.610	2.872	-2.379	0.029	0.141	-3.820
Pgp	0.300	8.173	2.379	0.029	0.141	-3.820
Dydc1	-0.261	2.424	-2.379	0.029	0.141	-3.820
Gm6415	-0.294	10.047	-2.379	0.029	0.141	-3.820
Exosc2	0.423	6.833	2.379	0.029	0.141	-3.821
Efcab1	-0.443	4.487	-2.379	0.029	0.141	-3.821

4921504P13Rik	-0.324	3.605	-2.378	0.029	0.141	-3.822
Sfrp1	-0.384	5.506	-2.378	0.029	0.142	-3.822
Cbr2	1.164	5.957	2.377	0.029	0.142	-3.824
LOC102640192	-0.510	3.524	-2.377	0.029	0.142	-3.824
Kcnc4	-0.375	4.928	-2.377	0.029	0.142	-3.824
Inpp5b	0.319	8.107	2.377	0.029	0.142	-3.825
Pomt2	-0.434	4.551	-2.377	0.029	0.142	-3.825
Ada	2.622	6.378	2.376	0.029	0.142	-3.826
Dleu2	-0.655	5.275	-2.376	0.029	0.142	-3.826
Cers2	0.348	8.950	2.376	0.029	0.142	-3.827
Brd8	0.402	8.527	2.375	0.029	0.142	-3.827
Angell1	-0.448	6.242	-2.375	0.029	0.142	-3.827
BC026585	-0.330	2.708	-2.375	0.029	0.142	-3.827
Gabrd	-0.426	3.147	-2.375	0.029	0.142	-3.827
Tfdp1	0.517	8.474	2.375	0.029	0.142	-3.827
Kcnn4	0.609	8.470	2.375	0.029	0.142	-3.828
Apba3	-0.273	2.686	-2.374	0.029	0.142	-3.829
Etohd2	-0.392	4.254	-2.374	0.029	0.142	-3.829
Mbd3l1	-0.402	2.843	-2.374	0.029	0.142	-3.830
Cypt1	-0.274	2.830	-2.374	0.029	0.142	-3.830
Klh14	-0.313	2.508	-2.374	0.029	0.142	-3.830
Slc43a3	-0.402	4.060	-2.374	0.029	0.142	-3.830
Kcng4	-0.826	4.535	-2.373	0.029	0.142	-3.831
Dnajc5g	-0.468	4.386	-2.373	0.029	0.142	-3.831
Tlr3	0.730	5.751	2.373	0.030	0.142	-3.832
A330094K24Rik	-0.377	3.003	-2.373	0.030	0.142	-3.832
4930594C11Rik	-0.325	2.757	-2.372	0.030	0.142	-3.833
4930448D08Rik	-0.219	2.303	-2.372	0.030	0.143	-3.834
4933413J09Rik	-0.348	4.925	-2.371	0.030	0.143	-3.834
Abhd17a	-0.300	9.608	-2.371	0.030	0.143	-3.835
Cyth2	-0.450	8.065	-2.371	0.030	0.143	-3.835
Gm10051	0.276	12.999	2.371	0.030	0.143	-3.835
Haus6	0.304	3.543	2.371	0.030	0.143	-3.835
Cypl1a1	-0.274	3.528	-2.371	0.030	0.143	-3.835
4930447F04Rik	-0.252	2.201	-2.371	0.030	0.143	-3.836
Ssrp1	0.335	9.698	2.371	0.030	0.143	-3.836
2900018N21Rik	-0.404	2.866	-2.370	0.030	0.143	-3.836
1700007K09Rik	-0.535	3.873	-2.370	0.030	0.143	-3.837
4930422C21Rik	-0.320	3.907	-2.369	0.030	0.143	-3.838
Igbp1b	-0.368	4.009	-2.369	0.030	0.143	-3.839
9530029012Rik	1.312	8.355	2.369	0.030	0.143	-3.839
Gja5	-0.352	3.278	-2.368	0.030	0.143	-3.840
Rhbdd3	0.273	6.817	2.368	0.030	0.143	-3.840
Fchsd1	-0.380	5.272	-2.368	0.030	0.143	-3.841
Mfap1a	0.354	8.087	2.368	0.030	0.143	-3.841
Creg2	-0.269	3.377	-2.367	0.030	0.143	-3.843
Rspo3	-0.439	4.025	-2.366	0.030	0.143	-3.843
5930412G12Rik	-0.351	5.543	-2.366	0.030	0.143	-3.844
Lyz2	2.021	8.822	2.366	0.030	0.144	-3.844
Cdca71	0.591	7.599	2.366	0.030	0.144	-3.844

Plekhj1	0.535	6.935	2.365	0.030	0.144	-3.845
Ilf2	0.606	6.752	2.365	0.030	0.144	-3.846
Impal	-0.269	10.198	-2.365	0.030	0.144	-3.846
Aida	0.575	7.385	2.365	0.030	0.144	-3.846
Ddrgk1	-0.277	8.797	-2.365	0.030	0.144	-3.846
Gabra5	-0.279	2.456	-2.364	0.030	0.144	-3.847
Mbp	-0.392	4.613	-2.363	0.030	0.144	-3.848
AK030979	-0.389	3.646	-2.363	0.030	0.144	-3.849
Ikzf3	0.715	4.065	2.363	0.030	0.144	-3.849
Pex7	-0.378	8.773	-2.363	0.030	0.144	-3.850
Rhoj	0.867	6.932	2.363	0.030	0.144	-3.850
Sbf2	-0.289	5.978	-2.363	0.030	0.144	-3.850
Lysmd4	-0.335	3.633	-2.362	0.030	0.144	-3.850
Zcchc3	-0.505	6.106	-2.362	0.030	0.144	-3.851
Npr1	-0.384	3.693	-2.362	0.030	0.144	-3.851
Ciz1	0.290	7.218	2.362	0.030	0.144	-3.851
Ctdspl2	-0.454	6.031	-2.362	0.030	0.144	-3.852
Arhgap32	-0.418	8.358	-2.362	0.030	0.144	-3.852
Gm14137	0.388	5.349	2.361	0.030	0.144	-3.853
Upk3a	-0.523	4.170	-2.361	0.030	0.144	-3.854
Jadel	-0.463	7.530	-2.360	0.030	0.144	-3.855
Kctd14	1.159	7.827	2.360	0.030	0.144	-3.855
Spag4	-0.432	4.782	-2.360	0.030	0.144	-3.855
Slc35f1	-0.397	2.644	-2.360	0.030	0.144	-3.855
4930480G23Rik	-0.254	2.364	-2.360	0.030	0.145	-3.855
Pabpc6	-0.324	2.688	-2.360	0.030	0.145	-3.856
Utrn	-0.817	3.644	-2.359	0.030	0.145	-3.857
Morn1	-0.334	4.207	-2.359	0.030	0.145	-3.857
Fgfbp1	-1.059	8.723	-2.359	0.030	0.145	-3.857
Mageal	-0.339	2.832	-2.358	0.030	0.145	-3.858
Fggy	-0.272	5.114	-2.358	0.030	0.145	-3.858
Fa2h	-1.303	10.371	-2.358	0.030	0.145	-3.858
Ryr3	-0.283	3.326	-2.358	0.030	0.145	-3.859
Fbxo8	-0.433	7.895	-2.358	0.030	0.145	-3.859
Znrf4	-0.411	4.570	-2.358	0.030	0.145	-3.859
Olf749	-0.261	3.080	-2.358	0.030	0.145	-3.859
4930488L21Rik	-0.401	3.757	-2.358	0.030	0.145	-3.859
Pom12112	-0.395	4.219	-2.357	0.030	0.145	-3.860
Gamt	-0.468	4.993	-2.357	0.030	0.145	-3.860
Phlda2	0.648	6.291	2.357	0.030	0.145	-3.860
Ccdc126	-0.396	5.679	-2.357	0.030	0.145	-3.860
Cdkn1b	-0.635	3.052	-2.357	0.030	0.145	-3.860
Ctsd	-0.341	10.897	-2.356	0.030	0.145	-3.861
Iqgap3	0.679	6.590	2.356	0.030	0.145	-3.861
AU020147	-0.491	3.892	-2.356	0.031	0.145	-3.862
Cd37	0.664	4.564	2.356	0.031	0.145	-3.862
Sgcg	-0.375	4.440	-2.356	0.031	0.145	-3.862
Irgm2	2.493	8.264	2.356	0.031	0.145	-3.863
Slc6a18	-0.277	3.246	-2.355	0.031	0.145	-3.863
Mrgpre	-0.324	4.162	-2.355	0.031	0.145	-3.864

Tktl1	-1.470	4.193	-2.355	0.031	0.145	-3.865
Sox5os1	-0.335	3.898	-2.354	0.031	0.145	-3.866
Sim1	-0.319	4.369	-2.353	0.031	0.146	-3.867
Clpb	-0.555	7.999	-2.353	0.031	0.146	-3.868
Bhlhe40	0.887	9.016	2.352	0.031	0.146	-3.868
Kif2c	-0.387	4.230	-2.352	0.031	0.146	-3.869
Klrg2	-0.429	6.244	-2.352	0.031	0.146	-3.869
Grid2ip	-0.387	4.689	-2.352	0.031	0.146	-3.870
4930414L22Rik	-0.384	5.317	-2.352	0.031	0.146	-3.870
LOC102642487	-0.380	3.018	-2.352	0.031	0.146	-3.870
Clhc1	-0.291	4.059	-2.351	0.031	0.146	-3.870
Psmf1	-0.484	5.715	-2.351	0.031	0.146	-3.870
Snx8	0.298	7.404	2.351	0.031	0.146	-3.871
Siglece	-0.454	4.787	-2.351	0.031	0.146	-3.871
Csf2rb	1.335	4.513	2.351	0.031	0.146	-3.872
Maml2	-0.319	3.187	-2.350	0.031	0.146	-3.872
4833413E03Rik	-0.327	4.266	-2.350	0.031	0.146	-3.872
Slc24a3	-0.340	5.479	-2.350	0.031	0.146	-3.872
Rasgrf2	-0.450	4.931	-2.350	0.031	0.146	-3.873
6430628N08Rik	-0.313	3.651	-2.350	0.031	0.146	-3.873
Zbed6	0.722	10.494	2.349	0.031	0.146	-3.874
Slc9a6	-0.564	9.074	-2.349	0.031	0.146	-3.874
Cxx1a	-0.275	7.423	-2.349	0.031	0.146	-3.874
Fam160a2	0.369	7.302	2.349	0.031	0.146	-3.874
AU022436	-0.311	2.270	-2.349	0.031	0.146	-3.874
C030040A22Rik	-0.375	3.452	-2.349	0.031	0.146	-3.875
2810039B14Rik	-0.493	4.577	-2.349	0.031	0.146	-3.875
Gata6	-0.440	8.212	-2.349	0.031	0.146	-3.875
4933404M09Rik	-0.273	2.911	-2.349	0.031	0.146	-3.875
Wfdc6a	-0.514	3.862	-2.348	0.031	0.146	-3.876
Rag1	-0.292	2.436	-2.348	0.031	0.146	-3.877
Zfp788	-0.369	4.046	-2.348	0.031	0.146	-3.877
Suclg2	-0.492	8.325	-2.347	0.031	0.146	-3.877
2410022M11Rik	-0.252	3.031	-2.347	0.031	0.146	-3.878
Arhgap36	-0.400	2.691	-2.347	0.031	0.146	-3.878
Gm14277	0.669	8.016	2.347	0.031	0.146	-3.878
Ghr1	-1.443	11.652	-2.347	0.031	0.146	-3.878
Tmem26	-0.258	2.346	-2.347	0.031	0.146	-3.878
Ptpn20	-0.311	2.707	-2.347	0.031	0.146	-3.878
Sctr	-0.763	6.728	-2.346	0.031	0.146	-3.879
Ankrd6	-0.330	3.850	-2.346	0.031	0.146	-3.879
Zfp467	-0.432	3.853	-2.346	0.031	0.146	-3.880
4930529F21Rik	-0.298	3.109	-2.346	0.031	0.146	-3.880
Khdrbs2	-0.539	4.464	-2.346	0.031	0.146	-3.881
Foxf1	-0.482	6.113	-2.345	0.031	0.146	-3.881
Gm1976	-0.282	3.667	-2.345	0.031	0.146	-3.881
Hrh3	-0.278	5.704	-2.345	0.031	0.146	-3.881
Lhcgr	-0.337	2.611	-2.344	0.031	0.147	-3.883
Fem1b	-0.326	3.641	-2.344	0.031	0.147	-3.883
Sat2	-0.461	6.208	-2.344	0.031	0.147	-3.883

Cylc2	-0.325	2.403	-2.344	0.031	0.147	-3.883
Terf1	0.408	6.169	2.344	0.031	0.147	-3.883
Crebl2	-0.514	5.934	-2.344	0.031	0.147	-3.883
Chic1	-0.406	3.437	-2.344	0.031	0.147	-3.884
Xpnpep1	0.297	9.682	2.344	0.031	0.147	-3.884
4930565N06Rik	-0.413	3.635	-2.344	0.031	0.147	-3.884
Ppmla	-0.392	9.904	-2.343	0.031	0.147	-3.885
AK090257	-0.396	4.247	-2.343	0.031	0.147	-3.885
Mppe1	-0.277	7.881	-2.343	0.031	0.147	-3.886
Gcc1	-0.414	3.558	-2.343	0.031	0.147	-3.886
Asap3	-0.355	4.146	-2.343	0.031	0.147	-3.886
LOC101056057	1.502	6.985	2.342	0.031	0.147	-3.887
Cox6b1	-0.356	12.786	-2.342	0.031	0.147	-3.887
D3Ert547e	-0.281	3.106	-2.342	0.031	0.147	-3.888
Pip5k1c	-0.593	7.854	-2.341	0.031	0.147	-3.888
B230303012Rik	-0.417	2.957	-2.341	0.031	0.147	-3.888
1700020L24Rik	-0.359	4.299	-2.341	0.031	0.147	-3.888
Ermard	-0.383	6.042	-2.341	0.031	0.147	-3.889
Arhgef6	-0.686	6.879	-2.341	0.031	0.147	-3.889
Pigz	-0.541	5.489	-2.341	0.031	0.147	-3.889
Ddit4	1.307	7.285	2.341	0.031	0.147	-3.890
AK037556	-0.331	2.413	-2.341	0.031	0.147	-3.890
Slc4a11	-0.258	6.656	-2.340	0.031	0.147	-3.890
Dpml	-0.358	4.813	-2.340	0.032	0.147	-3.891
Chkb	-0.377	4.855	-2.340	0.032	0.147	-3.891
Psd	-0.388	5.680	-2.339	0.032	0.147	-3.893
Fam216b	-0.365	4.581	-2.339	0.032	0.147	-3.893
Tbcd2	-0.303	6.281	-2.339	0.032	0.147	-3.893
Pfkfb2	-0.455	3.262	-2.338	0.032	0.147	-3.894
Slc34a3	-0.351	3.203	-2.338	0.032	0.147	-3.894
Xpo5	0.639	6.913	2.338	0.032	0.147	-3.894
D9Ert26e	-0.289	4.684	-2.338	0.032	0.147	-3.894
AI836737	-0.275	2.685	-2.338	0.032	0.148	-3.895
Otub2	-0.480	5.056	-2.338	0.032	0.148	-3.895
Krt25	-0.384	2.681	-2.338	0.032	0.148	-3.895
Ag1	-0.374	5.235	-2.337	0.032	0.148	-3.896
Mcmbp	-0.258	8.549	-2.337	0.032	0.148	-3.896
9930012K11Rik	-0.492	5.492	-2.337	0.032	0.148	-3.896
Trim35	-0.361	4.683	-2.337	0.032	0.148	-3.896
Tbx6	-0.369	3.594	-2.337	0.032	0.148	-3.896
Rasal2	0.381	5.434	2.337	0.032	0.148	-3.896
Gareml	-0.316	4.939	-2.337	0.032	0.148	-3.897
Calcr	-0.316	2.523	-2.336	0.032	0.148	-3.899
Il31ra	-0.539	3.935	-2.336	0.032	0.148	-3.899
Ppplr2	-0.549	7.318	-2.335	0.032	0.148	-3.900
Rb12	-0.535	6.050	-2.335	0.032	0.148	-3.900
Kirrel	-0.306	2.992	-2.335	0.032	0.148	-3.900
Ythdc2	0.478	6.952	2.335	0.032	0.148	-3.900
Kcnh1	-0.497	5.444	-2.335	0.032	0.148	-3.901
Gm8615	-0.604	6.594	-2.335	0.032	0.148	-3.901

Neil3	-0.390	3.879	-2.334	0.032	0.148	-3.901
I15	-0.271	3.182	-2.334	0.032	0.148	-3.901
Ctage5	-0.304	8.626	-2.334	0.032	0.148	-3.901
Usp8	-0.382	8.005	-2.334	0.032	0.148	-3.901
Phf7	-0.402	5.962	-2.334	0.032	0.148	-3.901
Mark4	-0.343	5.206	-2.334	0.032	0.148	-3.902
Gm5463	-0.366	4.840	-2.334	0.032	0.148	-3.902
Ubqln2	-0.481	5.072	-2.334	0.032	0.148	-3.902
Pttglip	-0.364	12.068	-2.333	0.032	0.148	-3.903
Cntnap4	-0.437	3.668	-2.333	0.032	0.148	-3.903
5430440L12Rik	-0.476	5.750	-2.333	0.032	0.148	-3.904
Rapegf1	-0.422	4.258	-2.333	0.032	0.148	-3.904
Mpp7	-1.080	4.661	-2.332	0.032	0.148	-3.905
Prdm4	0.344	7.154	2.332	0.032	0.148	-3.905
Clqtnf4	-0.609	4.078	-2.332	0.032	0.148	-3.906
Hamp2	-2.995	9.201	-2.332	0.032	0.148	-3.906
Shq1	0.593	5.410	2.331	0.032	0.148	-3.906
Cds2	-0.421	6.475	-2.331	0.032	0.148	-3.906
Nudt17	-0.492	5.092	-2.331	0.032	0.148	-3.907
Ccr3	-0.349	2.835	-2.331	0.032	0.148	-3.907
D3Ertd229e	-0.289	2.795	-2.331	0.032	0.148	-3.907
4933431I19Rik	-0.362	3.272	-2.330	0.032	0.149	-3.909
Als2cr12	-0.531	4.686	-2.330	0.032	0.149	-3.909
Trav12n-1	-0.434	3.631	-2.330	0.032	0.149	-3.909
Ppml1d	-0.414	6.462	-2.330	0.032	0.149	-3.909
Rsad1	-0.338	2.687	-2.329	0.032	0.149	-3.910
Trmt11	0.645	6.739	2.329	0.032	0.149	-3.910
Ccdc66	-0.381	6.564	-2.329	0.032	0.149	-3.911
Rasgrp1	-0.457	3.780	-2.328	0.032	0.149	-3.912
Slc38a10	-0.352	9.356	-2.328	0.032	0.149	-3.912
Myadm	0.573	10.521	2.328	0.032	0.149	-3.913
Dnajc10	0.546	9.724	2.328	0.032	0.149	-3.913
1700086L19Rik	-0.419	3.702	-2.327	0.032	0.149	-3.914
Rps41	0.464	8.790	2.327	0.032	0.149	-3.914
Tesk2	-0.571	4.711	-2.327	0.032	0.149	-3.914
Omg	-0.543	5.898	-2.327	0.032	0.149	-3.915
Bin1	-0.351	4.757	-2.327	0.032	0.149	-3.915
St3gal2	-0.421	3.972	-2.327	0.032	0.149	-3.915
Spock3	-0.303	2.132	-2.326	0.032	0.149	-3.916
Amz2	-0.379	7.682	-2.326	0.032	0.149	-3.916
Lrrc4	-0.787	5.761	-2.326	0.032	0.149	-3.916
Vps13c	-0.484	4.368	-2.326	0.032	0.149	-3.916
Rsl1	-0.354	3.160	-2.326	0.032	0.149	-3.916
Tbc1d24	-0.277	2.916	-2.325	0.032	0.149	-3.918
Sh3yl1	-0.293	8.678	-2.325	0.033	0.150	-3.919
9430021M05Rik	-0.381	3.693	-2.324	0.033	0.150	-3.920
1700001L19Rik	-0.306	3.642	-2.324	0.033	0.150	-3.920
Als2	-0.320	6.495	-2.323	0.033	0.150	-3.921
6530409C15Rik	-0.409	4.169	-2.323	0.033	0.150	-3.921
Hoxa7	-0.391	5.500	-2.323	0.033	0.150	-3.921

Fam26d	-0.209	2.810	-2.323	0.033	0.150	-3.922
AU021760	-0.403	3.709	-2.323	0.033	0.150	-3.922
Gdf2	-0.273	5.798	-2.323	0.033	0.150	-3.922
Hist1h3b	-1.137	5.457	-2.323	0.033	0.150	-3.922
Zfp341	-0.272	4.575	-2.322	0.033	0.150	-3.922
1700006E09Rik	-0.288	2.350	-2.322	0.033	0.150	-3.923
Ube2c	0.666	9.569	2.322	0.033	0.150	-3.924
Gm3244	-0.406	10.636	-2.321	0.033	0.150	-3.924
Pcdh11x	-0.302	2.510	-2.321	0.033	0.150	-3.924
Gnb1	0.256	9.989	2.321	0.033	0.150	-3.925
Sgca	-0.333	5.167	-2.321	0.033	0.150	-3.926
Prkrir	-0.389	8.159	-2.321	0.033	0.150	-3.926
1810043G02Rik	-0.318	5.482	-2.320	0.033	0.150	-3.926
Cdh16	-0.317	4.043	-2.320	0.033	0.150	-3.926
2900012M01Rik	-0.399	3.232	-2.320	0.033	0.150	-3.927
Cat	-1.110	8.868	-2.320	0.033	0.150	-3.927
A530047J11Rik	-0.524	2.860	-2.320	0.033	0.150	-3.927
Gm4491	-0.244	2.251	-2.320	0.033	0.150	-3.927
Ky	-0.341	2.974	-2.319	0.033	0.150	-3.928
Kcnb1	-0.404	4.331	-2.319	0.033	0.151	-3.929
Fzd6	-0.387	8.187	-2.319	0.033	0.151	-3.929
Osgep11	-0.600	5.752	-2.318	0.033	0.151	-3.930
Rbms1	0.791	8.445	2.317	0.033	0.151	-3.932
2210016H18Rik	-0.556	8.962	-2.317	0.033	0.151	-3.932
4930442G10Rik	-0.313	3.088	-2.317	0.033	0.151	-3.933
Emx2os	-0.291	3.709	-2.317	0.033	0.151	-3.933
Tspan7	-0.398	6.297	-2.317	0.033	0.151	-3.933
4933430H16Rik	-0.254	3.396	-2.316	0.033	0.151	-3.934
Rimbp2	-0.424	5.161	-2.316	0.033	0.151	-3.934
Lin9	0.504	3.446	2.316	0.033	0.151	-3.934
Krt8	0.209	13.983	2.316	0.033	0.151	-3.935
B230369F24Rik	-0.316	2.531	-2.315	0.033	0.151	-3.935
Dis3	0.667	6.826	2.315	0.033	0.151	-3.935
Serpina11	-0.356	5.351	-2.315	0.033	0.151	-3.935
Rbm6	-0.385	6.567	-2.315	0.033	0.151	-3.935
Hoxc8	-0.365	2.423	-2.315	0.033	0.151	-3.936
Myrf	-0.280	10.533	-2.315	0.033	0.151	-3.936
Ppp4r4	-0.422	3.771	-2.315	0.033	0.151	-3.936
Eya2	0.418	7.836	2.315	0.033	0.151	-3.936
Igdcc3	-0.463	3.283	-2.314	0.033	0.151	-3.937
1700039E15Rik	-0.404	4.162	-2.314	0.033	0.151	-3.938
Pcsk2	-0.356	2.734	-2.313	0.033	0.151	-3.939
5830432E09Rik	-0.313	3.306	-2.313	0.033	0.151	-3.939
Sh3gl1	-0.278	6.802	-2.313	0.033	0.151	-3.939
Snx31	-0.303	3.551	-2.313	0.033	0.151	-3.939
Cyth1	0.263	7.628	2.313	0.033	0.151	-3.939
S100g	2.435	5.487	2.313	0.033	0.151	-3.940
Ddx21	0.486	7.300	2.313	0.033	0.151	-3.940
Nt5e	-0.537	7.034	-2.312	0.033	0.152	-3.940
Proscos	-0.351	4.047	-2.312	0.033	0.152	-3.941

