

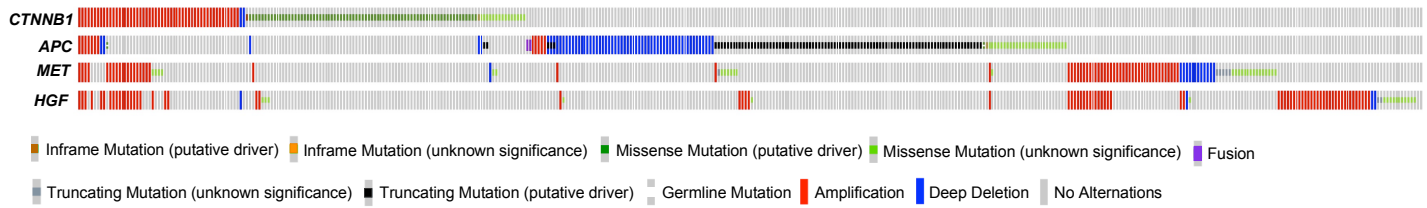
**Activation of HGF/MET signaling promotes β -catenin
mediated prostatic tumorigenesis**

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Supporting Information:

1. **Supporting Figure 1:** Co-occurrence of HGF/MET and Wnt/ β -catenin signaling in prostate cancer
2. **Supporting Figure 2:** Conditional expression of mouse Met transgene enhances transcription of β -catenin target genes.
3. **Supporting Table 1** (supporting data for Figure 1A): Studies used to generate Oncoprint
4. **Supporting Table 2** (Supporting data Figure 5A): Differentially Expressed Gene List
5. **Supporting Table 3** (Supporting data for Figure 5A) : RNAseq Gene List

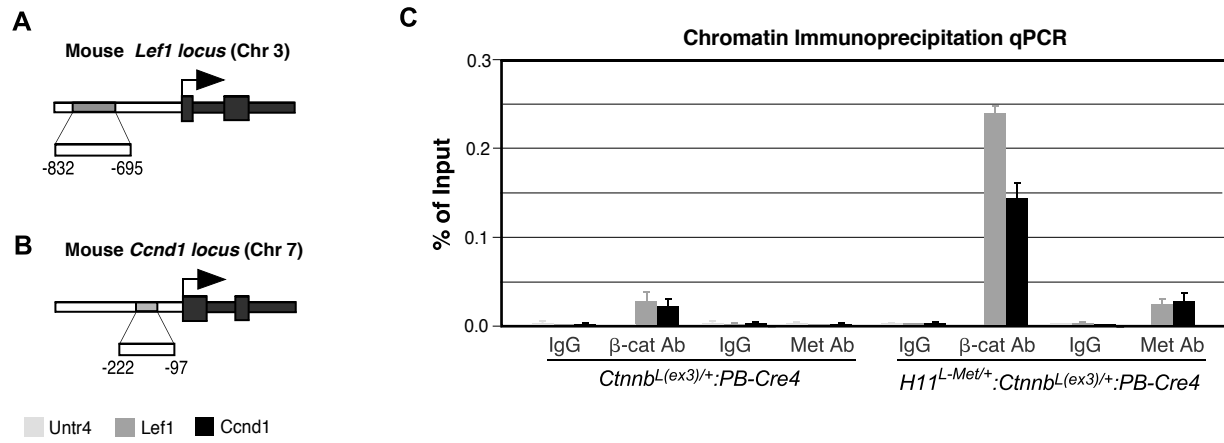
A



B

Alterations	Sample #	p-Value
β -catenin + Met	27	< 0.001
β -catenin + HGF	28	< 0.001
APC + HGF	14	< 0.001
APC + Met	18	0.012
Total	2685	

SI Fig1: Co-occurrence of HGF/MET and Wnt/ β -catenin signaling in prostate cancer. Oncoprint (<https://www.cbioportal.org>) generated from human prostate cancer samples showing significant co-occurrence of aberrant abnormalities in *Ctnnb1* or *APC* with mutations *HGF* or *MET*. (B) Clinical prostate cancer samples in the above patient cohort showing co-occurrence of amplification or other gain function of HGF or Met with gain function mutation and amplification of β -catenin or deletion and loss of function mutation in APC proteins, and p-value for significance of each of co-occurrence events. Sources for patient samples used for the above analysis are listed in Supplementary Table 1.



SI Fig 2. Conditional expression of mouse *Met* transgene enhances transcription of β -catenin target genes. (A) Schematic of the β -catenin binding site in the mouse *Lef1* locus. (B) Schematic of the β -catenin binding site in the mouse *Cyclin D1* locus. (C) Chromatin Immunoprecipitation qPCR results from ChIP with indicated antibodies and conditions.

Supporting Table 1 (supporting data for Figure 1A): Studies used to generate Oncoprint	
1	Metastatic Prostate Adenocarcinoma (Proc Natl Acad Sci USA, 116:11428-11436. PMID:31061129)
2	Metastatic Prostate Cancer (Cell, 161:1215-1228. PMID: 26000489)
3	Neuroendocrine Prostate Cancer (Nat Med, 22:298-305. PMID:26855148)
4	Prostate Adenocarcinoma (Nat Med, 22:369-78. PMID:26928463)
5	Prostate Adenocarcinoma (Nat Genet, 50: 645-651. PMID: 29610475)
6	Prostate Adenocarcinoma (TCGA, Provisional)
7	Prostate Cancer (JCO Precis Oncol,doi:10.1200/PO.17.00029. PMID: 28825054)

Supporting Table 2 (Supporting data Figure 5A): Differentially Expressed Gene List							
<i>H11L-Met/+ Ctnnb1(Ex3)fl/+ PBCre4 vs Ctnnb1(Ex3)fl/+ PBCre4</i>							
Gene Symbol	logFC	Gene Symbol	logFC	Gene Symbol	logFC	Gene Symbol	logFC
Prl8a2	15.99	Rpl32-ps	1.07	Shisa4	-1.60	Ncf1	-2.97
2310002L13Rik	10.01	Gm8444	1.07	Ntng2	-1.60	Gas1	-2.98
Tpbpa	9.96	Extl1	1.07	6030429G01Rik	-1.61	Sirpb1c	-2.98
Ndp	9.26	Chka	1.07	k	-1.61	Cercam	-2.98
Gm156	9.17	Alox12	1.07	Ccr5	-1.61	Car3	-2.98
Arid3c	9.01	Rasgrp1	1.07	Slco4a1	-1.61	Ly9	-2.99
Prl8a9	8.99	Pcsk1n	1.07	Cyfip2	-1.61	Aspn	-2.99
Dlx2	8.99	Elovl6	1.07	Mxd1	-1.61	Aspn	-2.99
9530053A07Rik	8.94	5930412G12Rik	1.07	Acap1	-1.61	Cd302	-3.00
Foxl2	8.85	P2rx7	1.07	Gm16292	-1.61	Slamf6	-3.00
Irx4	8.73	Batf3	1.07	Gpsm3	-1.61	Prss16	-3.00
Gm9765	8.31	Myo5c	1.06	Kirrel	-1.61	Tlr1	-3.00
Tgm4	8.16	Cyb5r1	1.06	Sox17	-1.62	Muc5b	-3.01
Fam115e	8.00	Cdsn	1.06	Sirpa	-1.62	Eif2s3y	-3.02
Mrgpra9	7.68	Btg1	1.06	Ccdc88b	-1.62	C5ar1	-3.03
Spr-ps1	7.62	Ehf	1.06	Ccrl1	-1.62	ORF63	-3.03
Itln1	7.59	Ang	1.06	Sema7a	-1.62	Phyhd1	-3.03
9530002B09Rik	7.56	Gm10451	1.06	Jam3	-1.62	Dok3	-3.04
Kiss1	7.44	Gm9797	1.06	Hpse2	-1.62	Kcnk13	-3.04
Hamp2	7.02	Adipor2	1.06	Mctp2	-1.63	Cd33	-3.04
Gm5615	6.97	H2-T10	1.05	Naip5	-1.63	Rab27a	-3.04
Lce3c	6.93	Hoxa9	1.05	Amotl2	-1.63	D630013G24Rik	-3.05
Erv3	6.72	Pgm3	1.05	Gcnt2	-1.63	Fgr	-3.05
Fgf20	6.42	Mvk	1.05	Slc15a3	-1.63	Jdp2	-3.05
Gm6570	6.39	Nr3c2	1.05	5730559C18Rik	-1.63	Il18rap	-3.05
4930502E18Rik	6.39	Lbh	1.05	Nt5dc2	-1.63	Arxes1	-3.06
Gsg1l	6.38	Bpifb5	1.05	Smarcd3	-1.63	Ccdc129	-3.06
Jakmip2	6.34	Gm12216	1.05	Pdk4	-1.63	Rab44	-3.07
Atp6v1c2	6.24	Rcn1	1.05	Cd274	-1.63	Ces2f	-3.07
9130019P16Rik	6.17	Galntl4	1.05	Slc12a2	-1.64	Rasl12	-3.07
Pnlip	6.08	Arhgap28	1.05	Ifi203	-1.64	Kdm5d	-3.08
Svopl	6.05	2410006H16Rik	1.05	Chsy1	-1.64	Lum	-3.08
Ang5	6.03	Taf1c	1.04	Nfkbie	-1.64	Arg1	-3.08
Ang4	5.87	Maoa	1.04	Ndrp4	-1.64	Fry	-3.08
Dmrta2	5.86	Rps23	1.04	Rassf5	-1.64	Ncf4	-3.08
Megf10	5.76	Clec7a	1.04	Tnc	-1.64	Grb10	-3.08
Ang6	5.68	Tmem158	1.04	Gm22	-1.65	Fcgr2b	-3.09
				Des	-1.65	Fam18a	-3.09

Apoc1	5.67	Dlx3	1.04	Slc37a2	-1.65	Slc2a13	-3.09
Abhd12b	5.67	Faah	1.04	Abcg2	-1.65	Igsf6	-3.10
Dkk1	5.66	Rps19-ps4	1.04	Gpx2	-1.65	Adam8	-3.10
Crabp1	5.57	2810021J22Rik	1.03	Cd52	-1.65	Adamtsl2	-3.11
Krt42	5.49	4930518I15Rik	1.03	Epb4.1I3	-1.65	Rarres2	-3.11
Krt84	5.40	Nrip3	1.03	Rrad	-1.65	Ncam1	-3.11
Gm11100	5.36	Atp6v0c	1.03	Adcy4	-1.65	Hgfac	-3.11
Gm6901	5.29	Bcl2l14	1.03	Cp	-1.65	Pilrb1	-3.11
Lgr6	5.29	Gm5101	1.03	AF251705	-1.66	Ighv1-61	-3.12
Slco1b2	5.21	Mfap3l	1.03	Nol3	-1.66	A430110N23Rik	-3.12
Gsdma3	5.16	Npm3	1.02	A430105I19Rik	-1.66	Rbp4	-3.12
Pnliprp1	5.12	Ufsp1	1.02	Pip4k2a	-1.66	Hmox1	-3.12
Chn2	5.11	Rps26	1.02	Cd84	-1.66	Trpm6	-3.12
2300002M23Rik	5.10	Gm16024	1.02	Enpp1	-1.66	Pglyrp1	-3.12
Fgf3	5.09	Polr2k	1.02	Pdcd1	-1.66	Fam198b	-3.13
Anxa13	5.02	Ank3	1.02	Trpv2	-1.66	Gzmg	-3.13
Rbfox1	4.98	Pon2	1.02	AU021092	-1.66	Pik3r5	-3.13
Cyp11a1	4.96	Aldh1b1	1.02	Copz2	-1.66	Ebi3	-3.13
Rps2	4.95	Ankrd35	1.02	Rasa3	-1.67	Irak3	-3.13
Pde11a	4.89	Aqp3	1.02	Kif26b	-1.67	Efemp2	-3.13
Slc26a3	4.87	Tmem42	1.02	Cd200r1	-1.67	Myl6b	-3.14
Trpm3	4.86	Gm15706	1.02	Sectm1b	-1.67	Uty	-3.14
Pou2f3	4.83	Ctsw	1.01	Stx11	-1.67	Cyp7b1	-3.14
Ear11	4.80	Ern1	1.01	Shank3	-1.67	Lrrk2	-3.14
Uts2d	4.72	Ptgr1	1.01	Adora3	-1.67	Col24a1	-3.15
Gm5077	4.70	Tdrkh	1.01	Peli2	-1.67	Ltb4r1	-3.16
Nkx3-1	4.69	Tlcd1	1.01	Ly6k	-1.67	Angpt1	-3.16
Ren1	4.69	C730034F03Rik	1.01	Hba-a1	-1.67	Lilrb4	-3.16
Crhr1	4.68	Fam69a	1.01	Adh1	-1.67	Ugt1a7c	-3.17
Krt33a	4.65	Khsrp	1.01	Oasl1	-1.68	Clec10a	-3.17
Pgr	4.59	0610010O12Rik	1.01	Meis1	-1.68	Fam26e	-3.17
C530008M17Rik	4.58	Wasf1	1.01	Ccdc122	-1.68	Sirpb1b	-3.17
Diras2	4.57	Abhd12	1.01	Inhbb	-1.68	Rac2	-3.17
Gm13834	4.56	Fgfr2	1.01	Bhlhe41	-1.68	Gpr153	-3.18
5S_rRNA	4.56	Slc35b4	1.01	Gm11827	-1.68	Acta2	-3.18
Gm12238	4.56	Rbm15b	1.00	Emilin2	-1.68	Rnf125	-3.19
Trgj4	4.56	Ly6g5b	1.00	Csf2rb	-1.68	Timp1	-3.19
C1rb	4.50	Pwwp2b	1.00	Sgcb	-1.68	Fbn1	-3.20
Ugt8a	4.49	Ppp1r13l	1.00	E2f1	-1.69	Tcf21	-3.20
Klhl14	4.48	Ptpru	1.00	5031414D18Ri k	-1.69	Acox2	-3.20
Ang2	4.45	9230110C19Rik	1.00	Olr1	-1.69	Ces1d	-3.21
Gm16485	4.42	Gm17305	1.00	Slc16a6	-1.69	Ctgf	-3.21

Nrgn	4.42	Tpk1	1.00	Tuba8	-1.69	Cyp2f2	-3.21
Krt16	4.41	Itpr1	1.00	Smpd13a	-1.69	Tmem100	-3.22
Lce3b	4.38	Sesn3	1.00	Rsad2	-1.69	Gzmc	-3.23
Klk14	4.34	9230102O04Rik	1.00	Slc8a1	-1.69	Slc25a48	-3.23
2310043J07Rik	4.24	Plcl1	1.00	Ddit4	-1.69	Prok2	-3.23
C86695	4.21	Timp3	-1.00	Abcc9	-1.69	Cd4	-3.23
Inmt	4.21	Osbpl3	-1.00	Gjc1	-1.69	Gp49a	-3.23
Nppb	4.20	Tmem86a	-1.00	Cryba4	-1.69	Dact3	-3.24
Crnn	4.19	Pcdh12	-1.00	Mafb	-1.69	A330049M08Rik	-3.24
Gpr165	4.15	Rasgef1a	-1.00	S100a11	-1.69	Trdj1	-3.25
St8sia2	4.13	Ndrgr1	-1.00	Pdgfra	-1.69	Trbj2-2	-3.25
Bex4	4.10	Myo18a	-1.00	Cdkn1c	-1.69	Trbj2-7	-3.25
Azgp1	4.09	Aifm2	-1.00	C130050O18Ri	-1.69	Gm16721	-3.25
Strc	4.08	Phldb2	-1.00	k	-1.70	Tcea3	-3.25
Ccl22	4.06	Pdzk1	-1.00	Emb	-1.70	Ly6i	-3.26
Gm15983	4.06	Dock7	-1.00	Il3ra	-1.70	Glod5	-3.26
Aspg	4.05	2310007B03Rik	-1.00	Leprel2	-1.70	2010005H15Rik	-3.26
H60b	4.04	Gbp9	-1.00	Fli1	-1.70	Ccdc109b	-3.26
Defb1	4.03	Arhgef10	-1.00	Tmem44	-1.70	Csf3r	-3.26
3830417A13Rik	4.02	Sipa1	-1.00	Gpcpd1	-1.70	Tfec	-3.26
Klra5	4.02	Phyh	-1.00	Steap4	-1.70	Cpne2	-3.26
Gm17301	4.01	Man2b2	-1.00	Ecscr	-1.70	Cyp4b1	-3.26
Gm10942	4.01	5730590G19Rik	-1.00	Adora2b	-1.70	Thbs2	-3.27
Gm17583	4.01	Gpr146	-1.00	Ces2g	-1.71	Tlr7	-3.27
Gm17607	4.01	Gpr146	-1.00	Pag1	-1.71	Cxcl3	-3.27
Krt78	4.01	Pcdhga9	-1.00	Sync	-1.71	Rerg	-3.28
Serpinb10-ps	3.97	Lix1l	-1.00	Mgp	-1.71	Slc11a1	-3.28
Dapl1	3.91	Pde4b	-1.00	Olfml3	-1.71	Adamts12	-3.28
Klf12	3.90	Col6a1	-1.01	Gjb2	-1.71	Nkain4	-3.29
Zbtb8b	3.90	Ehd1	-1.01	Sfn3	-1.71	BC021614	-3.29
Adcy1	3.88	Mfsd7a	-1.01	Htra4	-1.71	Inpp5j	-3.29
Tlx2	3.88	Trp53i13	-1.01	Zcchc24	-1.71	Msr1	-3.29
B430010I23Rik	3.87	Gchfr	-1.01	Gipc2	-1.72	Il4ra	-3.29
Apof	3.86	Shisa5	-1.01	Trim12a	-1.72	Thrsp	-3.30
Gm1679	3.85	Panx1	-1.01	Tlr2	-1.72	6030408B16Rik	-3.30
Areg	3.84	Gulp1	-1.01	Adora2a	-1.72	Rassf2	-3.31
Cd7	3.80	Snhg11	-1.01	Pxdn	-1.72	Tlr13	-3.31
Rab39b	3.78	Fam64a	-1.01	Pyroxd2	-1.72	Oit1	-3.33
Xcl1	3.78	Gm13157	-1.01	Krt72-ps	-1.72	Col5a1	-3.33
Tbx4	3.75	Rnf183	-1.01	Plbd1	-1.72	Fam65b	-3.34
Atp12a	3.75	Sema4d	-1.02	Gm16972	-1.72	Ighm	-3.35
Glb1l3	3.75	Tmem125	-1.02	Lgi4	-1.72	Muc20	-3.35
		Fgd3	-1.02	Akna	-1.72		

Golt1a	3.75	Fbxo34	-1.02	Gm1966	-1.72	Star	-3.35
Idi2	3.72	Vwa1	-1.02	Fam114a1	-1.73	Cd300lf	-3.36
Mtap7d2	3.69	Pde4d	-1.02	Gas7	-1.73	Gpr137b-ps	-3.36
Trpc6	3.67	Itrip	-1.02	Prdm16	-1.73	Thbs3	-3.37
Cxxc4	3.67	Mmp14	-1.02	Shank2	-1.73	G0s2	-3.37
4732456N10Rik	3.67	Nek2	-1.02	Tmem119	-1.73	Sgce	-3.39
Pitx1	3.64	Lrat	-1.02	Rab17	-1.73	Prss2	-3.39
Arc	3.64	Armcx4	-1.02	Sept1	-1.73	Best1	-3.39
Egf	3.62	Atrnl1	-1.02	Slc16a9	-1.73	Saa3	-3.40
Klrb1	3.59	Ephb3	-1.02	Prnd	-1.73	Cox6b2	-3.41
Gsdma	3.59	Rbks	-1.02	Six1	-1.73	Slc2a4	-3.42
Grin2d	3.58	9930023K05Rik	-1.02	St3gal6	-1.73	Fam169b	-3.42
H2-M2	3.58	Cebpa	-1.03	Wisp1	-1.73	Krt15	-3.42
Tdo2	3.58	Col4a1	-1.03	Arsa	-1.73	Col12a1	-3.44
Igfbpl1	3.56	Klk8	-1.03	Ppm1m	-1.74	Serpib2	-3.46
Gprc5d	3.53	Gpr171	-1.03	Map4k1	-1.74	Cfp	-3.46
Mt4	3.51	Filip1	-1.03	Cbr3	-1.74	Ighv9-2	-3.47
Sema4g	3.42	Slco3a1	-1.03	Qsox1	-1.74	Card9	-3.47
Ldoc1	3.41	Ap2a2	-1.03	Sned1	-1.74	Fap	-3.48
Lce3a	3.40	Lypd2	-1.03	Hal	-1.74	Slc38a4	-3.48
Cth	3.38	Cited4	-1.03	Rnf169	-1.74	Ecm2	-3.48
Gm20442	3.38	Plk3	-1.03	Gria3	-1.74	Al607873	-3.48
Cck	3.36	Slc28a3	-1.03	Agpat4	-1.74	Msln	-3.49
Pgm5	3.35	Cx3cl1	-1.03	Kcna3	-1.75	Nos1	-3.50
Hs3st6	3.35	Dusp23	-1.03	Nme5	-1.75	Sparc	-3.50
Tmod4	3.34	Ets1	-1.03	Gca	-1.75	Pygl	-3.51
Calcb	3.33	Litaf	-1.03	Syk	-1.75	C1qtnf7	-3.51
Dlx5	3.32	Fmn1	-1.03	Tek	-1.75	Clec4a3	-3.52
Klk10	3.30	6030419C18Rik	-1.04	Tmie	-1.75	Cd37	-3.52
Il17a	3.27	Ptprb	-1.04	Prkg1	-1.75	Sulf1	-3.52
Gm1574	3.26	Ifi30	-1.04	Vit	-1.75	Ms4a6c	-3.52
5330417C22Rik	3.24	Jag1	-1.04	Asprv1	-1.75	Serping1	-3.52
Spink8	3.23	Ece1	-1.04	Nfil3	-1.75	Ifi204	-3.53
Slc9a2	3.22	Hist1h1c	-1.04	Upk1a	-1.75	Lrrc25	-3.53
Slitrk6	3.22	Ptprs	-1.04	BC034090	-1.75	Hspa12a	-3.53
Lrrc4	3.21	Gpc4	-1.04	Hoxb7	-1.75	Wnt9a	-3.53
Cryaa	3.21	Fam49b	-1.04	Pde7b	-1.76	Ric3	-3.53
D630045J12Rik	3.21	Rhoh	-1.04	Il1rap	-1.76	Bnc2	-3.55
Sytl5	3.19	Enpp2	-1.04	Rdh12	-1.76	Tmc5	-3.55
Rab3c	3.19	Cdr2l	-1.04	Itga1	-1.76	Pdpm	-3.55
Lhfpl1	3.19	Plvap	-1.04	Inpp5d	-1.76	Gpx7	-3.55
Krt79	3.19	Gpr64	-1.04	Gbp5	-1.76	Tnfaip6	-3.55
Mrap2	3.18	Ltbp4	-1.04	Scnn1a	-1.77	Klhl38	-3.55

Itih2	3.14	1700025G04Rik	-1.04	Arhgef25	-1.77	Ighv1-50	-3.55
Otop1	3.12	Gpr137b	-1.04	C1qtnf6	-1.77	Trem1	-3.56
Rnase1	3.12	Tnfrsf22	-1.04	Cyrr1	-1.77	Serpina3i	-3.56
P2rx2	3.12	Intu	-1.04	Egln3	-1.77	Mfap2	-3.56
Kcnj12	3.11	Sertad4	-1.05	4930438A08Rik	-1.77	Ccl2	-3.57
Slc6a12	3.11	Lamb1	-1.05	Arhgef26	-1.77	C2	-3.57
Trbd1	3.10	Slfn10-ps	-1.05	Cmklr1	-1.77	Has2	-3.57
Trbj2-3	3.10	Scpep1	-1.05	Emilin1	-1.78	Clca1	-3.58
Trbj2-4	3.10	Rab20	-1.05	Pde4d	-1.78	Ms4a6d	-3.58
Slc25a30	3.08	Ildr1	-1.05	Kcnd1	-1.78	Gm1975	-3.59
Gm16801	3.05	Col4a2	-1.05	Prom1	-1.78	Gm11642	-3.59
Gm11535	3.05	Sh3pxd2a	-1.05	Efr3b	-1.78	Trpv6	-3.59
Suox	3.05	Pdgfb	-1.05	Pcdhb9	-1.78	Matn4	-3.60
Slc18a1	3.04	Papss2	-1.05	Sh2d3c	-1.78	Mgam	-3.60
Ppp4r4	3.04	Ap1m2	-1.05	Cnnm2	-1.78	Hnmt	-3.60
Frem1	3.03	Pdgfrb	-1.05	Nr1h3	-1.78	Cd38	-3.61
Krt13	3.03	Aspm	-1.05	Fblim1	-1.79	Gzmd	-3.61
Adamdec1	3.03	Rasa2	-1.06	Nckap1l	-1.79	Wisp2	-3.61
Nptx1	3.00	Cd44	-1.06	Ntn4	-1.79	Mn1	-3.62
Fam184a	2.97	Cd86	-1.06	Chrd	-1.79	Serpine1	-3.62
Al118078	2.96	Tsc22d3	-1.06	Fam109b	-1.80	Gzmf	-3.63
Epha7	2.96	Noxo1	-1.06	Cxcl10	-1.80	Ak5	-3.65
Hand2	2.93	Fbxo32	-1.06	Cd36	-1.80	Igkv9-123	-3.67
C4bp	2.92	Pim1	-1.06	Tmco7	-1.80	Tnfrsf13c	-3.67
Ptn	2.91	Spry1	-1.06	Postn	-1.80	Sult5a1	-3.68
Robo2	2.91	Ptpn22	-1.06	Laptm5	-1.80	Matn2	-3.69
Rufy4	2.90	Syne2	-1.06	Calcr1	-1.80	B430306N03Rik	-3.69
Lrch2	2.89	Cenpi	-1.06	2010002N04Rik	-1.80	Smoc2	-3.69
Mtus2	2.89	Cntnap1	-1.06	k	-1.80	Igll2	-3.69
Kcnn2	2.89	4930486L24Rik	-1.06	Fkbp9	-1.80	Serpinf1	-3.69
Ly6g6c	2.88	A930004D18Rik	-1.06	Ripk3	-1.80	Cadm3	-3.70
Prkcq	2.87	Raet1d	-1.07	Tmc8	-1.80	Rnf144a	-3.70
Sorcs1	2.87	Trf	-1.07	Al467606	-1.80	Rnf144a	-3.70
Frmpd1	2.86	Pdk1	-1.07	I830077J02Rik	-1.80	Ngf	-3.70
1700066J03Rik	2.86	Kif14	-1.07	Tmem156	-1.80	Nsg1	-3.70
Elfn2	2.85	Sp140	-1.07	Kcnj8	-1.81	Lbp	-3.71
Dsg3	2.85	Tmem88	-1.07	Gm14005	-1.81	Vcam1	-3.71
Tgm3	2.84	Gab3	-1.07	Psg17	-1.81	Irf4	-3.71
Sall1	2.82	Thy1	-1.07	Podxl2	-1.81	Cacna2d1	-3.72
Gsdmc3	2.81	Trbj1-5	-1.07	Pik3cd	-1.81	Nlrp12	-3.72
Nxf7	2.81	Traj31	-1.07	Fam107a	-1.81	Prg2	-3.72
Prss35	2.80	Gm10973	-1.07	Fcgr1	-1.82	Tspan32	-3.73
				Apobec1	-1.82	Cd2	-3.73

Mamdc2	2.80	Rapgef5	-1.08	Adssl1	-1.82	Ccl24	-3.73
Hspa1b	2.79	Abcd1	-1.08	Pion	-1.82	Igkv8-18	-3.73
S100a3	2.79	Fads2	-1.08	Sh2d5	-1.82	Ighj3	-3.73
2010300C02Rik	2.78	Gm4951	-1.08	Cd40	-1.83	Kcnn4	-3.74
Tsx	2.78	Adamts9	-1.08	Ctnnbp2	-1.83	St8sia6	-3.75
Tox3	2.78	Cbx7	-1.08	Apoc2	-1.83	8430408G22Rik	-3.75
Krtap3-3	2.76	Abcc4	-1.08	Upp1	-1.83	Eya4	-3.75
Smad9	2.76	Gmip	-1.08	Trpv4	-1.83	Upk3a	-3.76
Hist2h2bb	2.74	Apoe	-1.09	Neurl1a	-1.83	Cfi	-3.77
Lypd6	2.73	Sfrp2	-1.09	Sema3b	-1.83	Hp	-3.77
Gm16885	2.71	Ptpn6	-1.09	Fcer1g	-1.83	A630095E13Rik	-3.77
Limch1	2.71	Casp4	-1.09	Cpn1	-1.84	Clec4d	-3.78
Prlr	2.71	Mis18bp1	-1.09	Serpina3g	-1.84	Scel	-3.78
Defb50	2.69	Ednrb	-1.09	Adcy7	-1.84	Clec4e	-3.79
Tcf15	2.68	Gpr34	-1.09	Icam1	-1.84	Angptl4	-3.80
Spink5	2.68	Tmem176a	-1.09	Dock2	-1.84	Bmx	-3.80
Hey2	2.67	Prex1	-1.10	Flt4	-1.84	2010110P09Rik	-3.80
Gucy2g	2.67	Klhl29	-1.10	Pla2g4a	-1.84	Mfsd4	-3.80
Srpx	2.66	Steap2	-1.10	Pik3r6	-1.84	Galntl2	-3.81
Cacnb2	2.66	Cldn1	-1.10	Vsig4	-1.84	Nexn	-3.82
Sprr1b	2.65	Mpeg1	-1.10	Fabp4	-1.84	Gliplr2	-3.82
Defb14	2.62	2810405K02Rik	-1.10	Igsf10	-1.85	Ms4a6b	-3.83
Krt1	2.62	Gal3st1	-1.10	Gpr35	-1.85	Ebf1	-3.83
Cd200r4	2.61	Lmcd1	-1.10	Gngt2	-1.85	Fbln2	-3.84
3632451O06Rik	2.61	Pecam1	-1.10	Glis2	-1.85	Fcna	-3.84
Scube1	2.60	Gprc5c	-1.10	Pglyrp4	-1.86	Nos2	-3.85
Gm15053	2.59	Clip2	-1.10	Sash3	-1.86	Clec1a	-3.85
Sprr2f	2.59	Pcsk6	-1.10	Gprc5b	-1.86	Tlr8	-3.85
Serpinb9b	2.58	Hpse	-1.10	Snx20	-1.86	Fcrla	-3.85
B3gnt7	2.58	Elmo1	-1.10	Twist2	-1.86	Lrrc31	-3.87
Calml3	2.58	Kdelc2	-1.11	Fndc4	-1.87	Cd300ld	-3.88
Cpm	2.58	Ppp2r3a	-1.11	Tnfrsf11a	-1.87	Gm11428	-3.88
Mest	2.56	Nrg1	-1.11	Gm6133	-1.87	Cxcr5	-3.88
Lym7	2.55	Pfkip	-1.11	Lsp1	-1.87	Loxl3	-3.89
Mmp10	2.54	Por	-1.11	Il10ra	-1.87	F10	-3.90
Mycn	2.54	Filip1l	-1.11	Chst12	-1.87	Mmp17	-3.90
Ppp1r14d	2.54	Notch2	-1.11	Ccbe1	-1.87	Alox5	-3.90
Hoxb13	2.53	Tnfrsf14	-1.11	Ptafr	-1.87	Abcb1b	-3.90
Sox2	2.52	Capn2	-1.11	Ust	-1.87	Slc13a3	-3.91
Itgae	2.51	Hpgds	-1.11	Ccdc88c	-1.88	Ccl20	-3.91
Inpp4b	2.51	Dusp3	-1.11	Ankrd33b	-1.88	Itm2a	-3.92
Ccdc68	2.50	Plcd1	-1.11	Tppp3	-1.88	2610109H07Rik	-3.92
Cldn14	2.50	2810408I11Rik	-1.11	Ampd3	-1.88	Rasgrp4	-3.92

Rps4y2	2.50	Cldn7	-1.11	Arid5a	-1.88	Lyl1	-3.92
Adrb1	2.48	Slc16a3	-1.11	Nek6	-1.88	Muc1	-3.93
Efcab1	2.48	Sncg	-1.11	C1qtnf1	-1.88	Cpxm2	-3.94
Nudt10	2.48	Fzd4	-1.11	Lifr	-1.88	Hsd17b2	-3.94
Fam55c	2.48	Rinl	-1.11	B4galnt2	-1.88	Ighv1-77	-3.94
Krt14	2.47	Tnfaip8l1	-1.11	Hoxb2	-1.88	Hspb7	-3.94
Greb1	2.47	Lepr	-1.11	Kcne3	-1.88	Slc1a3	-3.96
Pdlim3	2.46	Krt80	-1.12	Bmp6	-1.89	Il1r2	-3.96
Gm15839	2.46	Tmem154	-1.12	A530020G20Ri k	-1.89	Abi3bp	-3.97
Fetub	2.45	Ptprj	-1.12	Pkd2	-1.89	Aoc3	-3.98
Pla2g2a	2.44	Mtss1	-1.12	Ppap2a	-1.89	Sult1a1	-3.98
B4galnt3	2.43	Cd3d	-1.12	Kcnmb1	-1.89	Gm9733	-3.99
Gm10136	2.43	Fmnl3	-1.12	Gpr77	-1.89	Cyp2d22	-4.00
AU022754	2.43	Snrpn	-1.12	Gpr18	-1.89	Srpx2	-4.00
Il12rb2	2.43	Ldb2	-1.12	Tnfsf13b	-1.90	Fcgr4	-4.01
Egfl6	2.43	Sox18	-1.12	Rhou	-1.90	Clec12a	-4.02
Chrm1	2.42	E130303B06Rik	-1.12	Cxcl2	-1.90	Fbln5	-4.02
Gem	2.42	Rab8b	-1.13	Stac2	-1.90	Gpr88	-4.03
Slc22a1	2.41	Pla2g15	-1.13	Cd97	-1.90	Tnmd	-4.03
Tm4sf4	2.41	Gabrp	-1.13	Lgals1	-1.90	C1qtnf3	-4.03
Flrt1	2.40	Crat	-1.13	Engase	-1.90	Igkv4-74	-4.03
4833427F10Rik	2.39	Fam151b	-1.13	Iffo1	-1.90	Stfa2l1	-4.05
Lef1	2.38	Trem14	-1.13	Il1rn	-1.91	Gpm6a	-4.05
Htra1	2.37	Fam129a	-1.13	Asap3	-1.91	Fcrl1	-4.05
Loxl4	2.37	Gm14420	-1.13	Notch3	-1.91	Dhrs9	-4.06
Unc13c	2.35	Hsd3b7	-1.13	Crtap	-1.91	Crispld2	-4.07
Sfrp5	2.35	Sec14l4	-1.13	Pde8a	-1.91	Itgam	-4.08
Cd96	2.34	Ly6a	-1.13	Cd8b1	-1.91	Aoah	-4.08
Sox11	2.34	Tbc1d2b	-1.14	Islr	-1.91	Gm11547	-4.08
2610027K06Rik	2.34	Sdcbp2	-1.14	Il17ra	-1.91	Gm7665	-4.09
Ascl4	2.33	Tnfrsf18	-1.14	Fkbp7	-1.91	Pcp4	-4.09
Krt36	2.31	Fmo2	-1.14	Ifi202b	-1.92	Slc36a2	-4.09
Gm17004	2.31	Dzip1	-1.14	Kmo	-1.92	Ighj4	-4.10
Krt5	2.30	D17H6S56E-5	-1.14	Sh2b2	-1.92	Aass	-4.11
2210407C18Rik	2.29	Lrrc8c	-1.14	Hspg2	-1.92	Adam12	-4.11
5730457N03Rik	2.29	Tll1	-1.14	Il1b	-1.92	Sec16b	-4.12
Dnase1l2	2.28	Adamtsl3	-1.14	E230001N04Ri k	-1.92	Cthrc1	-4.12
Col4a6	2.27	Akr1b8	-1.14	Cxcr4	-1.92	Scn2b	-4.13
Lingo1	2.26	Apln	-1.14	Ggta1	-1.92	Rspo1	-4.13
Gm11365	2.25	Tspyl3	-1.14	Stom	-1.92	Tpsb2	-4.13
Cla5	2.25	Acer2	-1.15	Ap1s2	-1.92	Clec4a2	-4.13

Slc7a8	2.25	Mylk	-1.15	Rap1gap2	-1.92	Nfe2	-4.14
Camsap3	2.24	Galnt9	-1.15	Lhfp	-1.93	Naalad2	-4.14
Gsdmc2	2.23	Gpr157	-1.15	Duox2	-1.93	Spib	-4.15
4930412O13Rik	2.23	Ube2l6	-1.15	Cd93	-1.93	Podn	-4.15
Krtdap	2.23	Muc13	-1.15	Ptprcap	-1.93	Trgj2	-4.17
Tnni1	2.23	Tbc1d1	-1.15	Adap1	-1.94	Gm17671	-4.17
Rapegf4	2.22	Itga4	-1.15	Sphk1	-1.94	Traj28	-4.17
Gm17025	2.22	Dock10	-1.15	Expi	-1.94	S1pr4	-4.17
Tmc7	2.22	Btla	-1.15	Colec12	-1.94	Faim3	-4.17
Rptn	2.21	Cspg4	-1.15	Dpysl2	-1.94	Tarm1	-4.17
Abca5	2.21	Ctps	-1.15	Arhgap25	-1.94	Vil1	-4.17
D0H4S114	2.21	Pde1b	-1.15	Fkbp14	-1.94	Hk3	-4.23
Ccl17	2.21	Ifi47	-1.15	Kbtbd11	-1.94	Fgf7	-4.24
5033428I22Rik	2.20	Car13	-1.16	Fmo1	-1.94	Nov	-4.24
Ido1	2.20	Lair1	-1.16	Spns2	-1.94	Cd248	-4.25
Itgax	2.20	1810011H11Rik	-1.16	Aldh1a1	-1.94	Tmem171	-4.26
Dsg1c	2.17	Ptrf	-1.16	Lrmp	-1.95	Ctla4	-4.26
Gm13790	2.17	Fam107b	-1.16	Ptpro	-1.95	Ighv1-12	-4.26
Foxf2	2.17	Pcsk5	-1.16	Arhgap24	-1.95	Col1a1	-4.27
Prr15	2.17	Zbtb46	-1.16	Mgll	-1.95	Cxcr2	-4.27
Stxbp6	2.14	Lpcat1	-1.16	Serpinh1	-1.95	6330406I15Rik	-4.28
Sectm1a	2.14	Tm7sf3	-1.16	Gzma	-1.96	Ccl12	-4.29
Them5	2.14	Tyro3	-1.16	9030625A04Rik	-1.96	Ms4a8a	-4.31
Tox	2.14	Tacc1	-1.16	Nr2f1	-1.96	Rgs18	-4.31
Tmem136	2.13	Cep55	-1.16	Pde3b	-1.96	Trim30b	-4.31
Apoc4	2.13	Relb	-1.17	Snta1	-1.96	Col8a1	-4.31
Nrg2	2.12	Dsel	-1.17	Lrp1	-1.96	Lax1	-4.32
Gm10691	2.12	Nup210	-1.17	Serpina3f	-1.96	Dio3	-4.32
H28	2.12	Itfg3	-1.17	Bcl2a1a	-1.96	Slc28a2	-4.32
Bmp8a	2.12	Bex1	-1.17	Ltf	-1.96	Saa1	-4.32
Gabrd	2.12	Hip1	-1.17	Epsti1	-1.96	Ms4a4c	-4.33
Fam83a	2.11	Mki67	-1.17	Ehbp1l1	-1.96	Atp8b4	-4.34
A1646023	2.11	Wdfy1	-1.18	Slc7a7	-1.96	Igkv1-133	-4.37
2610203C20Rik	2.11	Iqgap2	-1.18	Tifa	-1.97	Slfn1	-4.38
Rai2	2.10	Il15ra	-1.18	Lama1	-1.97	Sell	-4.38
Gatm	2.10	Gpr65	-1.18	Tnfrsf1b	-1.97	Ighv1-20	-4.39
Zfp697	2.10	Pqlc1	-1.18	Gja5	-1.97	Fbxo17	-4.39
Gm14209	2.09	Tspan2	-1.18	Anxa1	-1.97	Comp	-4.39
Gm3940	2.09	Ly6c1	-1.18	Vav1	-1.97	Abcd2	-4.40
Krt6a	2.08	Ankrd44	-1.18	Ccl3	-1.97	Gm15987	-4.40
Edaradd	2.08	Stat4	-1.18	Slamf7	-1.97	Ltbp2	-4.40
Bambi	2.08	Stat3	-1.18	Hbb-b2	-1.98	Igkv4-70	-4.41
Aim2	2.08	Rnf144b	-1.18	Lgmn	-1.98	Gm10309	-4.41

Padi3	2.07	Adamtsl4	-1.18	Defa22	-1.98	Mndal	-4.41
Fam89a	2.07	Ptpdc1	-1.18	Gpr25	-1.98	Saa2	-4.43
Phyhip	2.06	Wipf1	-1.18	Pla2g2e	-1.99	Mrc1	-4.44
Ramp3	2.06	Gas6	-1.18	Fam5c	-1.99	Ntn1	-4.45
Lipc	2.06	Igfbp3	-1.18	Gm16685	-1.99	Fam179a	-4.45
Osbp16	2.06	Slc16a2	-1.19	Amica1	-1.99	Ccl9	-4.47
Pex5l	2.05	Socs1	-1.19	Gfra4	-1.99	Rcn3	-4.50
Ceacam2	2.05	Prdm5	-1.19	9030418K01Rik	-2.00	Lilra6	-4.50
Eya1	2.05	Notch4	-1.19	Cd68	-2.00	Mtap1a	-4.52
Tagln3	2.04	Hoxd8	-1.19	Ccdc69	-2.00	Lrrc32	-4.53
Nlrp1b	2.04	Nt5c2	-1.19	Jak3	-2.00	Chi3l7	-4.54
Tmem180	2.04	Emcn	-1.19	Lpxn	-2.00	Ptgir	-4.54
Lipo1	2.03	Itga5	-1.19	Pdzrn3	-2.00	Alox5ap	-4.54
Hes1	2.02	Lrig3	-1.19	Pla2g7	-2.01	Gm13889	-4.54
Prkca	2.02	Prkd1	-1.19	Dnm1	-2.01	Ms4a4d	-4.54
Ppp1r36	2.02	Plxnd1	-1.19	BC013712	-2.01	Gdpd3	-4.55
Sdk2	2.02	Atp1a3	-1.19	Wfdc2	-2.01	Bank1	-4.55
D730039F16Rik	2.02	Dlc1	-1.19	C1qa	-2.01	Fpr1	-4.56
Gm16063	2.02	Olfml2b	-1.19	Arhgap30	-2.01	Ighv5-9	-4.57
Ezr	2.01	Lipk	-1.20	Pcdhb7	-2.01	Siglec1	-4.58
Gm16064	2.01	Ugcg	-1.20	Scara3	-2.02	Col15a1	-4.59
Mycl1	2.00	Gas2l3	-1.20	Cnp	-2.02	Sele	-4.59
Tcrg-C	2.00	Ada	-1.20	Ptpr	-2.02	Asb5	-4.61
Edar	2.00	BC005764	-1.20	Erg	-2.03	Ebf3	-4.61
Rab3b	2.00	Zfp651	-1.20	H2-Ob	-2.03	Mpz	-4.62
Fabp6	1.98	Wdfy4	-1.20	Ushbp1	-2.03	Npy1r	-4.62
BC057022	1.97	Dtx4	-1.20	5S_rRNA	-2.03	Cebpe	-4.64
Dio2	1.97	Car5b	-1.20	Gm11379	-2.03	Frzb	-4.64
Npas3	1.97	Slc23a3	-1.20	n-R5s200	-2.03	Gm16194	-4.64
Tlr12	1.96	Nin	-1.20	Clip3	-2.04	Ighv9-4	-4.64
Gpa33	1.94	Arap3	-1.20	Pcolce	-2.04	1810033B17Rik	-4.68
Qpct	1.94	Prrg4	-1.21	Lpgat1	-2.04	Mefv	-4.69
5830444B04Rik	1.93	Hoxb3	-1.21	Spp1	-2.04	Rgma	-4.69
Timp4	1.93	Gm7694	-1.21	Cd80	-2.04	Mrgpra2b	-4.70
Ptprz1	1.93	A430104N18Rik	-1.21	Emx2	-2.05	Hs6st2	-4.70
Dlk2	1.92	Plod3	-1.21	Gbp6	-2.05	2010001M06Rik	-4.70
Mir196a-1	1.92	Pou3f3	-1.21	Kcnj15	-2.05	Thbs4	-4.72
RP24-201C14.11	1.91	Pard3b	-1.21	Tbxas1	-2.05	Igj	-4.72
Rps6ka2	1.91	Hk2	-1.21	Barx2	-2.05	Mcpt1	-4.73
Efna3	1.90	Tubb6	-1.21	Gpr124	-2.05	Igkj2	-4.73
Crtac1	1.90	Ehd2	-1.21	Tmem106a	-2.06	Igkj1	-4.73
Bex2	1.89	Mtap6	-1.21	Gsdmd	-2.06	Fcrls	-4.73
Klrb1b	1.88	Plcg2	-1.21	Hoxb8	-2.06	Wfdc12	-4.75

Olfm2	1.88	Nlrc5	-1.21	Cacna1g	-2.06	C3	-4.76
Abp1	1.88	Map3k8	-1.22	AA467197	-2.07	Myh11	-4.78
Tst	1.86	Tubb4a	-1.22	Mrap	-2.07	Car4	-4.78
Mboat2	1.86	Efna5	-1.22	Nfatc4	-2.07	Nppc	-4.78
Lancl3	1.85	Cnn2	-1.22	Zfp449	-2.07	Fgf2	-4.79
Gm16137	1.85	Tmem14a	-1.22	Heg1	-2.07	S100a8	-4.79
Prdx6	1.85	Slfn8	-1.22	Pappa	-2.07	Lrrn1	-4.81
Shisa2	1.85	Tspyl4	-1.22	Pltp	-2.07	Uox	-4.82
Hist2h4	1.85	Gm3222	-1.22	Pcp4l1	-2.07	Gm16867	-4.83
Cd200r2	1.84	Ifnar2	-1.22	Cacna1d	-2.07	Trem3	-4.84
Sfn	1.84	Pros1	-1.22	Lif	-2.07	AB124611	-4.85
Pnliprp2	1.84	Col6a2	-1.22	Nlrc4	-2.07	Ly6g	-4.85
Cyp4f39	1.83	Lor	-1.22	D18Erttd653e	-2.07	Bgn	-4.86
Lap3	1.83	Eif5a2	-1.22	Fam111a	-2.07	Jph2	-4.87
Bcl11b	1.83	Cav1	-1.22	Trim30d	-2.07	Avpr1a	-4.87
Pgm211	1.82	Habp2	-1.22	Sema3g	-2.08	F630028O10Rik	-4.87
Krt10	1.82	Gsg2	-1.23	Mpp6	-2.08	Slfn4	-4.88
Sh3rf2	1.82	Sh3pxd2b	-1.23	Slc16a1	-2.08	Ighv6-6	-4.88
Tiam2	1.82	Bub1	-1.23	Fam167b	-2.08	Pde1a	-4.89
Ikzf4	1.82	Nynrin	-1.23	Ptprn	-2.08	Nhedc2	-4.89
Proc	1.82	Dok1	-1.23	Fgd5	-2.08	Gm5150	-4.90
Ccdc116	1.81	Tbc1d24	-1.23	Rad51l1	-2.08	Mmp23	-4.90
Padi2	1.80	Arl11	-1.23	Gm10345	-2.09	Il10	-4.90
C030034L19Rik	1.80	Igfbp7	-1.23	Ppp1r3b	-2.09	Cd177	-4.91
Rab27b	1.79	Acpp	-1.23	S100b	-2.09	Cldn15	-4.91
Adamts17	1.79	Arntl	-1.23	Syn1	-2.09	Lmod1	-4.91
Zfp667	1.79	Gyg	-1.23	Pcdhb22	-2.09	Ighv1-66	-4.92
Bean1	1.79	Iqsec1	-1.23	Ptgs2	-2.10	Adamts16	-4.92
Tinag	1.79	Cd34	-1.23	Dbc1	-2.10	Vnn3	-4.92
Slc27a6	1.79	2610002D18Rik	-1.23	Thbd	-2.10	Tagln	-4.93
Nebi	1.79	Car11	-1.23	Pld4	-2.10	Trem12	-4.93
Hsph1	1.79	Cpt1c	-1.23	B4galt2	-2.10	Onecut2	-4.95
Slc1a4	1.78	Fndc3b	-1.23	1200009I06Rik	-2.11	Cxcl17	-4.95
Lypd6b	1.78	Enpp3	-1.23	Abat	-2.11	Gdpd2	-4.97
Klrg2	1.78	Gbp2	-1.24	Fkbp10	-2.11	Ighv1-78	-4.97
Syvn1	1.78	Cnfn	-1.24	Gm5860	-2.11	Itih4	-4.97
Whrn	1.78	Eif4ebp1	-1.24	Vim	-2.11	Gucy1a3	-4.98
Serpinb8	1.78	Ndufa4l2	-1.24	Lipg	-2.12	Igkv4-90	-4.98
Man1a	1.77	Glt25d1	-1.24	Rbm46	-2.12	Actg2	-4.99
n-R5s197	1.77	Gm16206	-1.24	Plaur	-2.12	Lilrb3	-5.01
Trim29	1.77	Tiam1	-1.24	Csf1	-2.12	Soat2	-5.04
Ypel1	1.76	Gch1	-1.24	Gsta3	-2.12	Gap43	-5.04
Fam83c	1.76	Fads1	-1.24	Hebp1	-2.12	Slc10a2	-5.06

Gclm	1.76	1810010H24Rik	-1.24	Rsph1	-2.12	Retnlg	-5.07
Angptl6	1.76	Card14	-1.24	Plxnc1	-2.13	Aqp5	-5.08
Gm5577	1.75	Tnfaip8	-1.24	Stmn2	-2.13	Ighv1-5	-5.08
Slc14a1	1.75	Foxred2	-1.25	Aif1	-2.13	Fndc1	-5.10
Sox21	1.74	Prcp	-1.25	Fyb	-2.13	Bst1	-5.10
Sdf2l1	1.74	Osr1	-1.25	Tacr1	-2.13	Mnda	-5.10
Kazald1	1.74	Chpf	-1.25	Zfhx4	-2.13	Stfa1	-5.10
Agr2	1.74	6530402F18Rik	-1.25	S1pr1	-2.13	Iglv3	-5.11
Phlda2	1.73	She	-1.25	Tlr6	-2.15	Ighj1	-5.13
Bmp4	1.73	Lynx1	-1.25	Cdh11	-2.15	Ighv1-75	-5.13
Gm11538	1.73	Ltc4s	-1.25	Susd3	-2.15	Gng8	-5.13
Kcnj10	1.73	Rnf19b	-1.25	Gpr176	-2.15	Gm5483	-5.13
Opn3	1.72	Plat	-1.25	Synpo2	-2.15	S100a9	-5.14
Upk1b	1.72	Prss22	-1.25	Was	-2.15	Chi3l1	-5.16
Chad	1.72	Alpk1	-1.25	Lst1	-2.15	E330013P04Rik	-5.17
Trp63	1.72	Anubl1	-1.25	Tnip3	-2.16	Kcna5	-5.17
En1	1.72	Bcl2l11	-1.25	C1qc	-2.16	Mcpt2	-5.17
Gm12474	1.72	Rasip1	-1.25	Rnf186	-2.16	Wfikkn2	-5.17
Tnnt2	1.71	4933404M02Ri k	-1.25	Dkk1	-2.16	Igkv1-88	-5.18
Asb2	1.70	Pak6	-1.25	Naip2	-2.16	AW551984	-5.18
Gpnmb	1.70	Sept9	-1.25	Cd300lg	-2.16	Igkv4-62	-5.21
Hes6	1.69	5730409E04Rik	-1.25	Prelp	-2.17	Fpr2	-5.23
Thsd4	1.69	Dhrs3	-1.25	Il6st	-2.17	Cacng7	-5.23
Gata3	1.67	Prrx1	-1.25	Nod1	-2.17	Mosc1	-5.24
Spock2	1.67	Kdr	-1.25	4831426I19Rik	-2.18	Ighv10-3	-5.24
D930019O06Rik	1.67	Nrm	-1.25	Traf3ip3	-2.18	Pdgfrl	-5.25
Itpk1	1.67	Arhgef40	-1.26	Cdk14	-2.18	Ighv1-9	-5.29
Eddm3b	1.67	Cytip	-1.26	Ragef3	-2.19	Selp	-5.29
Wnt10a	1.67	Ctsc	-1.26	Sulf2	-2.19	Spon1	-5.30
Scgb1a1	1.66	Tfpi	-1.26	E030010A14Rik	-2.19	Vtn	-5.31
Trit1	1.66	Icam2	-1.26	Myl9	-2.19	Folr2	-5.32
Hoxa11as	1.66	Gimap4	-1.26	Acvrl1	-2.19	Serpina3m	-5.33
Dsc3	1.66	Palmd	-1.26	Prf1	-2.19	Cxcl1	-5.33
Smpx	1.66	Ero1lb	-1.27	Slc15a2	-2.20	Ighv1-55	-5.35
Col7a1	1.66	Bicc1	-1.27	Csf1r	-2.20	Ighv3-1	-5.35
Prrt1	1.65	Il33	-1.27	Gbx2	-2.20	2810433D01Rik	-5.35
Prdx6b	1.64	Mdfi	-1.27	Lrp3	-2.20	Igkv6-14	-5.36
Sp8	1.64	Mxra7	-1.27	Ms4a7	-2.20	Pf4	-5.36
Usp16	1.64	B4galt6	-1.27	Rnd1	-2.20	Itgb2l	-5.37
Lrrc15	1.64	Rgs16	-1.27	Ccr2	-2.20	Slc10a6	-5.40
A330023F24Rik	1.64	Neurl2	-1.27	Maf	-2.20	Fbln1	-5.40
Vipr1	1.63	Gatsl2	-1.27	1700066B19Rik	-2.21	Cmah	-5.42

Zfp641	1.63	Pdzd2	-1.27	Rhoj	-2.21	Aqp4	-5.45
Ptger3	1.63	Fez2	-1.27	Snai1	-2.21	Ighv1-36	-5.46
Frem2	1.63	C1qtnf2	-1.27	Tnfsf14	-2.21	Il6	-5.47
Olfir558	1.63	Map3k15	-1.27	Adc	-2.21	Csgalnact1	-5.47
Ldlrad3	1.63	Dse	-1.27	Rab42-ps	-2.21	Ighv2-9	-5.47
Bnpl	1.63	Epb4.1l2	-1.27	Srgn	-2.21	Tnfsf11	-5.49
Slc30a2	1.63	Nav1	-1.28	Clec4n	-2.21	Lrrn2	-5.49
Zpbp2	1.63	H19	-1.28	Fes	-2.22	Ighv5-17	-5.52
Wnt7a	1.62	Tcirg1	-1.28	Arxes2	-2.22	Ccl7	-5.54
Syt9	1.62	Syt11	-1.28	Cxcl9	-2.22	Ighv1-26	-5.54
Bend4	1.61	Sik1	-1.28	Slc5a9	-2.22	Dio3os	-5.55
Wif1	1.61	Ctss	-1.28	H2-Q2	-2.22	Ighv1-19	-5.56
Fpgs	1.60	Ncf2	-1.28	Ripply3	-2.23	Tfr2	-5.56
Dsg4	1.60	C1qtnf9	-1.28	Plscr2	-2.23	Slc43a1	-5.57
Tmprss11d	1.60	Ramp2	-1.28	Numbl	-2.23	Tox2	-5.60
C030013C21Rik	1.59	Stambpl1	-1.28	Rbm24	-2.23	Nnmt	-5.61
Cdh17	1.59	Prnp	-1.28	Myo1f	-2.24	Ptx3	-5.62
Hspb1	1.59	Sh3bp2	-1.28	Flnc	-2.24	Darc	-5.63
A730090H04Rik	1.58	Adcy3	-1.28	Acp5	-2.24	Igfbp6	-5.63
Grhl1	1.58	Akap12	-1.28	Itgb8	-2.24	Cd79a	-5.65
Tmem108	1.58	Mfng	-1.28	Kif1a	-2.24	Eef1a2	-5.67
Iglon5	1.58	Pcdh17	-1.28	Hcls1	-2.24	Iglc3	-5.70
Mapk4	1.58	Rab32	-1.28	Kcnq1	-2.25	C6	-5.70
Npr1	1.58	Serpinb9	-1.29	C1qb	-2.25	Igkj5	-5.70
Csf2	1.57	Aldh1l1	-1.29	Fkbp1b	-2.25	Gm5416	-5.70
Wnt4	1.56	Lgals9	-1.29	B3gnt8	-2.25	Ighv8-13	-5.70
Gm7120	1.56	Cebpb	-1.29	Marco	-2.25	Ighv1-81	-5.75
Gja1	1.56	Runx3	-1.29	Tnfaip8l2	-2.25	Clec4a1	-5.76
Aif1l	1.56	Rab11fip5	-1.29	Aldh3b1	-2.25	Prrg3	-5.76
Gm20544	1.55	Ntpcr	-1.29	Mrc2	-2.25	Cnn1	-5.77
Prickle2	1.55	Arhgap19	-1.30	Htra3	-2.25	Ighv5-4	-5.77
Cecr2	1.55	Gfra1	-1.30	Ppbp	-2.25	Ighv2-6	-5.78
Tbx1	1.55	9530003J23Rik	-1.30	Lcn2	-2.26	Nova1	-5.78
Tob1	1.55	Arl5c	-1.30	Csdc2	-2.27	Mmrn1	-5.79
Acnat1	1.55	Gpx3	-1.30	Rragd	-2.27	Igkv19-93	-5.80
Airn	1.55	Tnfaip3	-1.30	Rasl11a	-2.27	Reg3g	-5.81
Ace	1.55	Tie1	-1.30	Arsj	-2.27	Igkv4-79	-5.83
Hdc	1.54	Gpd1	-1.30	Arhgap9	-2.27	Svep1	-5.84
Tpd52l1	1.54	Unc93b1	-1.30	Slc39a14	-2.28	Ighv4-1	-5.85
Gm15344	1.54	F830016B08Rik	-1.30	Col16a1	-2.28	Orm1	-5.85
Sema3c	1.54	Samd9l	-1.30	Col6a3	-2.28	Gm98	-5.86
Fam38b	1.54	Ppm1j	-1.30	1190002H23Ri k	-2.28	BC100530	-5.87