LOC432842	-0.304	4.564	-2.312	0.033	0.152	-3.941
1700018M17Rik	-0.382	4.657	-2.312	0.033	0.152	-3.942
Wnt2	-0.354	3.880	-2.311	0.033	0.152	-3.943
Setd5	0.597	6.756	2.311	0.033	0.152	-3.943
Camk2d	0.356	7.411	2.311	0.033	0.152	-3.943
Lhfp14	-0.293	4.029	-2.311	0.033	0.152	-3.943
Egln1	-0.405	8.151	-2.311	0.033	0.152	-3.944
1700120E14Rik	-0.357	3.153	-2.311	0.033	0.152	-3.944
4932442L08Rik	-0.380	2.851	-2.310	0.033	0.152	-3.944
C77614	-0.366	3.444	-2.310	0.033	0.152	-3.944
Izumo4	-0.488	5.873	-2.310	0.034	0.152	-3.946
2210408I21Rik	-0.333	3.455	-2.309	0.034	0.152	-3.946
Elmod1	-0.312	2.813	-2.309	0.034	0.152	-3.946
Cdkn1a	0.539	8.446	2.309	0.034	0.152	-3.947
11-Mar	-0.306	2.826	-2.309	0.034	0.152	-3.947
Sftpc	-0.514	4.533	-2.309	0.034	0.152	-3.947
Cmpk1	0.486	11.809	2.308	0.034	0.152	-3.947
Atp6v1e2	-0.393	3.190	-2.308	0.034	0.152	-3.948
Orc6	0.597	6.270	2.308	0.034	0.152	-3.948
Armc12	-0.331	4.427	-2.308	0.034	0.152	-3.948
Calcr1	-0.436	3.197	-2.308	0.034	0.152	-3.949
4930538K18Rik	-0.405	3.056	-2.308	0.034	0.152	-3.949
Col4a6	-0.341	4.744	-2.307	0.034	0.152	-3.949
Hivep3	-0.413	4.483	-2.307	0.034	0.152	-3.950
St3gal4	1.717	6.882	2.307	0.034	0.152	-3.950
Olf154	-0.410	3.312	-2.307	0.034	0.152	-3.950
Qsox1	0.916	9.501	2.307	0.034	0.152	-3.951
Mypop	-0.475	5.457	-2.307	0.034	0.152	-3.951
C920006011Rik	-0.431	5.808	-2.306	0.034	0.152	-3.951
Npm3	1.018	5.875	2.306	0.034	0.152	-3.952
9630005C17Rik	-0.510	3.863	-2.306	0.034	0.153	-3.953
8430419L09Rik	-0.636	8.068	-2.305	0.034	0.153	-3.953
Tgfb1l1	-0.524	6.750	-2.305	0.034	0.153	-3.954
5830431M20Rik	-0.339	3.045	-2.305	0.034	0.153	-3.954
Snx3	-0.371	10.871	-2.305	0.034	0.153	-3.954
Pdzd11	-0.313	8.421	-2.304	0.034	0.153	-3.955
Tmem183a	0.316	8.854	2.304	0.034	0.153	-3.955
Gm10034	-0.415	5.121	-2.304	0.034	0.153	-3.955
Mier2	0.356	5.970	2.304	0.034	0.153	-3.955
Prss55	-0.354	5.109	-2.304	0.034	0.153	-3.955
Gjb3	-0.254	4.341	-2.304	0.034	0.153	-3.955
Depdc7	-0.995	4.435	-2.304	0.034	0.153	-3.956
D830025C05Rik	-0.375	4.256	-2.304	0.034	0.153	-3.956
4930419G24Rik	-0.440	4.896	-2.304	0.034	0.153	-3.956
4933417C20Rik	-0.369	3.396	-2.303	0.034	0.153	-3.957
Neb1	1.293	5.326	2.303	0.034	0.153	-3.957
Slc2a10	-0.550	7.360	-2.303	0.034	0.153	-3.957
Adat2	0.621	6.103	2.303	0.034	0.153	-3.958
Tslp	-0.365	2.828	-2.303	0.034	0.153	-3.958
Znrf3	-0.591	6.958	-2.303	0.034	0.153	-3.958

Lgals1	-1.109	7.922	-2.302	0.034	0.153	-3.958
Zgpat	-0.364	6.966	-2.302	0.034	0.153	-3.959
Tnp1	-0.301	2.671	-2.302	0.034	0.153	-3.959
4933438B17Rik	-0.329	4.294	-2.302	0.034	0.153	-3.959
Tecr	-0.356	10.227	-2.302	0.034	0.153	-3.959
Spata4	-0.304	3.325	-2.302	0.034	0.153	-3.959
Cenpa	-0.445	2.868	-2.302	0.034	0.153	-3.960
4933430H06Rik	-0.277	3.226	-2.301	0.034	0.153	-3.960
Cyp2d26	1.505	6.413	2.301	0.034	0.153	-3.960
LOC101056011	-0.368	5.280	-2.301	0.034	0.153	-3.960
Fbx17	-0.331	4.248	-2.301	0.034	0.153	-3.960
Rpe65	-0.445	4.047	-2.300	0.034	0.153	-3.962
Lbx2	-0.497	3.747	-2.300	0.034	0.153	-3.963
Mptx1	-0.283	2.551	-2.300	0.034	0.153	-3.963
Hes5	-0.459	3.960	-2.299	0.034	0.154	-3.964
4930550C14Rik	-0.304	2.470	-2.299	0.034	0.154	-3.964
Spdya	-0.307	2.419	-2.299	0.034	0.154	-3.965
Zmym5	0.539	7.623	2.298	0.034	0.154	-3.966
Ushbp1	-0.388	4.233	-2.298	0.034	0.154	-3.966
Tdrd12	-0.360	3.299	-2.298	0.034	0.154	-3.966
2700029M09Rik	0.343	9.084	2.297	0.034	0.154	-3.968
Il1rap12	-0.384	3.300	-2.297	0.034	0.154	-3.968
Kcnmb1	-0.397	3.537	-2.296	0.034	0.154	-3.969
Fshr	-0.384	4.989	-2.296	0.034	0.154	-3.969
Lamp5	-0.392	3.053	-2.296	0.034	0.154	-3.969
Zzef1	0.329	7.258	2.296	0.034	0.154	-3.969
Ifitm5	-0.267	5.336	-2.296	0.034	0.154	-3.970
Nup54	0.384	4.033	2.296	0.034	0.154	-3.970
4930593A02Rik	-0.325	3.717	-2.296	0.034	0.154	-3.970
Tctel	-0.311	3.164	-2.296	0.034	0.154	-3.971
Atf6	-0.281	7.362	-2.296	0.034	0.154	-3.971
Srsf7	0.434	7.145	2.295	0.034	0.154	-3.971
D10Wsu159e	-0.401	2.770	-2.295	0.034	0.154	-3.971
Galnt16	-0.352	6.385	-2.295	0.034	0.154	-3.971
Dgcr8	-0.275	4.557	-2.295	0.034	0.154	-3.971
Nnt	-0.819	7.663	-2.295	0.035	0.154	-3.972
Trdn	-0.339	2.882	-2.295	0.035	0.154	-3.972
Gm732	-0.304	2.644	-2.294	0.035	0.154	-3.973
Hmox1	0.573	6.133	2.294	0.035	0.154	-3.973
Vma21	-0.872	6.857	-2.294	0.035	0.154	-3.974
Lceli	-0.652	7.191	-2.293	0.035	0.154	-3.974
Gm5485	-0.633	5.549	-2.293	0.035	0.155	-3.975
Wdr17	-0.294	2.463	-2.293	0.035	0.155	-3.976
Stk38	0.408	9.962	2.292	0.035	0.155	-3.976
Tgs1	0.372	7.577	2.292	0.035	0.155	-3.977
Gm8203	0.369	11.888	2.292	0.035	0.155	-3.977
Naalad12	-0.365	4.001	-2.292	0.035	0.155	-3.977
Sik1	-0.347	5.156	-2.292	0.035	0.155	-3.978
Nlrp5-ps	-0.377	2.846	-2.291	0.035	0.155	-3.978
Dnmt1	0.412	7.832	2.291	0.035	0.155	-3.979

Med12	0.363	6.874	2.291	0.035	0.155	-3.979
Nlr1	0.597	6.541	2.290	0.035	0.155	-3.980
Mmrn2	-0.443	5.454	-2.290	0.035	0.155	-3.980
Glpr111	-0.212	2.369	-2.290	0.035	0.155	-3.980
Bmp6	-0.645	4.061	-2.290	0.035	0.155	-3.980
5830440H09Rik	-0.410	4.824	-2.290	0.035	0.155	-3.981
Tbcd10b	0.329	9.149	2.290	0.035	0.155	-3.981
Pplr3g	-0.325	2.895	-2.289	0.035	0.155	-3.982
Clu	0.453	12.898	2.289	0.035	0.155	-3.982
Ern2	1.285	8.676	2.289	0.035	0.155	-3.983
Dhrs2	-0.341	3.570	-2.289	0.035	0.155	-3.983
4930524C18Rik	-0.505	2.857	-2.288	0.035	0.155	-3.983
Natd1	-0.331	7.071	-2.288	0.035	0.155	-3.983
Taf1b	-0.461	5.425	-2.288	0.035	0.155	-3.984
Prrt4	-0.454	3.903	-2.288	0.035	0.155	-3.984
Vmlr53	-0.435	2.793	-2.288	0.035	0.155	-3.984
Aggf1	0.271	8.341	2.288	0.035	0.155	-3.984
Osbp2	-0.331	5.124	-2.287	0.035	0.155	-3.985
Vimp	0.369	9.514	2.287	0.035	0.155	-3.985
Ndufa9	-0.294	10.850	-2.287	0.035	0.155	-3.986
C77648	1.077	4.409	2.287	0.035	0.155	-3.986
1700023E05Rik	-0.338	4.301	-2.287	0.035	0.155	-3.986
Ipo7	1.141	4.214	2.287	0.035	0.155	-3.986
Rps11	0.230	12.835	2.287	0.035	0.155	-3.986
Cks2	0.528	9.111	2.287	0.035	0.156	-3.987
Fgfr3	-0.496	5.577	-2.286	0.035	0.156	-3.987
LOC102636518	-0.375	3.955	-2.286	0.035	0.156	-3.987
Scara5	-0.412	4.636	-2.286	0.035	0.156	-3.987
2410124H12Rik	-0.414	4.141	-2.286	0.035	0.156	-3.988
Fam131b	-0.307	4.393	-2.286	0.035	0.156	-3.988
D19Ert409e	1.347	6.538	2.286	0.035	0.156	-3.988
BC042727	-0.276	2.796	-2.285	0.035	0.156	-3.989
Lrrc63	-0.304	3.137	-2.285	0.035	0.156	-3.990
Cort	-0.348	6.191	-2.285	0.035	0.156	-3.990
Cry2	-0.679	6.408	-2.284	0.035	0.156	-3.991
Cdk13	-0.259	3.122	-2.284	0.035	0.156	-3.991
Cdc42ep2	-0.380	8.070	-2.284	0.035	0.156	-3.991
Slc35d1	0.437	8.632	2.283	0.035	0.156	-3.993
Kif21b	-0.332	3.040	-2.283	0.035	0.156	-3.994
Srrm2	0.551	7.639	2.282	0.035	0.156	-3.994
Gm11559	-0.335	2.273	-2.282	0.035	0.156	-3.994
B430105G09Rik	-0.394	3.893	-2.282	0.035	0.156	-3.995
Armex1	-0.563	4.844	-2.282	0.035	0.156	-3.995
Bpifb3	-0.495	4.369	-2.282	0.035	0.156	-3.995
C78948	-0.320	2.897	-2.282	0.035	0.156	-3.996
Slc39a10	-0.688	7.808	-2.281	0.035	0.157	-3.996
Agr3	-0.374	2.748	-2.281	0.035	0.157	-3.997
Ar	-0.400	4.845	-2.281	0.036	0.157	-3.997
Agpat1	-0.437	5.851	-2.281	0.036	0.157	-3.997
Shisa7	-0.330	4.859	-2.280	0.036	0.157	-3.997

Cdh4	-0.357	3.367	-2.280	0.036	0.157	-3.998
Sf3b5	0.493	9.926	2.280	0.036	0.157	-3.998
Slc35a2	0.357	6.065	2.280	0.036	0.157	-3.998
4921525009Rik	-0.330	3.552	-2.280	0.036	0.157	-3.998
Clqb	1.726	7.102	2.280	0.036	0.157	-3.998
D530039A21Rik	-0.427	5.515	-2.280	0.036	0.157	-3.998
Tbata	-0.340	2.757	-2.280	0.036	0.157	-3.998
Uqcc2	-0.344	7.362	-2.280	0.036	0.157	-3.998
Farpl	-0.407	6.747	-2.280	0.036	0.157	-3.999
Iigpl	3.360	7.134	2.280	0.036	0.157	-3.999
Rpl8	0.313	12.443	2.279	0.036	0.157	-3.999
Gm17586	0.515	4.696	2.279	0.036	0.157	-4.000
Lcelh	-0.379	6.767	-2.279	0.036	0.157	-4.000
Meis1	0.891	5.562	2.279	0.036	0.157	-4.000
AI428898	-0.314	3.317	-2.279	0.036	0.157	-4.000
Zar1	-0.405	4.502	-2.279	0.036	0.157	-4.000
Fam178a	0.464	6.955	2.279	0.036	0.157	-4.001
C530008M17Rik	-0.448	4.347	-2.279	0.036	0.157	-4.001
Ephx3	-0.521	4.767	-2.278	0.036	0.157	-4.001
Osbp	-0.311	9.904	-2.278	0.036	0.157	-4.002
Acrbp	-0.232	7.736	-2.278	0.036	0.157	-4.002
Top2a	-0.417	3.638	-2.278	0.036	0.157	-4.002
Tex14	-0.321	3.486	-2.278	0.036	0.157	-4.002
Nkx3-1	-0.428	3.445	-2.277	0.036	0.157	-4.004
Trim44	-0.440	3.367	-2.277	0.036	0.157	-4.004
4933428L01Rik	-0.387	4.258	-2.277	0.036	0.157	-4.004
Ccnd1	0.488	9.002	2.277	0.036	0.157	-4.004
Ndufa13	-0.403	11.955	-2.276	0.036	0.157	-4.005
P2rx2	-0.328	4.574	-2.276	0.036	0.157	-4.005
Gm20559	1.048	6.590	2.276	0.036	0.157	-4.005
Clec4a2	-0.574	4.003	-2.275	0.036	0.157	-4.006
H2-D1	0.968	12.643	2.275	0.036	0.157	-4.007
1700019L03Rik	-0.254	2.732	-2.275	0.036	0.157	-4.007
Gm16491	-0.328	3.590	-2.275	0.036	0.157	-4.007
Adh7	-1.325	8.093	-2.274	0.036	0.157	-4.008
Clec7a	1.913	7.678	2.274	0.036	0.157	-4.009
Racgap1	0.735	6.745	2.274	0.036	0.157	-4.009
Fbxo36	-0.470	6.624	-2.274	0.036	0.158	-4.009
Phkb	-0.453	8.003	-2.274	0.036	0.158	-4.010
Dtnb	-0.382	5.590	-2.274	0.036	0.158	-4.010
I54	-0.404	3.577	-2.273	0.036	0.158	-4.010
Vps37b	0.315	7.805	2.273	0.036	0.158	-4.010
Hoxb9	-0.374	4.086	-2.273	0.036	0.158	-4.010
A430108G06Rik	-0.342	2.676	-2.273	0.036	0.158	-4.011
Atp5c1	-0.300	11.904	-2.273	0.036	0.158	-4.011
4933439G19Rik	-0.395	3.418	-2.272	0.036	0.158	-4.012
Dip2a	-0.262	5.637	-2.272	0.036	0.158	-4.012
1700042G07Rik	-0.312	4.237	-2.272	0.036	0.158	-4.012
Taspl	-0.634	6.082	-2.272	0.036	0.158	-4.012
Clpp	-0.477	8.350	-2.272	0.036	0.158	-4.012

Brs3	-0.331	4.689	-2.272	0.036	0.158	-4.012
Mbd5	0.553	6.294	2.272	0.036	0.158	-4.013
Map1s	0.388	6.568	2.272	0.036	0.158	-4.013
Pik3ip1	0.429	5.592	2.271	0.036	0.158	-4.013
Rabep2	-0.374	5.284	-2.271	0.036	0.158	-4.013
Cep5711	-0.348	4.171	-2.271	0.036	0.158	-4.014
Gm10804	-0.456	4.227	-2.271	0.036	0.158	-4.014
Ddx25	-0.330	3.739	-2.271	0.036	0.158	-4.014
Gm4604	0.324	12.496	2.271	0.036	0.158	-4.014
Cldn2	2.798	8.444	2.270	0.036	0.158	-4.015
Zfp53	0.988	5.001	2.270	0.036	0.158	-4.015
Rpn1	0.366	11.521	2.270	0.036	0.158	-4.015
Calca	-0.395	3.156	-2.270	0.036	0.158	-4.015
Clec21	-0.299	5.280	-2.270	0.036	0.158	-4.016
Actr8	-0.288	7.058	-2.270	0.036	0.158	-4.016
Cdc51	-0.639	8.385	-2.270	0.036	0.158	-4.016
Cdr21	-0.371	4.963	-2.269	0.036	0.158	-4.017
Tfap2e	-0.355	2.897	-2.269	0.036	0.158	-4.017
Cdca2	0.628	6.645	2.268	0.036	0.158	-4.019
A730054J21Rik	-0.503	3.390	-2.268	0.036	0.158	-4.019
Slc16a12	-0.388	3.077	-2.268	0.036	0.158	-4.019
Creb5	-0.254	3.056	-2.268	0.036	0.158	-4.020
Gpr143	-0.484	3.632	-2.268	0.036	0.158	-4.020
5330439A09Rik	-0.370	2.943	-2.267	0.036	0.158	-4.021
Tgtp1	3.639	9.400	2.267	0.036	0.158	-4.021
Fam133b	0.261	7.005	2.267	0.036	0.158	-4.021
Hapln4	-0.792	5.202	-2.267	0.036	0.158	-4.021
Elk1	-0.413	4.392	-2.267	0.037	0.158	-4.022
Kcns1	-0.408	3.972	-2.266	0.037	0.159	-4.022
Syt6	-0.330	2.441	-2.266	0.037	0.159	-4.023
Tbx5	-0.297	3.272	-2.266	0.037	0.159	-4.023
Ampd1	-0.422	3.578	-2.266	0.037	0.159	-4.023
Rbm46	-0.286	2.188	-2.265	0.037	0.159	-4.024
Spata21	-0.412	5.360	-2.265	0.037	0.159	-4.025
6430571L13Rik	-0.331	3.188	-2.265	0.037	0.159	-4.025
Adh6-ps1	-0.267	2.637	-2.264	0.037	0.159	-4.026
Brk1	0.329	10.006	2.264	0.037	0.159	-4.027
Fam83h	0.516	5.695	2.264	0.037	0.159	-4.027
Fscn3	-0.364	4.051	-2.263	0.037	0.159	-4.028
Trim62	-0.602	6.704	-2.263	0.037	0.159	-4.028
Cd151	-0.541	5.081	-2.263	0.037	0.159	-4.028
Pcdh12	-0.400	3.680	-2.263	0.037	0.159	-4.028
Zfp651	-0.395	5.850	-2.263	0.037	0.159	-4.029
Adh6b	-0.323	5.166	-2.263	0.037	0.159	-4.029
Styk1	0.470	7.907	2.263	0.037	0.159	-4.029
2610028L16Rik	1.263	5.137	2.263	0.037	0.159	-4.029
1700082C02Rik	-0.281	2.193	-2.262	0.037	0.159	-4.029
Serf2	-0.468	9.332	-2.262	0.037	0.159	-4.030
Gnao1	-0.371	4.320	-2.262	0.037	0.159	-4.030
Adra2c	-0.365	5.123	-2.262	0.037	0.159	-4.030

LOC102636754	-0.360	3.443	-2.262	0.037	0.159	-4.031
Scrt1	-0.406	3.184	-2.261	0.037	0.159	-4.032
Rundc1	0.261	8.389	2.261	0.037	0.160	-4.032
Sox3	-0.322	3.113	-2.261	0.037	0.160	-4.032
Ptprz1	-0.275	2.411	-2.259	0.037	0.160	-4.035
D430040D24Rik	-0.394	4.308	-2.259	0.037	0.160	-4.035
Mmp13	1.177	4.025	2.259	0.037	0.160	-4.036
Tmem87b	-0.619	5.922	-2.259	0.037	0.160	-4.036
Pdik11	-0.450	5.632	-2.259	0.037	0.160	-4.036
Gm6277	-0.365	4.259	-2.258	0.037	0.160	-4.037
Trim75	-0.282	3.030	-2.258	0.037	0.160	-4.037
Ndufv2	-0.373	11.451	-2.258	0.037	0.160	-4.037
Mapkbp1	-0.340	5.822	-2.258	0.037	0.160	-4.037
Parp11	0.872	7.231	2.258	0.037	0.160	-4.037
C85319	-0.408	2.954	-2.258	0.037	0.160	-4.037
Ceacam10	1.444	8.861	2.257	0.037	0.160	-4.039
Ilk	-0.406	8.049	-2.257	0.037	0.160	-4.039
2900006B11Rik	-0.365	3.395	-2.257	0.037	0.160	-4.040
Asb8	-0.242	7.758	-2.256	0.037	0.160	-4.040
Zfp941	-0.418	3.563	-2.256	0.037	0.160	-4.040
Nkrf	0.548	6.319	2.256	0.037	0.160	-4.041
Abhd3	-1.304	6.542	-2.256	0.037	0.160	-4.041
Hsf4	-0.337	4.414	-2.256	0.037	0.160	-4.041
AK050197	-0.463	3.409	-2.256	0.037	0.160	-4.041
Anxa8	1.798	6.958	2.255	0.037	0.161	-4.042
Oprd1	-0.259	2.972	-2.255	0.037	0.161	-4.042
Ssbp3	-0.445	6.771	-2.255	0.037	0.161	-4.042
Nespas	-0.311	3.544	-2.255	0.037	0.161	-4.043
Clec11a	-0.394	4.944	-2.255	0.037	0.161	-4.043
Slc26a11	-0.433	5.138	-2.255	0.037	0.161	-4.043
Pdlim7	-0.471	6.720	-2.255	0.037	0.161	-4.043
Gm7285	0.427	12.095	2.255	0.037	0.161	-4.043
Cercam	-0.300	4.256	-2.254	0.037	0.161	-4.044
Zfp691	-0.370	7.160	-2.254	0.037	0.161	-4.044
Grpel2	-0.356	6.693	-2.254	0.037	0.161	-4.044
Dse	0.315	2.444	2.254	0.037	0.161	-4.045
Olfir870	-0.377	3.549	-2.254	0.037	0.161	-4.045
Atad2	0.609	7.730	2.254	0.037	0.161	-4.045
5830433D23Rik	-0.428	4.128	-2.254	0.037	0.161	-4.045
Acsf2	-0.309	6.105	-2.253	0.037	0.161	-4.045
Nipbl	-1.329	7.661	-2.253	0.038	0.161	-4.047
C80171	-0.257	3.473	-2.252	0.038	0.161	-4.047
2700089E24Rik	-0.331	4.388	-2.252	0.038	0.161	-4.049
4921518B13Rik	-0.396	4.536	-2.251	0.038	0.161	-4.049
Psm2	0.396	10.762	2.251	0.038	0.161	-4.049
Cnep1r1	0.253	8.847	2.251	0.038	0.161	-4.049
Xrcc4	-0.309	6.192	-2.251	0.038	0.161	-4.050
Pik3c2a	-0.302	8.418	-2.250	0.038	0.162	-4.051
Gpr125	-0.324	8.562	-2.250	0.038	0.162	-4.052
Sun1	-0.300	8.600	-2.250	0.038	0.162	-4.052