Disp2	1.54	Dennd2d	-1.30	Selplg	-2.28	Tbxa2r	-5.88
Bmp2	1.53	Plod2	-1.30	Itgal	-2.28	Scrg1	-5.88
1110012J17Rik	1.53	Dgat1	-1.31	Hsd11b1	-2.28	Loxl1	-5.88
Gm10104	1.53	Sema3d	-1.31	Hoxb4	-2.28	Fibin	-5.90
Wee1	1.52	Arsg	-1.31	Gkn3	-2.28	Tmem90b	-5.90
Col23a1	1.52	Tmem63a	-1.31	Klra2	-2.29	Adipoq	-5.90
Ablim1	1.51	Ctsk	-1.31	Gpr182	-2.29	Ighv9-3	-5.90
Dbp	1.51	H2-Q6	-1.31	Il16	-2.29	1100001G20Rik	-5.94
Sprr2a3	1.51	Al427809	-1.31	Tyrobp	-2.29	Tmem59l	-5.95
Hspa5	1.51	Msn	-1.31	Ptpn18	-2.29	Igkv8-19	-5.98
Robo1	1.51	Trbv13-2	-1.31	Npas2	-2.29	Igkv3-1	-6.01
Mid1ip1	1.51	Eltld1	-1.31	Fam26f	-2.30	Ighv1-39	-6.01
Hamp	1.50	Zfp820	-1.31	Kcnab2	-2.30	Col3a1	-6.02
Sncaip	1.50	Zfp608	-1.31	Dennd1c	-2.30	Cyp1b1	-6.03
Chn1	1.50	Tnni2	-1.32	E130203B14Rik	-2.30	Sprn	-6.04
9930038K12Rik	1.50	Tnni3	-1.32	Mab2113	-2.30	Alox12e	-6.05
Clic5	1.49	Lat2	-1.32	Pstpip2	-2.30	Ubd	-6.05
Manf	1.49	Mcoln2	-1.32	Palm	-2.30	Adamts5	-6.07
Akr1c12	1.49	Cd69	-1.32	Abtb2	-2.31	Angptl7	-6.07
Dnaja4	1.49	Nuf2	-1.32	Slc41a3	-2.31	Igkv4-68	-6.11
Herpud1	1.49	Plcb1	-1.32	Mustn1	-2.31	Igkv4-69	-6.11
Gli1	1.48	Arnt2	-1.32	Pfkfb3	-2.32	Igkv2-116	-6.11
Cxxc5	1.48	Il27ra	-1.32	Pik3cg	-2.32	Ighv14-2	-6.13
Slc16a10	1.48	Arid3a	-1.32	Gm13178	-2.32	Cma1	-6.14
Ccr7	1.47	Mocos	-1.33	Kcne4	-2.32	Ighv1-63	-6.14
Gm13003	1.47	Pkn3	-1.33	Slc5a8	-2.32	Ighv6-3	-6.16
Rasd2	1.47	Entpd1	-1.33	P2ry13	-2.32	Ms4a1	-6.18
9130409J20Rik	1.47	Prr5	-1.33	Emp3	-2.33	Ighv1-85	-6.18
Igsf9b	1.47	Rgs11	-1.33	Gcnt1	-2.33	Zfpm2	-6.19
Nlrp10	1.47	Rnf130	-1.33	Trim47	-2.33	Ighv5-12	-6.19
Raet1c	1.47	Sept5	-1.33	Kdelr3	-2.34	Clec11a	-6.19
Larp1b	1.47	Csrnp1	-1.33	Prkcb	-2.34	Adamts11	-6.21
4921530L18Rik	1.47	Errfi1	-1.33	Xdh	-2.35	Ighv3-6	-6.21
Pank1	1.46	H2-Q7	-1.33	Cygb	-2.35	C4b	-6.23
2310014L17Rik	1.46	Tubg2	-1.33	B3gnt3	-2.35	Rtn4rl2	-6.25
Esyt3	1.46	Zfp429	-1.33	Nox4	-2.35	Fxyd1	-6.26
Gt(ROSA)26Sor	1.45	Spats2l	-1.34	Samsn1	-2.35	Ighv2-2	-6.26
Serpine2	1.45	Lcp1	-1.34	Mrgprf	-2.35	Ighv1-58	-6.26
Satb1	1.44	Pkia	-1.34	Plek	-2.35	Igkv1-110	-6.28
Smad7	1.44	Pqlc3	-1.34	Hlx	-2.35	Ighv1-15	-6.29
Irs1	1.44	Smtn	-1.34	Slc26a4	-2.35	Igkv4-58	-6.29
Fam124a	1.44	H2-M3	-1.34	Atp1b2	-2.36	Cd19	-6.30
2010015L04Rik	1.43	Lhx6	-1.34	Adamts4	-2.36	Abca8a	-6.31

Flt3l	1.43	Foxc1	-1.34	Chga	-2.36	Tpsab1	-6.32
Gamt	1.43	Rab30	-1.34	Hcst	-2.36	Mfap5	-6.32
Kit	1.43	Pitpnc1	-1.34	Arhgap4	-2.36	Bmper	-6.33
Sfxn2	1.43	Vcan	-1.34	4632428N05Ri k	-2.37	Ighv2-3	-6.34
Pde8b	1.42	Metrn	-1.34	Hoxb6	-2.37	Lox	-6.34
Csrp2	1.42	Ugt1a1	-1.34	2400009B08Rik	-2.37	Ighv1-42	-6.35
Arl4d	1.41	Adamts6	-1.34	Ccdc8	-2.37	Col1a2	-6.37
Dsc1	1.41	Bdh2	-1.34	Sdpr	-2.37	Ighv5-9-1	-6.37
Gnb5	1.41	Cyba	-1.35	Gm5454	-2.38	Ighv1-22	-6.38
Gata2	1.41	Ptpn7	-1.35	Aqp9	-2.38	Stfa2	-6.40
Atoh8	1.41	Atl1	-1.35	Kng2	-2.38	Ighv1-18	-6.42
Krt17	1.41	Nos3	-1.35	Gapt	-2.38	Ighv1-83	-6.43
Rwdd2b	1.40	Plac8	-1.35	Gm14850	-2.39	Igkv4-81	-6.43
1810064F22Rik	1.40	Tead1	-1.35	Cybb	-2.39	Enox1	-6.44
B4galt4	1.40	2010016I18Rik	-1.35	Cysltr1	-2.39	Igkv5-39	-6.46
Tle2	1.40	Dusp4	-1.35	Vdr	-2.40	Igkv17-121	-6.50
Atp10a	1.40	Lama4	-1.35	Obsl1	-2.40	Igkv2-112	-6.52
Dnajb9	1.40	Hoxb5	-1.35	Fstl3	-2.40	Ighv15-2	-6.56
Gm12843	1.40	Layn	-1.36	Plekha4	-2.40	Igkv18-36	-6.56
3110021A11Rik	1.40	S100a13	-1.36	A630001G21Ri k	-2.41	Igkv4-78	-6.56
Fbxo16	1.40	Cdkn2c	-1.36	Syt15	-2.41	Gabra3	-6.57
BC023105	1.39	Nrp2	-1.36	Bend6	-2.41	Lyve1	-6.58
Bco2	1.39	Clmn	-1.36	Btk	-2.41	Gdf6	-6.59
Fras1	1.39	Pcdh19	-1.36	Gpr141	-2.41	Igkv4-61	-6.60
Rpl36-ps3	1.39	Sbno2	-1.36	Cyth4	-2.41	Igkv12-41	-6.60
Amy1	1.39	Trac	-1.36	Ror1	-2.41	Ighv2-9-1	-6.61
2010011I20Rik	1.38	Agps	-1.36	Myb	-2.41	Igkv5-48	-6.63
Ppp3ca	1.38	1700055N04Rik	-1.36	Atp10b	-2.41	Igkv4-57-1	-6.63
Daam2	1.38	Rusc2	-1.36	Clca2	-2.42	Lgi2	-6.67
Ptch2	1.38	Trim35	-1.36	9530034E10Rik	-2.42	P4ha3	-6.67
Creld2	1.38	C3ar1	-1.37	Sh3tc1	-2.42	Mmp8	-6.67
Gm53	1.38	4933426M11Ri k	-1.37	Zfp354c	-2.42	Igkj4	-6.69
Gramd3	1.38	Eno2	-1.37	Prkcdbp	-2.42	Tmem190	-6.69
Gm3699	1.38	Plau	-1.37	Itga9	-2.42	Ighv8-5	-6.69
Hist4h4	1.38	Maged2	-1.37	Grrp1	-2.42	Pi16	-6.69
Gm12536	1.38	Serpib1a	-1.37	Igf1	-2.43	Gm16710	-6.71
Sox15	1.37	Cenpm	-1.37	Oas2	-2.43	Slpi	-6.71
Mccc2	1.37	Robo4	-1.37	Susd2	-2.43	Igkv4-72	-6.73
Gars	1.37	BC028528	-1.37	Tpm2	-2.43	Ighv5-6	-6.73
Pdia4	1.37	Mcam	-1.37	Fgfbp1	-2.43	BC055004	-6.73
Smad6	1.37	Anpep	-1.38	Edn1	-2.44	Ifitm6	-6.74

Evpl	1.36	Rasgrp3	-1.38	Gm10567	-2.44	Rian	-6.77
Slc16a7	1.36	Tbc1d10c	-1.38	Fn1	-2.44	Vgll3	-6.77
Mfsd2a	1.36	Ankrd1	-1.38	Tlr5	-2.44	Capn11	-6.79
Lmo7	1.36	Hspa12b	-1.38	Eln	-2.44	Gm13659	-6.80
Trdv4	1.36	Gm17311	-1.38	Tgm2	-2.44	Igkv4-56	-6.80
Khdrbs3	1.36	Nfatc1	-1.38	Lrrc26	-2.44	Ighv8-12	-6.81
Gm16119	1.35	Itga2	-1.38	Sla	-2.44	Cxcl12	-6.81
Ints3	1.35	Hbb-b1	-1.38	Hmha1	-2.45	Iglv1	-6.82
Hyou1	1.35	Gmpr	-1.38	Sparcl1	-2.45	Ms4a3	-6.82
Gm12207	1.35	Paqr7	-1.39	Aebp1	-2.45	Gdf10	-6.83
Ttc6	1.35	Pstpip1	-1.39	Dennd4a	-2.45	Penk	-6.84
Etnk2	1.35	Tspan17	-1.39	BC020535	-2.45	Ighv1-80	-6.84
Apoo	1.35	Rassf4	-1.39	Oaf	-2.46	Ptgis	-6.86
BC030870	1.35	Cxadr	-1.39	P2ry14	-2.46	Gfpt2	-6.87
Stc2	1.35	Ttyh2	-1.39	Thbs1	-2.46	Pou2af1	-6.88
1810041L15Rik	1.35	Scamp5	-1.39	Reck	-2.46	Meg3	-6.90
Gpt2	1.34	Mical2	-1.39	Ccdc80	-2.47	Igkv6-15	-6.91
Gpr87	1.34	Plekho2	-1.39	Emr1	-2.47	Cntfr	-6.91
Rbbp7	1.34	Ltb	-1.39	D14Ertd668e	-2.47	Crif1	-6.93
Ctnnal1	1.34	Slc22a4	-1.40	Rorb	-2.47	Igkv5-43	-6.96
Fhit	1.34	Ctsl	-1.40	Xpnpep2	-2.47	Igkv3-5	-6.98
Wscd1	1.33	Tchh	-1.40	Adcyap1r1	-2.47	Igkv1-117	-7.00
Pip5k1b	1.33	Gng7	-1.40	Fermt3	-2.48	Igkv9-129	-7.01
Gm15832	1.33	Dkk3	-1.40	Nhs	-2.48	Igkv4-71	-7.01
Prex2	1.33	Def6	-1.40	Lyz2	-2.48	Igkv1-99	-7.03
Gm11730	1.33	Cpne8	-1.40	Fxyd5	-2.48	Igkv4-91	-7.03
Dkk2	1.33	Gpc6	-1.40	Bin2	-2.48	Ighv1-53	-7.04
Foxa1	1.33	Adora1	-1.40	Coro1a	-2.49	Itgbl1	-7.05
Sema6c	1.33	Htra2	-1.40	A430107O13Ri k	-2.49	Ccl8	-7.05
Chrm3	1.33	Tns3	-1.41	Mxra8	-2.49	Ighv3-8	-7.06
Rpl36a	1.32	Unc119	-1.41	Evi2b	-2.49	Rec8	-7.06
Shh	1.32	S100a7a	-1.41	Ankrd22	-2.50	Igkv8-30	-7.07
Tmem159	1.32	Trim30a	-1.41	Csf2rb2	-2.50	Ighv1-64	-7.10
Myzap	1.32	Il10rb	-1.41	Fxyd6	-2.50	AC158671.1	-7.10
Gad2	1.32	4930577N17Rik	-1.41	Epdr1	-2.50	Slit3	-7.10
Kirrel3	1.32	Fam65c	-1.41	C7	-2.50	Igkv12-98	-7.14
Slc22a23	1.32	Gm7676	-1.41	Nlrp3	-2.50	Stfa3	-7.15
Lrrc51	1.32	Cdo1	-1.41	Cyp4f18	-2.51	Igkv4-59	-7.15
Gm17530	1.32	Sdc3	-1.41	Slc6a14	-2.51	Ighv5-2	-7.19
Pgap2	1.32	Fam78a	-1.41	Ipo11	-2.51	Igkv11-125	-7.19
Gss	1.32	Tgfb1	-1.41	Osm	-2.51	Tnfrsf17	-7.19
Unc5b	1.31	Hmga1-rs1	-1.41	Hgf	-2.51	Ighj2	-7.19

Nxph3	1.31	Ppargc1b	-1.42	Tnfrsf13b	-2.52	Gm14548	-7.24
Grtp1	1.31	St6galnac4	-1.42	Clec5a	-2.53	Col8a2	-7.25
Ccdc149	1.31	Cd300a	-1.42	Sema6b	-2.53	Glycam1	-7.28
Evx1	1.31	Rbms1	-1.43	Pilra	-2.53	Ighv1-82	-7.33
Cxcr6	1.31	Slc17a9	-1.43	Fbn2	-2.53	Igkv8-16	-7.35
Rrm2	1.31	Als2cl	-1.43	Adarb1	-2.53	Oxtr	-7.36
Hdhd3	1.31	Tsku	-1.43	Vnn1	-2.54	Igkv8-21	-7.37
Cd3g	1.31	Ttc22	-1.43	Fmn1	-2.54	Cldn2	-7.38
Amt	1.30	Tgfb3	-1.43	Tal1	-2.54	Igkv3-7	-7.40
Gjb6	1.30	Aldh2	-1.43	Mmp19	-2.55	Igkv10-96	-7.40
1500012F01Rik	1.30	Nkg7	-1.43	Cd72	-2.55	Iglv2	-7.42
Pde9a	1.30	Tspan18	-1.43	Trnp1	-2.55	Ighv2-6-8	-7.42
Gm5093	1.29	Agtr1a	-1.43	Adap2	-2.56	Fgf10	-7.47
Fam84a	1.29	Slc16a11	-1.43	Adam28	-2.56	Lrrn4cl	-7.54
4933437F05Rik	1.29	Tnfrsf23	-1.44	Il1f9	-2.56	Igkv10-94	-7.55
Pms1	1.29	Tgm1	-1.44	Fbxo2	-2.56	Ighv10-1	-7.56
Nr4a2	1.29	Fas	-1.44	Pglyrp3	-2.56	Igkv13-84	-7.58
Tmem35	1.29	Rasa4	-1.44	Ch25h	-2.56	Ighv5-16	-7.60
Bdnf	1.29	Parp16	-1.44	Dab2	-2.57	Mmp3	-7.60
Ceacam1	1.29	Igdcc4	-1.44	Tmprss4	-2.57	Igkv2-137	-7.61
Tmem45a	1.29	Fst	-1.44	Col14a1	-2.57	Igkv4-86	-7.62
Anxa4	1.29	Aplnr	-1.44	Irg1	-2.57	Igkv8-24	-7.65
Acsl3	1.28	Ctsb	-1.44	Gyk	-2.58	Chi3l3	-7.65
Igfbp2	1.28	Ifitm2	-1.44	Pou2f2	-2.58	F13a1	-7.66
Mmaa	1.28	1810034E14Rik	-1.44	Cnr2	-2.58	Ighv1-52	-7.68
Psapl1	1.28	Scarf1	-1.44	Evi2a	-2.59	Igkv3-10	-7.68
Dnajc10	1.28	Pnck	-1.45	Abca9	-2.59	Igkc	-7.69
Hoxa13	1.28	Lcp2	-1.45	Klhl6	-2.59	Reg3b	-7.70
Ovol2	1.28	Naprt1	-1.45	Tmem200b	-2.59	Serpina3n	-7.72
Gm2000	1.27	Jam2	-1.45	Pear1	-2.59	Igkv4-57	-7.76
Mlph	1.27	Ap3s1-ps2	-1.45	Gja4	-2.60	2010001M09Rik	-7.76
Atp1b1	1.27	Svil	-1.45	St3gal4	-2.60	Col6a5	-7.77
Rps28	1.27	Csf2ra	-1.45	Fam180a	-2.60	Igkv4-80	-7.79
Rpl10a	1.27	Fam110c	-1.45	Ddah1	-2.60	Cd209g	-7.80
Dsp	1.27	Gm16836	-1.45	Fstl1	-2.60	Cd209d	-7.80
Pycr1	1.27	Parvg	-1.45	Itgb2	-2.60	Oosp1	-7.80
Mt3	1.27	Snx18	-1.45	A2m	-2.60	Igkv6-17	-7.81
Cbs	1.26	Arhgdib	-1.45	Gmfg	-2.61	Igkv6-23	-7.83
Stard10	1.26	Cd276	-1.45	Trpm2	-2.61	Prtn3	-7.84
Acot6	1.26	Arhgef15	-1.45	Sspn	-2.61	1700020L24Rik	-7.85
Ibtk	1.26	Sesn1	-1.46	Ppp1r1b	-2.61	Ighv2-4	-7.85
9130020K20Rik	1.26	Il1a	-1.46	Igfbp4	-2.62	Ighv1-34	-7.85
Mrps6	1.26	Cldn5	-1.46	Apbb1ip	-2.62	Igkv4-50	-7.88

1700021C14Rik	1.26	Its1n1	-1.46	Dgat2	-2.62	Camp	-7.88
Slc5a3	1.26	Ksr1	-1.46	Cd22	-2.62	Rspo3	-7.90
Msr1b2	1.26	Fam102b	-1.46	C1s	-2.62	Cd79b	-7.90
Gm15835	1.26	Pgf	-1.46	Adm2	-2.63	Ighv1-31	-7.90
Tcrg-V6	1.26	Nbl1	-1.46	Agpat9	-2.63	Gm5420	-7.93
Guk1	1.25	Itga7	-1.46	Acat3	-2.63	Ifi205	-7.93
Ecm1	1.25	Ninj1	-1.46	Gm6377	-2.63	Sod3	-7.93
Ciita	1.25	Nid1	-1.47	Alox15	-2.63	Cpz	-7.94
Ccdc62	1.25	Gm17525	-1.47	Ppp1r3d	-2.63	Igkv1-122	-7.98
Ralgps2	1.25	1500002O10Rik	-1.47	Cfh	-2.64	Igkv8-28	-8.02
Mitf	1.25	Mef2c	-1.47	Gzme	-2.64	Igkv6-20	-8.03
Rab6b	1.25	St3gal1	-1.47	Al662270	-2.64	Fcer1a	-8.05
Inca1	1.25	Ddr2	-1.47	Slc43a3	-2.65	Cd209a	-8.05
Plxna3	1.25	Nrp1	-1.47	Cd53	-2.65	Slit2	-8.05
Jag2	1.25	F730043M19Rik	-1.47	Hmgcs2	-2.65	Ly6c2	-8.07
Lgals7	1.25	k	-1.47	Pde10a	-2.65	Igkv5-37	-8.07
Tmem22	1.25	Gm12000	-1.47	Adamts10	-2.65	Col11a1	-8.12
Pvrl3	1.24	Ikake	-1.47	Ccr1	-2.66	Dpep1	-8.12
Fzd10	1.24	Efhc1	-1.48	Lims2	-2.66	Ighv5-15	-8.14
Dach1	1.24	St8sia4	-1.48	Lama2	-2.66	Sult1e1	-8.18
Bcam	1.24	Heyl	-1.48	Lama2	-2.66	Sult1e1	-8.18
Nostrin	1.24	6330416G13Rik	-1.48	Steap3	-2.66	Gm17329	-8.18
Mgst3	1.24	Pla1a	-1.48	Gm885	-2.67	Ngp	-8.18
AY358078	1.24	Nfatc2	-1.48	Cyr61	-2.67	Igkv12-46	-8.21
A4galt	1.24	2310028H24Rik	-1.48	Mmp25	-2.67	Ighv2-5	-8.22
Aldh6a1	1.24	Zc3h12c	-1.48	Cd300lb	-2.67	Sva	-8.22
Spnb1	1.24	Lyn	-1.48	Igfbp5	-2.67	Igkv17-127	-8.22
Unc5c	1.23	Baiap211	-1.48	Rab3il1	-2.68	Stmn3	-8.30
Odz4	1.23	Syne1	-1.48	Atp4a	-2.68	Ighv7-3	-8.33
Ddit3	1.22	Plce1	-1.48	Tmem8	-2.68	Ighv7-1	-8.34
Paqr5	1.22	Tbkbp1	-1.48	Aldh1l2	-2.68	Igkv14-130	-8.35
AA986860	1.22	Nrbp2	-1.49	Zfp423	-2.68	Igkv12-44	-8.45
Spire1	1.21	Cmtm7	-1.49	Cd14	-2.68	Clec3b	-8.48
Fam115c	1.21	Myo1g	-1.49	Ifi27l2a	-2.68	Ccl11	-8.52
Gm11973	1.21	Tram2	-1.49	Frmd5	-2.69	Igkv3-2	-8.58
Rps6-ps1	1.21	Ly86	-1.49	Osmr	-2.69	Igkv12-89	-8.58
Gm2301	1.21	Fkbp5	-1.49	Nid2	-2.69	Aqp2	-8.58
Amigo1	1.21	Grk5	-1.49	Slc2a6	-2.70	1500015O10Rik	-8.59
Cd163l1	1.20	Ckb	-1.49	Gpm6b	-2.70	Igkv8-27	-8.59
Gylt1b	1.20	Hvcn1	-1.49	Il4i1	-2.70	Igkv6-13	-8.60
Slco5a1	1.20	Emp1	-1.49	Zc3h12d	-2.70	Igkv10-95	-8.65
Tcte2	1.20	Cald1	-1.49	Sfpi1	-2.71	Myoc	-8.68
	1.20	St6gal1	-1.50	mt-Co2	-2.71	Ighv1-84	-8.68

BC066135	1.19	1810011O10Rik	-1.50	D730048I06Rik	-2.71	Ighv1-47	-8.71
Il15	1.19	Tnfsf4	-1.50	Cpeb1	-2.72	Spink3	-8.74
Tril	1.19	Abca1	-1.50	P2ry12	-2.72	Igkv15-103	-8.75
Lsm7	1.19	BC024582	-1.50	Mmp9	-2.72	Ighv1-69	-8.79
Gm10563	1.19	Ccdc33	-1.50	Cxcr1	-2.72	Igkv1-135	-8.81
Trim71	1.19	4732471D19Rik	-1.50	Ccl4	-2.73	Ctsg	-8.82
D930048G16Rik	1.19	Fxyd2	-1.50	Il18r1	-2.73	Cd209b	-8.85
9330162012Rik	1.19	BC043934	-1.50	Selm	-2.73	Figf	-8.85
Irf6	1.19	Il21r	-1.50	Cxcl5	-2.74	Igkv3-4	-8.89
Ormdl3	1.19	Zbp1	-1.51	March1	-2.74	Gulo	-8.90
Il17re	1.18	Adamts2	-1.51	Adcy5	-2.74	Igkv4-55	-8.91
Hist2h3c2	1.18	Cotl1	-1.51	Cldn10	-2.74	Igkv6-25	-8.91
BC030307	1.18	Plxdc2	-1.51	Slc9a9	-2.74	Prg4	-8.94
2700046A07Rik	1.18	Depdc1b	-1.51	Gm12824	-2.74	Ighg2b	-8.95
Hoxa10	1.18	F5	-1.51	Fgf9	-2.74	Apod	-8.96
Cobll1	1.18	Sestd1	-1.51	Dram1	-2.75	Defa21	-8.97
Adcy8	1.18	Ipcef1	-1.51	Pyhin1	-2.75	Cd209e	-9.02
Gpld1	1.18	Tgfbr2	-1.51	Ddx3y	-2.76	Igkv4-73	-9.11
Perp	1.18	Fhl1	-1.51	Nup62cl	-2.76	Mcpt4	-9.16
Hmgn3	1.18	Tnfaip2	-1.51	Tm6sf1	-2.77	Igkv1-132	-9.16
Gpr55	1.18	Pld1	-1.51	Larp6	-2.77	Igkv16-104	-9.19
Dcstamp	1.18	Cd48	-1.52	Aldh1a2	-2.78	Igkv14-100	-9.20
Ncoa4	1.17	Cwh43	-1.52	Nfam1	-2.78	Igkv9-120	-9.21
Dnaja1	1.17	Tiparp	-1.52	Il34	-2.78	Ighg2c	-9.21
Btc	1.17	Il2rg	-1.52	Itga11	-2.78	Igkv2-109	-9.21
Zbtb8a	1.17	Cacna1c	-1.52	Relt	-2.78	Ighv11-2	-9.24
Asrgl1	1.17	Foxs1	-1.52	Gata6	-2.79	Ovol3	-9.28
Nudt4	1.17	Ssh2	-1.52	Plscr4	-2.79	Fcnb	-9.32
Hoxb9	1.17	Egfl7	-1.52	Gda	-2.79	Gpr133	-9.36
Wipf3	1.16	Gm694	-1.53	Fndc5	-2.79	Ighv1-59	-9.38
Bend5	1.16	Bmpr1b	-1.53	Ptprc	-2.80	Vip	-9.39
Slx1b	1.16	Gimap6	-1.53	Socs3	-2.80	Vpreb3	-9.43
A930039A15Rik	1.16	Trim46	-1.53	Hoxd13	-2.80	Cpxm1	-9.43
Egr1	1.15	Fgl2	-1.53	Mtmr7	-2.80	Igkv6-32	-9.44
Mrps18a	1.15	Dbn1	-1.53	Stab1	-2.81	A730049H05Rik	-9.48
Itih5	1.15	Dennd4b	-1.53	Napsa	-2.81	Ighv14-1	-9.52
Pkp2	1.15	Apold1	-1.53	Mdk	-2.81	Htr3a	-9.53
Hmgn5	1.15	Tmprss13	-1.53	Gcnt4	-2.81	Klra17	-9.55
2410004N09Rik	1.15	Hs3st1	-1.53	4930581F22Rik	-2.82	Svs2	-9.59
Pkdcc	1.15	Cd47	-1.53	Ms4a14	-2.82	Serpina3c	-9.63
Rassf9	1.14	Capn13	-1.53	Igkj3	-2.82	Ighv1-76	-9.64
Rnps1	1.14	Cdk20	-1.53	Gucy1b3	-2.83	Lin28a	-9.64
Prkab2	1.14	Bcl2l15	-1.54	Dok2	-2.83	Ighv1-7	-9.72

Gm16894	1.14	Rel	-1.54	Sftpd	-2.84	Ighv1-4	-9.72
Msx2	1.14	Zdhhc15	-1.54	Padi4	-2.84	Defa20	-9.78
Kif26a	1.14	Clcf1	-1.54	Gypc	-2.84	Cd209f	-9.79
Strbp	1.14	Mfhas1	-1.54	Fcgrt	-2.84	Igkv14-111	-9.80
Chordc1	1.14	Mmrn2	-1.54	Cnrip1	-2.84	Igkv3-9	-9.87
Gm4893	1.14	Car12	-1.54	D030025P21Ri k	-2.84	Ighv14-4	-9.95
BC046404	1.13	Ppp1r18	-1.54	Entpd2	-2.84	Mpo	-9.96
1700056N10Rik	1.13	Tgfb1i1	-1.54	Apba1	-2.84	Gm15308	-9.97
Slc9a7	1.13	2510046G10Rik	-1.55	Rgs14	-2.84	Sfrp1	-9.99
Shq1	1.13	Slco2b1	-1.55	Pla2g2d	-2.84	Igkv12-38	-10.02
Gm10029	1.13	Asah2	-1.55	Pilrb2	-2.85	Igkv3-3	-10.11
Rpl37-ps1	1.13	Meox1	-1.55	Adamts15	-2.85	Bdkrb1	-10.16
Gm16600	1.13	B3galnt1	-1.55	Creb3l1	-2.86	Adam33	-10.18
Dpp4	1.13	1190003J15Rik	-1.55	Wbscr17	-2.86	Cxcl13	-10.19
Plcx2	1.13	Slc4a3	-1.55	Lrg1	-2.86	Svs3b	-10.20
Krt19	1.12	Prss32	-1.55	Arhgap15	-2.87	Cpa3	-10.23
Fam187b	1.12	Unc13d	-1.55	Glis3	-2.87	Ighg3	-10.30
Chml	1.12	Bmp1	-1.55	Zfp521	-2.88	Dmbt1	-10.32
Zfp428	1.12	Crct1	-1.55	Lpar1	-2.88	Chrdl1	-10.41
Dbt	1.11	Ugt2b34	-1.55	Col5a2	-2.88	Ighv14-3	-10.42
Banp	1.11	Kalrn	-1.55	Csf3	-2.89	Grem2	-10.43
Pdp2	1.11	Ttc39c	-1.55	Ccl6	-2.89	Svs4	-10.46
Esrrg	1.11	Plcl2	-1.55	2610528J11Rik	-2.89	Nfasc	-10.51
Eri2	1.11	Syt8	-1.55	Sirpb1a	-2.89	Prph	-10.52
0610009E02Rik	1.11	Rgl1	-1.56	B3gnt9-ps	-2.90	Dpt	-10.64
Gm10506	1.11	Clu	-1.56	Rcsd1	-2.91	Ndn	-10.64
Slc25a47	1.11	4930503L19Rik	-1.56	Myo7a	-2.91	Mfap4	-10.65
Arhgap6	1.11	Ero1l	-1.56	Calml4	-2.91	Svs5	-10.73
Sumo2	1.10	Slfn2	-1.56	Dpep2	-2.91	Ighv1-54	-10.75
Tufm	1.10	5330426P16Rik	-1.57	Noxa1	-2.91	Ighv9-1	-10.78
Fam129c	1.10	Prkar1b	-1.57	Atp2a3	-2.92	Olf1033	-10.81
Gse1	1.10	Gpx8	-1.57	Hck	-2.92	Olfml1	-10.93
Sfi1	1.10	Pla2g5	-1.57	Slc7a2	-2.92	Ighv8-8	-11.30
Srsf2	1.10	Dusp18	-1.57	Dcn	-2.92	Pate4	-11.45
Pex1	1.10	Clca4	-1.57	Stard8	-2.92	Sfrp4	-11.48
Msi1	1.10	Ptk2b	-1.57	Lrrc33	-2.92	Tspan11	-11.54
Fkbp4	1.10	Tmem221	-1.57	Slc1a2	-2.93	Chrdl2	-11.61
Nipal4	1.10	Lrig1	-1.57	Arsi	-2.93	Ighg1	-11.64
E030030I06Rik	1.10	Fgd2	-1.58	Fcgr3	-2.93	Elane	-11.85
Cox7a1	1.10	Batf	-1.58	Siglece	-2.93	Igkv9-124	-11.88
Gm11808	1.10	Rin3	-1.58	Dusp1	-2.94	Igkv4-53	-12.10
Rhob	1.09	Hmcn1	-1.58	Ret	-2.94	Igkv4-63	-12.17

Ctnnd2	1.09	Gde1	-1.59	Pmp22	-2.94	Cfd	-12.26
P2ry1	1.09	Camk2n2	-1.59	Tmem52	-2.95	Cilp	-12.40
Duoxa1	1.09	Nupr1	-1.59	Gpr84	-2.95	Igkv14-126	-12.41
Dos	1.09	Morn4	-1.59	4732490B19Rik	-2.95	Svs3a	-12.68
Cd24a	1.08	Man2a2	-1.59	Chl1	-2.95	Ogn	-12.71
H1fx	1.08	Hhex	-1.59	Car9	-2.96	Igkv3-12	-12.74
Morn1	1.08	Tnk1	-1.59	Nhsl2	-2.97	Cd163	-12.78
Acrbp	1.08	Tlr9	-1.60	Ifitm1	-2.97	Epyc	-12.82
Dgka	1.08	E130003G02Rik	-1.60	Scara5	-2.97	Folh1	-13.00
Ptms	1.08	Gm4902	-1.60	BC026585	-2.97	Scn7a	-13.60
Mtss1l	1.07	Sprr2d	-1.60	Ephb2	-2.97	Svs6	-13.66

Total DEGs	3240
Up-regulated	894
Down-Regulated	2346

Supporting Table 3 (Supporting data for Figure 5A) : RNAseq Gene List							
<i>H11L-Met/+;Ctnnb1(Ex3)L/+;PB-Cre4 and Ctnnb1(Ex3)L/+;PB-Cre4 vs Ctnnb1(Ex3)fl/+ PBCre4</i>							
Gene Name	logFC	Gene Name	logFC	Gene Name	logFC	Gene Name	logFC
Prl8a2	15.99	Ptdss2	0.37	Tspan3	0.07	Limk1	-0.51
2310002L13Rik	10.01	Zfp410	0.37	Epb4.115	0.07	9930012K11Rik	-0.51
Tpbpa	9.96	Ftsj2	0.37	Ctdsp2	0.07	Eif1b	-0.51
Ndp	9.26	Mesdc2	0.37	Get4	0.07	Dlg1	-0.51
Gm156	9.17	Tusc1	0.37	Kif2a	0.07	Wdhd1	-0.51
Arid3c	9.01	Ttc3	0.37	Rtn4ip1	0.07	Cmas	-0.51
Prl8a9	8.99	Chmp3	0.37	Arhgef10l	0.07	Dnajb5	-0.51
Dlx2	8.99	Alad	0.37	B9d1	0.07	Sh3yl1	-0.51
9530053A07Rik	8.94	Rpap1	0.37	Alkbh7	0.07	Cc2d2a	-0.51
Foxl2	8.85	Zfp706	0.37	Mib1	0.07	Cpeb4	-0.51
Irx4	8.73	Dusp28	0.37	Vta1	0.07	Cln8	-0.51
Gm9765	8.31	Nosip	0.37	Gm16039	0.07	Tinf2	-0.51
Tgm4	8.16	Cog3	0.37	4933427D14Rik	0.07	Cdr2	-0.51
Fam115e	8.00	Rrs1	0.37	Calm1	0.07	Ncs1	-0.51
Mrgpra9	7.68	Ranbp3	0.37	4931414P19Rik	0.07	Aldh1a7	-0.51
Spr-ps1	7.62	Ilf3	0.37	Adck2	0.07	Pole2	-0.51
Itln1	7.59	Nars2	0.37	Stat6	0.07	Gm6843	-0.51
9530002B09Rik	7.56	Sec24c	0.37	Rad21	0.06	Vkorc1	-0.51
Kiss1	7.44	Dr1	0.37	Zfp87	0.06	Slc44a4	-0.51
Hamp2	7.02	Al846148	0.37	Tada2b	0.06	Plekhm3	-0.51
Gm5615	6.97	Capg	0.37	Trp53bp1	0.06	E130102H24Rik	-0.51
Lce3c	6.93	Lsmd1	0.37	D11Wsu99e	0.06	Gm15564	-0.51
Erv3	6.72	Ick	0.37	Angel2	0.06	Hps3	-0.51
Fgf20	6.42	Rnd3	0.37	Mtmr11	0.06	Flrt2	-0.51
Gm6570	6.39	Psmb2	0.37	Nras	0.06	Ephx2	-0.51
4930502E18Rik	6.39	Immt	0.37	Haus2	0.06	Plk1s1	-0.51
Gsg1l	6.38	Eif2c4	0.37	0610037P05Rik	0.06	6330409N04Rik	-0.51
Jakmip2	6.34	Nt5e	0.37	Cpsf4	0.06	Ttc39b	-0.51
Atp6v1c2	6.24	Spa17	0.37	Hnrnph1	0.06	Appl1	-0.51
9130019P16Rik	6.17	Ddx10	0.37	Rad9	0.06	Ubtd2	-0.52
Pnlip	6.08	Cstf1	0.37	1810020D17Rik	0.06	Atf5	-0.52
Svopl	6.05	Zfp622	0.37	Fam172a	0.06	Porcn	-0.52
Ang5	6.03	Dvl2	0.37	Fnbp4	0.06	Gpr180	-0.52
Ang4	5.87	Nop14	0.37	Zbtb26	0.06	Dcun1d3	-0.52
Dmrta2	5.86	Gspt2	0.37	Rhbdd3	0.06	Synm	-0.52
Megf10	5.76	Krt18	0.37	Pafah1b1	0.06	Marveld1	-0.52
Ang6	5.68	Foxp4	0.37	Trio	0.06	Ddhd1	-0.52
Apoc1	5.67	Cpsf3l	0.37	Mkrn2	0.06	Mill2	-0.52
Abhd12b	5.67	Tbc1d4	0.37	Gnb2	0.06	Nelf	-0.52

Dkk1	5.66	Atp5o	0.37	Eif2s2	0.06	Cyp4v3	-0.52
Crabp1	5.57	Wdr45l	0.37	Ankzf1	0.06	Manea	-0.52
Krt42	5.49	Rabep1	0.37	Ahnak	0.06	Bbs10	-0.52
Krt84	5.40	2210016F16Rik	0.37	Pam	0.06	Tubgcp2	-0.52
Gm11100	5.36	Aox1	0.37	U2af1l4	0.06	Abca7	-0.52
Gm6901	5.29	Eif2s1	0.37	Pten	0.06	Trim59	-0.52
Lgr6	5.29	Prom2	0.37	Ddx3x	0.06	Syde1	-0.52
Slco1b2	5.21	Aven	0.37	BC017158	0.06	1700009P17Rik	-0.52
Gsdma3	5.16	Prmt10	0.36	Dtd1	0.06	Pdlim7	-0.52
Pnliprp1	5.12	Cdc37	0.36	AK157302	0.06	Cdk5rap1	-0.52
Chn2	5.11	Trim41	0.36	Acyp2	0.06	Zfp36	-0.52
2300002M23Rik	5.10	Fbxo9	0.36	Tcf25	0.06	Cdca7	-0.52
Fgf3	5.09	Alpl	0.36	Yipf5	0.06	Gnai2	-0.52
Anxa13	5.02	Nsun5	0.36	Erlec1	0.06	Klhl28	-0.52
Rbfox1	4.98	Hiat1	0.36	Pbrm1	0.06	Lymr2	-0.52
Cyp11a1	4.96	Rbm28	0.36	AI848100	0.06	Tmem170b	-0.52
Rps2	4.95	Upk2	0.36	Gm10311	0.06	Mphosph6	-0.52
Pde11a	4.89	Smg7	0.36	Kcmf1	0.06	Gm5506	-0.52
Slc26a3	4.87	Stk17b	0.36	Zfp426	0.06	S1pr2	-0.52
Trpm3	4.86	Kdm4b	0.36	Clcn4-2	0.06	Bst2	-0.52
Pou2f3	4.83	Lymr4	0.36	Usp8	0.06	Prr16	-0.53
Ear11	4.80	Mkl2	0.36	Zbtb4	0.06	Rab4b	-0.53
Uts2d	4.72	Atn1	0.36	Taco1	0.06	Fkbp15	-0.53
Gm5077	4.70	Ttc33	0.36	Rnf113a1	0.06	Irak4	-0.53
Nkx3-1	4.69	Zfp263	0.36	Fam162a	0.06	Psd3	-0.53
Ren1	4.69	Ube2n	0.36	Ngly1	0.06	Slc48a1	-0.53
Crhr1	4.68	Ogfod1	0.36	Arap2	0.06	C1galt1	-0.53
Krt33a	4.65	Efha2	0.36	Mocs3	0.06	4930572J05Rik	-0.53
Pgr	4.59	Sf3a3	0.36	Aplp2	0.06	Gm13375	-0.53
C530008M17Rik	4.58	Zfp26	0.36	Npepps	0.06	Sntb2	-0.53
Diras2	4.57	Rbm45	0.36	Immp2l	0.06	Ccdc120	-0.53
Gm13834	4.56	Thoc2	0.36	BC024479	0.06	Ankle1	-0.53
5S_rRNA	4.56	Rpl22l1	0.36	Maea	0.06	Ano1	-0.53
Gm12238	4.56	Clk2	0.36	Rbm39	0.06	Cenpn	-0.53
Trgj4	4.56	Flad1	0.36	Wdr73	0.06	Lgals3	-0.53
C1rb	4.50	Igf2	0.36	Tead3	0.06	Sec11c	-0.53
Ugt8a	4.49	1700019E19Rik	0.36	Crtc2	0.06	Mfsd1	-0.53
Klhl14	4.48	Ly6g6d	0.36	Mctp1	0.06	Serpinb11	-0.53
Ang2	4.45	1110008J03Rik	0.36	Eri1	0.06	P2ry10	-0.53
Gm16485	4.42	Foxn3	0.36	Mrpl3	0.06	Asf1b	-0.53
Nrgn	4.42	Serp1	0.36	Bfar	0.06	Runx1	-0.53
Krt16	4.41	C130022K22Rik	0.36	Xpo6	0.06	Gpr128	-0.53
Lce3b	4.38	Ipo4	0.36	Rbm12b	0.06	Nhs1	-0.53

Klk14	4.34	Nubpl	0.36	Mrps15	0.06	Bbip1	-0.53
2310043J07Rik	4.24	St7l	0.36	Leprel1	0.06	Ethe1	-0.53
C86695	4.21	Btbd6	0.36	Alkbh1	0.06	H2-T24	-0.53
Inmt	4.21	Ndufab1	0.36	Tgoln1	0.06	Nudt16	-0.54
Nppb	4.20	Dlg5	0.36	Chek2	0.06	Lnp	-0.54
Crnn	4.19	Rfwd3	0.36	9430016H08Rik	0.06	Olfm1	-0.54
Gpr165	4.15	Tsn	0.36	Dcun1d5	0.06	Gstm5	-0.54
St8sia2	4.13	Ddi2	0.36	Eif4h	0.06	Rbmx	-0.54
Bex4	4.10	Slc9a8	0.36	Tmem209	0.06	Rprm	-0.54
Azgp1	4.09	Wbp7	0.36	Cpped1	0.06	Pml	-0.54
Strc	4.08	Bok	0.36	Taf1	0.06	Nusap1	-0.54
Ccl22	4.06	Lamtor2	0.36	Pcm1	0.06	Pla2g2f	-0.54
Gm15983	4.06	Dnm1l	0.36	Cep70	0.06	Mapk9	-0.54
Aspg	4.05	Ube2m	0.36	Nus1	0.06	Tor2a	-0.54
H60b	4.04	Cep164	0.36	D130040H23Rik	0.06	Dusp16	-0.54
Defb1	4.03	Trim2	0.36	Dennd1b	0.06	Slc40a1	-0.54
3830417A13Rik	4.02	Zfp358	0.36	Rnaseh1	0.06	mt-Co1	-0.54
Klra5	4.02	Plec	0.36	Bud13	0.06	4933407C03Rik	-0.54
Gm17301	4.01	Spg20	0.36	1300018I17Rik	0.06	Blm	-0.54
Gm10942	4.01	Yipf6	0.36	2310035C23Rik	0.06	F3	-0.54
Gm17583	4.01	Ctnnd1	0.36	Usp43	0.06	Fgfr1	-0.54
Gm17607	4.01	Ndufv2	0.36	Rabep2	0.06	Cd1d1	-0.54
Krt78	4.01	Cox6b1	0.36	BC048355	0.06	Gm15867	-0.54
Serpinb10-ps	3.97	Gga3	0.36	Mtap1b	0.06	Casc5	-0.54
Dapl1	3.91	4930453N24Rik	0.36	Mecp2	0.06	Cenpf	-0.54
Klf12	3.90	Sun1	0.36	Rnh1	0.06	2610029I01Rik	-0.54
Zbtb8b	3.90	Hnrnpa2b1	0.36	Yipf1	0.06	Aurkb	-0.54
Adcy1	3.88	Eif3h	0.36	Spen	0.06	Pdp1	-0.54
Tlx2	3.88	Stt3b	0.36	Minpp1	0.06	Myd88	-0.54
B430010I23Rik	3.87	Rnf6	0.36	Zfp61	0.06	Mgat5	-0.54
Apof	3.86	Acad11	0.36	Zfp945	0.06	Hmgb2	-0.54
Gm1679	3.85	Arf6	0.36	Prdm10	0.06	Osr2	-0.54
Areg	3.84	Trps1	0.36	Morc4	0.06	Adpgk	-0.54
Cd7	3.80	Mrpl39	0.36	Muted	0.06	Stc1	-0.54
Rab39b	3.78	Wdr85	0.36	Trpm7	0.06	Slc45a3	-0.55
Xcl1	3.78	Chtf8	0.36	1110037F02Rik	0.06	Uvrag	-0.55
Tbx4	3.75	Mrpl4	0.36	Lin9	0.06	Anxa9	-0.55
Atp12a	3.75	Atp13a3	0.36	Slc4a7	0.06	mt-Rnr1	-0.55
Glb1l3	3.75	Gnpnat1	0.36	Heca	0.06	Abca3	-0.55
Golt1a	3.75	Prkar2b	0.36	Setx	0.06	B230208H11Rik	-0.55
Idi2	3.72	Ylpm1	0.36	2310001H17Rik	0.06	Tnfsf9	-0.55
Mtap7d2	3.69	Anapc13	0.36	Ppp3cb	0.06	Nav3	-0.55
Trpc6	3.67	Mrp63	0.36	Nt5c3	0.06	Tacc3	-0.55

Cxhc4	3.67	Cul4a	0.36	Hbxip	0.06	Mapre2	-0.55
4732456N10Rik	3.67	Pwwp2a	0.36	Kifap3	0.06	Ceacam10	-0.55
Pitx1	3.64	Srsf6	0.36	Taf15	0.06	Camk2g	-0.55
Arc	3.64	Utp3	0.36	Arf5	0.06	Itgb1	-0.55
Egf	3.62	Ak3	0.36	Tubgcp5	0.06	Arhgap11a	-0.55
Klrb1	3.59	Dpy30	0.36	2310021P13Rik	0.05	Ccdc142	-0.55
Gsdma	3.59	Gm15605	0.36	Nkain1	0.05	Cirbp	-0.55
Grin2d	3.58	Nceh1	0.36	Polm	0.05	H2afy2	-0.55
H2-M2	3.58	Rgs12	0.36	Nsmce2	0.05	St3gal2	-0.55
Tdo2	3.58	Narf	0.36	Aldh5a1	0.05	Foxo1	-0.55
Igfbpl1	3.56	Vdac3	0.36	Phtf2	0.05	Pcdhb16	-0.55
Gprc5d	3.53	Serinc5	0.36	Ndfip2	0.05	Cttnbp2nl	-0.55
Mt4	3.51	Eif4g1	0.36	Mpnd	0.05	Dtl	-0.55
Sema4g	3.42	4930522L14Rik	0.36	Sugp1	0.05	Cln3	-0.55
Ldoc1	3.41	Shoc2	0.36	Blcap	0.05	Ear2	-0.55
Lce3a	3.40	Zkscan1	0.36	Bmf	0.05	Slfn5	-0.55
Cth	3.38	Dot1l	0.36	Hsd17b4	0.05	Agfg2	-0.55
Gm20442	3.38	Polr1d	0.36	Vapb	0.05	Tmem189	-0.55
Cck	3.36	Dnajc19	0.36	St5	0.05	Rap2a	-0.55
Pgm5	3.35	2310037I24Rik	0.36	B4galt3	0.05	Mcc	-0.55
Hs3st6	3.35	Zfp346	0.36	Coq10b	0.05	Nhej1	-0.55
Tmod4	3.34	Ubqln2	0.36	Fam65a	0.05	Ccdc126	-0.55
Calcbl	3.33	Sap30bp	0.36	Taf5	0.05	Cmb1	-0.55
Dlx5	3.32	Gm8894	0.36	D4Ert22e	0.05	Cdon	-0.56
Klk10	3.30	Fam193a	0.36	Hoga1	0.05	Ptpre	-0.56
Il17a	3.27	Cyb561	0.36	Zfp384	0.05	Rtp4	-0.56
Gm1574	3.26	D930016D06Rik	0.36	Zfp212	0.05	Ppard	-0.56
5330417C22Rik	3.24	Abcf1	0.36	Taf2	0.05	Xaf1	-0.56
Spink8	3.23	D9Ert2402e	0.36	Cnot8	0.05	Tcf19	-0.56
Slc9a2	3.22	Atp5l	0.36	ErbB3	0.05	Fggy	-0.56
Slitrk6	3.22	Fam19a5	0.35	Bag1	0.05	Tagln2	-0.56
Lrrc4	3.21	B3galnt2	0.35	Galns	0.05	Hist2h2be	-0.56
Cryaa	3.21	Wdr33	0.35	Smc6	0.05	Snx10	-0.56
D630045J12Rik	3.21	Zscan21	0.35	Dnajb12	0.05	Rad54b	-0.56
Sytl5	3.19	Nt5m	0.35	Fbxo42	0.05	Gm15639	-0.56
Rab3c	3.19	Prpf31	0.35	Rfc1	0.05	Galc	-0.56
Lhfpl1	3.19	Psmb1	0.35	Pi4ka	0.05	Prx	-0.56
Krt79	3.19	Acadm	0.35	Slc27a4	0.05	C330027C09Rik	-0.56
Mrap2	3.18	Polr2j	0.35	Atp5f1	0.05	Fosl2	-0.56
Itih2	3.14	Preb	0.35	Pdcl3	0.05	Spag1	-0.56
Otop1	3.12	Cnpy2	0.35	Usf2	0.05	Zfp551	-0.56
Rnase1	3.12	Btbd1	0.35	Dcakd	0.05	Stat1	-0.56
P2rx2	3.12	Eif3b	0.35	Morf4l1	0.05	Sh3bgrl	-0.56

Kcnj12	3.11	Adprhl2	0.35	Krba1	0.05	Il20rb	-0.56
Slc6a12	3.11	Pgls	0.35	Zfp511	0.05	Pamr1	-0.56
Trbd1	3.10	Sf3b3	0.35	9230111E07Rik	0.05	Samd12	-0.56
Trbj2-3	3.10	Capns2	0.35	Auh	0.05	6430548M08Rik	-0.56
Trbj2-4	3.10	Smarcc1	0.35	Appbp2	0.05	Tpst1	-0.56
Slc25a30	3.08	Scamp1	0.35	Rras	0.05	Ptgfrn	-0.56
Gm16801	3.05	Plxna4	0.35	Gm5745	0.05	Dll1	-0.56
Gm11535	3.05	Ndufa7	0.35	Atg4d	0.05	Gadd45b	-0.56
Suox	3.05	Gm5900	0.35	Timm17b	0.05	Casp7	-0.56
Slc18a1	3.04	Xpo1	0.35	Aurkaip1	0.05	Rnase6	-0.57
Ppp4r4	3.04	Dhrs7	0.35	Scaf11	0.05	Sepx1	-0.57
Frem1	3.03	Cenpt	0.35	Exoc5	0.05	5S_rRNA	-0.57
Krt13	3.03	Ruvbl2	0.35	Gm9762	0.05	Apaf1	-0.57
Adamdec1	3.03	4632404H12Rik	0.35	Zc3h6	0.05	Blvrb	-0.57
Nptx1	3.00	Gm6728	0.35	Rrp12	0.05	Tmem204	-0.57
Fam184a	2.97	F11r	0.35	Gna12	0.05	11-Sep	-0.57
Al118078	2.96	Wbscr16	0.35	Pitpm1	0.05	Adck4	-0.57
Epha7	2.96	Rps6kb1	0.35	Traf3ip2	0.05	6-Sep	-0.57
Hand2	2.93	Psmc5	0.35	Zfp598	0.05	Gm16675	-0.57
C4bp	2.92	Atp5b	0.35	Csda	0.05	4930547N16Rik	-0.57
Ptn	2.91	Gtpbp10	0.35	Ppp1r10	0.05	Napepld	-0.57
Robo2	2.91	Rnf8	0.35	Ahcy	0.05	Mterfd3	-0.57
Rufy4	2.90	Hscb	0.35	Xiap	0.05	Acsl4	-0.57
Lrch2	2.89	Polr3h	0.35	Ptprg	0.05	Slc29a3	-0.57
Mtus2	2.89	Pex26	0.35	Smug1	0.05	Kif20a	-0.57
Kcnn2	2.89	Tmem87a	0.35	Nudcd3	0.05	Myo1b	-0.57
Ly6g6c	2.88	Polr3b	0.35	Nup98	0.05	Lmo2	-0.57
Prkcq	2.87	Dhx9	0.35	Mettl4	0.05	Inpp4a	-0.57
Sorcs1	2.87	Mon2	0.35	Dnajc8	0.05	Zfyve20	-0.57
Frmpd1	2.86	Tspan1	0.35	Pacsin2	0.05	Ube2t	-0.57
1700066J03Rik	2.86	Akap8	0.35	Samm50	0.05	Tmprss2	-0.57
Elfn2	2.85	1110034G24Rik	0.35	Hdac3	0.05	Parp14	-0.57
Dsg3	2.85	Phactr1	0.35	Tmem55b	0.05	Stra6	-0.58
Tgm3	2.84	Tchp	0.35	Pank4	0.05	Pdxdc1	-0.58
Sall1	2.82	Mdn1	0.35	Clcn7	0.05	Gm20492	-0.58
Gsdmc3	2.81	Ptcd3	0.35	Phf10	0.05	Bzw2	-0.58
Nxf7	2.81	Zrsr2	0.35	Tmem81	0.05	Ppm1h	-0.58
Prss35	2.80	Nxt1	0.35	Zfp91	0.05	Zfp69	-0.58
Mamdc2	2.80	Usp31	0.35	Fam40a	0.05	Gpt	-0.58
Hspa1b	2.79	Abi2	0.35	Cdk13	0.05	Prdx5	-0.58
S100a3	2.79	Nupl1	0.35	Zfp654	0.05	mt-Nd5	-0.58
2010300C02Rik	2.78	Cmc1	0.35	Ube3b	0.05	Ppm1f	-0.58
Tsx	2.78	Rpp14	0.35	Poll	0.05	Cep192	-0.58