Ugdh	-0.422	11.463	-2.250	0.038	0.162	-4.052
D8Ert575e	-0.283	2.234	-2.250	0.038	0.162	-4.052
Txlnb	-0.273	2.288	-2.249	0.038	0.162	-4.052
Ly6g6c	-0.629	6.876	-2.249	0.038	0.162	-4.053
4932438H23Rik	-0.459	4.338	-2.249	0.038	0.162	-4.053
BC048679	-0.265	2.988	-2.249	0.038	0.162	-4.053
Thumpd1	0.377	7.059	2.249	0.038	0.162	-4.054
Muc13	1.425	6.856	2.249	0.038	0.162	-4.054
Uapl	0.452	9.363	2.248	0.038	0.162	-4.055
Tfap4	0.452	4.881	2.248	0.038	0.162	-4.055
Ms4a7	0.928	6.072	2.247	0.038	0.162	-4.056
Brwd3	0.420	5.865	2.247	0.038	0.162	-4.056
Slc7a7	0.421	6.925	2.247	0.038	0.162	-4.057
1700017L05Rik	-0.312	2.714	-2.247	0.038	0.162	-4.057
Wdr7	-0.403	7.776	-2.247	0.038	0.162	-4.057
Arrb2	0.650	6.603	2.247	0.038	0.162	-4.058
Asrgl1	-0.387	5.356	-2.246	0.038	0.162	-4.058
Ppwd1	0.446	4.513	2.246	0.038	0.162	-4.058
Rmnd5b	-0.266	7.382	-2.246	0.038	0.162	-4.059
Actl6a	0.395	7.552	2.246	0.038	0.162	-4.059
BC047062	-0.413	4.163	-2.245	0.038	0.162	-4.060
Cd40	0.700	4.542	2.245	0.038	0.162	-4.060
B9d1	0.695	6.348	2.245	0.038	0.162	-4.060
Gm2590	1.750	6.129	2.245	0.038	0.162	-4.060
Ptgr2	-0.396	5.607	-2.245	0.038	0.162	-4.061
Prr13	0.280	12.112	2.245	0.038	0.162	-4.061
Dopey2	-0.472	9.082	-2.245	0.038	0.162	-4.061
Sf3a3	0.526	7.836	2.245	0.038	0.162	-4.061
Syn1	-0.475	5.460	-2.245	0.038	0.162	-4.061
Scn7a	-0.362	3.624	-2.245	0.038	0.162	-4.061
Cnot61	0.532	9.406	2.244	0.038	0.162	-4.062
Rrs1	0.629	8.122	2.244	0.038	0.162	-4.062
Trem11	-0.396	4.871	-2.244	0.038	0.162	-4.062
1700008N17Rik	-0.299	3.116	-2.244	0.038	0.163	-4.063
B430319H21Rik	-0.352	4.690	-2.244	0.038	0.163	-4.063
BC021891	-0.354	6.093	-2.243	0.038	0.163	-4.063
Tmem132a	0.317	5.864	2.243	0.038	0.163	-4.063
Sez61	-0.324	3.791	-2.243	0.038	0.163	-4.064
9630002A11Rik	-0.341	3.773	-2.243	0.038	0.163	-4.064
Zbtb4	0.422	6.701	2.243	0.038	0.163	-4.065
Ankrd29	-0.305	2.257	-2.242	0.038	0.163	-4.065
Eny2	-0.570	6.395	-2.242	0.038	0.163	-4.065
6030438J01	-0.406	3.210	-2.242	0.038	0.163	-4.065
Zfp92	-0.380	4.164	-2.242	0.038	0.163	-4.065
Dpf3	-0.347	6.860	-2.242	0.038	0.163	-4.066
Mfn2	0.275	8.900	2.241	0.038	0.163	-4.067
Zfp87	-0.422	6.633	-2.241	0.038	0.163	-4.068
LOC102636733	-0.391	5.598	-2.241	0.038	0.163	-4.068
2610015P09Rik	-0.435	4.118	-2.240	0.038	0.163	-4.068
Nr0b2	-0.850	6.901	-2.240	0.038	0.163	-4.069

DXErttd223e	-0.309	3.504	-2.240	0.039	0.163	-4.070
Nr4a2	-0.351	5.052	-2.239	0.039	0.163	-4.070
4921515L22Rik	-0.480	4.176	-2.239	0.039	0.163	-4.071
Ccl7	-0.349	3.458	-2.239	0.039	0.163	-4.071
5430430K15Rik	-0.345	3.345	-2.239	0.039	0.163	-4.071
1700111E14Rik	-0.284	2.773	-2.239	0.039	0.163	-4.071
AI429214	-0.409	5.521	-2.239	0.039	0.163	-4.071
Rin1	0.534	3.866	2.239	0.039	0.163	-4.071
Arhgef1	0.561	8.215	2.239	0.039	0.163	-4.072
4921504E06Rik	-0.391	3.200	-2.238	0.039	0.163	-4.072
Klh135	-0.318	3.353	-2.238	0.039	0.163	-4.072
Stk33	-0.297	2.706	-2.238	0.039	0.163	-4.072
Prkg2	-0.317	3.195	-2.238	0.039	0.163	-4.072
H6pd	0.435	9.013	2.238	0.039	0.163	-4.073
Gml1992	-0.241	2.299	-2.237	0.039	0.164	-4.074
Polb	0.940	5.940	2.237	0.039	0.164	-4.074
Folh1	-0.258	2.313	-2.237	0.039	0.164	-4.074
Zfp775	-0.426	3.272	-2.237	0.039	0.164	-4.074
Gm4943	-0.401	10.482	-2.237	0.039	0.164	-4.075
Trim72	-0.374	3.667	-2.237	0.039	0.164	-4.075
Sema6c	-0.389	5.890	-2.236	0.039	0.164	-4.076
A430107P09Rik	-0.324	2.818	-2.236	0.039	0.164	-4.077
Armc5	0.337	6.612	2.236	0.039	0.164	-4.077
Foxn4	-0.399	5.861	-2.236	0.039	0.164	-4.077
5730488B01Rik	-0.310	4.182	-2.235	0.039	0.164	-4.077
Tap1	2.223	8.824	2.235	0.039	0.164	-4.077
Ephx1	-0.571	7.849	-2.235	0.039	0.164	-4.077
Tmem91	-0.359	3.716	-2.235	0.039	0.164	-4.077
2310058N22Rik	0.971	5.656	2.235	0.039	0.164	-4.077
9130221L21Rik	1.370	5.831	2.235	0.039	0.164	-4.078
Ktn1	-0.246	2.340	-2.235	0.039	0.164	-4.078
Rdh11	-0.772	6.340	-2.235	0.039	0.164	-4.078
Pck2	0.738	6.705	2.235	0.039	0.164	-4.079
Gnrhr	-0.337	2.587	-2.234	0.039	0.164	-4.079
Glyr1	0.443	9.430	2.234	0.039	0.164	-4.080
8030494B02Rik	1.226	4.506	2.233	0.039	0.164	-4.081
Dync2h1	-0.269	5.663	-2.233	0.039	0.164	-4.081
Lims2	-0.513	5.446	-2.233	0.039	0.164	-4.082
Pwp2	0.328	6.926	2.233	0.039	0.164	-4.082
Nkain4	-0.411	5.993	-2.233	0.039	0.164	-4.082
Atg4a	-0.457	7.213	-2.232	0.039	0.164	-4.082
Nox4	-0.338	2.749	-2.232	0.039	0.164	-4.083
AU022186	-0.372	3.057	-2.232	0.039	0.164	-4.083
Phgr1	0.643	8.475	2.232	0.039	0.164	-4.083
Oaf	0.592	6.763	2.231	0.039	0.165	-4.084
Tlx3	-0.425	4.574	-2.231	0.039	0.165	-4.084
Mlst8	-0.261	6.793	-2.231	0.039	0.165	-4.085
Nedd1	-0.543	5.819	-2.230	0.039	0.165	-4.086
Theg	-0.436	4.013	-2.230	0.039	0.165	-4.086
Fbxl18	-0.692	5.584	-2.230	0.039	0.165	-4.087

Tmem143	-0.283	4.239	-2.230	0.039	0.165	-4.087
Fam71f1	-0.452	5.443	-2.230	0.039	0.165	-4.087
Cacnalb	-0.269	5.287	-2.229	0.039	0.165	-4.088
Apcdd1	-0.293	3.299	-2.229	0.039	0.165	-4.088
5830434F19Rik	-0.304	3.007	-2.229	0.039	0.165	-4.088
Sardh	-0.449	6.060	-2.229	0.039	0.165	-4.089
Magt1	-0.598	8.252	-2.229	0.039	0.165	-4.089
Gpatch21	-0.342	6.590	-2.229	0.039	0.165	-4.089
Coprs	-0.624	6.755	-2.228	0.039	0.165	-4.090
Sec11a	0.388	10.305	2.228	0.039	0.165	-4.090
Prdx5	-0.550	10.203	-2.228	0.039	0.165	-4.090
1700066C05Rik	-0.376	3.243	-2.228	0.039	0.165	-4.091
Ube2u	-0.367	3.176	-2.227	0.039	0.165	-4.091
Ipo4	0.479	8.510	2.227	0.039	0.165	-4.091
Olf1r558	-0.271	3.670	-2.227	0.039	0.165	-4.091
Zfyve28	-0.303	4.288	-2.227	0.039	0.165	-4.092
Tram1	-0.271	11.058	-2.227	0.039	0.165	-4.092
Gm10796	-0.349	3.509	-2.227	0.039	0.165	-4.092
Scn5a	-0.343	3.892	-2.227	0.040	0.165	-4.092
Klf13	0.837	7.326	2.227	0.040	0.165	-4.092
D730005E14Rik	0.653	4.866	2.226	0.040	0.165	-4.093
Cd1d1	0.934	4.243	2.226	0.040	0.165	-4.093
Msemb	-0.299	2.667	-2.226	0.040	0.165	-4.093
Gm16055	-0.313	3.423	-2.226	0.040	0.165	-4.093
4930519D14Rik	-0.442	3.807	-2.226	0.040	0.165	-4.093
Tmem254a	-0.634	9.488	-2.226	0.040	0.165	-4.094
Cnp	0.793	7.604	2.225	0.040	0.166	-4.095
Ptbp3	0.395	6.248	2.225	0.040	0.166	-4.095
C2cd4c	-0.535	4.665	-2.225	0.040	0.166	-4.096
Zfp786	-0.305	3.463	-2.225	0.040	0.166	-4.096
AK079263	0.755	4.607	2.224	0.040	0.166	-4.097
C76614	-0.292	3.451	-2.224	0.040	0.166	-4.097
Nr2c2	-0.644	5.036	-2.224	0.040	0.166	-4.097
1700049E17Rik1	-0.424	3.219	-2.224	0.040	0.166	-4.098
Slc22a2	-0.349	3.191	-2.223	0.040	0.166	-4.098
Kif1b	-0.325	8.939	-2.223	0.040	0.166	-4.098
Abi2	-0.486	4.432	-2.223	0.040	0.166	-4.098
Gm9898	-0.261	2.507	-2.223	0.040	0.166	-4.098
Jam3	-0.386	4.082	-2.223	0.040	0.166	-4.099
Rbm18	-0.499	5.948	-2.223	0.040	0.166	-4.099
Gm8618	0.248	12.639	2.222	0.040	0.166	-4.100
Syvn1	0.281	8.577	2.222	0.040	0.166	-4.101
Mut	-0.447	8.896	-2.221	0.040	0.166	-4.102
2310015A10Rik	-0.343	4.506	-2.221	0.040	0.166	-4.102
Ddo	-1.478	5.884	-2.221	0.040	0.166	-4.102
Cc2d2b	-0.247	2.830	-2.221	0.040	0.166	-4.103
Prdm15	0.465	5.555	2.221	0.040	0.166	-4.103
Zfp558	-0.305	2.437	-2.221	0.040	0.166	-4.103
Lemd1	0.509	3.721	2.220	0.040	0.166	-4.104
Myo15b	0.611	7.970	2.220	0.040	0.167	-4.104

5230400M03Rik	0.697	4.769	2.219	0.040	0.167	-4.105
Gm16630	-0.461	3.604	-2.219	0.040	0.167	-4.106
Fam89a	-0.341	3.553	-2.219	0.040	0.167	-4.106
1700026H06Rik	-0.275	2.815	-2.218	0.040	0.167	-4.107
Dcaf17	-0.529	6.495	-2.218	0.040	0.167	-4.107
Zkscan1	-0.363	8.432	-2.218	0.040	0.167	-4.108
Zfp882	-0.305	2.778	-2.218	0.040	0.167	-4.108
Slc51a	-0.442	4.310	-2.217	0.040	0.167	-4.109
Mtmr10	-0.272	7.270	-2.217	0.040	0.167	-4.109
1700113H08Rik	-0.411	3.833	-2.217	0.040	0.167	-4.109
Cyfip2	0.841	4.411	2.216	0.040	0.167	-4.110
Prpf40a	0.549	7.079	2.216	0.040	0.167	-4.111
Isynal	-0.678	7.680	-2.216	0.040	0.167	-4.111
4632415L05Rik	-0.388	3.215	-2.216	0.040	0.167	-4.111
Phf2	-0.357	5.205	-2.216	0.040	0.167	-4.112
Tmem156	0.407	3.838	2.216	0.040	0.167	-4.112
Pgls	0.283	9.151	2.216	0.040	0.167	-4.112
Clqtnf7	-0.359	3.153	-2.215	0.040	0.168	-4.113
A930013F10Rik	1.161	4.281	2.215	0.040	0.168	-4.113
Hmgcl11	-0.452	3.680	-2.215	0.040	0.168	-4.113
Mir1931	1.334	5.606	2.215	0.040	0.168	-4.113
AU023762	-0.304	3.189	-2.214	0.041	0.168	-4.114
LOC100047123	-0.441	5.145	-2.214	0.041	0.168	-4.115
Nup37	0.679	7.411	2.214	0.041	0.168	-4.115
4930424E08Rik	-0.347	3.518	-2.214	0.041	0.168	-4.115
Gm5142	-0.533	3.904	-2.214	0.041	0.168	-4.115
1700001F09Rik	-0.301	2.472	-2.213	0.041	0.168	-4.116
2310061I04Rik	-0.306	9.321	-2.213	0.041	0.168	-4.116
1600025M17Rik	-0.358	2.919	-2.213	0.041	0.168	-4.116
0610010B08Rik	0.485	5.153	2.213	0.041	0.168	-4.116
Pnpla7	0.651	6.258	2.213	0.041	0.168	-4.117
Pir	0.565	7.147	2.213	0.041	0.168	-4.117
Msl2	0.562	5.786	2.212	0.041	0.168	-4.117
Tmem8c	-0.382	3.069	-2.212	0.041	0.168	-4.118
Pcyox1	-0.277	8.398	-2.212	0.041	0.168	-4.118
Layn	-0.496	5.046	-2.212	0.041	0.168	-4.118
S100a10	1.248	8.787	2.211	0.041	0.168	-4.119
1700020G03Rik	-0.556	3.838	-2.211	0.041	0.168	-4.121
Cox20	-0.473	9.835	-2.211	0.041	0.168	-4.121
Nudt4	-0.432	7.032	-2.210	0.041	0.169	-4.121
Ankfy1	0.326	9.132	2.210	0.041	0.169	-4.121
Ccdc183	-0.264	3.009	-2.210	0.041	0.169	-4.122
Pabpc4	0.425	8.369	2.209	0.041	0.169	-4.124
Vps41	-0.236	7.995	-2.208	0.041	0.169	-4.124
Mcf21	0.574	8.707	2.208	0.041	0.169	-4.125
10-Mar	-0.366	6.097	-2.208	0.041	0.169	-4.125
Areg	1.567	7.971	2.208	0.041	0.169	-4.125
Gdpd5	-0.437	7.547	-2.208	0.041	0.169	-4.125
Incenp	0.482	7.256	2.208	0.041	0.169	-4.125
Mfap4	-0.566	5.690	-2.208	0.041	0.169	-4.126

Spert	-0.298	4.676	-2.208	0.041	0.169	-4.126
5930427J20Rik	-0.353	4.292	-2.207	0.041	0.169	-4.127
Csnls2a	-0.325	2.490	-2.207	0.041	0.169	-4.127
Eid3	-0.284	2.495	-2.207	0.041	0.169	-4.127
B130019D13Rik	0.295	4.381	2.207	0.041	0.169	-4.127
Cog1	-0.283	8.146	-2.206	0.041	0.169	-4.128
Ap3b2	-0.272	4.762	-2.206	0.041	0.169	-4.128
4933437G19Rik	-0.321	3.141	-2.206	0.041	0.169	-4.129
Pitpnm2os1	-0.444	5.398	-2.206	0.041	0.169	-4.129
Mlh1	0.254	6.946	2.206	0.041	0.169	-4.129
Nckap5	-0.433	3.276	-2.206	0.041	0.169	-4.129
Mpc2	-0.437	10.243	-2.205	0.041	0.169	-4.130
9630021D06Rik	-0.308	2.521	-2.205	0.041	0.170	-4.130
Atp6v1d	-0.327	10.191	-2.205	0.041	0.170	-4.131
Cdrt4	-0.407	4.311	-2.204	0.041	0.170	-4.131
B830007D08Rik	1.419	4.302	2.204	0.041	0.170	-4.132
I133	0.857	10.266	2.204	0.041	0.170	-4.132
Pnpo	-0.297	8.781	-2.204	0.041	0.170	-4.132
Ppfia3	-0.511	4.909	-2.204	0.041	0.170	-4.133
Hscb	-0.514	6.870	-2.203	0.041	0.170	-4.133
4930432009Rik	-0.254	2.711	-2.203	0.041	0.170	-4.134
D230038C21	-0.325	2.988	-2.203	0.041	0.170	-4.134
Chchd2	-0.293	11.892	-2.203	0.041	0.170	-4.134
Gcnt3	0.372	9.633	2.203	0.041	0.170	-4.134
Crybg3	0.310	7.673	2.203	0.041	0.170	-4.135
Krtap19-1	-0.456	5.115	-2.202	0.041	0.170	-4.135
Ceacam2	-0.361	5.717	-2.202	0.041	0.170	-4.135
Rassf7	0.334	8.729	2.202	0.041	0.170	-4.135
Mlk1	1.059	8.271	2.202	0.042	0.170	-4.136
Inpp5e	-0.433	5.809	-2.201	0.042	0.170	-4.137
AU015536	2.182	7.055	2.201	0.042	0.170	-4.137
Gm11757	-0.374	3.922	-2.201	0.042	0.170	-4.137
Mertk	0.477	5.621	2.201	0.042	0.170	-4.137
Vdr	0.669	4.893	2.201	0.042	0.170	-4.138
Zfp874b	-0.392	3.322	-2.200	0.042	0.170	-4.139
Gm19784	-0.328	4.046	-2.200	0.042	0.170	-4.139
Cdc3711	0.299	7.247	2.200	0.042	0.171	-4.140
Rcan1	-0.545	8.487	-2.199	0.042	0.171	-4.141
2810404M03Rik	0.337	2.800	2.199	0.042	0.171	-4.141
Smpd13a	0.223	11.160	2.199	0.042	0.171	-4.141
Defb2	-0.367	4.340	-2.199	0.042	0.171	-4.142
D4Ertd58e	-0.254	3.058	-2.199	0.042	0.171	-4.142
D830039M14Rik	-0.309	3.103	-2.198	0.042	0.171	-4.142
Taf15	1.434	4.817	2.198	0.042	0.171	-4.142
C130050018Rik	-0.440	3.510	-2.198	0.042	0.171	-4.143
A830082K12Rik	-0.325	4.205	-2.198	0.042	0.171	-4.143
Cops8	0.406	8.400	2.198	0.042	0.171	-4.143
Eid2	-0.405	6.051	-2.198	0.042	0.171	-4.143
Gm15886	-0.389	2.782	-2.198	0.042	0.171	-4.143
Gins3	-0.416	5.539	-2.198	0.042	0.171	-4.143

A830082K12Rik	-0.477	4.241	-2.198	0.042	0.171	-4.143
Tlr9	-0.328	5.620	-2.197	0.042	0.171	-4.144
4933432I09Rik	-0.324	5.171	-2.197	0.042	0.171	-4.144
A930003A15Rik	-0.314	2.893	-2.197	0.042	0.171	-4.145
Gm14743	-0.307	2.554	-2.195	0.042	0.171	-4.147
Mogat1	-1.244	10.635	-2.195	0.042	0.171	-4.147
Acss1	0.464	9.917	2.195	0.042	0.171	-4.148
Tomm34	0.305	7.865	2.195	0.042	0.171	-4.148
E530011L22Rik	-0.351	5.082	-2.195	0.042	0.171	-4.148
Gm10817	-0.360	2.910	-2.195	0.042	0.171	-4.148
Rpl31	0.552	8.332	2.195	0.042	0.171	-4.149
Gm10421	-0.333	4.468	-2.194	0.042	0.171	-4.149
C78859	-0.386	4.590	-2.194	0.042	0.171	-4.149
Zfp276	0.629	5.827	2.194	0.042	0.171	-4.149
Dkk1	-0.391	3.519	-2.194	0.042	0.171	-4.149
Rasgef1a	-0.282	2.385	-2.194	0.042	0.171	-4.149
Rasgef1b	-0.423	8.402	-2.194	0.042	0.171	-4.149
F13a1	-0.468	4.098	-2.194	0.042	0.171	-4.150
Dgkk	-0.233	2.774	-2.193	0.042	0.172	-4.151
Espn	-0.775	5.338	-2.193	0.042	0.172	-4.151
Stap1	-0.321	3.684	-2.192	0.042	0.172	-4.152
Cysltrl	-0.308	2.914	-2.192	0.042	0.172	-4.153
Lrrc47	0.337	8.552	2.192	0.042	0.172	-4.153
St13	-0.545	5.304	-2.192	0.042	0.172	-4.153
Zcchc14	0.242	6.634	2.192	0.042	0.172	-4.154
Lhxlos	-0.366	2.713	-2.192	0.042	0.172	-4.154
Defb6	-0.323	3.057	-2.191	0.042	0.172	-4.155
Eif3d	0.382	10.283	2.191	0.042	0.172	-4.155
Rpl35	0.267	12.246	2.191	0.042	0.172	-4.155
Panx1	0.371	7.321	2.191	0.042	0.172	-4.155
4932702P03Rik	-0.362	4.668	-2.191	0.042	0.172	-4.155
Ppplr17	-0.272	2.713	-2.191	0.042	0.172	-4.155
Larp4b	0.289	10.336	2.190	0.042	0.172	-4.156
Manba	0.212	8.299	2.190	0.042	0.172	-4.156
Idua	-0.290	6.259	-2.190	0.043	0.172	-4.157
Aamp	0.188	9.940	2.190	0.043	0.172	-4.157
Rfxank	-0.492	6.558	-2.190	0.043	0.172	-4.157
Zmat5	-0.462	6.998	-2.190	0.043	0.172	-4.157
4932432N04Rik	-0.297	3.054	-2.190	0.043	0.172	-4.157
Tril	-0.488	3.327	-2.189	0.043	0.172	-4.157
Pdlim4	-1.514	8.130	-2.189	0.043	0.172	-4.158
D8Ertd56e	-0.270	2.774	-2.189	0.043	0.172	-4.158
Ldlr	0.579	9.628	2.189	0.043	0.172	-4.158
Csnk1g1	0.274	6.812	2.189	0.043	0.172	-4.158
Sumf1	0.380	7.335	2.189	0.043	0.172	-4.158
Ccnj	0.608	3.922	2.189	0.043	0.172	-4.158
Srbd1	-0.316	6.698	-2.189	0.043	0.172	-4.158
2410004P03Rik	-0.321	4.085	-2.189	0.043	0.172	-4.158
Nin1	0.506	2.958	2.189	0.043	0.172	-4.159
LOC553096	1.320	6.722	2.189	0.043	0.172	-4.159

Top2b	0.256	8.425	2.189	0.043	0.172	-4.159
Zfp825	-0.358	5.972	-2.189	0.043	0.172	-4.159
1700012B09Rik	-0.347	3.136	-2.188	0.043	0.172	-4.159
Slfn5os	-0.338	4.251	-2.188	0.043	0.172	-4.160
Dnm3	-0.273	3.475	-2.188	0.043	0.172	-4.160
Mad211	0.616	7.787	2.188	0.043	0.172	-4.161
Limk2	-0.312	7.369	-2.188	0.043	0.172	-4.161
Gm20300	-0.685	7.447	-2.188	0.043	0.172	-4.161
Xpo6	0.279	8.268	2.188	0.043	0.172	-4.161
Tmem218	-0.610	5.622	-2.187	0.043	0.172	-4.161
Tpp1	-0.328	7.975	-2.187	0.043	0.172	-4.161
Ubxn2a	-1.437	7.753	-2.187	0.043	0.173	-4.162
Slc6a16	-0.283	3.050	-2.186	0.043	0.173	-4.163
Pelo	0.314	6.448	2.186	0.043	0.173	-4.164
Akr1c12	-0.329	11.186	-2.186	0.043	0.173	-4.164
D1Ertd218e	-0.265	2.607	-2.186	0.043	0.173	-4.164
Ptchd4	-0.394	2.730	-2.185	0.043	0.173	-4.165
Cdc20	0.659	8.379	2.185	0.043	0.173	-4.165
Traf3ipl	0.382	5.265	2.185	0.043	0.173	-4.166
Pitx3	-0.359	4.368	-2.185	0.043	0.173	-4.166
Mettl5os	-0.292	2.769	-2.184	0.043	0.173	-4.166
Elavl2	-0.330	3.191	-2.184	0.043	0.173	-4.166
Mboat2	-0.806	8.896	-2.184	0.043	0.173	-4.167
Psmc5	0.285	10.283	2.184	0.043	0.173	-4.167
Mov10	0.917	6.646	2.184	0.043	0.173	-4.167
Pdhx	-0.401	7.308	-2.184	0.043	0.173	-4.167
Qrfpr	-0.273	2.303	-2.184	0.043	0.173	-4.168
Sftpal	-0.345	3.292	-2.184	0.043	0.173	-4.168
Nav1	0.543	6.414	2.183	0.043	0.173	-4.169
C79256	-0.233	2.175	-2.183	0.043	0.173	-4.169
Ubfd1	-0.365	5.958	-2.183	0.043	0.173	-4.169
Dcun1d5	0.443	7.902	2.182	0.043	0.173	-4.170
Slc7a6	0.325	7.033	2.182	0.043	0.174	-4.171
Snai2	0.355	4.683	2.182	0.043	0.174	-4.171
Gpr115	-0.344	2.568	-2.182	0.043	0.174	-4.171
Tekt2	-0.397	3.581	-2.181	0.043	0.174	-4.171
Rnf34	-0.315	7.505	-2.181	0.043	0.174	-4.171
Olfr66	-0.323	3.562	-2.181	0.043	0.174	-4.172
Acyp1	-0.585	6.944	-2.181	0.043	0.174	-4.172
AA386476	0.942	4.394	2.180	0.043	0.174	-4.173
9630013A20Rik	-0.252	2.253	-2.180	0.043	0.174	-4.173
Igkv5-39	0.424	2.794	2.180	0.043	0.174	-4.174
2810013P06Rik	-0.394	4.648	-2.180	0.043	0.174	-4.174
4833403J16Rik	-0.352	2.515	-2.180	0.043	0.174	-4.175
AU022238	-0.365	6.162	-2.179	0.043	0.174	-4.176
A830021M18Rik	-0.300	2.588	-2.179	0.043	0.174	-4.176
Mat2a	0.566	10.848	2.179	0.043	0.174	-4.176
Dus11	0.400	8.212	2.179	0.043	0.174	-4.176
4933404G15Rik	-0.327	3.936	-2.179	0.043	0.174	-4.176
Arl4a	-0.386	3.411	-2.178	0.043	0.174	-4.177

Pnlcd1	-0.331	4.201	-2.178	0.043	0.174	-4.177
4930405H06Rik	-0.374	3.511	-2.178	0.043	0.174	-4.177
Pdc12	-0.216	2.279	-2.178	0.044	0.174	-4.177
5730405A17Rik	-0.416	4.577	-2.178	0.044	0.174	-4.178
LOC102631806	-0.386	3.018	-2.178	0.044	0.174	-4.178
Tprgl	-0.338	10.096	-2.178	0.044	0.174	-4.178
Usp13	-0.268	4.219	-2.178	0.044	0.174	-4.178
4930505020Rik	-0.376	3.738	-2.177	0.044	0.174	-4.178
Stat5a	-0.518	7.594	-2.177	0.044	0.174	-4.179
4933402E13Rik	-0.289	2.578	-2.177	0.044	0.174	-4.179
H2-Ke6	-0.528	7.432	-2.177	0.044	0.174	-4.179
Hist1h2bc	-0.647	10.362	-2.177	0.044	0.174	-4.179
Wdr4	0.606	6.323	2.177	0.044	0.174	-4.179
Mcm9	-0.338	3.497	-2.177	0.044	0.174	-4.180
Rab2a	-0.251	10.550	-2.176	0.044	0.174	-4.180
Tbkbp1	-0.344	5.252	-2.176	0.044	0.174	-4.180
A230057D06Rik	-0.289	2.558	-2.176	0.044	0.174	-4.181
Pde10a	-0.265	5.656	-2.176	0.044	0.174	-4.181
Erh	0.354	9.698	2.176	0.044	0.174	-4.181
Ackr2	-0.349	4.049	-2.176	0.044	0.174	-4.181
Cntd1	-0.291	4.156	-2.176	0.044	0.174	-4.181
AF067061	-0.316	4.709	-2.176	0.044	0.174	-4.181
Cnpy1	-0.247	2.328	-2.175	0.044	0.175	-4.182
4930599N24Rik	-0.291	2.943	-2.175	0.044	0.175	-4.183
Ccdc89	-0.380	2.856	-2.175	0.044	0.175	-4.183
AA517562	-0.289	2.402	-2.175	0.044	0.175	-4.183
Map3k3	0.355	6.652	2.175	0.044	0.175	-4.183
Pgrmc2	-0.247	8.565	-2.174	0.044	0.175	-4.184
Amdhd2	0.548	7.205	2.174	0.044	0.175	-4.184
Gzme	-0.237	2.340	-2.174	0.044	0.175	-4.184
Arhgap30	0.767	6.083	2.174	0.044	0.175	-4.184
Tnni1	-0.366	4.557	-2.174	0.044	0.175	-4.185
Cxcl9	2.795	7.316	2.173	0.044	0.175	-4.185
C130081A10Rik	0.388	4.964	2.173	0.044	0.175	-4.185
Gm9757	-0.350	3.208	-2.173	0.044	0.175	-4.186
Map3k5	-0.630	6.306	-2.173	0.044	0.175	-4.186
Zfp133-ps	-0.396	3.407	-2.173	0.044	0.175	-4.187
Ccl27a	-0.715	5.755	-2.172	0.044	0.175	-4.187
Sae1	0.398	9.294	2.172	0.044	0.175	-4.187
Foxb2	-0.390	3.996	-2.172	0.044	0.175	-4.188
Cwf1911	-0.402	4.468	-2.172	0.044	0.175	-4.188
Slc7a3	-0.356	3.652	-2.172	0.044	0.175	-4.188
Lphn1	-0.367	5.329	-2.171	0.044	0.175	-4.189
Cenpw	0.797	5.763	2.171	0.044	0.175	-4.189
Dck	-0.458	4.474	-2.171	0.044	0.175	-4.189
AK013187	-0.240	2.932	-2.171	0.044	0.175	-4.190
Ctps2	-0.228	2.781	-2.171	0.044	0.175	-4.190
Esrra	0.863	6.248	2.170	0.044	0.175	-4.191
Polm	0.289	5.975	2.170	0.044	0.176	-4.192
Dxo	0.288	7.436	2.170	0.044	0.176	-4.192

D630013N20Rik	-0.285	3.113	-2.169	0.044	0.176	-4.192
Fam47c	-0.271	2.282	-2.169	0.044	0.176	-4.193
Lamt0r3	0.213	9.892	2.169	0.044	0.176	-4.193
Tec	0.402	7.126	2.169	0.044	0.176	-4.193
Krt36	-0.415	3.690	-2.169	0.044	0.176	-4.193
Prame	-0.339	3.738	-2.167	0.044	0.176	-4.196
Crisp4	-0.249	2.270	-2.167	0.044	0.176	-4.196
9630001P10Rik	-0.310	2.642	-2.167	0.044	0.176	-4.197
Casp6	-0.432	10.328	-2.167	0.044	0.176	-4.197
Ndufv3	-0.406	11.592	-2.167	0.045	0.176	-4.197
Ndufv1	-0.444	10.570	-2.167	0.045	0.176	-4.197
Rgs1	0.691	4.764	2.166	0.045	0.176	-4.198
Ntn1	-0.355	3.185	-2.166	0.045	0.176	-4.198
Map2k6	-0.387	5.724	-2.166	0.045	0.176	-4.199
Kcnj16	-2.745	7.022	-2.166	0.045	0.176	-4.199
Gm13981	0.227	12.891	2.165	0.045	0.177	-4.199
Cngal	-0.299	3.454	-2.165	0.045	0.177	-4.200
Ccdc33	-0.331	4.435	-2.165	0.045	0.177	-4.201
Zfp575	-0.413	6.362	-2.164	0.045	0.177	-4.201
Tyrobp	1.272	6.692	2.164	0.045	0.177	-4.201
Rimkb	-0.304	2.833	-2.164	0.045	0.177	-4.202
Med13	-0.637	4.010	-2.164	0.045	0.177	-4.202
C920021L13Rik	-0.284	2.547	-2.164	0.045	0.177	-4.202
Jph2	-0.277	5.535	-2.164	0.045	0.177	-4.202
Mfsd10	0.478	6.093	2.163	0.045	0.177	-4.203
4632428N05Rik	0.678	4.791	2.163	0.045	0.177	-4.203
Kdelc2	0.436	5.924	2.163	0.045	0.177	-4.203
Fnbp4	0.884	7.311	2.163	0.045	0.177	-4.203
Ppme1	-0.241	8.146	-2.163	0.045	0.177	-4.203
Tmem106c	-0.251	6.714	-2.163	0.045	0.177	-4.204
Rdh9	1.408	4.088	2.162	0.045	0.177	-4.205
Mia	-0.637	6.162	-2.162	0.045	0.177	-4.205
Iffo1	-0.368	5.946	-2.162	0.045	0.177	-4.205
LOC102635243	-0.289	2.819	-2.162	0.045	0.177	-4.206
1700012P22Rik	-0.491	3.277	-2.161	0.045	0.177	-4.206
Gpx4	-0.321	10.612	-2.161	0.045	0.177	-4.206
BC027072	-0.434	3.387	-2.161	0.045	0.178	-4.207
Ifrd1	0.630	8.044	2.160	0.045	0.178	-4.208
Pi4kb	-0.451	4.555	-2.160	0.045	0.178	-4.208
Zfp598	0.482	8.003	2.160	0.045	0.178	-4.208
Sipa111	0.554	6.412	2.160	0.045	0.178	-4.208
Ly6a	2.199	10.393	2.160	0.045	0.178	-4.209
Med16	-0.515	8.186	-2.160	0.045	0.178	-4.209
AU040320	-0.425	6.208	-2.160	0.045	0.178	-4.209
Rgs4	-0.278	3.483	-2.160	0.045	0.178	-4.209
Sypl	-0.514	9.471	-2.159	0.045	0.178	-4.210
Sts	-0.400	7.250	-2.159	0.045	0.178	-4.210
Frs2	0.312	7.558	2.159	0.045	0.178	-4.210
Rfx7	0.401	7.141	2.159	0.045	0.178	-4.210
Paip2b	-0.518	7.328	-2.159	0.045	0.178	-4.210

Rictor	-0.339	3.039	-2.159	0.045	0.178	-4.211
Serpnb7	-0.291	2.353	-2.159	0.045	0.178	-4.211
Nosl	-0.391	4.079	-2.159	0.045	0.178	-4.211
Slc39a7	0.491	8.938	2.159	0.045	0.178	-4.211
Figf	0.677	4.188	2.159	0.045	0.178	-4.211
Gstm4	0.372	6.554	2.158	0.045	0.178	-4.211
Olig1	-0.319	3.304	-2.158	0.045	0.178	-4.211
Lck	1.630	5.851	2.158	0.045	0.178	-4.211
Pet2	-0.321	2.347	-2.158	0.045	0.178	-4.212
Hoxb7	-0.314	3.227	-2.158	0.045	0.178	-4.212
Abcd2	-0.325	2.865	-2.158	0.045	0.178	-4.212
2810416A17Rik	-0.286	2.950	-2.157	0.045	0.178	-4.213
Gm9946	-0.284	5.581	-2.157	0.045	0.178	-4.213
Sprrla	1.352	10.492	2.157	0.045	0.178	-4.214
2300004M11Rik	-0.334	3.613	-2.157	0.045	0.178	-4.214
Sprr2a1	0.183	14.710	2.156	0.045	0.178	-4.215
LOC102633679	-0.327	3.038	-2.156	0.045	0.178	-4.215
Hectd3	-0.262	6.347	-2.156	0.045	0.178	-4.216
Gm3120	-0.367	6.649	-2.156	0.045	0.178	-4.216
Gm20548	-0.366	2.908	-2.156	0.045	0.178	-4.216
Bpifa2	-0.271	2.809	-2.156	0.045	0.178	-4.216
Rital	-0.369	6.705	-2.155	0.045	0.178	-4.216
Fzd5	-0.303	5.897	-2.155	0.045	0.178	-4.216
Adarb1	-0.292	3.457	-2.155	0.045	0.178	-4.216
Irf2	0.442	7.143	2.155	0.046	0.178	-4.217
Hif3a	-0.383	3.696	-2.155	0.046	0.178	-4.217
Zc3h7b	-0.260	4.994	-2.154	0.046	0.178	-4.219
Eif4g3	0.499	8.162	2.154	0.046	0.178	-4.219
Timp4	-0.736	4.301	-2.154	0.046	0.178	-4.219
Nt5m	-0.271	7.158	-2.154	0.046	0.178	-4.219
D5Erttd505e	1.454	4.865	2.154	0.046	0.178	-4.220
1500035N22Rik	-0.397	5.406	-2.154	0.046	0.178	-4.220
Kif9	-0.372	4.731	-2.154	0.046	0.178	-4.220
Wls	-0.506	8.064	-2.153	0.046	0.179	-4.220
Foxd3	-0.344	3.827	-2.153	0.046	0.179	-4.220
Col2a1	-0.403	4.906	-2.153	0.046	0.179	-4.221
Srp19	0.284	9.580	2.152	0.046	0.179	-4.222
Ifi30	-0.218	11.089	-2.152	0.046	0.179	-4.222
C130013H08Rik	-0.337	2.705	-2.152	0.046	0.179	-4.222
Tbc1d32	-0.688	6.545	-2.152	0.046	0.179	-4.222
Mta3	-0.439	7.570	-2.152	0.046	0.179	-4.222
Irf9	0.852	7.267	2.152	0.046	0.179	-4.223
Klra5	-0.423	3.146	-2.152	0.046	0.179	-4.223
Cyp4b1	-0.531	4.029	-2.152	0.046	0.179	-4.223
LOC102632747	-0.312	5.288	-2.151	0.046	0.179	-4.224
1700017D01Rik	-0.333	2.367	-2.151	0.046	0.179	-4.225
Oxsr1	0.329	7.571	2.151	0.046	0.179	-4.225
Ido1	4.264	8.234	2.150	0.046	0.179	-4.226
Il17rc	0.517	8.716	2.149	0.046	0.179	-4.227
Llgl1	0.303	8.059	2.148	0.046	0.180	-4.230

Upk3b	-0.371	3.802	-2.148	0.046	0.180	-4.230
Tsga10	-0.443	5.642	-2.148	0.046	0.180	-4.230
Usp5	0.274	8.463	2.147	0.046	0.180	-4.230
AK047075	-0.350	5.189	-2.147	0.046	0.180	-4.231
Ptch2	-0.241	4.001	-2.147	0.046	0.180	-4.231
Def6	0.630	5.733	2.147	0.046	0.180	-4.232
4930434B07Rik	-0.330	2.815	-2.146	0.046	0.180	-4.232
Sectmlb	-0.815	9.699	-2.146	0.046	0.180	-4.233
Dact2	-0.331	3.968	-2.146	0.046	0.180	-4.233
Efcab2	-0.491	4.889	-2.146	0.046	0.180	-4.234
BB212172	-0.418	4.898	-2.145	0.046	0.181	-4.234
Ms4a4b	2.547	5.043	2.145	0.046	0.181	-4.235
Rps5	0.233	12.848	2.145	0.046	0.181	-4.235
4932438A13Rik	0.351	6.830	2.144	0.046	0.181	-4.236
Grsf1	-0.424	8.377	-2.144	0.047	0.181	-4.236
1700126A01Rik	-0.291	2.543	-2.144	0.047	0.181	-4.236
Lhx2	-0.334	2.619	-2.143	0.047	0.181	-4.237
Igfbp2	-2.107	7.598	-2.143	0.047	0.181	-4.238
C77438	-0.294	2.979	-2.143	0.047	0.181	-4.238
4921513H07Rik	-0.293	2.991	-2.143	0.047	0.181	-4.238
Vmn1r11	-0.284	2.114	-2.143	0.047	0.181	-4.239
Rbm3os	-0.260	2.828	-2.142	0.047	0.181	-4.239
Ndufa4	-0.753	10.256	-2.142	0.047	0.181	-4.239
Evi2a	0.559	4.866	2.142	0.047	0.181	-4.240
Ptger4	1.332	4.260	2.141	0.047	0.181	-4.241
4930553P13Rik	-0.310	3.716	-2.141	0.047	0.181	-4.241
Usp27x	-0.278	3.800	-2.141	0.047	0.181	-4.241
4930403015Rik	-0.372	3.922	-2.141	0.047	0.181	-4.241
Fgfrlop2	0.242	9.555	2.141	0.047	0.181	-4.241
Tapbp1	0.803	4.237	2.141	0.047	0.181	-4.241
Erbb3	0.241	9.977	2.141	0.047	0.182	-4.242
Casq1	-0.352	4.767	-2.141	0.047	0.182	-4.242
Lpin1	-0.655	5.537	-2.140	0.047	0.182	-4.243
Ufd11	0.233	7.787	2.140	0.047	0.182	-4.243
Klh133	-0.272	2.770	-2.140	0.047	0.182	-4.243
Spatc1	-0.256	2.928	-2.140	0.047	0.182	-4.244
Dnajc5	0.681	7.379	2.139	0.047	0.182	-4.245
Chrna9	-0.252	2.804	-2.139	0.047	0.182	-4.245
Msx2	-0.368	2.633	-2.139	0.047	0.182	-4.245
Mme	-0.342	3.921	-2.138	0.047	0.182	-4.247
Nup155	0.506	6.247	2.137	0.047	0.182	-4.248
Trove2	-0.616	6.383	-2.137	0.047	0.182	-4.248
2900001G08Rik	-1.618	4.995	-2.137	0.047	0.183	-4.249
Ube2g1	-0.318	9.329	-2.136	0.047	0.183	-4.249
Ankrd10	0.402	7.439	2.136	0.047	0.183	-4.249
Rab37	-0.386	3.863	-2.136	0.047	0.183	-4.249
Klf14	-0.243	4.788	-2.136	0.047	0.183	-4.249
Tra2a	0.783	6.122	2.136	0.047	0.183	-4.250
9430078K24Rik	-0.355	4.579	-2.136	0.047	0.183	-4.250
D8Ert620e	-0.587	3.223	-2.136	0.047	0.183	-4.250

AU022084	-0.232	2.392	-2.136	0.047	0.183	-4.250
Epgn	-0.423	4.171	-2.136	0.047	0.183	-4.250
Rnf166	-0.559	7.741	-2.136	0.047	0.183	-4.250
Gle1	0.332	6.588	2.136	0.047	0.183	-4.250
Coq4	0.455	6.948	2.136	0.047	0.183	-4.251
A930018M24Rik	-0.263	2.942	-2.135	0.047	0.183	-4.251
Syn3	-0.397	5.112	-2.135	0.047	0.183	-4.251
2810414N06Rik	-0.313	2.363	-2.135	0.047	0.183	-4.251
Cdc20b	-0.303	3.177	-2.135	0.047	0.183	-4.251
Nap113	-0.468	3.253	-2.135	0.047	0.183	-4.252
D330013E07Rik	-0.320	2.719	-2.135	0.047	0.183	-4.252
Ifltd1	-0.369	4.789	-2.135	0.047	0.183	-4.252
Arhgef25	0.577	4.998	2.135	0.047	0.183	-4.252
Sat1	0.556	9.521	2.134	0.047	0.183	-4.253
Pgpep11	-0.265	2.739	-2.134	0.047	0.183	-4.253
Mal2	0.283	10.479	2.134	0.047	0.183	-4.254
B830008H07Rik	-0.361	4.994	-2.133	0.047	0.183	-4.254
9130017K11Rik	0.411	3.855	2.133	0.048	0.183	-4.255
Asic3	-0.298	2.583	-2.133	0.048	0.183	-4.255
Rtn2	-0.362	3.579	-2.133	0.048	0.183	-4.255
Klk4	-0.400	3.231	-2.133	0.048	0.183	-4.256
Akirin2	0.247	9.513	2.132	0.048	0.183	-4.257
Idi1	0.529	8.344	2.132	0.048	0.183	-4.257
Prss36	-0.302	5.579	-2.132	0.048	0.183	-4.257
AI317158	-0.320	3.002	-2.131	0.048	0.183	-4.258
4833446E11Rik	-0.434	3.735	-2.131	0.048	0.184	-4.259
D3Ertd797e	-0.273	2.243	-2.130	0.048	0.184	-4.260
Myo10	-0.260	6.972	-2.130	0.048	0.184	-4.260
Fam222b	-0.479	7.443	-2.130	0.048	0.184	-4.260
Gstt1	-0.707	9.350	-2.130	0.048	0.184	-4.260
Caps1	0.650	4.135	2.130	0.048	0.184	-4.260
Brcc3	-0.329	2.751	-2.129	0.048	0.184	-4.261
Fam134c	0.966	7.191	2.129	0.048	0.184	-4.261
Mobp	-0.312	2.681	-2.129	0.048	0.184	-4.262
Stk39	-0.437	8.261	-2.129	0.048	0.184	-4.262
Psen2	-0.320	7.891	-2.129	0.048	0.184	-4.262
Fam193a	-0.568	5.672	-2.129	0.048	0.184	-4.263
Pde11a	-0.260	4.029	-2.128	0.048	0.184	-4.263
AU015836	-0.463	4.918	-2.128	0.048	0.184	-4.264
Tcp10a	-0.396	3.113	-2.128	0.048	0.184	-4.264
Ralb	-0.231	8.973	-2.128	0.048	0.184	-4.264
Colgalt2	-0.262	4.956	-2.128	0.048	0.184	-4.264
Sesn1	-0.374	6.051	-2.127	0.048	0.184	-4.264
Idh3g	-0.589	10.019	-2.127	0.048	0.184	-4.265
Nell2	-0.344	4.764	-2.127	0.048	0.184	-4.266
Mtrr	0.438	5.836	2.127	0.048	0.184	-4.266
5530401A14Rik	-0.294	3.595	-2.127	0.048	0.184	-4.266
Gm13752	-0.319	2.429	-2.126	0.048	0.184	-4.266
Kctd21	-0.341	6.217	-2.126	0.048	0.184	-4.266
Prdm5	-0.452	5.017	-2.126	0.048	0.184	-4.266

Echdc3	-0.571	6.503	-2.126	0.048	0.185	-4.268
Ces2c	-0.439	11.538	-2.126	0.048	0.185	-4.268
Tssk4	-0.313	4.075	-2.125	0.048	0.185	-4.268
Cox6a1	-0.224	13.629	-2.125	0.048	0.185	-4.269
Ces5a	-0.286	2.998	-2.125	0.048	0.185	-4.269
Rsl24d1	0.492	7.794	2.125	0.048	0.185	-4.269
Zdhhc11	-0.301	3.170	-2.125	0.048	0.185	-4.269
S100a8	1.756	4.993	2.125	0.048	0.185	-4.269
Tmem107	-0.351	7.998	-2.124	0.048	0.185	-4.270
Mett13	0.261	7.189	2.124	0.048	0.185	-4.271
Rnf214	-0.300	6.380	-2.124	0.048	0.185	-4.271
Btbd17	0.347	3.532	2.123	0.048	0.185	-4.271
Ptger1	-0.260	2.396	-2.123	0.048	0.185	-4.272
Dqx1	-0.367	3.971	-2.123	0.048	0.185	-4.272
Epx	-0.366	3.350	-2.123	0.048	0.185	-4.272
1700086D15Rik	-0.402	4.802	-2.123	0.048	0.185	-4.273
Fkbp14	-0.502	4.554	-2.123	0.049	0.185	-4.273
Vmn1r41	-0.256	2.538	-2.123	0.049	0.185	-4.273
Naa11	-0.392	2.698	-2.122	0.049	0.185	-4.273
Arsb	-0.283	8.607	-2.122	0.049	0.185	-4.274
Hadha	-0.285	10.365	-2.122	0.049	0.185	-4.274
Ptpra	-0.308	7.697	-2.122	0.049	0.185	-4.274
Shcbp1	0.588	7.443	2.122	0.049	0.185	-4.274
Cyp2b19	-0.276	2.954	-2.122	0.049	0.185	-4.275
Prkaa2	-0.782	7.318	-2.121	0.049	0.185	-4.275
Plagl1	-0.365	3.004	-2.121	0.049	0.185	-4.275
Kifc5b	0.349	3.013	2.121	0.049	0.185	-4.276
LOC102641264	-0.260	2.866	-2.121	0.049	0.186	-4.276
6430547I21Rik	-0.291	2.647	-2.121	0.049	0.186	-4.276
Rad51apl	0.730	5.844	2.121	0.049	0.186	-4.276
Hnrnpk	0.355	10.070	2.121	0.049	0.186	-4.276
Akr1e1	-0.394	7.493	-2.120	0.049	0.186	-4.277
Mgmt	-0.558	6.338	-2.120	0.049	0.186	-4.277
3110080E11Rik	-0.241	2.249	-2.120	0.049	0.186	-4.277
Capn13	0.479	9.199	2.120	0.049	0.186	-4.277
Gsk3b	-0.434	4.559	-2.120	0.049	0.186	-4.277
Gjb1	0.518	9.099	2.120	0.049	0.186	-4.278
2310007L24Rik	-0.437	4.296	-2.120	0.049	0.186	-4.278
Atp7a	0.340	8.202	2.119	0.049	0.186	-4.279
Med25	-0.322	8.304	-2.119	0.049	0.186	-4.279
4933404I11Rik	-0.351	2.878	-2.119	0.049	0.186	-4.279
2510003E04Rik	-0.374	4.613	-2.119	0.049	0.186	-4.279
4933425D22Rik	-0.317	2.911	-2.119	0.049	0.186	-4.279
Obox1	-0.364	2.677	-2.119	0.049	0.186	-4.279
Atp6v1a	-0.347	9.145	-2.118	0.049	0.186	-4.280
LOC665506	1.040	6.001	2.118	0.049	0.186	-4.280
Gm11985	-0.351	2.515	-2.118	0.049	0.186	-4.281
B230204H03Rik	-0.309	3.178	-2.117	0.049	0.186	-4.282
Gm14169	-0.273	3.402	-2.117	0.049	0.186	-4.282
Nog	-0.288	3.277	-2.117	0.049	0.186	-4.282