Tox3	2.78	Zfp828	0.35	Tab2	0.05	Calm3	-0.58
Krtap3-3	2.76	Wbp4	0.35	Bckdk	0.05	Gtdc1	-0.58
Smad9	2.76	Tmem123	0.35	9130023H24Rik	0.05	Tpcn2	-0.58
Hist2h2bb	2.74	Mllt10	0.35	Ywhab	0.05	Fam101b	-0.58
Lypd6	2.73	Cuedc2	0.35	Galnt1	0.05	Pgs1	-0.58
Gm16885	2.71	Rsrc2	0.35	Snx27	0.05	Slc2a1	-0.58
Limch1	2.71	Ccdc61	0.35	Pcnx	0.05	Birc5	-0.58
Prlr	2.71	Eif3e	0.35	Acbd3	0.05	Ppp2r2b	-0.58
Defb50	2.69	Prmt7	0.35	Stk35	0.05	Camk1	-0.58
Tcf15	2.68	Uba6	0.35	Chmp2b	0.05	Meis3	-0.58
Spink5	2.68	Pum1	0.35	Pik3c3	0.05	Abcc1	-0.58
Hey2	2.67	Mapk8ip1	0.35	Lonrf1	0.05	Tspan14	-0.58
Gucy2g	2.67	Paqr4	0.35	Scfd2	0.05	Runx2	-0.58
Srpx	2.66	Mum1	0.35	Ahr	0.05	St6galnac6	-0.58
Cacnb2	2.66	Bud31	0.35	Wdr70	0.05	Thsd1	-0.58
Sprr1b	2.65	Rrp36	0.35	Zfp597	0.05	Gm6712	-0.58
Defb14	2.62	Acvr2b	0.35	Fbxl20	0.04	Manba	-0.58
Krt1	2.62	Gm16124	0.35	Adam10	0.04	Gm16001	-0.59
Cd200r4	2.61	Cct4	0.35	Anks3	0.04	Gimap1	-0.59
3632451O06Rik	2.61	Slc36a4	0.35	Cdk5	0.04	Rlf	-0.59
Scube1	2.60	Adh5	0.35	Slc41a1	0.04	Cys1	-0.59
Gm15053	2.59	Got2	0.35	Fadd	0.04	Itpkb	-0.59
Sprr2f	2.59	Tssc4	0.35	Derl1	0.04	Ly96	-0.59
Serpinb9b	2.58	Apool	0.35	Ulk2	0.04	Kctd15	-0.59
B3gnt7	2.58	Mrpl37	0.35	Vhl	0.04	1810014F10Rik	-0.59
Calml3	2.58	1700029G01Rik	0.35	Ubl7	0.04	Nudt18	-0.59
Cpm	2.58	Hsd17b10	0.35	Hdhd2	0.04	Naaa	-0.59
Mest	2.56	Lztr1	0.35	Wtap	0.04	Arhgef2	-0.59
Lym7	2.55	Rrp15	0.35	Rbm3	0.04	2610035D17Rik	-0.59
Mmp10	2.54	Mrps28	0.35	Ahctf1	0.04	Kank3	-0.59
Mycn	2.54	Atxn7l3	0.35	B630005N14Rik	0.04	Dpy19l1	-0.59
Ppp1r14d	2.54	Orc5	0.35	Plekha3	0.04	Map3k1	-0.59
Hoxb13	2.53	4632411B12Rik	0.35	Ap2m1	0.04	Ncapg2	-0.59
Sox2	2.52	Ercc4	0.35	4933434E20Rik	0.04	Efh2	-0.59
Itgae	2.51	Chmp4c	0.35	Mef2d	0.04	Rhbdd2	-0.59
Inpp4b	2.51	Hadha	0.35	Lnx1	0.04	Slc2a10	-0.59
Ccdc68	2.50	Msl1	0.35	Ppp4r1	0.04	Fmo5	-0.59
Cldn14	2.50	Efnb1	0.34	Snap47	0.04	Hspb8	-0.59
Rps4y2	2.50	Fem1b	0.34	Fam96a	0.04	Gdgd1	-0.59
Adrb1	2.48	Gabarapl2	0.34	Coq2	0.04	Txnrd1	-0.59
Efcab1	2.48	Pdhd	0.34	Snap29	0.04	Hivep3	-0.59
Nudt10	2.48	Slc22a18	0.34	Magi1	0.04	Cdh5	-0.59
Fam55c	2.48	Sub1	0.34	Exoc3	0.04	Synj1	-0.59

Krt14	2.47	Ccdc59	0.34	Camkk1	0.04	Fam38a	-0.59
Greb1	2.47	1110034A24Rik	0.34	Tbc1d17	0.04	Uhrf1	-0.59
Pdlim3	2.46	Thoc5	0.34	Acadsb	0.04	Cnksr1	-0.59
Gm15839	2.46	Cdca4	0.34	Prelid1	0.04	Srgap1	-0.59
Fetub	2.45	Rps14	0.34	Tdp1	0.04	Sox13	-0.59
Pla2g2a	2.44	Oxsr1	0.34	Gm8181	0.04	Gltf	-0.59
B4galnt3	2.43	Rrn3	0.34	Irf8	0.04	Zyx	-0.60
Gm10136	2.43	8430410A17Rik	0.34	Iqce	0.04	Tbc1d8	-0.60
AU022754	2.43	Mfap1b	0.34	Pigt	0.04	Zfp455	-0.60
Il12rb2	2.43	Tada3	0.34	Ogfr	0.04	Uck2	-0.60
Egfl6	2.43	Ywhae	0.34	Armxc3	0.04	Arhgap10	-0.60
Chrm1	2.42	B230354K17Rik	0.34	Ap1g2	0.04	Meis2	-0.60
Gem	2.42	Lzts2	0.34	Tmcc1	0.04	Chchd6	-0.60
Slc22a1	2.41	Parg	0.34	Ribc1	0.04	Aqp11	-0.60
Tm4sf4	2.41	Mepce	0.34	Ifrd1	0.04	Ifnar1	-0.60
Flrt1	2.40	Wdr82	0.34	Git2	0.04	Heph	-0.60
4833427F10Rik	2.39	Atp6v0e	0.34	Dnajc5	0.04	Tshz2	-0.60
Lef1	2.38	Spats2	0.34	Slc9a1	0.04	Msra	-0.60
Htra1	2.37	Ube2a	0.34	Snrnp200	0.04	Rccd1	-0.60
Loxl4	2.37	Faf2	0.34	Abhd13	0.04	Fanca	-0.60
Unc13c	2.35	Ppm1g	0.34	Shmt2	0.04	Slc25a12	-0.60
Sfrp5	2.35	Gm16286	0.34	Csnk1a1	0.04	Trim34a	-0.60
Cd96	2.34	Alkbh4	0.34	Mid2	0.04	Rnaset2a	-0.60
Sox11	2.34	Brd2	0.34	Sdhd	0.04	Tbce	-0.60
2610027K06Rik	2.34	Wdsub1	0.34	Ift88	0.04	Ctnnbip1	-0.60
Ascl4	2.33	Zfp408	0.34	Plekhh3	0.04	Nes	-0.60
Krt36	2.31	Klhl22	0.34	Mdc1	0.04	Rad51	-0.60
Gm17004	2.31	Ing5	0.34	Ubr4	0.04	Racgap1	-0.60
Krt5	2.30	Plin3	0.34	Gm11175	0.04	Ttc7	-0.60
2210407C18Rik	2.29	Nup62	0.34	Zfp13	0.04	Atp2b1	-0.60
5730457N03Rik	2.29	Wdr46	0.34	Zfp959	0.04	Abcg1	-0.60
Dnase1l2	2.28	Ccdc58	0.34	1500010J02Rik	0.04	Rfc5	-0.60
Col4a6	2.27	Sap18	0.34	Trpm4	0.04	Hoxd9	-0.60
Lingo1	2.26	Rpl7	0.34	Uba3	0.04	Lipa	-0.60
Gm11365	2.25	Strada	0.34	Krt23	0.04	Ccpg1	-0.61
Clca5	2.25	Ube2e1	0.34	Cd9	0.04	Alas2	-0.61
Slc7a8	2.25	Gm10120	0.34	Gm6543	0.04	Aurka	-0.61
Camsap3	2.24	Zswim5	0.34	Zfp870	0.04	Gnpda1	-0.61
Gsdmc2	2.23	Akap8l	0.34	Nudt19	0.04	Nfkbid	-0.61
4930412O13Rik	2.23	Ranbp10	0.34	Vps26a	0.04	Cplx2	-0.61
Krtdap	2.23	Eif3l	0.34	Pdgfc	0.04	Wnk4	-0.61
Tnni1	2.23	Rwdd4a	0.34	Zmynd11	0.04	Ube2c	-0.61
Rapgef4	2.22	Mrpl24	0.34	Slc22a17	0.04	Zc3h12a	-0.61

Gm17025	2.22	Utp23	0.34	Hnrnpa1	0.04	Lag3	-0.61
Tmc7	2.22	Cisd1	0.34	Tnks	0.04	Pbx3	-0.61
Rptn	2.21	Asl	0.34	Herc1	0.04	Gdpd5	-0.61
Abca5	2.21	Stxbp2	0.34	Syng1	0.04	Syngap1	-0.61
D0H4S114	2.21	Gm4950	0.34	Htt	0.04	Prc1	-0.61
Ccl17	2.21	Trmt1	0.34	Zfp27	0.04	Chpf2	-0.61
5033428I22Rik	2.20	Ccdc64b	0.34	Ate1	0.04	Ikbip	-0.61
Ido1	2.20	Cdc40	0.34	Pum2	0.04	Idh2	-0.61
Itgax	2.20	Psmc4	0.34	Necap1	0.04	Micall2	-0.61
Dsg1c	2.17	Zfp955a	0.34	Rnf216	0.04	Samhd1	-0.61
Gm13790	2.17	Atp6v1e1	0.34	BC002230	0.04	Rab711	-0.61
Foxf2	2.17	Tmem63b	0.34	Slc30a9	0.04	H2-DMb2	-0.61
Prr15	2.17	Frmd4b	0.34	Morn2	0.04	Insig1	-0.61
Stxbp6	2.14	Klhdc4	0.34	Ghdc	0.04	Wdr7	-0.61
Sectm1a	2.14	Rell1	0.34	Ppm1k	0.04	Dpp6	-0.61
Them5	2.14	Pemt	0.34	Gna14	0.04	Clspn	-0.61
Tox	2.14	Nbn	0.34	Fam57a	0.04	Mcm5	-0.61
Tmem136	2.13	Ube2i	0.34	Btbd9	0.04	Bmpr2	-0.61
Apoc4	2.13	Armc8	0.34	Ccnl1	0.04	Gm166	-0.61
Nrg2	2.12	Slc6a2	0.34	Rad23a	0.04	Slc35e4	-0.61
Gm10691	2.12	Zfp938	0.34	5430403G16Rik	0.04	Tspo	-0.61
H28	2.12	Grhl3	0.34	Rnf11	0.04	Dnase1l1	-0.61
Bmp8a	2.12	Csnk2b	0.34	Vps39	0.04	Egfr	-0.62
Gabrd	2.12	Adra2a	0.34	D030016E14Rik	0.04	Bnip2	-0.62
Fam83a	2.11	Gm16380	0.34	Tfdp1	0.04	Tifab	-0.62
AI646023	2.11	Ltn1	0.34	BC027231	0.04	Pla2g16	-0.62
2610203C20Rik	2.11	Mcts1	0.34	A930001N09Rik	0.04	Tha1	-0.62
Rai2	2.10	Rps18	0.34	Fastk	0.04	Akap13	-0.62
Gatm	2.10	Tmem65	0.34	Purb	0.04	Elf4	-0.62
Zfp697	2.10	Hspa13	0.34	4930506M07Rik	0.04	Limd2	-0.62
Gm14209	2.09	Eif3d	0.34	Mthfd1l	0.04	Dcbl2	-0.62
Gm3940	2.09	Ddost	0.34	Ip6k1	0.04	Dcxr	-0.62
Krt6a	2.08	Slc25a33	0.34	Nr3c1	0.04	Hspb6	-0.62
Edaradd	2.08	Thap7	0.34	Scmh1	0.04	Myh10	-0.62
Bambi	2.08	Phax	0.34	Tapt1	0.04	Irs2	-0.62
Aim2	2.08	Zfp235	0.34	Csl	0.04	Gen1	-0.62
Padi3	2.07	Mypop	0.34	1700007L15Rik	0.03	Apobr	-0.62
Fam89a	2.07	Mrpl54	0.34	Cyb561d1	0.03	4921531C22Rik	-0.62
Phyhip	2.06	Rnf41	0.34	Reps1	0.03	Epm2a	-0.62
Ramp3	2.06	Prep	0.34	Kcnma1	0.03	Chd9	-0.62
Lipc	2.06	Arid1a	0.34	Lig1	0.03	Samd4	-0.62
Osbpl6	2.06	Wdr89	0.34	Fech	0.03	Sp100	-0.62
Pex5l	2.05	Adal	0.34	C80913	0.03	Gramd1b	-0.62

Ceacam2	2.05	Vars2	0.34	Ulk1	0.03	Aig1	-0.62
Eya1	2.05	Cwc15	0.34	Psmf1	0.03	Brca1	-0.62
Tagln3	2.04	Pdhx	0.34	Ubl3	0.03	Mthfd2	-0.62
Nlrp1b	2.04	Dynlt3	0.34	Scand1	0.03	Pgd	-0.63
Tmem180	2.04	Ids	0.34	Ocl	0.03	Oat	-0.63
Lipo1	2.03	Asph	0.34	Ppih	0.03	Lbr	-0.63
Hes1	2.02	Amigo3	0.34	Ddrgk1	0.03	Atg4a	-0.63
Prkca	2.02	Glb1	0.34	Snapc1	0.03	Rassf8	-0.63
Ppp1r36	2.02	Celf4	0.34	Ifi35	0.03	Tbk1	-0.63
Sdk2	2.02	Snip1	0.34	2610524H06Rik	0.03	Mrv1	-0.63
D730039F16Rik	2.02	Zfat	0.34	Zfp72	0.03	Zswim6	-0.63
Gm16063	2.02	Rbm17	0.34	Pias1	0.03	Gfod1	-0.63
Ezr	2.01	Gpr110	0.34	Kdm4a	0.03	Igf1r	-0.63
Gm16064	2.01	Mrpl40	0.34	Edem2	0.03	Acp2	-0.63
Mycl1	2.00	Hmg20a	0.34	3110001I22Rik	0.03	Rgs5	-0.63
Tcrg-C	2.00	Arpc1a	0.33	Zxdc	0.03	Nfkb1	-0.63
Edar	2.00	Nudcd2	0.33	Ino80	0.03	BC025446	-0.63
Rab3b	2.00	Dennd2c	0.33	Tssc1	0.03	Mdm1	-0.63
Fabp6	1.98	Atg10	0.33	Trappc8	0.03	Sdc1	-0.63
BC057022	1.97	Rbm6	0.33	Tex264	0.03	Mastl	-0.63
Dio2	1.97	Puf60	0.33	Pde12	0.03	2510009E07Rik	-0.64
Npas3	1.97	Ube2d2	0.33	Tmtc2	0.03	Ptger4	-0.64
Tlr12	1.96	Tle3	0.33	Rab21	0.03	Dirc2	-0.64
Gpa33	1.94	2310003L22Rik	0.33	Anapc1	0.03	Afap1l1	-0.64
Qpct	1.94	Phf3	0.33	Zfp644	0.03	Tnip1	-0.64
5830444B04Rik	1.93	Ndor1	0.33	Atg14	0.03	Ralb	-0.64
Timpt4	1.93	Ccdc75	0.33	2010107G23Rik	0.03	Man2b1	-0.64
Ptprz1	1.93	Inpp5e	0.33	Habp4	0.03	Tnfaip8l3	-0.64
Dlk2	1.92	Hnrnpa0	0.33	Gm4799	0.03	Xylb	-0.64
Mir196a-1	1.92	Npy	0.33	Slc6a8	0.03	Fah	-0.64
RP24-201C14.11	1.91	Dnajc2	0.33	Pacs1	0.03	Phlda1	-0.64
Rps6ka2	1.91	Hgs	0.33	Ociad2	0.03	Slc25a45	-0.64
Efna3	1.90	Hnrnpl	0.33	Becn1	0.03	Neur13	-0.64
Crtac1	1.90	Snrpg	0.33	Trim45	0.03	Abhd4	-0.64
Bex2	1.89	Stxbp5	0.33	Zfp46	0.03	Dhx58	-0.64
Klrb1b	1.88	Mrpl55	0.33	Tmem87b	0.03	Prr11	-0.64
Olfm2	1.88	Gm5263	0.33	Mthfd2l	0.03	Marcksl1	-0.64
Abp1	1.88	Fam126a	0.33	Dmxl1	0.03	Mreg	-0.64
Tst	1.86	Fbxl18	0.33	Pold4	0.03	Glipr1	-0.64
Mboat2	1.86	Ppat	0.33	Zfp462	0.03	Adrb2	-0.64
Lancl3	1.85	Trip6	0.33	Ncoa1	0.03	BC030867	-0.64
Gm16137	1.85	Rock1	0.33	Pex7	0.03	Slc19a3	-0.64
Prdx6	1.85	Tomm20	0.33	Bsdcl	0.03	Mnd1	-0.64

Shisa2	1.85	Ddx6	0.33	Fam49a	0.03	E330016A19Rik	-0.64
Hist2h4	1.85	Grpel1	0.33	Ranbp6	0.03	Gm106	-0.64
Cd200r2	1.84	2310003H01Rik	0.33	Ndufs2	0.03	Ccnf	-0.64
Sfn	1.84	Ttyh3	0.33	5430407P10Rik	0.03	Kif20b	-0.64
Pnliprp2	1.84	Pcyt2	0.33	Ikzf3	0.03	Slc7a11	-0.64
Cyp4f39	1.83	Elov14	0.33	Wdfy3	0.03	Galnt4	-0.64
Lap3	1.83	Hip1r	0.33	Vps4b	0.03	4833418N02Rik	-0.64
Bcl11b	1.83	Cstf2	0.33	Arl6ip6	0.03	Ier5l	-0.64
Pgm2l1	1.82	Scnm1	0.33	Dctd	0.03	Zfp281	-0.64
Krt10	1.82	Ankle2	0.33	Ndufs1	0.03	Hpcal1	-0.65
Sh3rf2	1.82	Ptplb	0.33	Zfp647	0.03	Tmem131	-0.65
Tiam2	1.82	Agpat5	0.33	Fam175b	0.03	Gadd45a	-0.65
Ikzf4	1.82	Ptpn14	0.33	Klhl17	0.03	Ostm1	-0.65
Proc	1.82	Mkln1	0.33	Elov15	0.03	Lamc2	-0.65
Ccdc116	1.81	Lnx2	0.33	Lig3	0.03	Mcl1	-0.65
Padi2	1.80	1110065P20Rik	0.33	Cul4b	0.03	Ift57	-0.65
C030034L19Rik	1.80	Polr1a	0.33	Tmem160	0.03	Crlf3	-0.65
Rab27b	1.79	ORF19	0.33	Zfp513	0.03	Tsc22d4	-0.65
Adamts17	1.79	Fam116a	0.33	Pde5a	0.03	G530011O06Rik	-0.65
Zfp667	1.79	Naa50	0.33	Ssbp1	0.03	Hps4	-0.65
Bean1	1.79	Mrpl28	0.33	Ndufv3	0.03	Scn1b	-0.65
Tinag	1.79	Nupl2	0.33	Ctsf	0.03	Chaf1b	-0.65
Slc27a6	1.79	Cdk9	0.33	Bcs1l	0.03	Haghl	-0.65
Nebi	1.79	4921513D23Rik	0.33	Prune	0.03	Scarb2	-0.65
Hsph1	1.79	Lmf1	0.33	Kif1b	0.03	Apbb1	-0.65
Slc1a4	1.78	Zc3h11a	0.33	Pter	0.03	Zfp334	-0.65
Lypd6b	1.78	Fam96b	0.33	Hcfc1	0.03	Ect2	-0.65
Klrg2	1.78	Usp28	0.33	Rcan2	0.03	Kif15	-0.65
Syvn1	1.78	E4f1	0.33	Net1	0.03	Bbs9	-0.65
Whrn	1.78	Them4	0.33	Dpp3	0.03	Zfp532	-0.65
Serpinb8	1.78	U2af2	0.33	Hspb11	0.03	Slc39a13	-0.65
Man1a	1.77	Zfp207	0.33	Fktn	0.03	Pknox2	-0.65
n-R5s197	1.77	Zfp593	0.33	2400001E08Rik	0.03	Grasp	-0.65
Trim29	1.77	Mob3c	0.33	Fam135a	0.03	Tpm4	-0.65
Ypel1	1.76	Zfp846	0.33	Sqle	0.03	Ctbs	-0.65
Fam83c	1.76	BC088983	0.33	Ggnbp2	0.03	Mt1	-0.65
Gclm	1.76	Ttll12	0.33	Ahcyl1	0.03	Jazf1	-0.65
Angptl6	1.76	Ccdc47	0.33	BC046331	0.03	A2ld1	-0.66
Gm5577	1.75	Osbp10	0.33	Fbxo45	0.03	Gm5434	-0.66
Slc14a1	1.75	2900010M23Rik	0.33	Lemd2	0.03	Tcn2	-0.66
Sox21	1.74	Clpp	0.33	Zfp791	0.03	Neurl1b	-0.66
Sdf2l1	1.74	Tram1	0.33	Dync1h1	0.03	A3galt2	-0.66
Kazald1	1.74	Ptpn21	0.33	Zfp157	0.03	Pdxk	-0.66

Agr2	1.74	Utp14a	0.33	2-Sep	0.03	Slc30a1	-0.66
Phlda2	1.73	Ssr4	0.33	Mrrf	0.03	AI504432	-0.66
Bmp4	1.73	Homer1	0.33	Shc1	0.03	Bbs12	-0.66
Gm11538	1.73	Mark3	0.33	Kpna3	0.03	Ptp4a3	-0.66
Kcnj10	1.73	Eif5	0.33	Snapc2	0.03	Dclre1c	-0.66
Opn3	1.72	Jagn1	0.33	1110008L16Rik	0.03	Amigo2	-0.66
Upk1b	1.72	Leng8	0.33	Cat	0.03	Fam131a	-0.66
Chad	1.72	Trappc5	0.33	Gm6180	0.03	Rgs3	-0.66
Trp63	1.72	Srfbp1	0.33	Extl2	0.03	Ildr2	-0.66
En1	1.72	Mrps25	0.33	Naa20	0.03	Cdk1	-0.66
Gm12474	1.72	Cnih4	0.33	Lrp5	0.03	Oasl2	-0.66
Tnnt2	1.71	Nt5dc3	0.33	Dis3l2	0.03	Lrpap1	-0.66
Asb2	1.70	Rpl11	0.33	Zkscan17	0.03	Fhl5	-0.66
Gpnmb	1.70	Gbf1	0.33	Rnaseh2a	0.03	4632434I11Rik	-0.66
Hes6	1.69	1700034H14Rik	0.33	Phf20l1	0.03	C1rl	-0.66
Thsd4	1.69	Tmem135	0.33	Nup50	0.03	Btg2	-0.66
Gata3	1.67	Zfp54	0.33	Traf7	0.03	Rcan1	-0.67
Spock2	1.67	Tmem199	0.33	Zxdb	0.03	Ralgds	-0.67
D930019O06Rik	1.67	Kremen1	0.33	Usp7	0.03	Slc31a2	-0.67
Itpk1	1.67	Ambra1	0.33	Rpap2	0.03	Gbp3	-0.67
Eddm3b	1.67	Heatr3	0.33	Psmc13	0.03	Fam20a	-0.67
Wnt10a	1.67	Mgea5	0.33	Tsc2	0.02	BC006779	-0.67
Scgb1a1	1.66	Gtf2b	0.32	Axin1	0.02	Oscp1	-0.67
Trit1	1.66	Cdk11b	0.32	Pcgf3	0.02	Plk1	-0.67
Hoxa11as	1.66	2310036O22Rik	0.32	Prkar2a	0.02	Ctla2a	-0.67
Dsc3	1.66	Mtmt14	0.32	Map3k11	0.02	Atxn7l1	-0.67
Smpx	1.66	Fam175a	0.32	Rdh11	0.02	Cgref1	-0.67
Col7a1	1.66	Usp5	0.32	Rbfa	0.02	Snrnp25	-0.67
Prrt1	1.65	Prkaca	0.32	1600012H06Rik	0.02	Tbc1d14	-0.67
Prdx6b	1.64	Ncaph2	0.32	Dync1li2	0.02	Nnt	-0.67
Sp8	1.64	Rabif	0.32	Pitrm1	0.02	Sepp1	-0.67
Usp16	1.64	Etf1	0.32	Pex11b	0.02	Hdac4	-0.67
Lrrc15	1.64	Lgr4	0.32	Taf11	0.02	Cela1	-0.67
A330023F24Rik	1.64	Ankrd52	0.32	D230037D09Rik	0.02	Igsf3	-0.67
Vipr1	1.63	Elac2	0.32	Stim1	0.02	Ttc19	-0.67
Zfp641	1.63	Agphd1	0.32	Snx9	0.02	Zfp273	-0.67
Ptger3	1.63	Gm10250	0.32	Cpsf2	0.02	Foxo3	-0.67
Frem2	1.63	Ankrd23	0.32	Hook2	0.02	Trem2	-0.67
Olfr558	1.63	Foxj2	0.32	1810029B16Rik	0.02	Htatip2	-0.68
Ldlrad3	1.63	Fam71e1	0.32	Slc29a1	0.02	Gm14167	-0.68
Bnpl	1.63	Gm16062	0.32	Apoa1bp	0.02	Trgv2	-0.68
Slc30a2	1.63	Cbx4	0.32	Zfp472	0.02	Ifit2	-0.68
Zpbp2	1.63	Clk4	0.32	Ap3s2	0.02	Ano6	-0.68

Wnt7a	1.62	Zfp740	0.32	Uhrf1bp1	0.02	Qk	-0.68
Syt9	1.62	Ift46	0.32	Ralgps1	0.02	Zmynd15	-0.68
Bend4	1.61	Golga4	0.32	Eaf1	0.02	Fbp2	-0.68
Wif1	1.61	Asnsd1	0.32	Gabarap	0.02	Etv6	-0.68
Fpgs	1.60	Whsc2	0.32	Skiv2l	0.02	Rab4a	-0.68
Dsg4	1.60	BC051226	0.32	1110051M20Rik	0.02	Ahi1	-0.68
Tmprss11d	1.60	Zfp71-rs1	0.32	Atf6b	0.02	Apbb2	-0.68
C030013C21Rik	1.59	Eif2a	0.32	Entpd6	0.02	Usp49	-0.68
Cdh17	1.59	Tsg101	0.32	2700007P21Rik	0.02	Fbxo5	-0.68
Hspb1	1.59	Baz1b	0.32	Fcho2	0.02	Tbc1d9b	-0.68
A730090H04Rik	1.58	Invs	0.32	Nrbp1	0.02	Tspan4	-0.68
Grhl1	1.58	Atrn	0.32	Mapre1	0.02	Slc35f5	-0.68
Tmem108	1.58	Plekha8	0.32	Wdr48	0.02	Pik3r1	-0.68
Igln5	1.58	Trmu	0.32	Zfp326	0.02	Nkd2	-0.68
Mapk4	1.58	Vbp1	0.32	Ofd1	0.02	Jak2	-0.68
Npr1	1.58	Uck1	0.32	Pgap3	0.02	Hist1h2bc	-0.68
Csf2	1.57	Usp19	0.32	Slc39a7	0.02	Rhog	-0.68
Wnt4	1.56	Sgsm3	0.32	Psph	0.02	Bace1	-0.68
Gm7120	1.56	Atf2	0.32	Acy3	0.02	Rnf122	-0.68
Gja1	1.56	Gale	0.32	Brp44l	0.02	Doc2b	-0.69
Aif1l	1.56	2810408A11Rik	0.32	Bap1	0.02	Gins3	-0.69
Gm20544	1.55	Sco1	0.32	Gm6635	0.02	Lxn	-0.69
Prickle2	1.55	Actr8	0.32	Gm17269	0.02	Sh3bp1	-0.69
Cecr2	1.55	Alg3	0.32	Atf4	0.02	Idua	-0.69
Tbx1	1.55	Paf1	0.32	Hs2st1	0.02	Lphn2	-0.69
Tob1	1.55	Oxa1l	0.32	Man1a2	0.02	Gdap2	-0.69
Acnat1	1.55	Nudt3	0.32	Hspa14	0.02	Xbp1	-0.69
Airn	1.55	Rab6a	0.32	2610002M06Rik	0.02	Neil2	-0.69
Ace	1.55	Rhot1	0.32	Psma6	0.02	Asah1	-0.69
Hdc	1.54	Wbscr22	0.32	Dnm2	0.02	Parva	-0.69
Tpd52l1	1.54	Mlx	0.32	Etv3	0.02	Glb1l	-0.69
Gm15344	1.54	Trove2	0.32	Mfap3	0.02	Cmtm3	-0.69
Sema3c	1.54	2310015A10Rik	0.32	Lypla2	0.02	Slc39a8	-0.69
Fam38b	1.54	Urgcp	0.32	Fdxacb1	0.02	Mst1r	-0.69
Disp2	1.54	Prpf6	0.32	Gba2	0.02	Creg1	-0.69
Bmp2	1.53	Ndufb2	0.32	Rsph9	0.02	Zdhhc17	-0.69
1110012J17Rik	1.53	Bcap31	0.32	Cdc23	0.02	Rnf169	-0.69
Gm10104	1.53	Rbm19	0.32	Zfp81	0.02	Mtr	-0.69
Wee1	1.52	Mta3	0.32	Maged1	0.02	1700024P16Rik	-0.69
Col23a1	1.52	Cradd	0.32	Ano8	0.02	Rbpj	-0.69
Ablim1	1.51	Polb	0.32	Mcf2d	0.02	Zfp442	-0.69
Dbp	1.51	Maz	0.32	Lsm2	0.02	Shf	-0.69
Sprr2a3	1.51	E2f4	0.32	Ift52	0.02	Fyn	-0.69

Hspa5	1.51	C78339	0.32	Tmem18	0.02	Nrn1	-0.69
Robo1	1.51	Phkb	0.32	Ppp6r3	0.02	Prdx4	-0.69
Mid1ip1	1.51	Nup133	0.32	Trnau1ap	0.02	Ano9	-0.69
Hamp	1.50	Fundc1	0.32	Polr2a	0.02	Atp1b3	-0.70
Sncaip	1.50	Ciao1	0.32	Fbxo4	0.02	Glrx	-0.70
Chn1	1.50	2400003C14Rik	0.32	Rfxank	0.02	Creb3l4	-0.70
9930038K12Rik	1.50	Adsl	0.32	Mrpl48	0.02	Scube2	-0.70
Clic5	1.49	2610020H08Rik	0.32	Mif4gd	0.02	Pcdhb17	-0.70
Manf	1.49	Ssbp3	0.32	Tmub2	0.02	Fzd8	-0.70
Akr1c12	1.49	Mpv17	0.32	B3galt4	0.02	Syce2	-0.70
Dnaja4	1.49	Ncor1	0.32	Hlcs	0.02	Galnt7	-0.70
Herpud1	1.49	Ints2	0.32	Ept1	0.02	Elk3	-0.70
Gli1	1.48	1200016B10Rik	0.32	Camk2n1	0.02	Klhl36	-0.70
Cxcx5	1.48	Arpp19	0.32	Wdr25	0.02	Dhx34	-0.70
Slc16a10	1.48	Gm17251	0.32	Mettl6	0.02	1600029D21Rik	-0.70
Ccr7	1.47	Mfsd6	0.32	Lph	0.02	Rad54l	-0.70
Gm13003	1.47	Snx12	0.32	Ifit3	0.02	Dhcr24	-0.70
Rasd2	1.47	Rnpepl1	0.32	Gpsm2	0.02	Ostf1	-0.70
9130409J20Rik	1.47	Rrp7a	0.32	Nup153	0.02	Nr4a3	-0.70
Igsf9b	1.47	Tm2d2	0.32	Ergic2	0.02	AI480653	-0.70
Nlrp10	1.47	Optn	0.32	Uros	0.02	9230114K14Rik	-0.70
Raet1c	1.47	Ccdc32	0.32	BC068281	0.02	Fam149a	-0.70
Larp1b	1.47	Patz1	0.32	C230096C10Rik	0.02	Rhoq	-0.70
4921530L18Rik	1.47	Fam117b	0.32	Ttc13	0.02	Tgfbr3	-0.71
Pank1	1.46	Spg7	0.32	Gstm1	0.02	Bcl3	-0.71
2310014L17Rik	1.46	Epb4.1l4a	0.32	Gm10524	0.02	Stx1a	-0.71
Esyt3	1.46	Pcgf6	0.32	Sepsecs	0.02	Cndp2	-0.71
Gt(ROSA)26Sor	1.45	Rer1	0.32	Homer2	0.02	Zfp456	-0.71
Serpine2	1.45	Nxf1	0.32	9130019O22Rik	0.02	Dip2a	-0.71
Satb1	1.44	Stt3a	0.32	Coq7	0.02	Ano10	-0.71
Smad7	1.44	Sec61a2	0.32	Tyk2	0.02	Zfp125	-0.71
Irs1	1.44	Lipt1	0.32	Auts2	0.02	Gimap8	-0.71
Fam124a	1.44	Nhp2l1	0.32	Slc24a6	0.02	Cyp26b1	-0.71
2010015L04Rik	1.43	Ash2l	0.32	Cep152	0.02	Vps13c	-0.71
Flt3l	1.43	2200002K05Rik	0.32	Vps37b	0.01	N4bp2l1	-0.71
Gamt	1.43	Ywhag	0.32	Taf9	0.01	Itgb5	-0.71
Kit	1.43	Katna1	0.32	Erc8	0.01	Sema3f	-0.71
Sfxn2	1.43	Flcn	0.32	Hccs	0.01	Dpy19l3	-0.71
Pde8b	1.42	Zfp652	0.32	Cast	0.01	2810025M15Rik	-0.71
Csrp2	1.42	Gstp1	0.32	Sh3rf1	0.01	Fbxo10	-0.71
Arl4d	1.41	Zcchc4	0.32	Dph3	0.01	1600014C10Rik	-0.72
Dsc1	1.41	Pip4k2c	0.32	Cyb5d1	0.01	Sh3glb1	-0.72
Gnb5	1.41	Pgam1	0.32	Mre11a	0.01	Jak1	-0.72

Gata2	1.41	Wdr77	0.32	Rras2	0.01	Gaa	-0.72
Atoh8	1.41	Hnrnpk	0.32	Zfp260	0.01	Ppp1r2	-0.72
Krt17	1.41	Tle4	0.32	Mrfap1	0.01	Ccrl2	-0.72
Rwdd2b	1.40	Ptprf	0.32	Mtmr2	0.01	Nacc2	-0.72
1810064F22Rik	1.40	Nsd1	0.32	Tatdn3	0.01	Uaca	-0.72
B4galt4	1.40	Cisd2	0.32	Nek3	0.01	9830001H06Rik	-0.72
Tle2	1.40	Mex3a	0.32	1700088E04Rik	0.01	Abhd5	-0.72
Atp10a	1.40	Sdccag3	0.32	Ep300	0.01	Ccbp2	-0.72
Dnajb9	1.40	Capn10	0.32	Efna1	0.01	Plekhf1	-0.72
Gm12843	1.40	Egln1	0.32	Tmem201	0.01	Fgfbp3	-0.72
3110021A11Rik	1.40	Copb2	0.32	St3gal3	0.01	Rbp7	-0.72
Fbxo16	1.40	Ddt	0.32	Cenpo	0.01	Ccnb1	-0.72
BC023105	1.39	Il2rb	0.32	Swap70	0.01	Gli2	-0.72
Bco2	1.39	C030048B08Rik	0.32	Zfp109	0.01	8430427H17Rik	-0.72
Fras1	1.39	Mark2	0.32	Mmp20	0.01	Kif22	-0.72
Rpl36-ps3	1.39	Atp13a1	0.32	Psme4	0.01	Map4k4	-0.72
Amy1	1.39	Pa2g4	0.32	Actr1b	0.01	Pnp	-0.72
2010011I20Rik	1.38	Fam98c	0.32	Hps6	0.01	Chst7	-0.72
Ppp3ca	1.38	Acpl2	0.32	Lsm1	0.01	Tmem120a	-0.72
Daam2	1.38	Zfp787	0.32	Mphosph9	0.01	Bdh1	-0.73
Ptch2	1.38	Mrpl43	0.32	Lztlf1	0.01	9930014A18Rik	-0.73
Creld2	1.38	Tmbim6	0.32	Tpp2	0.01	Tmem173	-0.73
Gm53	1.38	Rnf44	0.32	Gimap3	0.01	Pdzd4	-0.73
Gramd3	1.38	Rfwd2	0.31	A430084P05Rik	0.01	Gng2	-0.73
Gm3699	1.38	1500011H22Rik	0.31	Bcr	0.01	Mybl2	-0.73
Hist4h4	1.38	Sart3	0.31	Pcsk7	0.01	Zfp28	-0.73
Gm12536	1.38	Pma3	0.31	Gfer	0.01	Usp40	-0.73
Sox15	1.37	Fdx1l	0.31	Lrig2	0.01	Gsr	-0.73
Mccc2	1.37	Pthr2	0.31	Pikfyve	0.01	Fam125b	-0.73
Gars	1.37	Polr2f	0.31	Irf2	0.01	Plxnb2	-0.73
Pdia4	1.37	Zcchc14	0.31	Lman1	0.01	Rarres1	-0.73
Smad6	1.37	Tsta3	0.31	Rfx2	0.01	Vmp1	-0.73
Evpl	1.36	Pla2g6	0.31	Ppp1r7	0.01	Nod2	-0.73
Slc16a7	1.36	Dbr1	0.31	C2cd2	0.01	Ankrd29	-0.73
Mfsd2a	1.36	Brd7	0.31	D930015E06Rik	0.01	Tmem176b	-0.73
Lmo7	1.36	Fiz1	0.31	Sertad2	0.01	Usp11	-0.73
Trdv4	1.36	Zfp259	0.31	Dlg3	0.01	3110043O21Rik	-0.73
Khdrbs3	1.36	Ctf1	0.31	Ctnnb1	0.01	Rcan3	-0.73
Gm16119	1.35	8430410K20Rik	0.31	Cog7	0.01	Liph	-0.73
Ints3	1.35	Glt1d1	0.31	Pot1a	0.01	Akap11	-0.73
Hyou1	1.35	Ndufb9	0.31	Pomt2	0.01	Efemp1	-0.73
Gm12207	1.35	Atp5c1	0.31	C330006A16Rik	0.01	Scx	-0.73
Ttc6	1.35	Ube2o	0.31	Rtn3	0.01	Mkl	-0.73

Etnk2	1.35	Epn1	0.31	Exosc9	0.01	Arrdc3	-0.74
Apoo	1.35	Snrpb	0.31	Kif16b	0.01	Lca5	-0.74
BC030870	1.35	Hap1	0.31	Plscr3	0.01	Nadk	-0.74
Stc2	1.35	Fbxo8	0.31	Zbtb44	0.01	Sh3bp5	-0.74
1810041L15Rik	1.35	Pnpt1	0.31	Dcun1d1	0.01	Gm6788	-0.74
Gpt2	1.34	Srpk1	0.31	2610027L16Rik	0.01	Incenp	-0.74
Gpr87	1.34	Rbbp6	0.31	Dolk	0.01	Tnfrsf10b	-0.74
Rbbp7	1.34	Hectd1	0.31	Chmp2a	0.01	Ccna2	-0.74
Ctnnal1	1.34	Llgl2	0.31	Serinc3	0.01	Pgm2	-0.74
Fhit	1.34	Erc1	0.31	Rnf31	0.01	Zfp366	-0.74
Wscd1	1.33	Ston2	0.31	Nfib	0.01	Slamf9	-0.74
Pip5k1b	1.33	Fxr2	0.31	Secisbp2l	0.01	Mgat1	-0.74
Gm15832	1.33	Zranb2	0.31	Ccdc84	0.01	Sytl2	-0.74
Prex2	1.33	Kctd11	0.31	Rbm22	0.01	Grina	-0.74
Gm11730	1.33	Pik3cb	0.31	Cd63	0.01	Tank	-0.74
Dkk2	1.33	Qdpr	0.31	Tmed10	0.01	Klf3	-0.75
Foxa1	1.33	Ezh2	0.31	Rbm7	0.01	Tmem53	-0.75
Sema6c	1.33	2410002O22Rik	0.31	Trip11	0.01	Alyref2	-0.75
Chrm3	1.33	Wipi2	0.31	Klhl15	0.01	Rgnef	-0.75
Rpl36a	1.32	Cox18	0.31	Trp53inp2	0.01	Rom1	-0.75
Shh	1.32	Ica1	0.31	1500032L24Rik	0.01	St6galnac2	-0.75
Tmem159	1.32	Gm12735	0.31	D630037F22Rik	0.01	Hfe	-0.75
Myzap	1.32	Sox9	0.31	Rims2	0.01	Dysf	-0.75
Gad2	1.32	Zcchc17	0.31	Dync1i2	0.01	Ppp1r14a	-0.75
Kirrel3	1.32	Ddx27	0.31	Cpsf1	0.01	Praf2	-0.75
Slc22a23	1.32	Ipo7	0.31	Seh1l	0.01	Chrnbl	-0.75
Lrrc51	1.32	Arf1	0.31	Eif2d	0.01	Rdh10	-0.75
Gm17530	1.32	Sgta	0.31	Braf	0.01	Phf15	-0.75
Pgap2	1.32	Cetn3	0.31	Nsun6	0.01	mt-Rnr2	-0.75
Gss	1.32	Atf7	0.31	Il22ra1	0.01	Ccnd3	-0.75
Unc5b	1.31	Fam174b	0.31	Phf7	0.01	Bhlhe40	-0.75
Nxph3	1.31	Cc2d1b	0.31	Art4	0.01	Cenpw	-0.75
Grtp1	1.31	Mettl21d	0.31	Eif4e2	0.01	Il7r	-0.75
Ccdc149	1.31	Naa38	0.31	Mall	0.01	Guca1a	-0.75
Evx1	1.31	Rpl36al	0.31	Srpr	0.01	E130306D19Rik	-0.75
Cxcr6	1.31	Fkrp	0.31	Gm16314	0.01	Enc1	-0.75
Rrm2	1.31	Atp5k	0.31	Rnf146	0.01	Zscan2	-0.76
Hdhd3	1.31	D15Ertd621e	0.31	Snx14	0.01	Skap2	-0.76
Cd3g	1.31	Fam109a	0.31	Rrp1b	0.01	Zfp90	-0.76
Amt	1.30	Flrt3	0.31	Rnf123	0.01	Hic1	-0.76
Gjbb6	1.30	Krit1	0.31	5730508B09Rik	0.01	Wt1	-0.76
1500012F01Rik	1.30	Hmgn2	0.31	Chkb	0.01	Prkce	-0.76
Pde9a	1.30	Txn2	0.31	Stmn1	0.01	Aldh3a1	-0.76

Gm5093	1.29	Tusc2	0.31	Eid2	0.01	Obfc1	-0.76
Fam84a	1.29	Orc4	0.31	Fbxw4	0.01	Vwf	-0.76
4933437F05Rik	1.29	Gna15	0.31	Atxn7	0.01	Psrc1	-0.76
Pms1	1.29	Papss1	0.31	Camk1d	0.01	Dact1	-0.76
Nr4a2	1.29	Chchd4	0.31	S100a1	0.01	Tmod2	-0.76
Tmem35	1.29	Fam165b	0.31	BC003266	0.01	Med13l	-0.76
Bdnf	1.29	Agap3	0.31	Srp54c	0.01	Serpinb6a	-0.76
Ceacam1	1.29	Rbmx2	0.31	Pfkm	0.01	Arhgap26	-0.76
Tmem45a	1.29	Raver1	0.31	1810013L24Rik	0.00	Cdc7	-0.76
Anxa4	1.29	Jkamp	0.31	Efr3a	0.00	Sema4c	-0.76
Acsl3	1.28	Rnf34	0.31	Gm5884	0.00	Ttc28	-0.76
Igfbp2	1.28	BC005624	0.31	Usp1	0.00	Gns	-0.76
Mmaa	1.28	Gtpbp6	0.31	Btbd7	0.00	Gne	-0.76
Psapl1	1.28	Ptov1	0.31	Zmpste24	0.00	Dlgap5	-0.77
Dnajc10	1.28	2510039O18Rik	0.31	Prkab1	0.00	Clip4	-0.77
Hoxa13	1.28	Slc4a1ap	0.31	Hdac4	0.00	Ghr	-0.77
Ovol2	1.28	Gm6404	0.31	Zfp236	0.00	Fam132a	-0.77
Gm2000	1.27	Med11	0.31	Tnrc18	0.00	Nsl1	-0.77
Mlph	1.27	Agl	0.31	Traip	0.00	Cxcl16	-0.77
Atp1b1	1.27	Pdcd7	0.31	Elk4	0.00	Axl	-0.77
Rps28	1.27	Kdm6a	0.31	Gtf3c5	0.00	Gnptab	-0.77
Rpl10a	1.27	Aph1a	0.31	Ufd1l	0.00	Adprh	-0.77
Dsp	1.27	Hbs1l	0.31	Slc20a1	0.00	Pnpla7	-0.77
Pycr1	1.27	Ubxn7	0.31	Eed	0.00	Lrp2	-0.77
Mt3	1.27	Snx17	0.31	Sec13	0.00	4931406P16Rik	-0.77
Cbs	1.26	Coq10a	0.31	Trim44	0.00	Agtpbp1	-0.77
Stard10	1.26	Lrrc56	0.31	Sp1	0.00	Osbpl9	-0.77
Acot6	1.26	Fam116b	0.31	Fam32a	0.00	Tjp3	-0.77
Ibtk	1.26	9130221H12Rik	0.31	Lrrc8e	0.00	Depdc7	-0.77
9130020K20Rik	1.26	Sf3b2	0.31	Hmgcl	0.00	Acot7	-0.78
Mrps6	1.26	Kpna6	0.31	Dnajc30	0.00	Cd244	-0.78
1700021C14Rik	1.26	Rplp0	0.31	Sdha	0.00	Slc22a15	-0.78
Slc5a3	1.26	Lats1	0.31	Prosc	0.00	Adam17	-0.78
Msrb2	1.26	Zcchc3	0.31	Mgrn1	0.00	Mvp	-0.78
Gm15835	1.26	Zc3h10	0.31	Rbm26	0.00	Lfng	-0.78
Tcrg-V6	1.26	Khk	0.31	Golga5	0.00	Asap1	-0.78
Guk1	1.25	Setd1b	0.31	Dcp1b	0.00	1300014I06Rik	-0.78
Ecm1	1.25	Atp8b2	0.31	Mapk1ip1l	0.00	Cdc25c	-0.78
Ciita	1.25	Cbx3	0.31	Dand5	0.00	9530082P21Rik	-0.78
Ccdc62	1.25	Ccdc76	0.31	4930503B20Rik	0.00	Ercc6l	-0.78
Ralgps2	1.25	Dcaf12	0.31	Mtpn	0.00	4632427E13Rik	-0.78
Mitf	1.25	Zscan30	0.31	Mbd2	0.00	Ccl5	-0.78
Rab6b	1.25	Cuta	0.31	Rgl3	0.00	2010106G01Rik	-0.78

Inca1	1.25	Lmbr1l	0.31	Wdr13	0.00	Sorbs1	-0.78
Plxna3	1.25	Epc1	0.31	Abhd16a	0.00	Amot	-0.78
Jag2	1.25	Slc19a1	0.30	4930579G24Rik	0.00	Gm12258	-0.78
Lgals7	1.25	Ccdc90a	0.30	Odf2	0.00	Slc4a4	-0.78
Tmem22	1.25	Pex11c	0.30	Il28ra	0.00	Fgf11	-0.78
Pvrl3	1.24	G2e3	0.30	Stx6	0.00	Pls1	-0.78
Fzd10	1.24	Eif4g3	0.30	Rab15	0.00	Helb	-0.78
Dach1	1.24	Ercc1	0.30	D6Wsu163e	0.00	Vrk2	-0.79
Bcam	1.24	Vps53	0.30	Ubb	0.00	Slc16a4	-0.79
Nostrin	1.24	Smn1	0.30	Psme1	0.00	Nme4	-0.79
Mgst3	1.24	Farsb	0.30	Impa1	0.00	Prss27	-0.79
AY358078	1.24	Ucp2	0.30	Ppp1r15a	0.00	Cd180	-0.79
A4galt	1.24	Pwp2	0.30	Mtor	0.00	Ttc7b	-0.79
Aldh6a1	1.24	Surf2	0.30	Mapkap1	0.00	Spata6	-0.79
Spnb1	1.23	Memo1	0.30	Zfp420	0.00	Gm9766	-0.79
Unc5c	1.23	Arid4b	0.30	Ndr3	0.00	Iqgap3	-0.79
Odz4	1.22	Prdx3	0.30	Ensa	0.00	Hexb	-0.79
Ddit3	1.22	Wdr75	0.30	Dazap2	0.00	2610307P16Rik	-0.79
Paqr5	1.22	Aldh3a2	0.30	Glr3	0.00	Ifi44	-0.79
AA986860	1.21	Nae1	0.30	Rab43	0.00	Trp53i11	-0.79
Spire1	1.21	Ube2r2	0.30	Cmtm8	0.00	9430091E24Rik	-0.80
Fam115c	1.21	Pparg	0.30	Ogdhl	0.00	Pde4a	-0.80
Gm11973	1.21	Pds5b	0.30	Mtrf1	0.00	Timeless	-0.80
Rps6-ps1	1.21	Cdk7	0.30	Pgap1	0.00	Slc38a6	-0.80
Gm2301	1.21	Rnf39	0.30	Wdr67	0.00	1110028F11Rik	-0.80
Amigo1	1.20	Chchd1	0.30	Hirip3	0.00	0610007N19Rik	-0.80
Cd163l1	1.20	Nprl2	0.30	Nek4	0.00	Mknk1	-0.80
Gylt1b	1.20	Nisch	0.30	Mcm3ap	0.00	Ubxn11	-0.80
Slco5a1	1.20	Golph3l	0.30	4933411K20Rik	0.00	Ctsh	-0.80
Tcte2	1.20	Fermt2	0.30	Tnrc6b	0.00	Hmmr	-0.80
BC066135	1.19	Ola1	0.30	Arpc4	0.00	Mgat4a	-0.80
Il15	1.19	Dsg2	0.30	Armcx5	0.00	Adck3	-0.80
Tril	1.19	Zbtb12	0.30	Rsb1	0.00	Map3k14	-0.80
Lsm7	1.19	Zmat2	0.30	Mospd3	0.00	Slamf8	-0.80
Gm10563	1.19	Dpm1	0.30	Pla2g4b	0.00	Adamts3	-0.80
Trim71	1.19	Mrps35	0.30	Tbx2	0.00	Lepre1	-0.80
D930048G16Rik	1.19	Rab8a	0.30	Dnajc18	0.00	Celsr1	-0.80
9330162012Rik	1.19	Upf2	0.30	Def8	0.00	Txnip	-0.80
Irf6	1.19	Nfia	0.30	Msto1	0.00	Plekho1	-0.80
Ormdl3	1.19	Pgrmc2	0.30	Itpkc	0.00	Ptprm	-0.80
Il17re	1.18	Ctr9	0.30	Zer1	0.00	Klf2	-0.80
Hist2h3c2	1.18	Tfap4	0.30	Gga1	0.00	Jhdm1d	-0.80
BC030307	1.18	Tars2	0.30	Sec22b	0.00	Traf5	-0.80

2700046A07Rik	1.18	Mbd6	0.30	Atmin	0.00	Nrtn	-0.80
Hoxa10	1.18	Klhl9	0.30	Acly	0.00	9030407P20Rik	-0.80
Cobll1	1.18	Bub3	0.30	1700052N19Rik	0.00	Tmem38b	-0.80
Adcy8	1.18	Wdr81	0.30	Zfp161	0.00	Rnf24	-0.80
Gpld1	1.18	Mrpl45	0.30	Gnb1	0.00	Dock4	-0.81
Perp	1.18	Ankrd16	0.30	Commd8	0.00	Itgb6	-0.81
Hmgn3	1.18	Acap3	0.30	Irf9	0.00	Apitd1	-0.81
Gpr55	1.18	Slc15a4	0.30	Scamp3	0.00	Tmem47	-0.81
Dcstamp	1.18	Brpf3	0.30	Met	0.00	Tmem45b	-0.81
Ncoa4	1.17	Psmc4	0.30	Paox	0.00	Dmxl2	-0.81
Dnaja1	1.17	Fam134a	0.30	Zmat1	0.00	Mkx	-0.81
Btc	1.17	Naa16	0.30	Raph1	0.00	Il6ra	-0.81
Zbtb8a	1.17	Marveld3	0.30	Chmp7	-0.01	Tenc1	-0.81
Asrgl1	1.17	Hr	0.30	Hdac7	-0.01	4922501L14Rik	-0.81
Nudt4	1.17	Kdm2a	0.30	Pepd	-0.01	Tbc1d9	-0.81
Hoxb9	1.17	1500003O03Rik	0.30	Gstm7	-0.01	Per2	-0.81
Wipf3	1.16	Med31	0.30	Srf	-0.01	Flt1	-0.81
Bend5	1.16	Copa	0.30	Srrm1	-0.01	E130012A19Rik	-0.81
Slx1b	1.16	Dmkn	0.30	Dgcr14	-0.01	B3galtl	-0.81
A930039A15Rik	1.16	Eif4a3	0.30	Kat5	-0.01	Ldoc1l	-0.81
Egr1	1.15	Fam103a1	0.30	Ift81	-0.01	Ptges	-0.81
Mrps18a	1.15	Ube2g1	0.30	Ppp1r12a	-0.01	Itpril1	-0.81
Itih5	1.15	Dpagt1	0.30	Acy1	-0.01	Stox2	-0.82
Pkp2	1.15	Pigg	0.30	Ppm1l	-0.01	Plk4	-0.82
Hmgn5	1.15	Tagap1	0.30	Fbxo30	-0.01	Leprel4	-0.82
2410004N09Rik	1.15	Myli1	0.30	Supt7l	-0.01	Timp2	-0.82
Pkdcc	1.15	Ddx42	0.30	Api5	-0.01	Il17rd	-0.82
Rassf9	1.14	Smg5	0.30	Anapc4	-0.01	Chst1	-0.82
Rnps1	1.14	Shroom2	0.30	6430527G18Rik	-0.01	Haus4	-0.82
Prkab2	1.14	Mccc1	0.30	Heatr1	-0.01	Peg3	-0.82
Gm16894	1.14	Sfswap	0.30	1700066M21Rik	-0.01	Cd200	-0.82
Msx2	1.14	Gjb4	0.30	Stxbp4	-0.01	Mgst2	-0.82
Kif26a	1.14	Med1	0.30	Olfml2a	-0.01	Prss23	-0.82
Strbp	1.14	Ppid	0.30	Isy1	-0.01	Phtf1	-0.82
Chordc1	1.14	Rsl24d1	0.30	Csrp1	-0.01	Shc2	-0.82
Gm4893	1.14	Rmnd5b	0.30	Zbtb24	-0.01	Pla2r1	-0.82
BC046404	1.13	Neo1	0.30	Wdr90	-0.01	Rnasel	-0.82
1700056N10Rik	1.13	Atxn7l3b	0.30	Tpcn1	-0.01	Tspan15	-0.82
Slc9a7	1.13	Mtf1	0.30	6330512M04Rik	-0.01	Tigit	-0.83
Shq1	1.13	Slc22a21	0.30	Rassf1	-0.01	1700040L02Rik	-0.83
Gm10029	1.13	Vezt	0.30	Trim12c	-0.01	Gstt1	-0.83
Rpl37-ps1	1.13	Ercc5	0.30	Gm962	-0.01	Pdia5	-0.83
Gm16600	1.13	Eif4g2	0.30	Ccdc53	-0.01	Kntc1	-0.83

Dpp4	1.13	Cbwd1	0.29	Thumpd2	-0.01	Slc39a11	-0.83
Plcx2	1.13	Cables1	0.29	Dnajc25	-0.01	BC096441	-0.83
Krt19	1.12	Pskh1	0.29	Arl6	-0.01	Rhov	-0.83
Fam187b	1.12	Tab1	0.29	Mrpl20	-0.01	Rasal2	-0.83
Chml	1.12	Cdc123	0.29	Wars	-0.01	4933436C20Rik	-0.83
Zfp428	1.12	2310046O06Rik	0.29	Entpd5	-0.01	Ppp1r16b	-0.83
Dbt	1.11	Rnf32	0.29	Akap10	-0.01	Soat1	-0.83
Banp	1.11	Ctnna1	0.29	Gm9776	-0.01	Cpeb2	-0.83
Pdp2	1.11	Erp29	0.29	Fto	-0.01	Zfp105	-0.84
Esrrg	1.11	Gpatch8	0.29	Gpaa1	-0.01	Galnt12	-0.84
Eri2	1.11	Coq6	0.29	Gm16603	-0.01	Lhpp	-0.84
0610009E02Rik	1.11	Irgq	0.29	1600002H07Rik	-0.01	Adam15	-0.84
Gm10506	1.11	Coasy	0.29	Tmem50a	-0.01	Esco2	-0.84
Slc25a47	1.11	Pigo	0.29	Zdhhc20	-0.01	Ccdc160	-0.84
Arhgap6	1.11	Nfix	0.29	Casp9	-0.01	Tmem30b	-0.84
Sumo2	1.10	Phf6	0.29	Mios	-0.01	Gatsl3	-0.84
Tufm	1.10	Zbtb6	0.29	Trappc9	-0.01	Gpr4	-0.84
Fam129c	1.10	Wdr55	0.29	Rarb	-0.01	Csgalnact2	-0.84
Gse1	1.10	Traf4	0.29	Col4a5	-0.01	Picalm	-0.84
Sfi1	1.10	Grsf1	0.29	Kpna2	-0.01	Nav1	-0.84
Srsf2	1.10	1110008F13Rik	0.29	Hyi	-0.01	Galnt3	-0.84
Pex1	1.10	Casc3	0.29	Ppp6r1	-0.01	Galnt10	-0.84
Msi1	1.10	Pkp3	0.29	Vegfc	-0.01	Akap7	-0.84
Fkbp4	1.10	Fem1a	0.29	5730419I09Rik	-0.01	Specc1	-0.85
Nipal4	1.10	Nat10	0.29	Zfyve16	-0.01	Ccdc3	-0.85
E030030I06Rik	1.10	Tradd	0.29	Zfp524	-0.01	Hells	-0.85
Cox7a1	1.10	Snrpd1	0.29	Brd9	-0.01	Mmp13	-0.85
Gm11808	1.10	Aes	0.29	Uimc1	-0.01	Agtrap	-0.85
Rhob	1.09	Pcmt2	0.29	2310067B10Rik	-0.01	Tfpi2	-0.85
Ctnnd2	1.09	6720401G13Rik	0.29	Scyl2	-0.01	Chac1	-0.85
P2ry1	1.09	Atf6	0.29	Arih2	-0.01	Tnfrsf1a	-0.85
Duoxa1	1.09	Cdkn2aip	0.29	Rnf25	-0.01	Pnp2	-0.85
Dos	1.09	Tbca	0.29	Dhps	-0.01	Ptpn1	-0.85
Cd24a	1.08	Wdr8	0.29	Znrf1	-0.01	Gm2a	-0.86
H1fx	1.08	Agmo	0.29	Wwc2	-0.01	Cpd	-0.86
Morn1	1.08	Ppp1r9a	0.29	H13	-0.01	Rgs10	-0.86
Acrbp	1.08	Atic	0.29	Rbms2	-0.01	Gpr132	-0.86
Dgka	1.08	Ankrd26	0.29	Traf2	-0.01	Slc41a2	-0.86
Ptms	1.08	Rbx1	0.29	Lactb	-0.01	Rgs1	-0.86
Mtss1l	1.07	Cox4nb	0.29	Haus1	-0.01	Mpzl2	-0.86
Rpl32-ps	1.07	Cobl	0.29	Zfp141	-0.01	Ncaph	-0.86
Gm8444	1.07	Tbc1d8b	0.29	Rce1	-0.02	Sh3d19	-0.86
Extl1	1.07	Nthl1	0.29	Bloc1s3	-0.02	Cep170	-0.86