B230219D22Rik	-0.451	8.666	-2.117	0.049	0.186	-4.282
Ar12	-0.411	7.437	-2.117	0.049	0.186	-4.283
Btnl10	-0.313	3.283	-2.116	0.049	0.186	-4.283
Atpla1	0.460	10.879	2.116	0.049	0.186	-4.283
Hnrnpd1	0.618	8.483	2.116	0.049	0.186	-4.284
Ldhd	-0.605	7.026	-2.116	0.049	0.186	-4.284
Slc29a3	-0.412	4.258	-2.116	0.049	0.186	-4.284
Ypel3	-0.439	8.419	-2.116	0.049	0.186	-4.284
Igsf5	-0.541	9.333	-2.116	0.049	0.186	-4.285
Gm9873	-0.482	5.300	-2.115	0.049	0.186	-4.285
Dclk2	-0.347	4.602	-2.115	0.049	0.186	-4.285
Hspb7	-0.259	2.816	-2.115	0.049	0.186	-4.286
Cfc1	-0.247	4.591	-2.115	0.049	0.187	-4.286
Chrm4	-0.317	2.883	-2.115	0.049	0.187	-4.286
9530004P13Rik	-0.334	3.801	-2.115	0.049	0.187	-4.286
Mocos	0.598	6.920	2.115	0.049	0.187	-4.287
Amhr2	-0.361	4.206	-2.114	0.049	0.187	-4.287
Actc1	-0.394	3.891	-2.114	0.049	0.187	-4.287
Defb15	-0.322	4.252	-2.114	0.049	0.187	-4.288
Trim27	-0.245	2.865	-2.114	0.049	0.187	-4.288
Tmem59	-0.220	2.037	-2.114	0.049	0.187	-4.288
Ssc5d	-0.364	5.990	-2.114	0.049	0.187	-4.288
2210409E12Rik	-0.784	3.779	-2.113	0.049	0.187	-4.288
Adap2	-0.440	3.848	-2.113	0.049	0.187	-4.289
Fzd1	-0.325	3.334	-2.113	0.049	0.187	-4.289
Ccnf	0.600	6.178	2.113	0.049	0.187	-4.289
Snx30	-0.379	5.392	-2.113	0.049	0.187	-4.289
Avp	-0.392	4.320	-2.113	0.049	0.187	-4.290
Tspan12	-0.436	4.753	-2.113	0.049	0.187	-4.290
Tfg	-0.270	10.363	-2.112	0.049	0.187	-4.290
Zfp770	0.407	6.364	2.112	0.049	0.187	-4.290
Olfm2	-0.283	2.816	-2.112	0.049	0.187	-4.290
Sepp1	-0.277	13.083	-2.112	0.050	0.187	-4.291
Gm2a	-0.859	6.114	-2.112	0.050	0.187	-4.291
Gk5	-0.517	7.728	-2.112	0.050	0.187	-4.292
Rrplb	0.426	6.225	2.112	0.050	0.187	-4.292
Zfp507	0.281	7.942	2.111	0.050	0.187	-4.292
Jun	0.655	8.636	2.111	0.050	0.187	-4.293
Mmaa	-0.417	7.046	-2.111	0.050	0.187	-4.293
Lcn2	3.297	6.786	2.111	0.050	0.187	-4.293
Hdhd1a	-0.397	3.029	-2.111	0.050	0.187	-4.293
Rps6ka1	0.236	9.997	2.110	0.050	0.187	-4.294
Pdk4	-0.692	6.277	-2.110	0.050	0.187	-4.294
Zkscan3	0.584	7.048	2.110	0.050	0.187	-4.294
Itgae	1.048	4.731	2.110	0.050	0.187	-4.294
Lrrn1	-0.775	3.811	-2.110	0.050	0.187	-4.295
Pgc	-1.755	12.563	-2.110	0.050	0.187	-4.295
Kmt2d	-0.417	7.077	-2.110	0.050	0.187	-4.295
Tns4	1.039	5.689	2.110	0.050	0.187	-4.295
Gm21379	-0.340	2.550	-2.109	0.050	0.187	-4.295

Sys1	-0.306	4.551	-2.109	0.050	0.187	-4.295
AK164218	1.560	5.549	2.109	0.050	0.187	-4.296
Cyp11b2	-0.442	3.319	-2.109	0.050	0.187	-4.296
Cbwd1	0.476	5.685	2.109	0.050	0.187	-4.296
Trim65	0.377	5.953	2.109	0.050	0.187	-4.296
Hoxb5os	-0.326	5.384	-2.109	0.050	0.187	-4.297
Phosphol	-0.278	3.794	-2.108	0.050	0.187	-4.297
Gm10839	-0.254	2.529	-2.108	0.050	0.187	-4.297
E530001K10Rik	-0.292	4.105	-2.108	0.050	0.188	-4.298
4931408D14Rik	-0.340	4.453	-2.108	0.050	0.188	-4.298
Gm1821	-0.229	13.516	-2.108	0.050	0.188	-4.298
Nsun2	0.404	9.123	2.108	0.050	0.188	-4.298
Ostc	1.027	5.088	2.107	0.050	0.188	-4.299
Rab13	0.223	6.320	2.107	0.050	0.188	-4.299

Table S6. 56 Differentially expressed genes

number	symbol	Local dataset1		Mouse_40634		Local dataset 2		Mouse_1 3873		TCGA_Overall Survival	
		logFC	P.Value	logFC	P.Value	P.Value	P.Value	HR	low95	up95	p.val
1	OSMR	1.287	0.000	4.911	0.000	0.026	0.000	1.100	0.970	1.300	0.013
2	NID2	1.392	0.000	1.411	0.001	0.001	0.007	1.200	1.000	1.400	0.003
3	ADHFE1	-1.405	0.000	-1.606	0.000	0.049	0.000	1.100	0.900	1.300	0.037
4	PXDN	1.340	0.000	4.774	0.000	0.032	0.012	1.200	1.000	1.400	0.005
5	TNFAIP3	1.085	0.000	1.302	0.000	0.000	0.000	1.000	0.850	1.200	0.155
6	VCAN	1.680	0.000	3.971	0.000	0.034	0.005	1.200	1.100	1.400	0.000
7	PSCA	-4.157	0.000	-5.203	0.000	0.013	0.005	1.000	0.980	1.100	0.008
8	ALDH6A1	-1.720	0.000	-2.350	0.000	0.017	0.011	1.100	0.860	1.400	0.321
9	MSN	1.069	0.000	5.484	0.000	0.000	0.017	1.100	0.940	1.400	0.026
10	ARHGDI3	-1.364	0.000	-3.558	0.000	0.032	0.012	1.100	0.930	1.200	0.033
11	BICC1	1.090	0.000	5.164	0.000	0.021	0.022	1.200	1.000	1.400	0.004
12	HPGD	-2.010	0.000	-4.497	0.000	0.021	0.008	1.100	0.960	1.200	0.095
13	APOE	1.529	0.000	5.299	0.000	0.003	0.015	1.100	0.980	1.200	0.004
14	BHLHE40	1.138	0.000	1.867	0.000	0.011	0.031	1.100	0.880	1.300	0.193
15	KCNJ13	-1.153	0.000	-2.006	0.000	0.002	0.001	0.960	0.750	1.200	0.147
16	C1QB	1.025	0.000	5.518	0.000	0.002	0.036	1.100	0.940	1.200	0.121
17	STOM	1.212	0.000	2.735	0.000	0.012	0.008	1.200	1.000	1.400	0.027
18	SCTR	-1.061	0.000	-1.350	0.000	0.020	0.031	1.100	0.970	1.200	0.002
19	COL6A3	2.080	0.000	5.414	0.000	0.000	0.028	1.100	0.990	1.300	0.021
20	NQO1	-1.404	0.000	-4.225	0.000	0.038	0.015	0.990	0.880	1.100	0.163
21	SCNN1G	-1.574	0.000	-1.123	0.001	0.012	0.001	1.100	0.960	1.200	0.037
22	FAM174B	-1.254	0.000	-3.905	0.000	0.020	0.000	1.000	0.900	1.200	0.124
23	CAPN13	-2.067	0.000	-2.188	0.001	0.013	0.049	1.000	0.940	1.200	0.084
24	CCKAR	-1.713	0.000	-2.149	0.000	0.005	0.006	1.000	0.900	1.200	0.267
25	GPT2	-1.832	0.000	-2.384	0.000	0.001	0.009	1.000	0.890	1.200	0.015
26	TMED6	-2.049	0.000	-4.082	0.000	0.024	0.000	1.100	0.860	1.300	0.144
27	PGC	-5.649	0.000	-8.693	0.000	0.001	0.050	1.000	0.970	1.000	0.216
28	SYTL1	-1.263	0.000	-3.051	0.000	0.003	0.001	1.000	0.860	1.200	0.371
29	ADH7	-1.541	0.000	-3.876	0.000	0.041	0.036	1.000	0.920	1.100	0.114
30	KCNJ15	-1.576	0.000	-4.205	0.000	0.010	0.003	1.100	0.990	1.200	0.015
31	PIK3C2G	-2.422	0.000	-2.368	0.002	0.003	0.006	1.000	0.960	1.100	0.126
32	BMP1	1.076	0.000	4.306	0.000	0.002	0.001	1.200	0.970	1.500	0.027
33	SULT1C2	-2.591	0.000	-5.863	0.000	0.008	0.021	1.000	0.940	1.100	0.097
34	PLA2G7	1.346	0.000	4.789	0.000	0.000	0.019	1.100	0.930	1.200	0.156
35	GLIPR1	1.082	0.000	4.244	0.000	0.000	0.000	1.100	0.980	1.300	0.014
36	ELOVL5	1.176	0.000	4.634	0.000	0.009	0.002	1.000	0.890	1.200	0.210
37	PLLP	-1.632	0.000	-2.856	0.000	0.013	0.002	0.970	0.840	1.100	0.021
38	CCKBR	-1.976	0.000	-2.157	0.000	0.034	0.000	1.000	0.910	1.200	0.227
39	STARD10	-1.333	0.000	-1.756	0.000	0.001	0.024	1.000	0.860	1.200	0.089
40	KLF15	-1.395	0.000	-1.938	0.000	0.034	0.000	1.000	0.910	1.200	0.335
41	EMP1	1.218	0.000	3.651	0.000	0.008	0.028	1.100	0.930	1.200	0.021
42	COL18A1	1.214	0.000	3.651	0.000	0.044	0.009	1.100	0.950	1.300	0.059
43	RASAL2	1.060	0.000	2.082	0.000	0.032	0.032	1.200	0.930	1.500	0.014

44 S100A8	1.197	0.000	5.196	0.000	0.004	0.048	1.000	0.930	1.100	0.156
45 SCG3	-1.058	0.000	-2.200	0.000	0.026	0.014	0.960	0.840	1.100	0.291
46 TTYH3	1.551	0.000	1.718	0.000	0.011	0.003	1.100	0.900	1.200	0.090
47 IFITM3	1.066	0.000	3.094	0.000	0.001	0.011	1.000	0.880	1.200	0.130
48 IFITM3	1.066	0.000	2.147	0.000	0.006	0.014	1.000	0.880	1.200	0.130
49 FBN1	1.431	0.000	3.879	0.000	0.027	0.010	1.200	1.000	1.300	0.003
50 CEBPB	1.163	0.000	1.483	0.001	0.017	0.000	1.000	0.850	1.300	0.142
51 TGM2	1.409	0.000	4.876	0.000	0.047	0.002	1.100	0.940	1.200	0.038
52 KCNQ1	-2.185	0.000	-2.158	0.001	0.007	0.005	0.930	0.840	1.000	0.012
53 PROM2	-1.421	0.000	-1.353	0.000	0.006	0.001	0.960	0.890	1.000	0.048
54 MUC5AC	-4.179	0.000	-5.883	0.000	0.016	0.003	1.000	0.960	1.100	0.274
55 CLDN4	1.421	0.001	3.215	0.000	0.004	0.029	1.000	0.910	1.100	0.101
56 CXCL5	1.403	0.005	3.706	0.000	0.001	0.000	1.000	0.960	1.100	0.366

Table S7. Two verified stem cell signatures

SCGS Benporath Sox2	SCGS Smith
AASDH	VSNL1
ABCB7	AKR1B1
ABCF2	NOTCH4
ABHD11	TMEM237
ABLM1	SAMD5
ABTB2	PKD2
ACIN1	NAP1L1
ACO2	PTTG1
ACOT8	CDK6
ACOX1	CDCA7
ACTR1A	ACSL4
ADAR	HELLS
ADD3	IKBIP
AK3	PLTP
AKIRIN1	TMEM201
AKIRIN2	CACHD1
AKT1S1	ILF3
ALCAM	DNMT1
ALDH7A1	USP31
ALPL	FAM216A
AMOTL1	SLC41A1
ANKHD1	PFKM
ANKRD1	KANK1
ANO8	SUPT16H
ANP32A	ADCY3
ANP32B	FGD1
AP2A1	PTPN14
AP3B1	C20orf27
APEX1	LGR6
APH1A	SLC16A7
APP	JAM3
AQP2	FBL
ARF3	NASP
ARF4	RANBP1
ARFGEF1	PRNP
ARHGAP1	DSE
ARHGAP11A	GPX7
ARID1B	KDELC1
ARID4B	FCHSD2
ARID5B	SLCO3A1
ARIH1	CCNB1IP1
ARL4D	NOL9
ARMC6	NKRF
ARRDC3	NUP107
ASNA1	RCC2
ATAD2	ARHGAP25
ATF3	DDX46
ATF4	TCOF1
ATP5F1	GMPS
ATP6V1G1	
AUH	

AVEN	
B3GALT4	
B4GALT6	
BAMBI	
BCAT1	
BCKDHA	
BCL9	
BCLAF1	
BDH2	
BMP2	
BMP7	
BTF3L4	
BTG1	
BUB1B	
BUB3	
C12orf60	
C14orf119	
C14orf159	
C19orf43	
C19orf54	
C1orf174	
C1orf21	
C1orf54	
C20orf194	
C20orf96	
CA2	
CA4	
CABLES1	
CACHD1	
CACNA1A	
CACNA2D1	
CALM2	
CALR	
CAPRIN1	
CAPZA2	
CASP9	
CBX3	
CBX5	
CBY1	
CCDC93	
CCDC94	
CCND1	
CDC14B	
CDC42BPA	
CDC45	
CDC7	
CDH2	
CDH3	
CDK1	
CDK12	
CDK14	
CDK16	
CDK17	
CDK6	

CDYL	
CEP41	
CEP89	
CEP95	
CER1	
CETN3	
CFL1	
CISD1	
CLIC4	
CLN3	
CLP1	
CNOT8	
COL12A1	
COMMD3	
COMMD7	
COPB1	
COPS7A	
CPT1A	
CREB3L4	
CRIM1	
CSNK1E	
CTGF	
CTH	
CXCL5	
CYB5R2	
CYR61	
DARS2	
DCAF11	
DCAKD	
DDA1	
DDX17	
DDX21	
DDX39A	
DDX5	
DHDDS	
DHRS3	
DHX38	
DIAPH3	
DIDO1	
DKK1	
DNAJC16	
DNAJC2	
DNM2	
DPAGT1	
DPP3	
DPPA4	
DPYSL2	
DPYSL3	
DSCC1	
DTNA	
DUSP12	
DUSP6	
DVL2	
E2F3	

EAPP	
EEF2	
EGLN3	
EGR3	
EIF3F	
EIF4G2	
ELAVL2	
ENPP2	
ENSA	
EOMES	
EPHA1	
EPM2AIP1	
ERBB2	
ERRFI1	
ETHE1	
EXOC5	
EXOSC5	
EXOSC9	
EXPH5	
FAM124A	
FAM134C	
FAM168A	
FAM60A	
FAM63B	
FAM76B	
FAM96A	
FAM98A	
FANCC	
FANCF	
FARSA	
FBXL14	
FBXL19	
FBXO11	
FBXO16	
FBXW11	
FEM1A	
FEZ1	
FGF2	
FGFR1	
FGFR2	
FICD	
FIP1L1	
FOXJ2	
FOXN3	
FOXO1	
FOXP1	
FRAT2	
FTL	
FUS	
FXYD5	
FZD1	
FZD10	
FZD2	
FZD3	

FZD7	
G3BP1	
GADD45G	
GBF1	
GDAP1	
GGA1	
GGPS1	
GJA1	
GNA13	
GNAI1	
GNG10	
GNPTAB	
GPC6	
GRHL2	
GRID2	
GRK6	
GSK3A	
GSK3B	
GSPT2	
GTPBP3	
GXYLT1	
H2AFJ	
H2AFX	
H3F3B	
HAS2	
HBP1	
HDAC2	
HDAC9	
HECTD2	
HELLS	
HEPH	
HESX1	
HEXIM2	
HHEX	
HIF1AN	
HIST1H4C	
HIST2H2AA3	
HIST2H2BE	
HIST3H2A	
HLTF	
HMBOX1	
HMG20A	
HMOX1	
HN1	
HNRNPA1	
HNRNPA2B1	
HNRNPC	
HNRNPK	
HNRNPL	
HNRNPUL1	
HSD17B12	
HSP90AB1	
HSP90B1	
HSPA13	

HUWE1	
ICMT	
ID1	
IDH3G	
IER5L	
IFI16	
IGF2BP3	
IGFBP2	
IK	
ILF2	
ILF3	
ING4	
INHBA	
INO80C	
INO80D	
IRX2	
IWS1	
JARID2	
JUP	
KANK1	
KAT6A	
KCNMB4	
KCNN2	
KDM3A	
KDR	
KIAA0319L	
KIAA0368	
KIAA0391	
KIAA1143	
KIF11	
KIF15	
KIF20B	
KIF26A	
KIF2C	
KLF5	
KLHL5	
KNTC1	
KPNA3	
LAMA4	
LAMTOR2	
LARP7	
LASP1	
LEFTY1	
LEFTY2	
LHPP	
LINCO0337	
LINGO1	
LOXL2	
LRAT	
LRFN3	
LRP2	
LRRN1	
LSG1	
LSM3	

LSM4	
LYPD1	
MAGED2	
MAN2C1	
MAP3K11	
MAP3K12	
MAPRE2	
MAST1	
MAT2B	
MCTS1	
MDC1	
MED12	
MED17	
MED25	
MEX3C	
MGEA5	
MKKS	
MLH1	
MLLT10	
MOBP	
MORF4L1	
MORF4L2	
MOSPD3	
MPND	
MRPL15	
MRPL43	
MRPL47	
MRPS11	
MRPS18B	
MRPS23	
MRPS27	
MRPS31	
MSC	
MSL3	
MTF2	
MTM1	
MTSS1	
MUS81	
MYNN	

Table S8. Characteristics of 365 patients with gastric cancer in three tumor tissue microarrays cohort

Num ber	Gender	Age	Tumor_lo- cation	Tumor_si- ze	AJ	Adjuvant _chemo	OS		RF			CTNN B1 score
					CC _st age		stat	OS time	S stat	RFS time	RASAL2 _tumor	
1	Male	66	Antrum	> 5.0cm	II	No ACT	0	117	0	110	Positive	9
2	Male	83	Cardia	> 5.0cm	III	No ACT	1	21	1	14	Positive	9
3	Male	80	Body	> 5.0cm	II	No ACT	1	24	1	24	Negative	4
4	Male	64	Cardia	≤ 5.0cm	I	No ACT	0	120	0	110	Positive	6
5	Male	59	Antrum	≤ 5.0cm	I	No ACT	0	117	0	111	Positive	9
6	Female	51	Antrum	≤ 5.0cm	I	No ACT	1	49	1	49	Positive	9
7	Male	65	Cardia	> 5.0cm	III	No ACT	1	33	1	14	Positive	6
8	Male	75	Antrum	≤ 5.0cm	III	No ACT	0	117	0	109	Positive	3
9	Male	63	Body	> 5.0cm	III	No ACT	1	27	1	27	Negative	2
10	Male	77	Cardia	≤ 5.0cm	III	No ACT	1	44	1	44	Positive	6
11	Male	56	Body	> 5.0cm	III	No ACT	1	8	1	8	Positive	9
12	Male	74	Body	> 5.0cm	III	No ACT	1	22	1	20	Positive	4
13	Male	82	Antrum	> 5.0cm	III	No ACT	1	7	1	4	Positive	9
14	Male	45	Antrum	> 5.0cm	III	Unknown	0	117	0	109	Negative	2
15	Male	50	Antrum	≤ 5.0cm	II	No ACT	0	121	0	108	Positive	6
16	Male	64	Cardia	> 5.0cm	III	No ACT	1	19	1	8	Positive	6
17	Male	72	Antrum	> 5.0cm	III	Unknown	0	115	0	108	Positive	1
18	Male	48	Body	> 5.0cm	III	Unknown	1	13	1	8	Positive	6
19	Female	63	Body	> 5.0cm	III	Unknown	1	3	1	3	Positive	3
20	Male	58	Cardia	> 5.0cm	III	Unknown	1	48	1	48	Positive	9
21	Male	62	Antrum	≤ 5.0cm	III	Unknown	1	56	1	53	Negative	2
22	Male	64	Antrum	> 5.0cm	II	Unknown	1	118	1	104	Positive	6
23	Male	67	Antrum	≤ 5.0cm	III	Unknown	1	10	1	8	Positive	6
24	Male	64	Body	≤ 5.0cm	II	ACT	0	114	0	104	Negative	2
25	Male	63	Cardia	> 5.0cm	III	ACT	1	23	1	23	Positive	6
26	Female	56	Body	≤ 5.0cm	III	ACT	0	112	0	102	Negative	4
27	Male	52	Mixed	> 5.0cm	III	Unknown	1	25	1	19	Positive	
28	Male	65	Cardia	> 5.0cm	III	No ACT	1	17	1	17	Positive	3
29	Female	62	Antrum	> 5.0cm	I	No ACT	0	114	0	102	Positive	6
30	Male	65	Mixed	> 5.0cm	III	Unknown	1	7	1	5	Positive	6
31	Male	54	Antrum	> 5.0cm	III	No ACT	0	109	0	100	Positive	9
32	Female	52	Antrum	≤ 5.0cm	III	No ACT	0	110	0	100	Positive	2
33	Female	73	Antrum	≤ 5.0cm	III	No ACT	0	111	0	100	Negative	3
34	Female	75	Antrum	> 5.0cm	III	No ACT	1	17	1	23	Positive	2
35	Male	66	Cardia	≤ 5.0cm	I	No ACT	1	3	1	3	Positive	9
36	Male	82	Antrum	≤ 5.0cm	II	No ACT	1	60	1	36	Positive	4
37	Female	79	Antrum	> 5.0cm	III	No ACT	1	12	1	10	Positive	9
38	Male	73	Body	≤ 5.0cm	I	No ACT	0	109	0	100	Negative	3
39	Male	43	Antrum	≤ 5.0cm	I	No ACT	0	111	0	100	Positive	9
40	Female	65	Antrum	≤ 5.0cm	III	No ACT	1	6	1	3	Positive	4
41	Male	55	Mixed	≤ 5.0cm	II	No ACT	0	110	0	100	Negative	4

42	Male	83	Cardia	≤ 5.0cm	I	No ACT	1	27	1	27	Positive	6
43	Female	51	Mixed	> 5.0cm	III	No ACT	1	75	1	70	Positive	9
44	Female	35	Antrum	≤ 5.0cm	III	No ACT	1	25	1	16	Positive	6
45	Male	62	Antrum	≤ 5.0cm	III	No ACT	1	66	1	65	Positive	3
46	Male	63	Body	> 5.0cm	III	Unknown	0	108	0	99	Negative	2
47	Male	62	Mixed	Unknown	III	ACT	0	107	0	99	Negative	2
48	Male	73	Cardia	Unknown	III	No ACT	0	106	0	98	Positive	6
49	Male	57	Cardia	Unknown	II	ACT	0	108	0	97	Negative	4
50	Female	41	Mixed	Unknown	III	ACT	1	9	1	2	Positive	9
51	Male	38	Mixed	Unknown	III	ACT	0	106	0	99	Negative	2
52	Male	60	Antrum	Unknown	III	ACT	0	108	0	97	Negative	4
53	Female	20	Antrum	Unknown	II	ACT	1	70	1	44	Positive	6
54	Female	34	Body	Unknown	II	ACT	0	108	0	97	Negative	3
55	Female	46	Mixed	Unknown	III	ACT	1	22	1	10	Positive	6
56	Male	82	Antrum	Unknown	I	No ACT	1	39	1	39	Negative	3
57	Male	67	Cardia	Unknown	III	ACT	1	32	1	11	Positive	4
58	Male	76	Antrum	Unknown	III	No ACT	0	104	0	96	Positive	1
59	Male	74	Cardia	Unknown	II	No ACT	0	107	0	97	Positive	0
60	Female	81	Antrum	Unknown	III	No ACT	1	37	1	20	Positive	4
61	Male	73	Cardia	Unknown	II	No ACT	1	27	1	27	Positive	6
62	Male	53	Cardia	Unknown	I	No ACT	0	106	0	96	Positive	9
63	Male	55	Antrum	Unknown	II	ACT	0	106	0	96	Negative	4
64	Female	30	Body	Unknown	III	ACT	1	50	1	48	Positive	6
65	Male	69	Cardia	Unknown	III	ACT	0	106	0	96	Negative	6
66	Female	58	Cardia	Unknown	III	No ACT	1	15	1	12	Positive	6
67	Male	77	Cardia	Unknown	II	No ACT	0	107	0	96	Negative	6
68	Male	45	Antrum	Unknown	III	ACT	1	83	1	59	Negative	3
69	Male	77	Mixed	Unknown	III	No ACT	1	36	1	36	Negative	6
70	Male	54	Mixed	Unknown	III	ACT	1	34	1	6	Positive	9
71	Female	66	Antrum	Unknown	II	ACT	0	106	0	97	Negative	4
72	Male	60	Cardia	Unknown	III	ACT	0	107	0	95	Positive	3
73	Male	48	Cardia	Unknown	III	No ACT	0	105	0	96	Positive	1
74	Male	67	Cardia	Unknown	I	No ACT	1	103	0	97.3	Positive	4
75	Male	61	Antrum	Unknown	I	No ACT	0	104	0	96	Positive	4
76	Male	60	Antrum	Unknown	I	No ACT	1	67	1	67	Positive	9
77	Female	74	Body	Unknown	II	No ACT	1	37	1	22	Positive	9
78	Male	74	Antrum	Unknown	III	ACT	1	8	1	7	Positive	6
79	Female	63	Cardia	Unknown	III	ACT	1	3	1	3	Positive	6
80	Female	59	Mixed	Unknown	II	ACT	1	95	1	93	Positive	6
81	Female	58	Antrum	Unknown	III	ACT	1	67	1	47	Positive	4
82	Male	57	Cardia	Unknown	II	ACT	1	105	0	93	Positive	3
83	Male	60	Antrum	Unknown	I	ACT	0	105	0	97	Negative	1
84	Female	84	Antrum	Unknown	I	No ACT	0	104	0	94	Positive	9
85	Male	86	Antrum	Unknown	II	No ACT	0	104	0	94	Negative	6
86	Male	65	Antrum	Unknown	II	No ACT	1	23	1	20	Positive	9
87	Female	53	Antrum	Unknown	I	No ACT	0	104	0	95	Negative	6
88	Male	62	Cardia	Unknown	I	No ACT	1	14	1	14	Negative	4