Chka	1.07	Uqcc	0.29	Mrps18c	-0.02	Kif4	-0.86
Alox12	1.07	Supt16h	0.29	Eps8l2	-0.02	Rad18	-0.86
Rasgrp1	1.07	Zbtb39	0.29	Pex13	-0.02	Irf7	-0.86
Pcsk1n	1.07	Uba5	0.29	Psap	-0.02	Traf1	-0.86
Elovl6	1.07	Card6	0.29	Lclat1	-0.02	Ikzf1	-0.86
5930412G12Rik	1.07	Polr2m	0.29	Wwtr1	-0.02	Slc7a5	-0.86
P2rx7	1.07	Rbpsuh-rs3	0.29	Ppt2	-0.02	Mgst1	-0.86
Batf3	1.07	Txndc9	0.29	Wdr1	-0.02	Atp1a1	-0.86
Myo5c	1.06	Stk16	0.29	Tspan5	-0.02	Wnt2	-0.86
Cyb5r1	1.06	Zfp768	0.29	Tgs1	-0.02	Hexa	-0.86
Cdsn	1.06	Krr1	0.29	2810046L04Rik	-0.02	Tfcp2l1	-0.86
Btg1	1.06	Mrpl49	0.29	Vrk3	-0.02	Cblb	-0.86
Ehf	1.06	Fam120a	0.29	Nipal3	-0.02	Fads3	-0.86
Ang	1.06	AW146020	0.29	Gtf2a1	-0.02	Espl1	-0.87
Gm10451	1.06	Zfp653	0.29	Mff	-0.02	Sash1	-0.87
Gm9797	1.06	Yif1a	0.29	1810032O08Rik	-0.02	Kprp	-0.87
Adipor2	1.06	Strap	0.29	Ssu72	-0.02	Arhgap44	-0.87
H2-T10	1.05	Gm10033	0.29	Zfp628	-0.02	Arntl2	-0.87
Hoxa9	1.05	Prpf4b	0.29	Triobp	-0.02	Lats2	-0.87
Pgm3	1.05	Epm2aip1	0.29	Echdc3	-0.02	Fbxl5	-0.87
Mvk	1.05	Ppap2c	0.29	2010321M09Rik	-0.02	Ypel4	-0.87
Nr3c2	1.05	1110021J02Rik	0.29	Shroom4	-0.02	Agap2	-0.87
Lbh	1.05	Ppargc1a	0.29	Cops3	-0.02	Hilpda	-0.87
Bpifb5	1.05	Ralgapb	0.29	Wdr26	-0.02	Gsn	-0.87
Gm12216	1.05	Harbi1	0.29	Fam118b	-0.02	Twist1	-0.87
Rcn1	1.05	Stk11	0.29	Arl8a	-0.02	Lyst	-0.87
Galntl4	1.05	Fam18b	0.29	Psenen	-0.02	2210403K04Rik	-0.88
Arhgap28	1.05	Ppp2r1b	0.29	D730040F13Rik	-0.02	Ppic	-0.88
2410006H16Rik	1.05	Mrpl36	0.29	Flywch2	-0.02	Cpeb3	-0.88
Taf1c	1.04	Rab11a	0.29	Serf1	-0.02	Pid1	-0.88
Maoa	1.04	Ttc15	0.29	Amdhd2	-0.02	Slc25a25	-0.88
Rps23	1.04	B4galt5	0.29	Ttc14	-0.02	Tmtc1	-0.88
Clec7a	1.04	Shroom1	0.29	Arpc5	-0.02	Ugt1a6a	-0.88
Tmem158	1.04	Plekha1	0.29	Fam122a	-0.02	Plod1	-0.88
Dlx3	1.04	Atp5s	0.29	Git1	-0.02	Ap3s1	-0.88
Faah	1.04	D17H6S53E	0.29	Cbx6	-0.02	Fmnl2	-0.88
Rps19-ps4	1.04	Dph5	0.29	Gng12	-0.02	6030419C18Rik	-0.88
2810021J22Rik	1.03	Rbak	0.29	Oma1	-0.02	Arhgap29	-0.89
4930518I15Rik	1.03	Vav3	0.29	Dynlrb1	-0.02	Bach1	-0.89
Nrip3	1.03	Zfp646	0.29	Fbxw5	-0.02	Fam25c	-0.89
Atp6v0c	1.03	D11Wsu47e	0.29	Zfp629	-0.02	Gga2	-0.89
Bcl2l14	1.03	Glb1	0.29	Sp3	-0.02	Chdh	-0.89
Gm5101	1.03	Tug1	0.29	Clptm1	-0.02	D3ErtD751e	-0.89

Mfap3l	1.03	Actr6	0.29	lqsec2	-0.02	Stx7	-0.89
Npm3	1.02	Gbas	0.29	Slc52a2	-0.02	Nfkb2	-0.89
Ufsp1	1.02	Dcaf5	0.29	Ppip5k1	-0.02	Ror2	-0.89
Rps26	1.02	Ccdc21	0.29	Elp3	-0.02	Arhgap23	-0.89
Gm16024	1.02	Tmem120b	0.29	Thap4	-0.02	Tnf	-0.89
Polr2k	1.02	Msl3l2	0.28	Csrnp2	-0.02	Sgms1	-0.89
Ank3	1.02	2300009A05Rik	0.28	Arhgap42	-0.02	Pycard	-0.89
Pon2	1.02	Mesdc1	0.28	Slc7a6os	-0.02	Uck2	-0.89
Aldh1b1	1.02	Ubap1	0.28	Prkar1a	-0.02	Exoc6	-0.89
Ankrd35	1.02	l7Rn6	0.28	Alms1	-0.02	Mmp2	-0.89
Aqp3	1.02	Ostc	0.28	Cadps	-0.02	Fhl3	-0.89
Tmem42	1.02	Taf6	0.28	Mipep	-0.02	Slc26a6	-0.89
Gm15706	1.02	Sh2b1	0.28	Cdyl2	-0.02	Ccdc88a	-0.89
Ctsw	1.01	Spdef	0.28	Fbxl4	-0.02	Ctsz	-0.90
Ern1	1.01	Sprp2h	0.28	Nt5dc1	-0.02	Hif1a	-0.90
Ptgr1	1.01	Gm8290	0.28	Zfp518a	-0.02	Ccnyl1	-0.90
Tdrkh	1.01	Gm10260	0.28	6720456H20Rik	-0.02	Gbp7	-0.90
Tlcd1	1.01	Gm16415	0.28	Tollip	-0.02	Synpo	-0.90
C730034F03Rik	1.01	Fam105b	0.28	Id2	-0.02	Nfkbia	-0.90
Fam69a	1.01	Uhrf1bp1	0.28	Fbxl8	-0.02	Cxcl15	-0.90
Khsrp	1.01	Ncbp1	0.28	Rhbdd1	-0.02	Epas1	-0.90
0610010O12Rik	1.01	Ap4s1	0.28	Zfp747	-0.02	Rasal3	-0.90
Wasf1	1.01	Sip1	0.28	Tmco1	-0.02	Mt2	-0.90
Abhd12	1.01	Zfyve27	0.28	1810027O10Rik	-0.03	Creb5	-0.90
Fgfr2	1.01	Calcoco1	0.28	Mks1	-0.03	Tspan8	-0.90
Slc35b4	1.01	Ppp2r5d	0.28	Ppp1ca	-0.03	Fnbp1	-0.90
Rbm15b	1.00	Cdk10	0.28	Gorab	-0.03	Flot2	-0.90
Ly6g5b	1.00	Neurl4	0.28	Tprgl	-0.03	Kcnq5	-0.90
Pwwp2b	1.00	D8ErtD738e	0.28	Pdcd6	-0.03	Ifitm3	-0.90
Ppp1r13l	1.00	2610528E23Rik	0.28	Gzf1	-0.03	Adam9	-0.90
Ptpru	1.00	Rraga	0.28	Card10	-0.03	Itgb7	-0.90
9230110C19Rik	1.00	Arfgap2	0.28	Crebbp	-0.03	Sp5	-0.90
Gm17305	1.00	Aptx	0.28	Elf1	-0.03	Hist1h1e	-0.90
Tpk1	1.00	Rab33b	0.28	Thap1	-0.03	Gm13476	-0.90
ltpr1	1.00	Gm7334	0.28	Exosc8	-0.03	2810417H13Rik	-0.90
Sesn3	1.00	Rcl1	0.28	Ccz1	-0.03	Lpar2	-0.90
9230102O04Rik	1.00	Yars	0.28	Heatr6	-0.03	Ccrn4l	-0.90
Plcl1	1.00	Stau2	0.28	Gm16372	-0.03	Nucb2	-0.90
Kif21a	0.99	Nsun3	0.28	Nudt12	-0.03	BC007180	-0.90
Efs	0.99	Paqr8	0.28	Dpp7	-0.03	Scd1	-0.90
Pfn2	0.99	Cggbp1	0.28	Anapc11	-0.03	Dock11	-0.90
Mtmr4	0.99	Sf3a1	0.28	Lzic	-0.03	Gbgt1	-0.91
Tmem64	0.99	Tmf1	0.28	Snx5	-0.03	Anxa11	-0.91

4732444A12Rik	0.99	Top2b	0.28	Ncoa6	-0.03	Gm11818	-0.91
Tbx3	0.99	Ctdnep1	0.28	Ggps1	-0.03	6330503K22Rik	-0.91
Cdkn2a	0.98	Eif2s3x	0.28	Eea1	-0.03	Fam54a	-0.91
Tm9sf3	0.98	8430406I07Rik	0.28	Smarcd1	-0.03	Zswim7	-0.91
Gbp8	0.98	Numb	0.28	Tmem222	-0.03	Kif2c	-0.91
Id4	0.98	Pcdh7	0.28	Spcs1	-0.03	Loxl2	-0.91
Gm17606	0.98	Lrp11	0.28	Hdac6	-0.03	Farp1	-0.91
Gm5481	0.98	Gspt1	0.28	Dync2h1	-0.03	Magee1	-0.91
Plip	0.98	Kif5c	0.28	Mpp1	-0.03	Fam171a2	-0.91
Adck5	0.98	4833420G17Rik	0.28	Sccpdh	-0.03	Lgals3bp	-0.91
Gtf2ird2	0.98	Ccnh	0.28	9130011J15Rik	-0.03	Stk10	-0.91
Rbm10	0.98	Sae1	0.28	Pnrc1	-0.03	Il11ra1	-0.91
Rps16	0.97	Srsf7	0.28	Spata2	-0.03	Atp7a	-0.91
Tef	0.97	Rab10	0.28	Tet2	-0.03	Sp110	-0.91
Tns4	0.97	Spty2d1	0.28	Pxn	-0.03	Rhbdf2	-0.91
Rps17	0.97	Terf1	0.28	Hus1	-0.03	Npc1	-0.91
Mvd	0.97	Tmem69	0.28	Rps6kb2	-0.03	Vash1	-0.91
Abhd14b	0.97	Phf5a	0.28	Senp2	-0.03	Pmaip1	-0.91
Gm3511	0.97	Ung	0.28	Ece2	-0.03	Lmnb1	-0.91
Gnai1	0.97	Trbc1	0.28	Golgb1	-0.03	Ly6d	-0.91
Rasef	0.97	Urm1	0.28	Dctn4	-0.03	Ttc9	-0.91
Sp6	0.97	Parp3	0.28	Tmx1	-0.03	Haus8	-0.91
Itga6	0.96	Atp6v0e2	0.28	Cdc27	-0.03	6230427J02Rik	-0.92
Ntf5	0.96	Kif3a	0.28	Zfp398	-0.03	Cenpa	-0.92
Prodh	0.96	Pik3ca	0.28	Vdac2	-0.03	Lat	-0.92
Bmp7	0.96	Hadhb	0.28	Cic	-0.03	Metrn1	-0.92
Nf1	0.96	Zc3h4	0.28	Azin1	-0.03	Tk1	-0.92
Zfpm1	0.96	Tada2a	0.28	Gm340	-0.03	Elf3	-0.92
Gk5	0.96	Arl6ip4	0.28	Lrp4	-0.03	Arg2	-0.92
Zfp827	0.96	BC017612	0.28	Ric8	-0.03	Rwdd2a	-0.92
Nkapl	0.96	1110049F12Rik	0.28	Pggt1b	-0.03	Rassf6	-0.92
Pzca	0.96	Mapre3	0.28	Qpctl	-0.03	Arhgef16	-0.92
Abcc10	0.96	Trrap	0.28	Uap1	-0.03	Rnf208	-0.92
2310004N24Rik	0.96	Gm16516	0.28	BC032203	-0.03	Nuak2	-0.92
Pabpn1	0.96	Bod1l	0.28	Ndufs8	-0.03	Cd55	-0.92
Tm7sf2	0.95	Inpp5k	0.28	Hmgcr	-0.03	Hba-a2	-0.92
Utp14b	0.95	Phf21a	0.28	Zfp106	-0.03	Rad51ap1	-0.92
Egflam	0.95	Atp6v1h	0.28	Apobec3	-0.03	Rnf150	-0.92
Gm12352	0.95	Erich1	0.28	Unk	-0.03	Lnpep	-0.92
Id1	0.95	Ss18l1	0.28	Rab35	-0.03	Ccdc102a	-0.92
Snrpf	0.95	Hdac1	0.28	H2afy	-0.03	Capza1	-0.92
Pmm2	0.95	Slc25a46	0.28	Lamb2	-0.03	Mgmt	-0.93
Coro2a	0.95	Gsk3a	0.28	Zkscan6	-0.03	Fzd1	-0.93

Omp	0.95	Xk	0.28	Zfp120	-0.03	Rhbdl2	-0.93
Fam189a2	0.95	9230112E08Rik	0.28	Dusp11	-0.03	Dclk1	-0.93
Hoxa11	0.95	Heatr7a	0.28	Tceb3	-0.03	Ptpn2	-0.93
1520402A15Rik	0.95	Samd10	0.28	Skil	-0.03	Casp1	-0.93
Rpl38	0.95	Fuca1	0.28	Plekhm1	-0.03	Ablim3	-0.93
Zfyve21	0.94	Mier2	0.28	Hist1h4d	-0.03	Niacr1	-0.93
Lipe	0.94	Rrnad1	0.28	Ube4b	-0.03	Flna	-0.93
Rasal1	0.94	Psmc6	0.28	2010107H07Rik	-0.03	Cgn1	-0.93
Zfp324	0.94	Dnmbp	0.28	Hoxa6	-0.03	Zcwpw1	-0.93
Ift20	0.94	Riok2	0.28	1700029F09Rik	-0.03	Dock6	-0.93
Ccdc72	0.94	Timm50	0.28	Pet112l	-0.03	Ahnak2	-0.93
A930038C07Rik	0.94	Isoc2a	0.28	Sdhc	-0.03	Zfp36l2	-0.93
Gar1	0.94	Abhd1	0.28	Fer	-0.03	Ncoa7	-0.93
Kcnk5	0.94	Snx1	0.28	Zfp748	-0.03	Pik3c2a	-0.93
Gm12655	0.94	Ttc30a1	0.28	Taldo1	-0.03	Crlf2	-0.93
Slc25a29	0.94	Ttc27	0.28	Rbl2	-0.03	Gpr68	-0.94
Yeats2	0.94	Pex14	0.28	Sf3b5	-0.03	Fam43a	-0.94
Fam199x	0.94	Rtf1	0.28	Serinc1	-0.03	Dusp6	-0.94
1110002L01Rik	0.93	Mnt	0.28	Itch	-0.03	Lrrc17	-0.94
Padi1	0.93	Bhlhb9	0.28	Klc1	-0.03	Pth1r	-0.94
Fam86	0.93	Cdk8	0.27	2310047M10Rik	-0.03	Reep1	-0.94
Rhobtb3	0.93	Sema4a	0.27	Zfp599	-0.03	Senpe	-0.94
A730017L22Rik	0.93	Smarcd2	0.27	Lgals8	-0.04	Tceal1	-0.94
Cep97	0.93	Spcs3	0.27	Purg	-0.04	Spag5	-0.94
L2hgdh	0.93	Gm14286	0.27	Xrcc6bp1	-0.04	B230120H23Rik	-0.94
Gm7589	0.93	RP23-381B19.7	0.27	Ehhadh	-0.04	Stx2	-0.94
Gm10134	0.93	Bhlha15	0.27	Il17rb	-0.04	Ednra	-0.94
Prss8	0.93	Gnl2	0.27	Rnf103	-0.04	Prickle1	-0.94
Rcn2	0.93	Cspp1	0.27	Abcb8	-0.04	Fam46b	-0.94
Hmgb3	0.93	Scaf1	0.27	1810030N24Rik	-0.04	Maff	-0.94
Ank2	0.93	Suv420h1	0.27	Pus7l	-0.04	Accn3	-0.94
Snhg4	0.93	Rnpep	0.27	Katnal1	-0.04	Oas3	-0.95
Fam3c	0.92	R3hcc1	0.27	Cdkn2b	-0.04	Arap1	-0.95
5033430I15Rik	0.92	Gfm2	0.27	Myo1d	-0.04	Arhgef6	-0.95
D16H22S680E	0.92	Mad2l2	0.27	Dbnl	-0.04	Gzmb	-0.95
Zswim1	0.92	Trim16	0.27	Rapgef6	-0.04	Crim1	-0.95
Vipr2	0.92	Ikbkap	0.27	Snx21	-0.04	Rgs19	-0.95
1810074P20Rik	0.92	Atp6v1g2	0.27	Phip	-0.04	Kank2	-0.95
Gm12999	0.92	Chchd10	0.27	Gnb4	-0.04	Fxyd4	-0.95
Efcab4b	0.92	Phf20	0.27	Wdr60	-0.04	Gimap5	-0.95
A230051G13Rik	0.92	Ppl	0.27	Smo	-0.04	Fzd2	-0.95
Abcc3	0.92	Mcp1	0.27	Asb8	-0.04	Bmp2k	-0.95
Klhl13	0.91	9430015G10Rik	0.27	Mbd5	-0.04	Golm1	-0.95

Cep78	0.91	Cdk19	0.27	Itpr3	-0.04	Slc43a2	-0.95
Emid1	0.91	Dom3z	0.27	4833439L19Rik	-0.04	Coro7	-0.95
Baiap2	0.91	Fam173a	0.27	Gimap9	-0.04	Odc1	-0.95
Ruvbl1	0.91	Atad1	0.27	Heatr5b	-0.04	Spire2	-0.95
Cyb5b	0.91	Acaca	0.27	Dpp8	-0.04	Fth1	-0.95
Has3	0.91	Mrps22	0.27	Sumf1	-0.04	Ptplad2	-0.95
RP23-85E24.1	0.91	Slc27a3	0.27	Opa1	-0.04	Angpt4	-0.95
Gm10130	0.91	Ubl5	0.27	Tmem167	-0.04	Obfc2a	-0.96
Nme6	0.91	Fam98a	0.27	Fbxo18	-0.04	Mapk13	-0.96
Epn3	0.91	Pomp	0.27	Cdc34-ps	-0.04	Ankrd37	-0.96
Gm13091	0.91	Rere	0.27	Ggct	-0.04	Bcl6b	-0.96
Mamld1	0.91	2010305A19Rik	0.27	1600020E01Rik	-0.04	Plscr1	-0.96
Ormdl1	0.91	Snx24	0.27	Trpc4ap	-0.04	Krt73	-0.96
Dnajc3	0.91	Nle1	0.27	Uqcrb	-0.04	Sfxn5	-0.96
Pbsn	0.91	Cox5a	0.27	Laptm4a	-0.04	Adk	-0.96
Pkp4	0.91	Gtpbp8	0.27	Map2k4	-0.04	Dgkh	-0.96
Fam176a	0.90	Pik3c2b	0.27	Fabp5	-0.04	Rab23	-0.96
Zfp189	0.90	2610015P09Rik	0.27	A830007P12Rik	-0.04	Gm15675	-0.96
Cd83	0.90	Pes1	0.27	3230401D17Rik	-0.04	Dll4	-0.96
Trim32	0.90	Repin1	0.27	Slc50a1	-0.04	Tpst2	-0.96
Slc25a35	0.90	Txlng	0.27	Alg11	-0.04	Adcy9	-0.96
Hook1	0.90	Itgb4	0.27	Shfm1	-0.04	Gmnn	-0.97
Foxq1	0.90	Zkscan3	0.27	Nphp3	-0.04	Nuak1	-0.97
Crip2	0.90	Tnks2	0.27	Avpi1	-0.04	Mocs1	-0.97
Acad10	0.90	Top3b	0.27	Dnajc16	-0.04	Dchs1	-0.97
Pfas	0.90	Stk19	0.27	Cd151	-0.04	Acot11	-0.97
Kin	0.90	Zrsr1	0.27	Trip10	-0.04	Cntln	-0.97
Rps27	0.90	Igsf8	0.27	Bach2	-0.04	9430020K01Rik	-0.97
Gm5528	0.90	Fbxw11	0.27	Ccdc56	-0.04	Dnm3os	-0.97
Slc25a27	0.90	Sos1	0.27	Cbr4	-0.04	Adm	-0.97
Lins	0.89	Acad9	0.27	F2r1l	-0.04	Stil	-0.97
A930024E05Rik	0.89	Slc26a11	0.27	4921517L17Rik	-0.04	Ehd3	-0.97
Gm5611	0.89	Cct6a	0.27	Zfp961	-0.04	Dtnbp1	-0.97
Gm16310	0.89	Zc3h18	0.27	Rabl2	-0.04	Sod2	-0.97
Prox1	0.89	Lrrc47	0.27	Pxmp4	-0.04	Mal2	-0.97
Zfp771	0.89	Nol12	0.27	Uqcrq	-0.04	Antxr2	-0.98
Mtftp1	0.89	Naa15	0.27	Slc25a26	-0.04	Abcb1a	-0.98
Gm6907	0.89	Mrpl18	0.27	Npdc1	-0.04	Ehd4	-0.98
Gm17354	0.89	Rp9	0.27	Tbpl1	-0.04	Mecom	-0.98
Lass4	0.89	Tcp1	0.27	Pldn	-0.04	Phactr2	-0.98
Mtfr1	0.89	Camsap2	0.27	Smcr7	-0.04	Scarf2	-0.98
Ydjc	0.89	Naf1	0.27	Ubr7	-0.04	1300002K09Rik	-0.98
Tgfb2	0.89	Dpm2	0.27	Fkbp8	-0.04	Ubash3b	-0.98

Rrp9	0.89	Sdr42e1	0.27	Zfp35	-0.04	2310008H04Rik	-0.98
Srm	0.88	Larp1b	0.27	Plcd3	-0.04	Dhdh	-0.98
Lrrc1	0.88	Pard3	0.27	Tti1	-0.04	Hgsnat	-0.98
Exog	0.88	Zfp362	0.27	Dyrk1a	-0.04	Myo5a	-0.98
Nudt22	0.88	Rpgr	0.27	Tbcd	-0.04	Camkk2	-0.98
Olfm4	0.88	Phf16	0.27	Cd99l2	-0.04	H6pd	-0.98
Gpr155	0.88	Alkbh2	0.27	Hbegf	-0.04	Plekhg2	-0.98
Gm15417	0.88	Pus3	0.27	Gins4	-0.04	Sgol2	-0.98
Eno3	0.88	Piga	0.27	Psme2b-ps	-0.04	Acvr1b	-0.99
Ccdc77	0.88	Sec22a	0.27	Snupn	-0.04	Acer3	-0.99
Lrrc40	0.88	Kpna1	0.27	Golga7b	-0.04	Kifc3	-0.99
Ipo13	0.88	Nr2f2	0.27	Ssr3	-0.04	Wnk2	-0.99
Ccr4	0.88	Mrpl16	0.27	Scamp2	-0.04	Abi3	-0.99
Peo1	0.88	Dgcr8	0.27	Stk24	-0.04	Adig	-0.99
Snai2	0.88	Prrc1	0.27	Dcaf17	-0.04	Spc25	-0.99
Klf15	0.88	Mrps9	0.27	Tmed5	-0.04	Fem1c	-0.99
2610019E17Rik	0.87	Tgif1	0.27	R3hdm2	-0.04	Hivep2	-0.99
Fam13c	0.87	Cyp4f17	0.27	4632415K11Rik	-0.04	Irf5	-0.99
Sord	0.87	Cul5	0.27	Zfp295	-0.04	Anxa8	-0.99
Usp20	0.87	Zfp512	0.27	Dedd2	-0.05	Cit	-0.99
Zfp772	0.87	Mfn1	0.27	Wdpcp	-0.05	Fut4	-0.99
Zfp868	0.87	Edc3	0.27	Anks1	-0.05	Timp3	-1.00
Gm5551	0.87	Sgsh	0.27	Rnf26	-0.05	Osbpl3	-1.00
Sphk2	0.87	Hebp2	0.27	Gm8619	-0.05	Tmem86a	-1.00
Thg1l	0.87	A330035P11Rik	0.27	Mtpap	-0.05	Pcdh12	-1.00
Tns1	0.87	Tmem40	0.27	Rdx	-0.05	Rasgef1a	-1.00
Slc7a1	0.86	D14Abb1e	0.27	Cdk12	-0.05	Ndrgr1	-1.00
Rangrf	0.86	Ddx5	0.27	Syce1l	-0.05	Myo18a	-1.00
Hsp90aa1	0.86	Ankrd54	0.27	Fam176b	-0.05	Aifm2	-1.00
Tfap2a	0.86	Rsf1	0.27	2210009G21Rik	-0.05	Phldb2	-1.00
Acaa2	0.86	Btf3l4	0.27	Zfp943	-0.05	Pdzk1	-1.00
Alg2	0.86	Galntl1	0.27	Sc5d	-0.05	Dock7	-1.00
Tmem41b	0.86	Psma4	0.27	Tomm40l	-0.05	2310007B03Rik	-1.00
Gm4987	0.86	Xrcc1	0.27	Ryk	-0.05	Gbp9	-1.00
Pnpo	0.86	Abt1	0.27	Slc38a9	-0.05	Arhgef10	-1.00
Zdhhc2	0.86	Gm7964	0.27	Eif1	-0.05	Sipa1	-1.00
Fbp1	0.86	Eif2b3	0.27	Apbb3	-0.05	Phyh	-1.00
Slc25a42	0.86	Mmp15	0.27	Zeb2	-0.05	Man2b2	-1.00
Rragb	0.86	Man2c1	0.27	Sgms2	-0.05	5730590G19Rik	-1.00
Rpl29	0.86	Bcl2l2	0.27	Zfp397	-0.05	Gpr146	-1.00
Snhg1	0.86	Zfp655	0.27	Rtcd1	-0.05	Pcdhga9	-1.00
Rps26-ps1	0.86	Creb1	0.27	Dld	-0.05	Lix1l	-1.00
Id3	0.86	Scd2	0.27	Fbxo44	-0.05	Pde4b	-1.00