89	Male	70	Antrum	Unknown	III	No ACT	1	1	1	1	Negative	6
90	Male	68	Body	Unknown	III	Unknown	1	27	1	11	Positive	6
91	Male	59	Antrum	Unknown	III	ACT	1	30	1	18	Positive	1
92	Male	65	Cardia	Unknown	I	No ACT	0	104	1	86	Negative	3
93	Female	63	Antrum	Unknown	I	ACT	0	105	0	94	Negative	4
94	Female	60	Mixed	Unknown	II	No ACT	1	24	1	21	Positive	3
95	Male	70	Cardia	Unknown	III	No ACT	1	6	1	6	Positive	6
96	Female	32	Antrum	Unknown	III	ACT	1	36	1	9	Positive	6
97	Female	71	Antrum	Unknown	III	ACT	1	21	1	21	Negative	6
98	Male	73	Cardia	Unknown	II	No ACT	1	40	1	40	Negative	2
99	Female	63	Antrum	Unknown	II	ACT	0	106	0	93	Positive	6
100	Female	49	Cardia	Unknown	II	ACT	0	104	0	95.3	Negative	3
101	Male	61	Mixed	Unknown	II	ACT	1	24	1	11	Positive	3
102	Male	52	Antrum	Unknown	II	ACT	0	103	0	94	Positive	6
103	Male	58	Antrum	Unknown	III	ACT	0	102	0	94	Positive	4
104	Male	69	Cardia	Unknown	III	ACT	1	16	1	12	Negative	2
105	Female	54	Antrum	Unknown	III	Unknown	1	38	1	21	Negative	4
106	Male	78	Cardia	Unknown	II	ACT	0	101	0	93	Negative	4
107	Male	42	Antrum	Unknown	III	Unknown	1	48	1	33	Positive	6
108	Male	49	Antrum	Unknown	II	ACT	0	103	0	94	Positive	4
109	Male	49	Cardia	Unknown	II	ACT	0	102	0	93	Positive	6
110	Male	76	Cardia	Unknown	III	ACT	1	32	1	17	Negative	2
111	Male	66	Antrum	Unknown	III	ACT	0	104	0	93	Negative	0
112	Male	75	Cardia	Unknown	II	ACT	0	101	0	92	Positive	6
113	Male	45	Body	Unknown	II	ACT	1	48	1	40	Positive	6
114	Male	57	Mixed	Unknown	III	ACT	1	61	1	45	Positive	4
115	Male	81	Cardia	Unknown	II	No ACT	1	14	1	14	Positive	2
116	Female	37	Antrum	Unknown	III	ACT	0	102	0	92	Negative	2
117	Male	75	Body	Unknown	III	ACT	1	12	1	8	Positive	3
118	Male	71	Antrum	Unknown	III	ACT	1	33	1	28	Positive	6
119	Male	49	Body	Unknown	III	No ACT	1	19	1	19	Positive	6
120	Male	65	Cardia	Unknown	II	ACT	0	101	0	91	Positive	4
121	Female	68	Cardia	Unknown	III	ACT	1	51	1	15	Negative	
122	Female	91	Cardia	Unknown	II	No ACT	1	33	1	33	Negative	
123	Male	69	Body	Unknown	II	Unknown	1	8	1	8	Positive	
124	Male	53	Antrum	Unknown	II	ACT	0	103	0	92	Negative	
125	Male	63	Cardia	Unknown	III	ACT	1	30	1	11	Positive	
126	Male	79	Antrum	Unknown	II	No ACT	1	41	1	41	Positive	
127	Male	47	Cardia	Unknown	III	ACT	1	35	1	18	Positive	
128	Male	75	Cardia	Unknown	III	No ACT	1	12	1	12	Negative	
129	Male	70	Antrum	Unknown	I	ACT	0	100	0	91	Negative	
130	Female	37	Body	Unknown	II	ACT	0	91	0	91	Negative	
131	Male	44	Body	Unknown	III	ACT	1	5	1	5	Positive	
132	Male	62	Body	Unknown	III	No ACT	1	9	1	9	Positive	
133	Male	60	Antrum	Unknown	III	ACT	1	23	1	23	Positive	
134	Male	72	Antrum	Unknown	III	ACT	1	75.9	1	76	Positive	
135	Female	72	Body	Unknown	III	Unknown	1	7	1	4	Positive	

136	Male	62	Antrum	≤ 5.0cm	IV	No ACT	1	9			Negative	Negative
137	Male	50	Antrum	Unknown	III	ACT	1	9	1	9	Negative	
138	Male	66	Antrum	Unknown	I	ACT	0	104	0	90	Positive	
139	Female	55	Body	Unknown	III	Unknown	1	3	1	1	Negative	
140	Male	83	Antrum	Unknown	II	No ACT	1	60	1	60	Positive	
141	Male	78	Antrum	Unknown	III	No ACT	1	60	1	59	Positive	
142	Male	63	Antrum	Unknown	II	ACT	1	11	1	10	Positive	
143	Male	54	Antrum	Unknown	II	ACT	1	74	1	67	Positive	
144	Male	60	Cardia	Unknown	III	Unknown	1	12	1	12	Positive	
145	Male	73	Cardia	Unknown	II	ACT	1	32	1	32	Negative	
146	Female	65	Cardia	Unknown	I	ACT	0	100	0	90	Negative	
147	Male	66	Antrum	Unknown	III	No ACT	1	11	1	9	Positive	
148	Male	66	Mixed	Unknown	III	ACT	1	34	1	32	Negative	
149	Female	53	Antrum	Unknown	I	ACT	0	103	0	91	Negative	
150	Male	45	Body	Unknown	II	ACT	0	100	0	91	Negative	
151	Female	78	Antrum	Unknown	III	No ACT	1	7	1	4	Positive	
152	Male	77	Cardia	Unknown	II	No ACT	0	99	0	89	Positive	
153	Male	48	Antrum	Unknown	I	ACT	0	100	0	93.6	Negative	
154	Male	81	Antrum	Unknown	II	No ACT	0	102	0	90	Negative	
155	Male	62	Body	Unknown	III	No ACT	1	24	1	17	Positive	
156	Male	59	Antrum	Unknown	III	No ACT	1	24	1	21	Positive	
157	Male	50	Antrum	Unknown	II	No ACT	0	100	0	90	Negative	
158	Female	38	Mixed	Unknown	III	No ACT	1	24	1	22	Negative	
159	Male	54	Cardia	Unknown	III	ACT	0	100	0	88	Negative	
160	Female	55	Antrum	Unknown	III	ACT	0	98	0	89	Negative	
161	Male	73	Antrum	Unknown	II	ACT	0	101	0	90	Negative	
162	Male	71	Body	Unknown	II	No ACT	1	32	1	30	Positive	
163	Male	81	Body	Unknown	III	No ACT	1	52	1	48	Negative	
164	Male	80	Body	Unknown	III	No ACT	1	11	1	11	Negative	
165	Male	65	Cardia	Unknown	III	ACT	0	100	0	89	Positive	
166	Male	68	Mixed	Unknown	III	Unknown	1	46	1	31	Positive	
167	Female	43	Mixed	Unknown	III	ACT	0	102	1	90	Negative	
168	Male	76	Body	Unknown	III	ACT	1	14	1	11	Positive	
169	Male	62	Cardia	Unknown	III	ACT	0	98	0	77	Positive	
170	Male	54	Antrum	Unknown	III	ACT	0	99	0	88	Positive	
171	Male	66	Antrum	Unknown	I	ACT	0	99	0	88	Positive	
172	Female	68	Cardia	Unknown	III	ACT	0	98	0	89	Negative	
173	Male	71	Body	Unknown	III	No ACT	1	8	1	5	Negative	
174	Female	69	Cardia	Unknown	III	No ACT	1	6	1	6	Negative	
175	Female	56	Antrum	Unknown	III	ACT	0	101	0	89	Positive	
176	Male	53	Cardia	Unknown	II	ACT	0	99	0	89	Positive	
177	Female	55	Body	Unknown	III	ACT	1	23	1	15	Positive	
178	Male	64	Mixed	Unknown	III	ACT	1	46	1	18	Positive	
179	Male	66	Cardia	Unknown	III	Unknown	0	98	0	88	Positive	
180	Female	41	Body	Unknown	II	Unknown	0	100	0	89	Negative	
181	Female	52	Antrum	Unknown	III	ACT	1	39	1	31	Negative	
182	Male	78	Cardia	Unknown	II	No ACT	1	9	1	9	Negative	

183	Male	53	Cardia	Unknown	I	ACT	0	98	0	87	Negative
184	Male	59	Cardia	Unknown	II	No ACT	1	10	1	7	Positive
185	Male	81	Cardia	Unknown	III	ACT	1	8	1	8	Negative
186	Male	74	Body	Unknown	III	No ACT	1	8	1	8	Positive
187	Male	62	Cardia	Unknown	II	ACT	0	99	0	88	Positive
188	Male	53	Antrum	Unknown	III	ACT	0	98	0	89	Negative
189	Female	34	Body	Unknown	I	ACT	0	96	0	88	Negative
190	Male	79	Antrum	Unknown	III	No ACT	1	41	1	36	Negative
191	Male	78	Cardia	≤ 5.0cm	III	No ACT	1	13			Positive Negative
192	Female	73	Antrum	Unknown	I	ACT	0	97	1	6	Positive
193	Male	58	Cardia	Unknown	II	ACT	1	90	0	87	Positive
194	Female	58	Antrum	Unknown	II	ACT	0	97	0	87	Positive
195	Male	41	Antrum	Unknown	III	No ACT	1	19	1	19	Negative
196	Female	42	Antrum	Unknown	III	ACT	1	18	1	12	Positive
197	Male	60	Antrum	Unknown	III	No ACT	1	16	1	10	Negative
198	Male	69	Antrum	Unknown	III	No ACT	1	26	1	24	Positive
199	Female	63	Cardia	Unknown	II	ACT	0	97	0	88	Positive
200	Male	70	Antrum	Unknown	III	ACT	0	95	0	88	Negative
201	Female	43	Antrum	Unknown	I	Unknown	0	96	0	87.5	Negative
202	Male	58	Antrum	Unknown	III	ACT	1	17	1	11	Positive
203	Male	55	Antrum	Unknown	III	ACT	1	46	1	16	Positive
204	Male	73	Cardia	Unknown	II	ACT	1	10	1	1	Positive
205	Male	59	Antrum	Unknown	II	No ACT	0	96	0	86	Negative
206	Female	68	Antrum	Unknown	II	ACT	0	97	0	86	Negative
207	Male	65	Mixed	Unknown	III	No ACT	1	8	1	8	Positive
208	Male	61	Antrum	Unknown	III	ACT	1	11	1	7	Negative
209	Male	73	Antrum	Unknown	I	ACT	0	97	0	86	Negative
210	Male	67	Antrum	Unknown	III	ACT	0	96	0	86	Negative
211	Male	62	Body	Unknown	III	ACT	0	97	0	85	Positive
212	Male	70	Body	Unknown	III	ACT	0	95	0	86	Positive
213	Male	37	Antrum	Unknown	III	Unknown	1	31	1	26	Positive
214	Male	64	Mixed	Unknown	III	No ACT	1	17	1	10	Positive
215	Male	60	Mixed	Unknown	III	ACT	1	8	1	7	Positive
216	Female	55	Body	Unknown	III	ACT	1	36	1	20	Positive
217	Male	63	Mixed	Unknown	III	ACT	1	42	1	42	Negative
218	Male	60	Mixed	Unknown	III	ACT	0	96	0	85	Positive
219	Female	50	Antrum	Unknown	III	ACT	0	96	0	85	Negative
220	Male	70	Cardia	Unknown	III	ACT	1	10	1	62	Negative
221	Male	46	Antrum	Unknown	II	No ACT	0	93	0	85	Positive
222	Male	65	Body	Unknown	III	No ACT	1	19	1	19	Negative
223	Male	58	Antrum	Unknown	III	ACT	0	96	0	85	Negative
224	Male	62	Body	Unknown	II	ACT	0	95	0	85	Positive
225	Male	71	Antrum	Unknown	III	ACT	0	93	0	85	Positive
226	Female	58	Cardia	Unknown	II	ACT	0	94	0	84	Negative
227	Male	60	Cardia	Unknown	II	ACT	0	95	0	86.7	Negative
228	Male	61	Body	Unknown	III	ACT	1	29	1	6	Positive
229	Male	72	Body	Unknown	III	No ACT	1	31	1	27	Positive

230	Male	64	Antrum	Unknown	III	ACT	1	7	1	4	Positive
231	Male	62	Cardia	Unknown	III	ACT	0	93	0	84	Positive
232	Female	56	Antrum	Unknown	III	No ACT	0	93	0	83	Positive
233	Female	74	Antrum	Unknown	II	Unknown	0	93	0	84	Negative
234	Male	63	Antrum	Unknown	III	ACT	1	10	1	8	Positive
235	Female	66	Antrum	Unknown	III	No ACT	1	20	1	3	Positive
236	Female	55	Mixed	Unknown	III	No ACT	1	58	1	42	Positive
237	Male	71	Mixed	Unknown	III	No ACT	0	91	0	83	Positive
238	Female	76	Cardia	Unknown	II	No ACT	0	93	0	82	Positive
239	Male	58	Cardia	Unknown	II	Unknown	0	95.6	1	75	Positive
240	Female	49	Antrum	Unknown	III	No ACT	0	94	0	84	Negative
241	Male	60	Body	Unknown	II	ACT	0	93	0	82	Negative
242	Male	57	Body	Unknown	III	ACT	1	22	1	22	Negative
243	Male	67	Cardia	Unknown	III	Unknown	1	71	1	62	Positive
244	Female	70	Antrum	≤ 5.0cm	II	ACT	0	82			Negative Negative
245	Male	67	Antrum	≤ 5.0cm	II	No ACT	0	83			Negative Positive
246	Female	71	Antrum	≤ 5.0cm	III	ACT	1	8			Positive Negative
247	Female	56	Antrum	> 5.0cm	III	ACT	1	79			Negative Negative
248	Male	71	Antrum	> 5.0cm	II	ACT	0	83			Negative Negative
249	Female	73	Antrum	> 5.0cm	III	No ACT	1	21			Negative Negative
250	Male	68	Antrum	> 5.0cm	III	ACT	0	80			Negative Negative
251	Male	54	Mixed	≤ 5.0cm	III	No ACT	1	84			Positive Negative
252	Female	49	Body	≤ 5.0cm	II	No ACT	0	80			Negative Negative
253	Male	69	Antrum	≤ 5.0cm	II	No ACT	1	51			Positive Positive
254	Female	68	Antrum	> 5.0cm	III	ACT	0	82			Negative Negative
255	Female	61	Antrum	≤ 5.0cm	III	ACT	1	82			Positive Positive
256	Male	58	Antrum	> 5.0cm	III	ACT	1	81			Negative Negative
257	Male	61	Antrum	> 5.0cm	II	No ACT	1	81			Positive Negative
258	Male	61	Antrum	≤ 5.0cm	II	No ACT	1	70			Positive Negative
259	Male	84	Antrum	≤ 5.0cm	III	ACT	0	72			Positive Positive
260	Female	72	Antrum	≤ 5.0cm	II	ACT	1	59			Negative Negative
261	Male	55	Cardia	> 5.0cm	III	ACT	1	45			Positive Positive
262	Male	70	Cardia	> 5.0cm	II	ACT	0	81			Negative Negative
263	Female	61	Antrum	≤ 5.0cm	II	ACT	0	80			Positive Positive
264	Male	44	Antrum	≤ 5.0cm	III	ACT	1	42			Negative Positive
265	Male	57	Cardia	≤ 5.0cm	III	ACT	0	80			Negative Negative
266	Male	35	Antrum	≤ 5.0cm	III	ACT	0	80			Negative Positive
267	Female	62	Antrum	≤ 5.0cm	III	No ACT	0	81.9			Positive Positive
268	Male	60	Cardia	> 5.0cm	III	ACT	1	32.9			Negative Negative
269	Female	75	Mixed	> 5.0cm	III	ACT	1	78			Positive Negative
270	Female	74	Antrum	≤ 5.0cm	III	ACT	0	81			Negative Positive
271	Male	72	Antrum	≤ 5.0cm	II	No ACT	0	78			Positive Negative
272	Male	71	Antrum	≤ 5.0cm	III	ACT	0	79			Positive Positive
273	Male	69	Cardia	≤ 5.0cm	II	ACT	0	76			Positive Positive
274	Male	67	Body	> 5.0cm	II	ACT	0	77			Negative Negative
275	Male	83	Body	≤ 5.0cm	III	ACT	1	26			Positive Positive
276	Male	64	Mixed	≤ 5.0cm	I	Unknown	1	76			Positive Negative

277	Male	61	Antrum	> 5.0cm	III	ACT	1	14	Positive	Negative
278	Male	67	Body	> 5.0cm	III	ACT	1	12	Positive	Negative
279	Male	67	Cardia	> 5.0cm	III	ACT	1	23	Negative	Positive
280	Male	68	Cardia	Unknown	II	ACT	0	76	Negative	Positive
281	Male	60	Cardia	≤ 5.0cm	I	No ACT	0	76	Positive	Negative
282	Male	59	Cardia	≤ 5.0cm	III	No ACT	1	23	Positive	Negative
283	Male	69	Antrum	≤ 5.0cm	III	Unknown	1	54	Positive	Positive
284	Male	65	Body	> 5.0cm	II	ACT	0	75	Negative	Negative
285	Female	60	Antrum	≤ 5.0cm	III	ACT	0	75	Negative	Negative
286	Female	66	Mixed	≤ 5.0cm	III	No ACT	1	12	Positive	Negative
287	Male	56	Antrum	> 5.0cm	III	ACT	0	75	Positive	Negative
288	Male	81	Cardia	> 5.0cm	IV	No ACT	1	6	Negative	Positive
289	Male	68	Mixed	≤ 5.0cm	I	No ACT	0	76	Positive	Negative
290	Male	66	Antrum	> 5.0cm	III	No ACT	1	21	Negative	Negative
291	Male	57	Cardia	> 5.0cm	III	Unknown	1	3	Positive	Negative
292	Male	63	Cardia	> 5.0cm	II	No ACT	0	77	Negative	Negative
293	Male	59	Antrum	≤ 5.0cm	III	No ACT	0	65	Positive	Negative
294	Female	45	Cardia	≤ 5.0cm	IV	No ACT	1	46	Negative	Positive
295	Male	83	Cardia	≤ 5.0cm	III	No ACT	1	41	Negative	Positive
296	Male	71	Antrum	≤ 5.0cm	II	Unknown	0	74	Negative	Negative
297	Female	67	Cardia	≤ 5.0cm	II	ACT	1	2	Positive	Negative
298	Male	68	Cardia	≤ 5.0cm	III	No ACT	1	7	Negative	Positive
299	Female	66	Body	≤ 5.0cm	I	Unknown	0	73	Positive	Negative
300	Male	72	Body	> 5.0cm	III	ACT	0	75	Positive	Positive
301	Male	55	Body	> 5.0cm	III	No ACT	0	75	Positive	Positive
302	Male	45	Antrum	> 5.0cm	III	ACT	0	76.2	Negative	Negative
303	Male	38	Cardia	≤ 5.0cm	II	ACT	0	75	Positive	Negative
304	Male	55	Cardia	> 5.0cm	III	ACT	1	23	Negative	Negative
305	Male	62	Mixed	≤ 5.0cm	III	No ACT	1	53	Positive	Positive
306	Male	62	Body	≤ 5.0cm	II	ACT	0	72	Negative	Negative
307	Female	37	Antrum	≤ 5.0cm	III	Unknown	0	72	Negative	Positive
308	Male	56	Antrum	≤ 5.0cm	I	No ACT	0	73	Positive	Positive
309	Male	65	Antrum	> 5.0cm	II	Unknown	0	75	Negative	Negative
310	Male	56	Body	> 5.0cm	III	ACT	1	8	Positive	Negative
311	Male	81	Antrum	≤ 5.0cm	III	Unknown	1	29	Negative	Positive
312	Male	46	Mixed	> 5.0cm	IV	No ACT	1	10	Negative	Positive
313	Male	59	Cardia	> 5.0cm	III	ACT	1	19	Positive	Negative
314	Male	52	Cardia	> 5.0cm	III	No ACT	0	73	Positive	Positive
315	Male	66	Antrum	> 5.0cm	II	No ACT	0	43	Negative	Positive
316	Female	75	Body	≤ 5.0cm	III	No ACT	1	73	Negative	Positive
317	Male	64	Cardia	> 5.0cm	II	No ACT	1	50	Negative	Positive
318	Female	67	Antrum	≤ 5.0cm	II	ACT	0	73	Negative	Negative
319	Female	29	Antrum	≤ 5.0cm	IV	No ACT	1	8	Positive	Negative
320	Male	43	Antrum	≤ 5.0cm	IV	Unknown	0	60	Negative	Negative
321	Male	61	Cardia	≤ 5.0cm	I	No ACT	1	61	Negative	Negative
322	Male	67	Cardia	≤ 5.0cm	III	No ACT	1	36	Negative	Positive
323	Male	66	Antrum	≤ 5.0cm	III	No ACT	0	62	Negative	Positive

324	Male	49	Antrum	> 5.0cm	III	ACT	0	60	Negative	Negative
325	Male	73	Cardia	> 5.0cm	III	No ACT	1	22	Negative	Negative
326	Male	74	Body	> 5.0cm	III	No ACT	0	59	Negative	Negative
327	Female	39	Antrum	≤ 5.0cm	III	Unknown	1	23	Negative	Negative
328	Male	66	Cardia	> 5.0cm	III	ACT	0	58	Negative	Negative
329	Male	63	Body	≤ 5.0cm	III	ACT	1	58.4	Negative	Positive
330	Male	56	Cardia	≤ 5.0cm	II	ACT	0	57	Negative	Negative
331	Male	66	Cardia	> 5.0cm	III	ACT	1	35	Positive	Negative
332	Male	68	Mixed	> 5.0cm	IV	No ACT	1	13	Negative	Negative
333	Female	68	Body	> 5.0cm	III	ACT	0	57	Negative	Negative
334	Male	65	Cardia	> 5.0cm	III	No ACT	1	5	Positive	Negative
335	Female	75	Cardia	> 5.0cm	III	No ACT	1	11	Positive	Negative
336	Male	69	Antrum	≤ 5.0cm	III	ACT	0	53	Positive	Negative
337	Male	53	Body	> 5.0cm	III	No ACT	1	17	Positive	Positive
338	Male	52	Body	> 5.0cm	III	ACT	0	57	Negative	Negative
339	Male	67	Body	≤ 5.0cm	III	Unknown	1	26	Negative	Positive
340	Male	50	Body	≤ 5.0cm	IV	Unknown	1	6	Positive	Positive
341	Male	53	Antrum	> 5.0cm	III	ACT	0	56	Negative	Positive
342	Male	69	Cardia	> 5.0cm	III	No ACT	1	28	Positive	Positive
343	Male	54	Body	> 5.0cm	III	Unknown	1	21	Positive	Negative
344	Male	70	Body	> 5.0cm	II	No ACT	0	57	Positive	Negative
345	Male	60	Cardia	> 5.0cm	III	ACT	0	53	Positive	Negative
346	Male	50	Body	> 5.0cm	III	ACT	1	21	Positive	Negative
347	Female	50	Antrum	≤ 5.0cm	II	ACT	0	56	Positive	Positive
348	Male	66	Cardia	≤ 5.0cm	III	Unknown	0	57	Positive	Negative
349	Male	66	Cardia	> 5.0cm	II	ACT	0	57	Positive	Positive
350	Female	80	Antrum	≤ 5.0cm	II	ACT	1	44	Negative	Negative
351	Female	71	Antrum	≤ 5.0cm	III	No ACT	1	54	Negative	Negative
352	Male	50	Antrum	≤ 5.0cm	III	No ACT	0	54	Negative	Negative
353	Male	55	Body	Unknown	II	No ACT	0	56	Negative	Positive
354	Male	63	Mixed	> 5.0cm	III	ACT	1	27	Positive	Negative
355	Male	46	Cardia	≤ 5.0cm	I	No ACT	0	56	Negative	Positive
356	Female	64	Antrum	≤ 5.0cm	III	No ACT	1	6	Negative	Negative
357	Female	28	Antrum	> 5.0cm	IV	No ACT	1	28	Negative	Positive
358	Male	42	Cardia	≤ 5.0cm	III	No ACT	0	56	Positive	Negative
359	Male	66	Mixed	> 5.0cm	III	ACT	0	55	Positive	Negative
360	Male	83	Cardia	> 5.0cm	III	ACT	1	19	Negative	Negative
361	Male	79	Antrum	> 5.0cm	III	No ACT	0	53	Positive	Negative
362	Male	49	Cardia	≤ 5.0cm	III	No ACT	1	16	Positive	Positive
363	Male	47	Body	≤ 5.0cm	III	Unknown	0	55	Positive	Negative
364	Male	72	Mixed	≤ 5.0cm	II	ACT	1	56	Positive	Positive
365	Male	70	Cardia	≤ 5.0cm	III	ACT	1	55	Negative	Positive

Table S9. Characteristics of 365 patients with gastric cancer between RASAL2 negative and positive expressions (Local cohort)

Clinicopathological features	Total (n=365)	RASAL2 expression		p value
		Negative	Positive	
Age at diagnosis	365	61.8 ± 12.5	62.3 ± 11.1	
Gender				0.093
Male	270	109	161	
Female	95	48	47	
Tumor location				0.157
Cardia	106	44	62	
Body	66	29	37	
Antrum	156	74	82	
Mixed	37	10	27	
Tumor size (cm)				0.959
≤ 5.0	88	39	49	
> 5.0	80	34	46	
Unknown	197	84	113	
AJCC stage				0.069
I	37	17	20	
II	98	47	51	
III	221	86	135	
IV	9	7	2	
T stage				0.330
T1	22	9	13	
T2	46	22	24	
T3	136	65	71	
T4	161	61	100	
N stage				0.709
N0	76	32	44	
N1	62	30	32	
N2	87	39	48	
N3	140	56	84	
M stage				0.042*
M0	356	150	206	
M1	9	7	2	

Table S10. Characteristics of 300 patients with gastric cancer between RASAL2 low and high expressions (GSE66229)

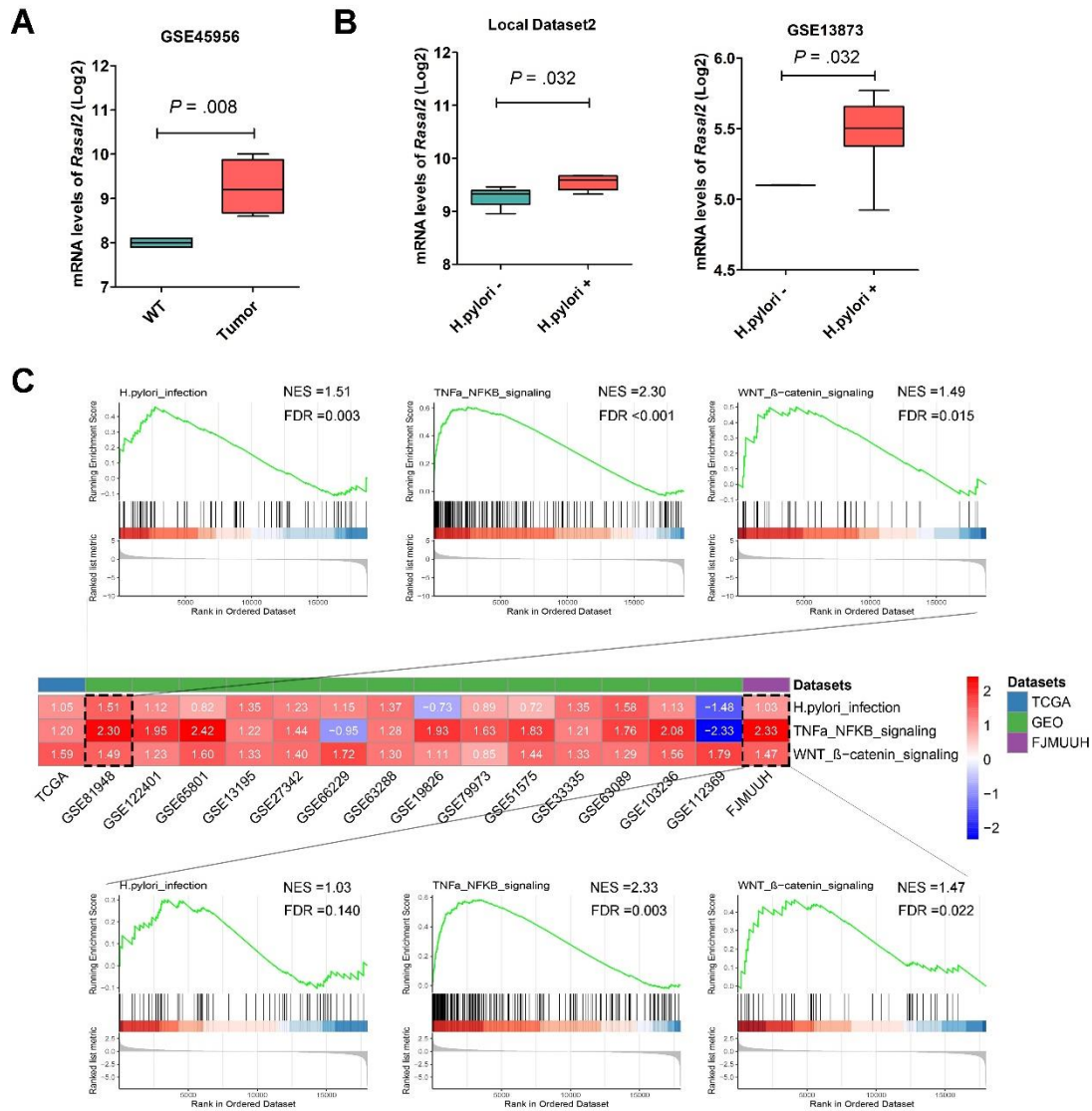
Clinicopathological features	Total (n=300)	RASAL2 expression		p value
		Low	High	
Age at diagnosis	300	62.7 ± 11.5	61.6 ± 11.3	
Gender				0.540
Male	199	62	137	
Female	101	35	66	
Tumor site				0.723
Cardia	30	8	22	
Body	107	32	75	
Antrum	150	52	98	
Mixed	13	5	8	
Lauren type				0.730
Intestinal	146	44	102	
Diffuse	134	46	88	
Mixed	20	7	13	
AJCC stage				0.040*
I	31	17	14	
II	105	33	72	
III	137	40	97	
IV	27	7	20	
T stage				0.200
T2	188	67	121	
T3	91	26	65	
T4	21	4	17	
N stage				0.004*
N0	38	18	20	
N1	56	16	40	
N2	75	31	44	
N3a	79	25	54	
N3b	52	7	45	
M stage				0.456
M0	273	90	183	
M1	27	7	20	

Table S11. Univariate and multivariate cox regression analysis of clinicopathologic factors with overall survival in GC patients (Local cohort)

Characteristic	Univariate			Multivariate		
	HR	95% CI	<i>P</i>	HR	95% CI	<i>P</i>
Age at diagnosis	1.017	1.004-1.029	0.010*	1.023	1.010-1.037	0.001*
Gender			0.689			
Female		Reference				
Male	0.937	0.681-1.288				
Tumor location			0.002*			0.010*
Cardia		Reference			Reference	
Body	1.218	0.816-1.819		1.277	0.852-1.915	
Antrum	0.683	0.484-0.963		0.690	0.488-0.975	
Mixed	1.447	0.928-2.255		1.112	0.709-1.743	
Tumor size			0.100			
≤ 5.0		Reference				
> 5.0	1.525	1.014-2.293				
Unknown	1.130	0.794-1.609				
AJCC stage			<0.001*			<0.001*
I		Reference			Reference	
II	1.574	0.755-3.283		1.513	0.724-3.163	
III	4.627	2.351-9.104		4.373	2.212-8.644	
IV	12.516	4.785-32.739		26.090	9.495-71.688	
RASAL2 expression			<0.001*			<0.001*
Negative		Reference			Reference	
Positive	1.761	1.312-2.363		1.753	1.288-2.385	

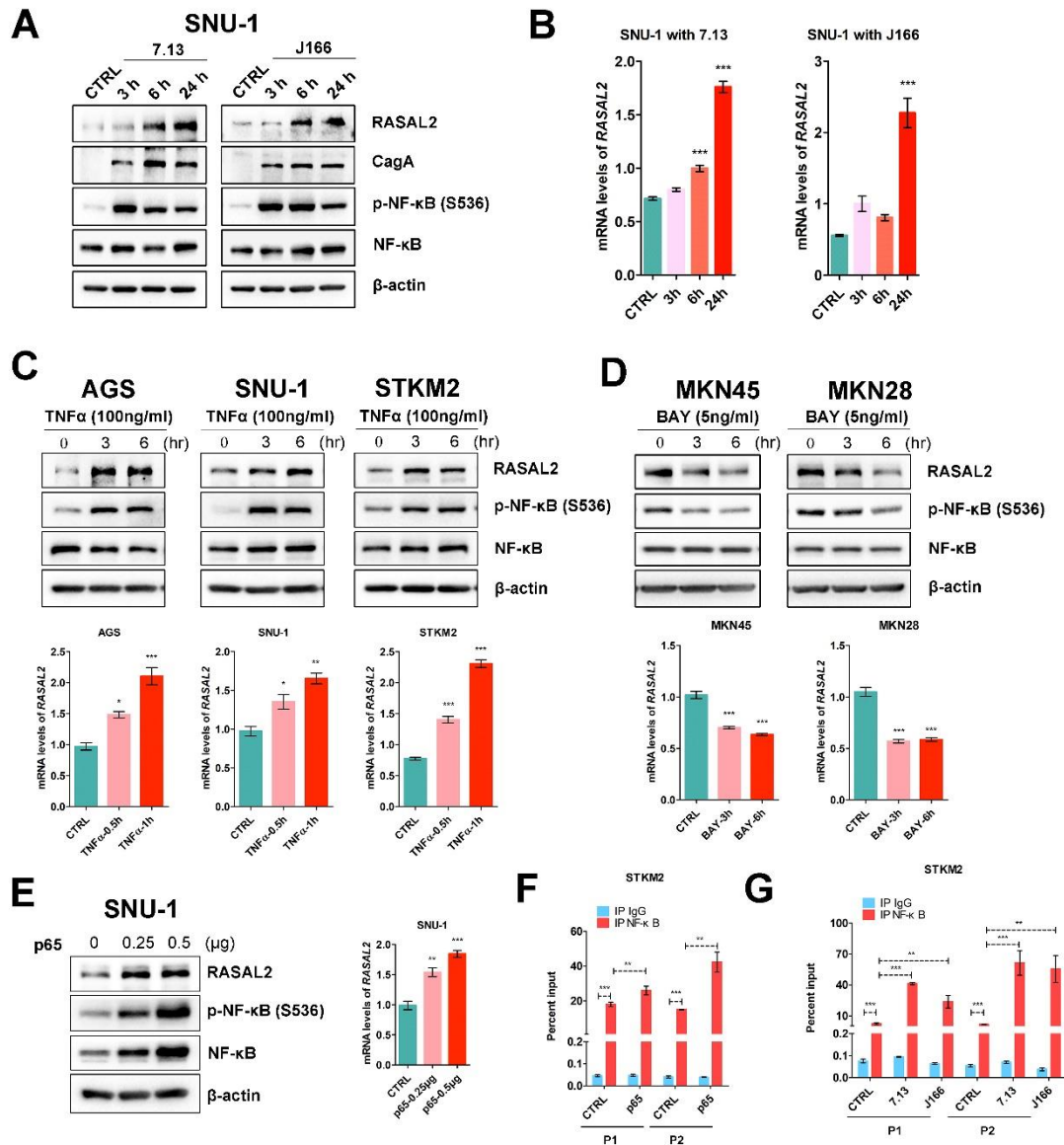
Table S12. Univariate and multivariate cox regression analysis of clinicopathologic factors with overall survival in GC patients (GSE66229)

Characteristic	Univariate			Multivariate		
	HR	95% CI	<i>P</i>	HR	95% CI	<i>P</i>
Age at diagnosis	1.010	0.995-1.026	0.181			
Gender			0.559			
Female		Reference				
Male	0.905	0.647-1.265				
Tumor site			0.222			
Cardia		Reference				
Body	0.641	0.383-1.073				
Antrum	0.605	0.368-0.994				
Mixed	0.826	0.364-1.877				
Lauren type			0.003*			0.059
Intestinal		Reference			Reference	
Diffuse	1.669	1.192-2.338		1.271	0.894-1.807	
Mixed	2.153	1.202-3.855		2.072	1.149-3.737	
AJCC stage			<0.001*			<0.001*
I		Reference			Reference	
II	2.306	0.906-5.865		2.027	0.792-5.183	
III	5.263	2.133-12.989		4.345	1.741-10.844	
IV	13.187	5.027-34.592		11.305	4.214-30.330	
RASAL2 expression			0.003*			0.004*
Low		Reference			Reference	
High	1.754	1.211-2.541		1.727	1.187-2.512	



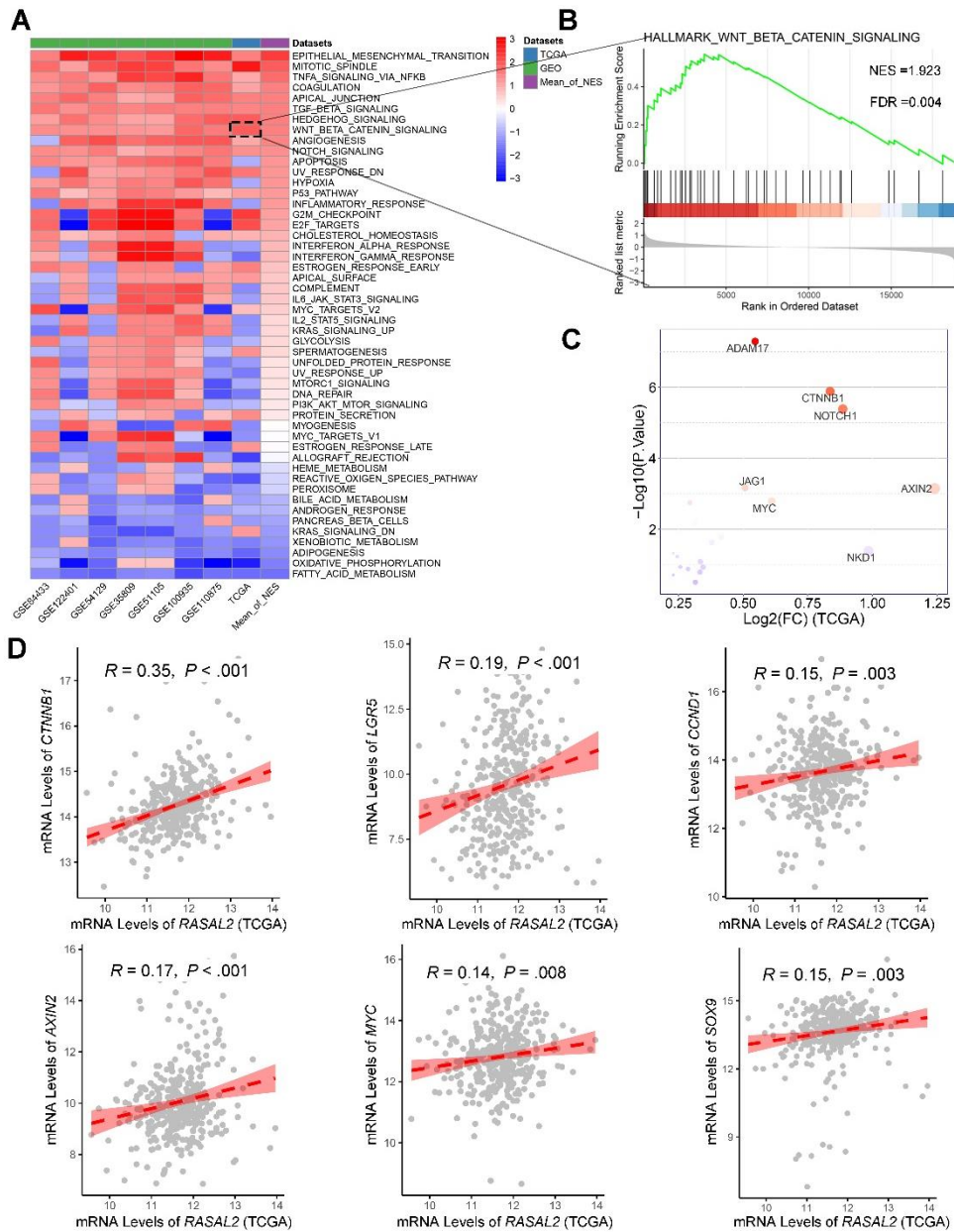
Supplementary Figure 1. *H. pylori* infection upregulates RASAL2 mRNA expression

(A) *Rasal2* mRNA expression in mouse primary GC models from a GEO dataset (GSE45956). (B) *Rasal2* mRNA expression level in mouse samples with and without *H. pylori* infection in our local cohort (TFF1-knockout mouse model) and in GSE13873 cohort (*H. pylori* infection of C57BL/6 mouse model). (C) Gene set enrichment analysis (GSEA) was employed for *H. pylori* infection and its downstream signaling (downloaded from MSigDB), using the differential expressed genes (DEGs) identified by the *RASAL2*-high group vs. *RASAL2*-low group in the TCGA, GEO and local cohorts. NES: normalization enrichment score, FDR: false discovery rate.



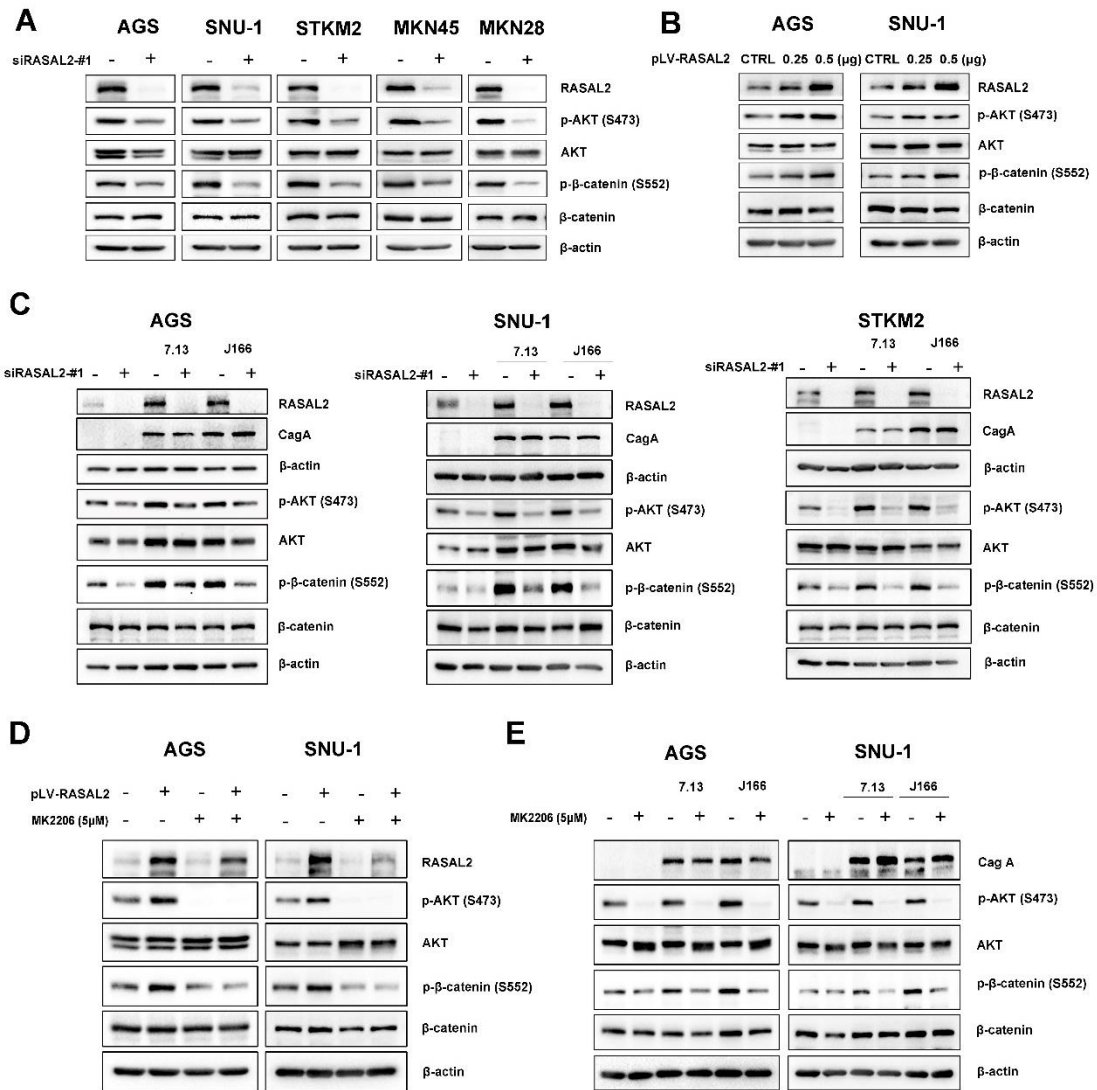
Supplementary Figure 2. *H. pylori* infection upregulates RASAL2 mRNA expression via induction of NF-κB

(A and B) Western blots (A) and qRT-PCR analyses (B) of RASAL2 expression in SNU-1 cells following *H. pylori* infection. The infected cells were harvested at indicated time course. *** $P < .001$. (C-E) Western blots and qRT-PCR analysis of RASAL2 and/or NF-κB in the GC cell lines with TNFα (C), BAY 11-7082 (D), or transient overexpression of p65 (NF-κB) (E); * $P < .05$, ** $P < .01$, *** $P < .001$. (F and G) Chromatin immunoprecipitation (ChIP) assays were performed in STKM2 cells with p65 transient expression (H) or with *H. pylori* infections (I). ** $P < .01$, *** $P < .001$.



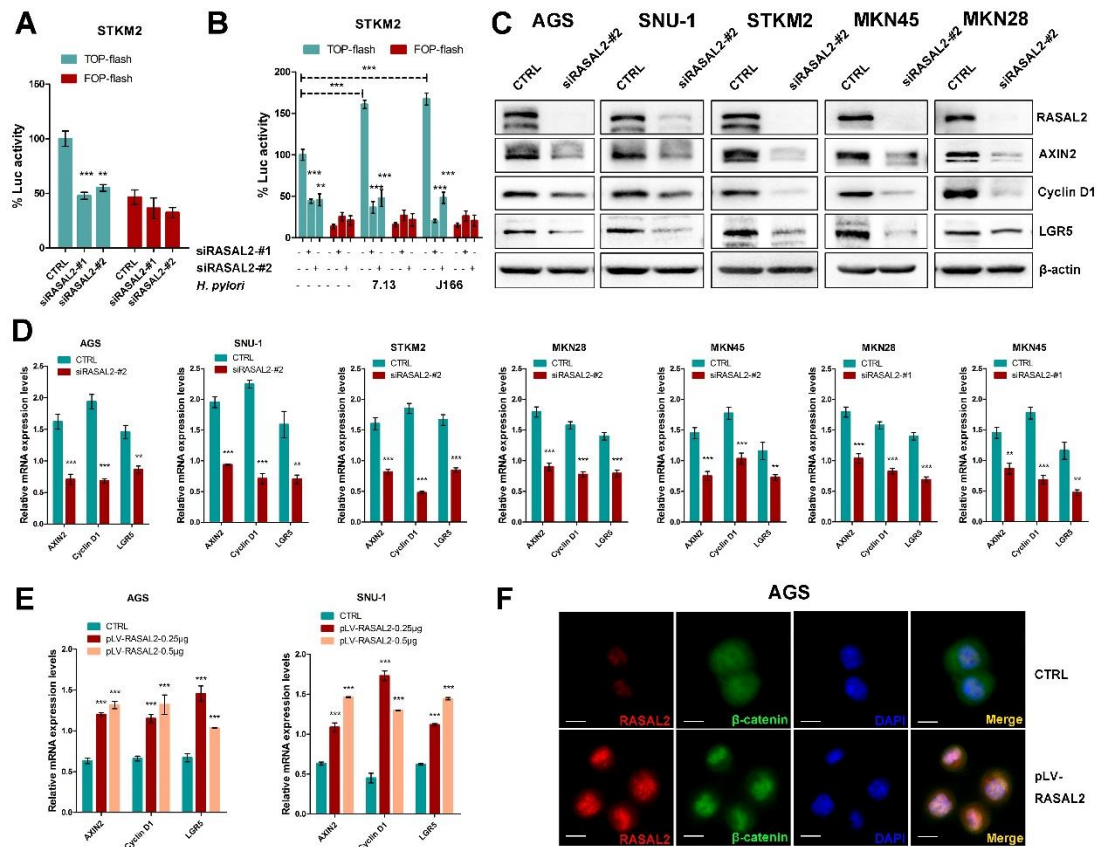
Supplementary Figure 3. RASAL2-associated signaling pathways and genes in gastric cancer

(A) Gene set enrichment analysis (GSEA) was performed by high *RASAL2* expression group, compared with low *RASAL2* expression group in TCGA and GEO cohorts. Fifty hallmark gene sets were downloaded from Gene Set Enrichment Analysis (<https://www.gsea-msigdb.org/>). (B and C) Wnt/ β -catenin gene set (B), including *CTNNB1* and its targets *MYC* and *AXIN2* (C), was significantly enriched by *RASAL2* expression in the TCGA cohort. NES: normalization enrichment score, FDR: false discovery rate. (D) Pearson's correlation analysis between *RASAL2* and β -catenin signaling genes was examined in the TCGA cohort.



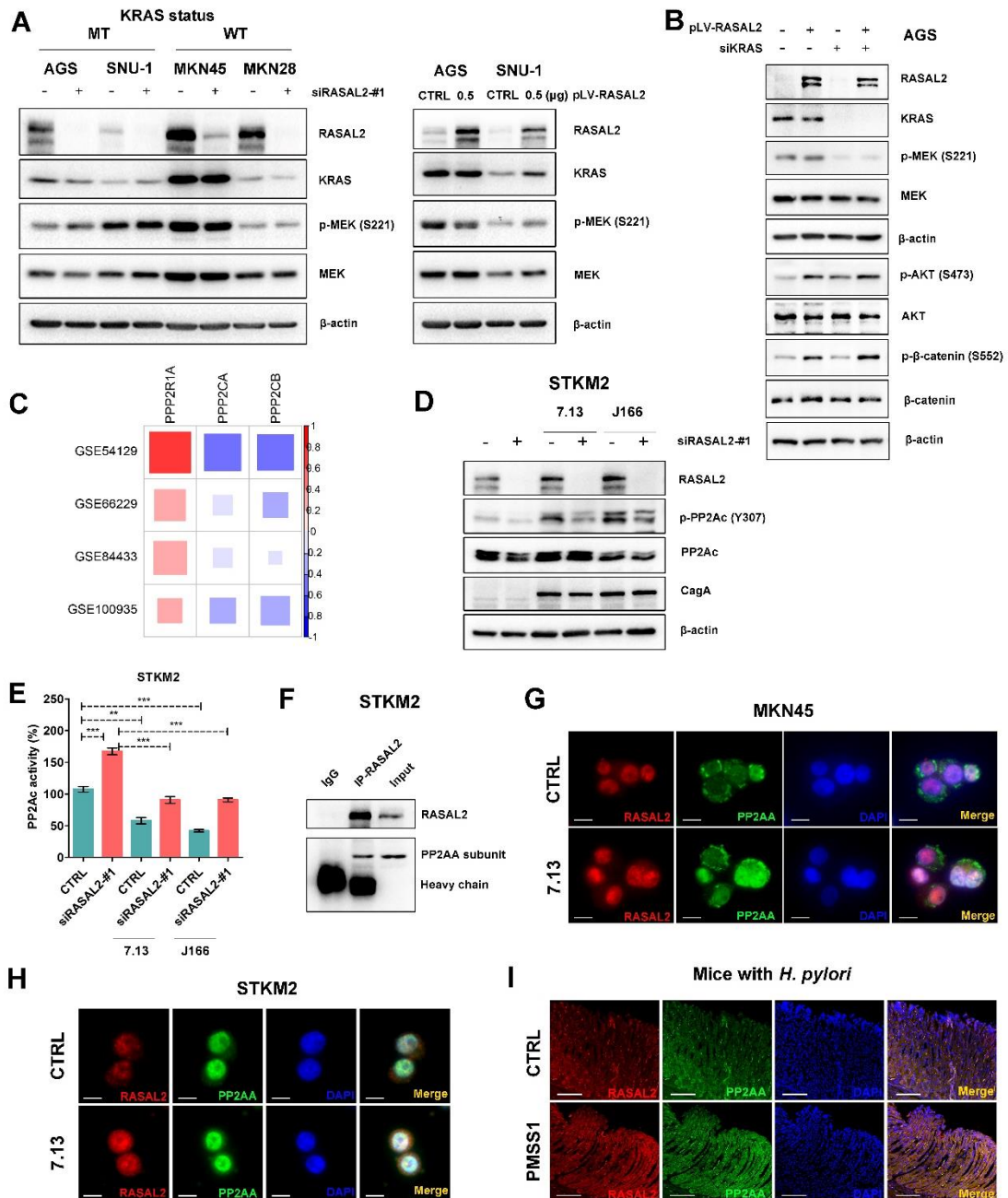
Supplementary Figure 4. *H. pylori* infection induces β-catenin activation in a RASAL2/AKT-dependent manner

Western blots of RASAL2, total AKT, phosphorylated AKT (Ser473), β-catenin, phosphorylated β-catenin (Ser552), β-actin and CagA (*H. pylori* infection biomarker) were performed in GC cell lines under different conditions or treatments. (A) Five GC cell lines were transfected with RASAL2 siRNA or control siRNA. (B) The GC cells were transfected with indicated amounts of pLV-RASAL2 expression plasmid or control plasmid. (C) The GC cells with/without RASAL2 knockdown (siRASAL2#1) were infected with the two *H. pylori* strains (7.13 and J166). (D) The GC cells with pLV-RASAL2 expression plasmid or control plasmid were treated with AKT inhibitor (MK2206, 5μM). (E) The GC cells were pretreated by MK2206 for 1h and then were infected by *H. pylori* (7.13 and J166) for 6h.



Supplementary Figure 5. *H. pylori* infection promotes β -catenin transcriptional activity via induction of RASAL2

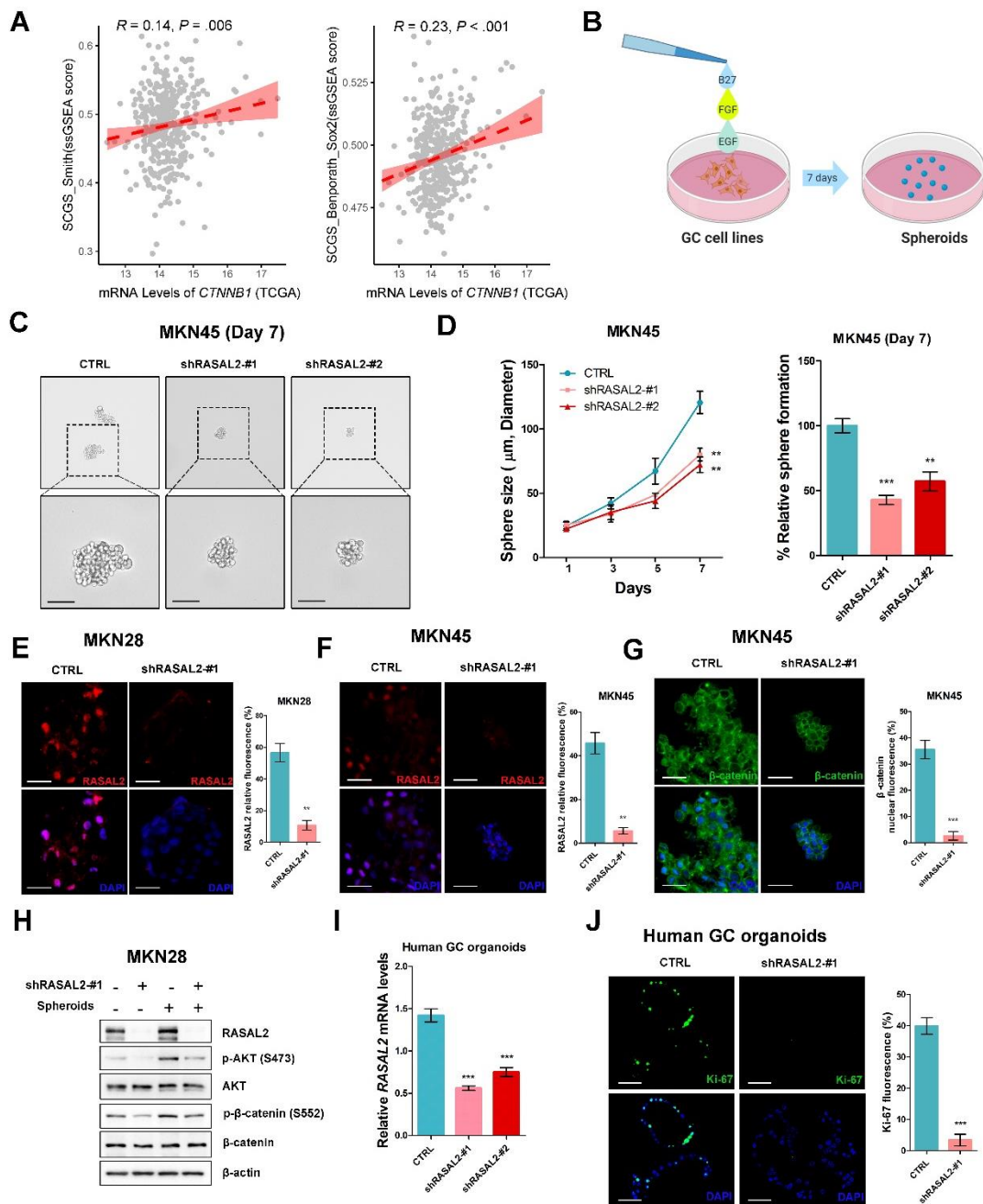
(A and B) β -catenin luciferase reporter assay was performed in STKM2 cells with RASAL2 silencing or *H. pylori* infections. ** $P < .01$, *** $P < .001$. (C-E) Western blots (C) and qRT-PCR analysis (D and E) of β -catenin downstream targets in GC cell lines with RASAL2 depletion by siRNA (#1) and siRNA (#2) or with pLV-RASAL2 expression plasmid. Scramble siRNA worked as control. ** $P < .01$, *** $P < .001$. (F) Representative images (scale bars, 20 μ m) of immunofluorescence (IF) assay of RASAL2 (red) and β -catenin (green) in AGS cells with RASAL2 overexpression. Empty expression vector served as control.



Supplementary Figure 6. RASAL2 regulates AKT phosphorylation through protein phosphatase 2A (PP2A)

(A) Western blots of KRAS signaling in KRAS mutation (MT) and wild type (WT) GC cell lines following RASAL2 depletion or overexpression. (B) Western blots of KRAS signaling and RASAL2/AKT/β-catenin signaling axis in AGS cells following RASAL2 overexpression or KRAS depletion. (C) Pearson's correlation heatmap was performed between RASAL2 expression and genes encoding PP2A subunits (PPP2R1A, PPP2CA, PPP2CB) expression in four GEO datasets. (D) Western blots for RASAL2, p-PP2Ac

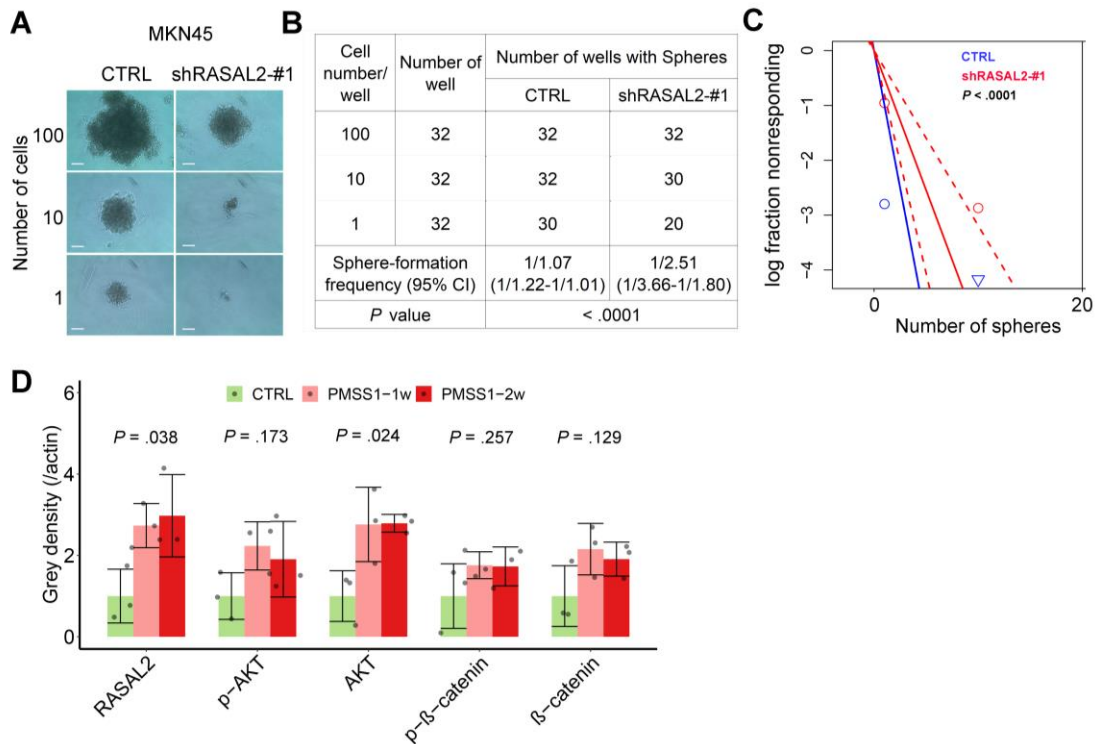
(Y307), PP2Ac, and CagA were employed in STKM2 cells with RASAL2 depletion following by *H. pylori* infection. (E) PP2A Phosphatase immunoprecipitation assays were carried out in STKM2 cells with RASAL2 depletion following by *H. pylori* infection. The active PP2A form, PP2Ac, was specifically pulled down from whole-cell lysates according to the manufacturer's instructions. $**P < .01$, $***P < .001$. (F) Immunoprecipitation (IP) assay using antibody against RASAL2 in STKM2 cells. IgG worked as a negative control. Western blots of RASAL2 and PP2AA were performed. (G-I) Immunofluorescence (IF) staining for RASAL2 and PP2AA was performed in GC cell lines (G and H, scale bars, 10 μ m) and mouse stomach tissues (I, scale bars, 100 μ m) with *H. pylori* infection.



Supplementary Figure 7. RASAL2 depletion counteracts gastric cancer cell expansion

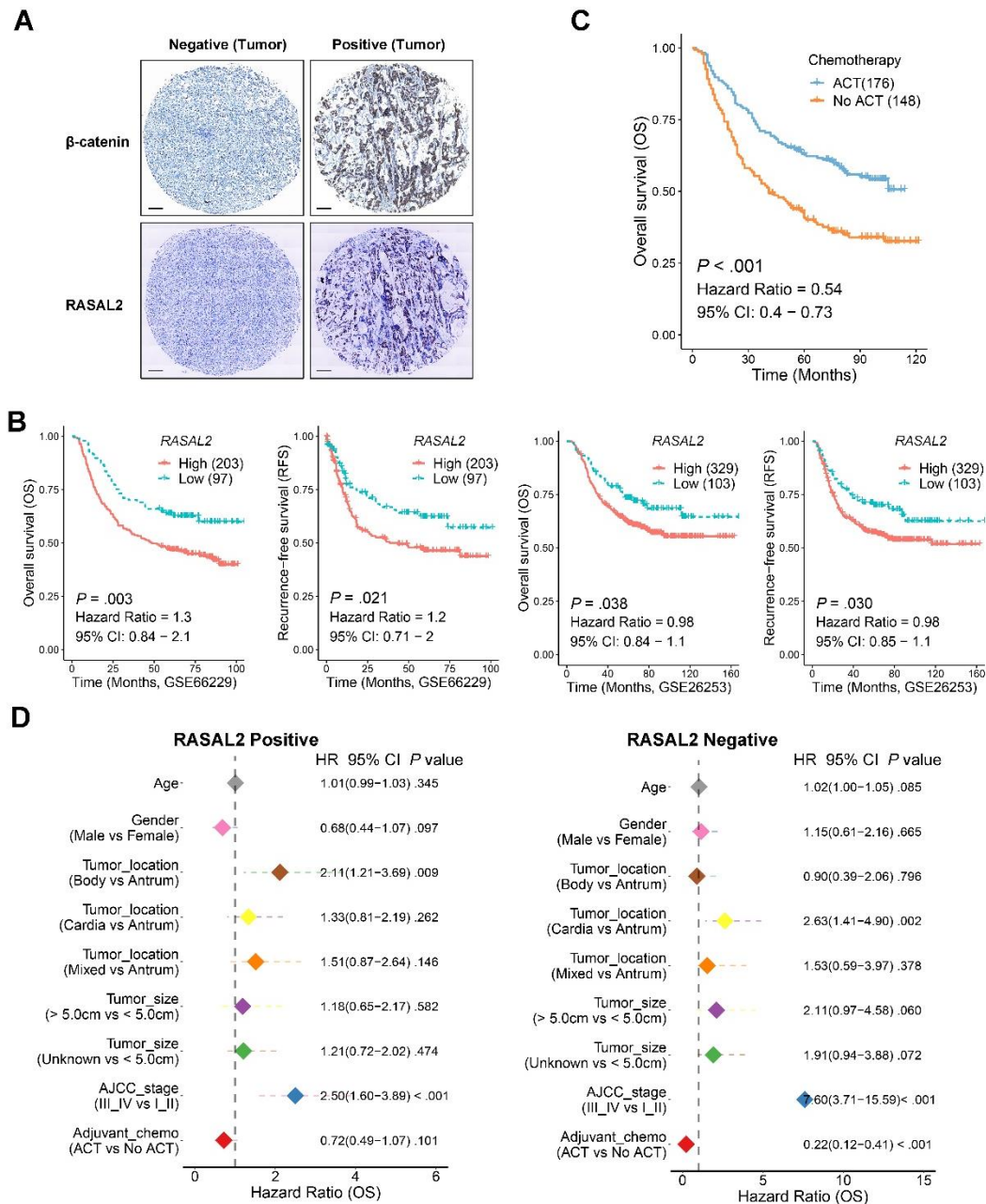
(A) Pearson's correlation assays were performed between *CTNNB1* and single-sample gene set enrichment analysis (ssGSEA) scores for two verified stem cell signatures in the TCGA cohort. (B) The schematic diagram for spheroid models derived from MKN28 and MKN45 cells using a conditional medium. (C) Spheroids (scale bars, 100 μm) derived from MKN45 cells with stable knockdown of RASAL2 (shRASAL2-#1 and -#2) displayed significant smaller spheroids as compared to the scramble shRNA cells (CTRL). (D) The quantification of sphere size and number was expressed as the mean

\pm SD of 3 independent fields. $**P < .01$, $***P < .001$. (E-G) Representative immunofluorescent images (scale bars, 25 μ m) of RASAL2(red) or β -catenin (green) in spheroids; nuclei were stained with DAPI (blue). The quantification of RASAL2 or nuclear β -catenin percentage is shown as the mean \pm SD of 3 independent fields. $**P < .01$, $***P < .001$. (H) Western blots for RASAL2/AKT/ β -catenin signaling axis were performed in spheroids derived from MKN28. (I) qRT-PCR analysis of RASAL2 in GC organoids with RASAL2 depletion (shRASAL2-#1 and #2). Scramble shRNA worked as control (CTRL). $***P < .001$. (J) Representative immunofluorescent images (scale bars, 50 μ m) of Ki-67 staining in organoids. The quantification of Ki-67 positive cells is shown as the mean \pm SD of 3 independent fields, $***P < .001$.

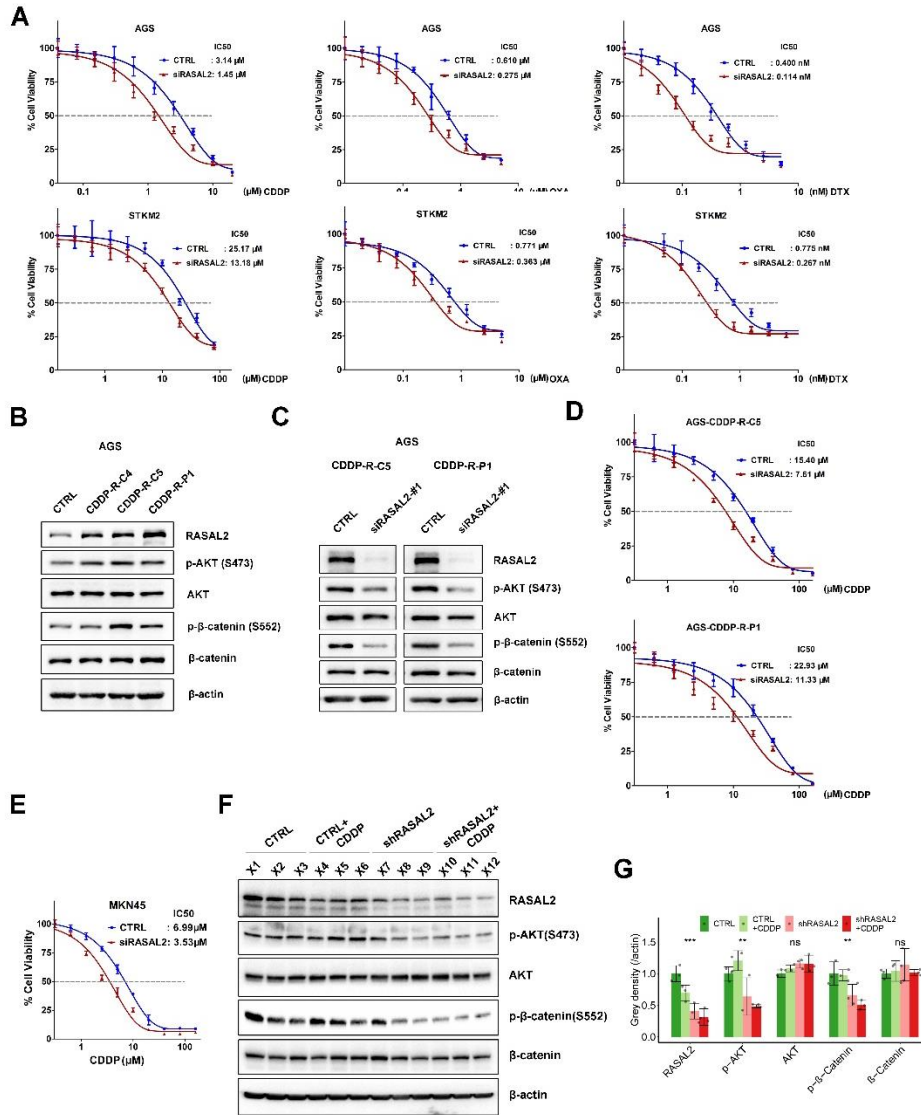


Supplementary Figure 8. RASAL2 depletion counteracts gastric cancer cell expansion.

(A-C) MKN45 cells with/without RASAL2 knockdown were series diluted and planted into the U-bottom 96-well plates. (A) shows spheroids (scale bars, 200 μ m) formation at day 21. (B and C) displays frequency of spheroid formation and the probability estimates calculated with Extreme Limiting Dilution Analysis (ELDA) software (<http://bioinf.wehi.edu.au/software/elda/>). A significant difference in spheroid formation capacity was observed between the control and shRASAL2 groups. (D) Densitometry analysis for western blots of Figure 6G.



Supplementary Figure 9. Elevated expression of RASAL2 and β -catenin predicted chemoresistance and poor prognosis in gastric cancer (A) Representative immunohistochemistry staining (scale bars, 100 μ m) of RASAL2 and β -catenin in the serial slides of tumor tissues. (B) Kaplan-Meier survival analysis for the overall survival of the cohorts with different RASAL2 mRNA expression levels in GSE66229 and GSE26253 datasets. (C) Kaplan-Meier survival analysis for overall survival of cohorts with and without adjuvant chemotherapy (ACT) in the local dataset. (D) A hazard ratio of the patients with ACT, compared with the patients without ACT, was adjusted to other clinicopathological features using Cox regression model.



Supplementary Figure 10. RASAL2 depletion sensitized GC cells to chemotherapy and overcame chemoresistance (A) ATP-Glo assays showed the IC₅₀ curves of cisplatin (CDDP), oxaliplatin (OXA), and docetaxel (DTX) in AGS and STKM2 cell lines with RASAL2 depletion (siRASAL2-#1). (B and C) Western blots of RASAL2/AKT/β-catenin signaling axis in parental and CDDP-resistant AGS cells (B), and in CDDP-resistant AGS cells with RASAL2 depletion (siRASAL2-#1) (C). (D) IC₅₀ curves of CDDP in CDDP resistant AGS cells with RASAL2 silencing (siRASAL2-#1). Scramble siRNA worked as control. (E) ATP-Glo assays showed the IC₅₀ curves of cisplatin (CDDP) in MKN45 cells with RASAL2 depletion (siRASAL2-#1). (F) Western blots for RASAL2 and its downstream signaling in xenograft tumors with/without RASAL2 knockdown. (G) Densitometry analysis for western blots of panel F. ***P* < .01, ****P* < .001.