Casz1	0.86	Ube2q2	0.27	AL593857.1	-0.05	Col6a1	-1.01
Kctd12b	0.86	Cobra1	0.27	Fis1	-0.05	Ehd1	-1.01
Fhod3	0.85	Lonp1	0.27	Dus1l	-0.05	Mfsd7a	-1.01
Hist3h2a	0.85	Mat2b	0.27	Hey1	-0.05	Trp53i13	-1.01
Mlh1	0.85	Fundc2	0.27	Stx12	-0.05	Gchfr	-1.01
Mmgt2	0.85	Tm2d1	0.27	Mtap1s	-0.05	Shisa5	-1.01
Kdsr	0.85	Gm10036	0.27	Unc50	-0.05	Panx1	-1.01
Pdlim1	0.85	Gm20457	0.27	Foxf1a	-0.05	Gulp1	-1.01
Rabgef1	0.85	Nedd8	0.27	4833442J19Rik	-0.05	Snhg11	-1.01
Aifm1	0.85	2610029G23Rik	0.27	Megf9	-0.05	Fam64a	-1.01
Bcat2	0.85	Arl8b	0.27	Usp25	-0.05	Gm13157	-1.01
Col17a1	0.85	Zfp758	0.27	Mdm4	-0.05	Rnf183	-1.01
Dkc1	0.85	Mmadhc	0.27	Farp2	-0.05	Sema4d	-1.02
Magix	0.85	Nr4a1	0.26	Ppip5k2	-0.05	Tmem125	-1.02
Serpinb5	0.84	Ppp1cb	0.26	Mapk8ip3	-0.05	Fgd3	-1.02
Rhot2	0.84	Dusp22	0.26	Jmjd6	-0.05	Fbxo34	-1.02
Cenpv	0.84	Myo6	0.26	Fbxw9	-0.05	Vwa1	-1.02
Hexim1	0.84	Wdr3	0.26	Cdipt	-0.05	Pde4d	-1.02
Tmem150c	0.84	Rab5a	0.26	BC018507	-0.05	Itrip	-1.02
Stk39	0.84	Usp32	0.26	Mbd1	-0.05	Mmp14	-1.02
Enox	0.84	Dimt1	0.26	Lancl1	-0.05	Nek2	-1.02
Gmppb	0.84	Rnf167	0.26	Pm20d2	-0.05	Lrat	-1.02
Gm10288	0.84	Tmed9	0.26	Akr1e1	-0.05	Armcx4	-1.02
9430008C03Rik	0.84	Lrrc20	0.26	Ubr1	-0.05	Atrnl1	-1.02
Acss1	0.84	Pdcd10	0.26	Arl6ip1	-0.05	Ephb3	-1.02
2700073G19Rik	0.84	Vezf1	0.26	Gm12992	-0.05	Rbks	-1.02
Kifc2	0.84	Klhdc5	0.26	0610037L13Rik	-0.05	9930023K05Rik	-1.02
D330045A20Rik	0.84	Gabbr1	0.26	Zfp800	-0.05	Cebpa	-1.03
Slc25a13	0.84	Myst1	0.26	Zfp119b	-0.05	Col4a1	-1.03
Prune2	0.84	Igbp1	0.26	Tfeb	-0.05	Klk8	-1.03
Rdh13	0.84	Suv39h1	0.26	Ubac2	-0.05	Gpr171	-1.03
Odz3	0.84	Zfp574	0.26	Tpd52l2	-0.05	Filip1	-1.03
Ppan	0.84	Kctd21	0.26	Kctd5	-0.05	Slco3a1	-1.03
Ttll10	0.83	Smpd2	0.26	Dnlz	-0.05	Ap2a2	-1.03
Rab3ip	0.83	Zgpat	0.26	Erbp2ip	-0.05	Lypd2	-1.03
Fam100a	0.83	5430411K18Rik	0.26	Oraov1	-0.05	Cited4	-1.03
Eml5	0.83	Cog4	0.26	Evi5l	-0.05	Plk3	-1.03
Amd1	0.83	Pex12	0.26	Dcaf15	-0.05	Slc28a3	-1.03
Arglu1	0.83	Wdr11	0.26	Herpud2	-0.05	Cx3cl1	-1.03
D19Ertd386e	0.83	Rrbp1	0.26	Sar1a	-0.05	Dusp23	-1.03
2310033P09Rik	0.83	Gemin7	0.26		8-Sep	Ets1	-1.03
Ccnd2	0.83	Slc35c2	0.26	Taf10	-0.05	Litaf	-1.03
Slc38a1	0.83	Cbx2	0.26	Rsp3b	-0.05	Fmn1	-1.03

Lrrc45	0.83	Mospd2	0.26	Gpr137	-0.05	6030419C18Rik	-1.04
Unkl	0.83	Mrpl12	0.26	Wars2	-0.05	Ptprb	-1.04
Zfp354a	0.83	Rdh14	0.26	Scap	-0.05	Ifi30	-1.04
Nudt21	0.83	2310009B15Rik	0.26	9930021J03Rik	-0.05	Jag1	-1.04
Crip1	0.83	A430018G15Rik	0.26	Bax	-0.05	Ece1	-1.04
B130006D01Rik	0.83	Tnpo3	0.26	Pcyox1	-0.05	Hist1h1c	-1.04
Dhdds	0.83	Exosc10	0.26	Spice1	-0.05	Ptprs	-1.04
Fhod1	0.82	Rdh5	0.26	Rpap3	-0.05	Gpc4	-1.04
Gm12940	0.82	Tnfsf8	0.26	Trmt5	-0.05	Fam49b	-1.04
Zbtb40	0.82	Tmed7	0.26	6330578E17Rik	-0.05	Rhoh	-1.04
Tfap2c	0.82	1810009A15Rik	0.26	Pitpnm2	-0.05	Enpp2	-1.04
Sms	0.82	Ndufa8	0.26	BC013529	-0.05	Cdr2l	-1.04
Hspd1	0.82	2500003M10Rik	0.26	Eif1ad	-0.05	Plvap	-1.04
D330041H03Rik	0.82	Zfp438	0.26	Zfp119a	-0.05	Gpr64	-1.04
D630039A03Rik	0.82	Tecr	0.26	Man1b1	-0.05	Ltbp4	-1.04
Rybp	0.82	1810013D10Rik	0.26	Ndufaf2	-0.05	1700025G04Rik	-1.04
Stip1	0.82	Eif2c1	0.26	Uxt	-0.05	Gpr137b	-1.04
Vangl2	0.82	Snrpe	0.26	Dnajc4	-0.05	Tnfrsf22	-1.04
Phldb1	0.82	Zmat5	0.26	Midn	-0.05	Intu	-1.04
Bpnt1	0.82	Zfp672	0.26	Ppap2b	-0.05	Sertad4	-1.05
Lman2l	0.82	Med24	0.26	Pkn1	-0.05	Lamb1	-1.05
Tmem79	0.82	Ring1	0.26	Pygb	-0.05	Slfn10-ps	-1.05
Gm16230	0.82	Tpmt	0.26	Ap2b1	-0.05	Scpep1	-1.05
Cisd3	0.82	Zfp605	0.26	Brms1	-0.05	Rab20	-1.05
Adamts1	0.82	Fam123b	0.26	Ncapd3	-0.05	Ildr1	-1.05
Gpr114	0.82	Rpl7a	0.26	Zfp275	-0.06	Col4a2	-1.05
Apoo-ps	0.82	Eftud1	0.26	Tmem132a	-0.06	Sh3pxd2a	-1.05
Rpl36	0.82	Rc3h2	0.26	Metap1d	-0.06	Pdgfb	-1.05
Pfkfb4	0.82	Ewsr1	0.26	C330006D17Rik	-0.06	Papss2	-1.05
Fbl	0.82	Rhoa	0.26	Gm6190	-0.06	Ap1m2	-1.05
Magt1	0.82	Nol6	0.26	Masp1	-0.06	Pdgfrb	-1.05
Gm16023	0.81	Scaper	0.26	Casp8ap2	-0.06	Aspm	-1.05
Osbp	0.81	Nup188	0.26	Lrrc61	-0.06	Rasa2	-1.06
Svip	0.81	Pld2	0.26	Maf1	-0.06	Cd44	-1.06
Syt1	0.81	1700049G17Rik	0.26	Ldlrap1	-0.06	Cd86	-1.06
Gm4189	0.81	Ripk4	0.26	Nmnat1	-0.06	Tsc22d3	-1.06
Hist1h4h	0.81	Hspbap1	0.26	Pask	-0.06	Noxo1	-1.06
Nr2f6	0.81	Nkap	0.26	Mtm1	-0.06	Fbxo32	-1.06
Abcc5	0.81	Add1	0.26	Zfp182	-0.06	Pim1	-1.06
	9-Mar	Mrps18b	0.26	5430435G22Rik	-0.06	Spry1	-1.06
Esr1	0.81	Jmy	0.26	Gak	-0.06	Ptpn22	-1.06
Mpp7	0.81	Hace1	0.26	Sumf2	-0.06	Syne2	-1.06
Plch2	0.81	D6Wsu116e	0.26	Cadm4	-0.06	Cenpi	-1.06

AI480526	0.81	Uevld	0.26	Cnpy3	-0.06	Cntnap1	-1.06
Rab38	0.81	Slc46a3	0.26	Ythdc2	-0.06	4930486L24Rik	-1.06
Scp2	0.81	Map2k2	0.26	Pqlc2	-0.06	A930004D18Rik	-1.06
Cd59a	0.81	D19Bwg1357e	0.26	Shkbp1	-0.06	Raet1d	-1.07
Vps33b	0.81	Smc3	0.26	7-Mar	-0.06	Trf	-1.07
Fam73b	0.81	Dnajc21	0.26	Cdc20	-0.06	Pdk1	-1.07
Eif3g	0.81	Slc19a2	0.26	Tmx3	-0.06	Kif14	-1.07
Lpl	0.81	Galk2	0.26	Pmm1	-0.06	Sp140	-1.07
Trim68	0.81	Slx4	0.26	Tbc1d10b	-0.06	Tmem88	-1.07
1190002N15Rik	0.81	Gm10020	0.26	Pkmyt1	-0.06	Gab3	-1.07
Gm11944	0.81	Med17	0.26	Chst11	-0.06	Thy1	-1.07
Notum	0.81	Mtch2	0.26	Ctu2	-0.06	Trbj1-5	-1.07
Tpt1	0.81	Pnpla8	0.26	Ddb2	-0.06	Traj31	-1.07
Gabbr3	0.81	Cx3cr1	0.26	Clasrp	-0.06	Gm10973	-1.07
Gm16136	0.81	Lcorl	0.26	Insl6	-0.06	Rapgef5	-1.08
Impdh2	0.81	Bcl9l	0.26	Adss	-0.06	Abcd1	-1.08
Mll2	0.81	Lsm14b	0.26	Pus10	-0.06	Fads2	-1.08
Klhl23	0.80	Med4	0.26	H2-DMb1	-0.06	Gm4951	-1.08
Sptlc3	0.80	Rbbp8	0.26	Ralgapa2	-0.06	Adamts9	-1.08
Ngrn	0.80	Kat2b	0.26	Usp9x	-0.06	Cbx7	-1.08
Rad52	0.80	Entpd7	0.26	Gtse1	-0.06	Abcc4	-1.08
Hspa1a	0.80	Tmem93	0.26	Sugp2	-0.06	Gmip	-1.08
H2-Eb1	0.80	Pwp1	0.26	Rfx5	-0.06	Apoe	-1.09
Ngef	0.80	Tmem85	0.26	X99384	-0.06	Sfrp2	-1.09
Snhg7	0.80	Fbxo6	0.26	Zcchc6	-0.06	Ptpn6	-1.09
Tmx2	0.80	Sharpin	0.26	1110038F14Rik	-0.06	Casp4	-1.09
Cd3eap	0.80	Gm10073	0.26	Poc5	-0.06	Mis18bp1	-1.09
Dsc2	0.80	Pcmt1d1	0.26	Zfp592	-0.06	Ednrb	-1.09
Vps41	0.80	Luc7l2	0.26	Dip2c	-0.06	Gpr34	-1.09
Zfr2	0.80	Plekhg6	0.26	Pdlim2	-0.06	Tmem176a	-1.09
Clca3	0.80	Timm44	0.26	Pdzk1ip1	-0.06	Prex1	-1.10
Phldb3	0.80	Cad	0.26	Pdzd11	-0.06	Klhl29	-1.10
Ahsa2	0.80	A230050P20Rik	0.26	Ttc8	-0.06	Steap2	-1.10
Plekhh2	0.80	Fzd7	0.26	Myo1e	-0.06	Cldn1	-1.10
Upf3b	0.80	Pex5	0.26	Spsb1	-0.06	Mpeg1	-1.10
Ndufa12	0.80	Eps15l1	0.26	Sgk1	-0.06	2810405K02Rik	-1.10
Sntb1	0.80	Srsf4	0.26	Fxn	-0.06	Gal3st1	-1.10
Hspa2	0.79	Znrf2	0.26	Triap1	-0.06	Lmcd1	-1.10
Mpped2	0.79	Nono	0.26	Slc44a2	-0.06	Pecam1	-1.10
Sssca1	0.79	Atg5	0.25	Umps	-0.06	Gprc5c	-1.10
Dusp2	0.79	Trmt6	0.25	Hoxd10	-0.06	Clip2	-1.10
Pdia6	0.79	Aggf1	0.25	Gm3150	-0.06	Pcsk6	-1.10
Slc52a3	0.79	Abcb6	0.25	Oas1b	-0.06	Hpse	-1.10

Zfhx3	0.79	Tab3	0.25	Mcrs1	-0.06	Elmo1	-1.10
Polr3g	0.79	Kdm4c	0.25	Clcn6	-0.06	Kdelc2	-1.11
Zfp930	0.79	Wbp1	0.25	Dnmt1	-0.06	Ppp2r3a	-1.11
Prr3	0.79	Rnf219	0.25	Ddx19a	-0.06	Nrg1	-1.11
Ticam1	0.79	Tcf12	0.25	Lrrc59	-0.06	Pfcp	-1.11
Safb2	0.79	Neat1	0.25	Tmem231	-0.06	Por	-1.11
Osbpl7	0.79	Herc2	0.25	Ifit1	-0.06	Filip1l	-1.11
Zap70	0.79	Frg1	0.25	Uchl1	-0.06	Notch2	-1.11
Scnn1b	0.79	Dhx16	0.25	Hnrnpul1	-0.07	Tnfrsf14	-1.11
Dok4	0.79	Trim27	0.25	Zfp607	-0.07	Capn2	-1.11
Bbc3	0.79	Sox12	0.25	Atxn1l	-0.07	Hpgds	-1.11
Eif2c2	0.79	Acbd6	0.25	Klhl8	-0.07	Dusp3	-1.11
1700113A16Rik	0.79	Flywch1	0.25	Mtap4	-0.07	Plcd1	-1.11
Eif3j	0.79	Fnta	0.25	Zfp68	-0.07	2810408l11Rik	-1.11
Larp7	0.78	Plk2	0.25	3110052M02Rik	-0.07	Cldn7	-1.11
Acyp1	0.78	Parn	0.25	Slco1a5	-0.07	Slc16a3	-1.11
Mfsd7c	0.78	Gdi1	0.25	Lrfn4	-0.07	Sncg	-1.11
Ormdl2	0.78	Mybbp1a	0.25	Gxytl2	-0.07	Fzd4	-1.11
Rps21	0.78	Trmt12	0.25	Dennd2a	-0.07	Rinl	-1.11
Mgat4b	0.78	Sc4mol	0.25	Aldh16a1	-0.07	Tnfaip8l1	-1.11
Fam55b	0.78	Srbd1	0.25	Cbx5	-0.07	Lepr	-1.11
Mrpl50	0.78	Zfand1	0.25	Zfp93	-0.07	Krt80	-1.12
Rps29	0.78	Csnk1g3	0.25	Tmem229b	-0.07	Tmem154	-1.12
1700106N22Rik	0.78	Meaf6	0.25	Zfand3	-0.07	Ptprj	-1.12
Tomm40	0.78	Pacs2	0.25	2310044H10Rik	-0.07	Mtss1	-1.12
Dnase2a	0.78	Chid1	0.25	2900053A13Rik	-0.07	Cd3d	-1.12
Fam113b	0.78	Ebp	0.25	Wsb2	-0.07	Fmnl3	-1.12
Smpdl3b	0.78	Anxa7	0.25	Arnt	-0.07	Snrpn	-1.12
Acss2	0.77	1810031K17Rik	0.25	BC003331	-0.07	Ldb2	-1.12
Zfp579	0.77	Mrps17	0.25	Mospd1	-0.07	Sox18	-1.12
Txndc17	0.77	Tead4	0.25	Gm4885	-0.07	E130303B06Rik	-1.12
Rpl35	0.77	Ap3d1	0.25	Ypel5	-0.07	Rab8b	-1.13
Sfpq	0.77	Fam115a	0.25	Malat1	-0.07	Pla2g15	-1.13
Tnpo2	0.77	Klf11	0.25	Dtnb	-0.07	Gabrp	-1.13
Mia2	0.77	Gabpa	0.25	Ykt6	-0.07	Crat	-1.13
Rbm47	0.77	Rilpl1	0.25	Eci2	-0.07	Fam151b	-1.13
Rps12	0.77	Smcr7l	0.25	Spata7	-0.07	Trem14	-1.13
Adat1	0.77	Idh3a	0.25	Commd3	-0.07	Fam129a	-1.13
Neto2	0.77	Ttc37	0.25	Mtx3	-0.07	Gm14420	-1.13
Cstf3	0.77	Asb16	0.25	Dbf4	-0.07	Hsd3b7	-1.13
Rpl14	0.77	Hmbox1	0.25	Elf5	-0.07	Sec14l4	-1.13
Dnm3	0.77	Dpp9	0.25	Hectd3	-0.07	Ly6a	-1.13
Pim2	0.77	Nr2c2	0.25	Tatdn1	-0.07	Tbc1d2b	-1.14

Fcamr	0.77	Plekhj1	0.25	BC018242	-0.07	Sdcbp2	-1.14
Myef2	0.77	Naa25	0.25	Man2a1	-0.07	Tnfrsf18	-1.14
Ppia	0.77	Edc4	0.25	Caskin2	-0.07	Fmo2	-1.14
Il17rc	0.77	1700040I03Rik	0.25	Rcbtb1	-0.07	Dzip1	-1.14
Ggt7	0.76	Suv420h2	0.25	Hsd17b11	-0.07	D17H6S56E-5	-1.14
Dexi	0.76	Os9	0.25	Haus7	-0.07	Lrrc8c	-1.14
Acp6	0.76	Pdpk1	0.25	Cnot6	-0.07	Tll1	-1.14
Ndufa5	0.76	Ndufb3	0.25	Ppp5c	-0.07	Adamts13	-1.14
S100a14	0.76	Phf12	0.25	Al661453	-0.07	Akr1b8	-1.14
Hsp90b1	0.76	Nln	0.25	Stradb	-0.07	Apln	-1.14
Fhl2	0.76	1810058I24Rik	0.25	Dis3l	-0.07	Tspyl3	-1.14
Tmtc4	0.76	Matr3	0.25	Smox	-0.07	Acer2	-1.15
Trbj1-7	0.76	Taok2	0.25	Med23	-0.07	Mylk	-1.15
5S_rRNA	0.76	Zdhhc6	0.25	Zfp276	-0.07	Galnt9	-1.15
Tulp2	0.76	Ispd	0.25	Gosr2	-0.07	Gpr157	-1.15
Srek1ip1	0.76	Tmem126b	0.25	Socs6	-0.07	Ube2l6	-1.15
Bphl	0.76	Hint3	0.25	Egln2	-0.07	Muc13	-1.15
Cldn8	0.76	Tdp2	0.25	Obfc2b	-0.07	Tbc1d1	-1.15
Drg2	0.76	Eprs	0.25	Gm4285	-0.07	Itga4	-1.15
Stat5a	0.76	Caprin2	0.25	Narfl	-0.07	Dock10	-1.15
Eef1g	0.76	Arid3b	0.25	Hcfc2	-0.07	Btla	-1.15
2700097O09Rik	0.76	Csnk2a2	0.25	Tgfbrap1	-0.07	Cspg4	-1.15
Fgf1	0.76	Nup107	0.25	Tnks1bp1	-0.07	Ctps	-1.15
Mark1	0.76	Edf1	0.25	Armcx2	-0.07	Pde1b	-1.15
Fam171a1	0.76	Golga1	0.25	Drap1	-0.07	Ifi47	-1.15
Zfp59	0.76	Fam36a	0.25	0610040J01Rik	-0.07	Car13	-1.16
Gm16065	0.76	Asf1a	0.25	Kidins220	-0.07	Lair1	-1.16
Gm16266	0.76	Mitd1	0.25	Jmjd1c	-0.07	1810011H11Rik	-1.16
4632433K11Rik	0.75	Tbp	0.25	Sema4b	-0.07	Ptrf	-1.16
Tmem170	0.75	Rbm12	0.25	Tsc22d2	-0.07	Fam107b	-1.16
2810004N23Rik	0.75	Zfp277	0.25	Lasp1	-0.07	Pcsk5	-1.16
Dus4l	0.75	Ankrd49	0.25	Al428936	-0.07	Zbtb46	-1.16
Tmem97	0.75	Crnk1	0.25	lkbkb	-0.07	Lpcat1	-1.16
Comt	0.75	2700050L05Rik	0.25	Coro2b	-0.07	Tm7sf3	-1.16
Zfp322a	0.75	Abcb10	0.25	Ddx52	-0.07	Tyro3	-1.16
2610019F03Rik	0.75	Tmem214	0.25	Dnalc4	-0.07	Tacc1	-1.16
Hsf2	0.75	Actn4	0.25	2010012O05Rik	-0.07	Cep55	-1.16
Tacstd2	0.75	Nif3l1	0.25	Raf1	-0.07	Relb	-1.17
Gpatch4	0.75	Hnrnpa3	0.25	2410004B18Rik	-0.07	Dsel	-1.17
Nmt2	0.75	Pdcd5	0.25	Mmgt1	-0.07	Nup210	-1.17
Ccdc92	0.75	Ar	0.25	Deptor	-0.07	Itfg3	-1.17
Med22	0.75	Lage3	0.25	Echs1	-0.07	Bex1	-1.17
Lyplal1	0.75	2510003E04Rik	0.25	Higd1a	-0.07	Hip1	-1.17

Slc7a4	0.75	Med20	0.25	Commd4	-0.07	Mki67	-1.17
Ncdn	0.75	Tmem59	0.25	Tuba1a	-0.07	Wdfy1	-1.18
Snx25	0.75	Tmem66	0.25	Ankrd32	-0.07	Iqgap2	-1.18
Cdh3	0.75	Dohh	0.25	Rab11fip4	-0.07	Il15ra	-1.18
Prr15l	0.75	Usp24	0.25	Usp47	-0.07	Gpr65	-1.18
Klhdc1	0.75	Tmem54	0.25	Zfp738	-0.07	Pqlc1	-1.18
Alcam	0.75	Dhx15	0.25	Csk	-0.07	Tspan2	-1.18
Ercc2	0.75	Rtn4	0.25	Zdhhc3	-0.07	Ly6c1	-1.18
Nop58	0.75	Gm11273	0.25	Gm19357	-0.07	Ankrd44	-1.18
Ccbl1	0.75	Ampd2	0.25	Cldn25	-0.07	Stat4	-1.18
Zfp612	0.74	Fam179b	0.25	Dusp5	-0.08	Stat3	-1.18
Lsr	0.74	Zfp865	0.25	Slc35b2	-0.08	Rnf144b	-1.18
Avil	0.74	Fam188b	0.25	Lpin2	-0.08	Adamts14	-1.18
Hsp90ab1	0.74	Tstd2	0.25	Cfl2	-0.08	Ptpdc1	-1.18
Zfp566	0.74	Mxi1	0.25	Lpin3	-0.08	Wipf1	-1.18
Shroom3	0.74	2310011J03Rik	0.25	Ywhaq	-0.08	Gas6	-1.18
Pkp1	0.74	Esrra	0.25	Ndst2	-0.08	Igfbp3	-1.18
BC057079	0.74	Naga	0.25	Oxct1	-0.08	Slc16a2	-1.19
Rpl9-ps6	0.74	4933439C10Rik	0.25	4933421E11Rik	-0.08	Socs1	-1.19
Phlda3	0.74	Lrrc57	0.25	Fosl1	-0.08	Prdm5	-1.19
Tesk2	0.74	1700037H04Rik	0.25	Setd2	-0.08	Notch4	-1.19
Tceal8	0.74	D2Wsu81e	0.25	Cenpq	-0.08	Hoxd8	-1.19
Eef1b2	0.74	Fgfr1op	0.25	Ogfr1	-0.08	Nt5c2	-1.19
Phka2	0.74	Atp5j2	0.25	Prpf4	-0.08	Emcn	-1.19
Ptch1	0.74	B4galnt1	0.25	Flii	-0.08	Itga5	-1.19
St14	0.74	Cpt1a	0.25	C630043F03Rik	-0.08	Lrig3	-1.19
2610044O15Rik	0.74	Gcc1	0.25	Cbfa2t2	-0.08	Prkd1	-1.19
Psmg3	0.74	Haus3	0.25	Arl2bp	-0.08	Plxnd1	-1.19
Kitl	0.74	Gm6169	0.25	Rprd1a	-0.08	Atp1a3	-1.19
Amotl1	0.74	Slc25a44	0.25	Isca2	-0.08	Dlc1	-1.19
Grhl2	0.73	Fbxo22	0.25	Topors	-0.08	Olfml2b	-1.19
Rplp2-ps1	0.73	AW555464	0.25	Epc2	-0.08	Lipk	-1.20
Ddr1	0.73	Pank3	0.25	Gtf3a	-0.08	Ugcg	-1.20
Ubqln4	0.73	Eftud2	0.25	Fastkd2	-0.08	Gas2l3	-1.20
2310030G06Rik	0.73	Chd2	0.25	Pcdhb14	-0.08	Ada	-1.20
Fbxl19	0.73	Ipp	0.25	Ppp2cb	-0.08	BC005764	-1.20
Ppp1r14b	0.73	Wdr45	0.25	Cybasc3	-0.08	Zfp651	-1.20
Slc33a1	0.73	Cep76	0.25	A630007B06Rik	-0.08	Wdfy4	-1.20
Mphosph8	0.73	Ddx47	0.24	Ier3ip1	-0.08	Dtx4	-1.20
Akap17b	0.73	Rnf166	0.24	9530008L14Rik	-0.08	Car5b	-1.20
Tet3	0.73	Tmem62	0.24	Taok1	-0.08	Slc23a3	-1.20
Tle1	0.73	Srp72	0.24	Ccdc66	-0.08	Nin	-1.20
Mettl8	0.73	Clstn1	0.24	6330408A02Rik	-0.08	Arap3	-1.20

Esrp2	0.73	Spin1	0.24	Rab13	-0.08	Prrg4	-1.21
Acad8	0.73	Ado	0.24	Dmpk	-0.08	Hoxb3	-1.21
Pomgnt1	0.73	Dedd	0.24	mt-Nd6	-0.08	Gm7694	-1.21
Hoxa2	0.73	Ndufa3	0.24	Atg7	-0.08	A430104N18Rik	-1.21
Cd74	0.73	Trim39	0.24	Xrn1	-0.08	Plod3	-1.21
H2-Aa	0.73	Prmt6	0.24	Arhgap27	-0.08	Pou3f3	-1.21
Nr1d2	0.73	Ighmbp2	0.24	S100a6	-0.08	Pard3b	-1.21
Calr	0.73	Ccdc157	0.24	Fam63b	-0.08	Hk2	-1.21
Fam83b	0.73	Ik	0.24	4930415O20Rik	-0.08	Tubb6	-1.21
Gltpd1	0.73	6430573F11Rik	0.24	Tmsb4x	-0.08	Ehd2	-1.21
Celf1	0.73	Iars	0.24	Hnrnp2	-0.08	Mtap6	-1.21
Srek1	0.73	Pop1	0.24	Dhcr7	-0.08	Plcg2	-1.21
Gm15545	0.73	Tfb2m	0.24	Vcl	-0.08	Nlrc5	-1.21
Plekhg1	0.73	2610528B01Rik	0.24	Cyp4f16	-0.08	Map3k8	-1.22
Ctage5	0.73	Cmpk1	0.24	9630033F20Rik	-0.08	Tubb4a	-1.22
Dock5	0.73	Mfsd10	0.24	Med16	-0.08	Efna5	-1.22
Depdc5	0.73	Apol9a	0.24	Sorcs2	-0.08	Cnn2	-1.22
Nudt14	0.73	Timm23	0.24	Tor1aip1	-0.08	Tmem14a	-1.22
Elovl7	0.73	Zfp710	0.24	Madd	-0.08	Slfn8	-1.22
Tead2	0.73	Cox15	0.24	C85492	-0.08	Tspyl4	-1.22
Tbccd1	0.73	Zmynd17	0.24	Fam190a	-0.08	Gm3222	-1.22
Rftn2	0.73	Sh3bp5l	0.24	Map3k2	-0.08	Ifnar2	-1.22
Socs7	0.73	Hars	0.24	Ikzf2	-0.08	Pros1	-1.22
1500011B03Rik	0.73	Nudt16l1	0.24	Isoc1	-0.08	Col6a2	-1.22
Rps5	0.73	Dda1	0.24	1700020I14Rik	-0.08	Lor	-1.22
Tarsl2	0.73	Ilf2	0.24	Tsc1	-0.08	Eif5a2	-1.22
Tmem218	0.73	Ndufa9	0.24	Tmem177	-0.08	Cav1	-1.22
Hspa8	0.72	Gatad2b	0.24	Mid1	-0.08	Habp2	-1.22
Slco4c1	0.72	Psmg1	0.24	Sdc2	-0.08	Gsg2	-1.23
Cdkn1a	0.72	Prkrir	0.24	Vmac	-0.08	Sh3pxd2b	-1.23
Setd6	0.72	Psmg1	0.24	Tmem138	-0.08	Bub1	-1.23
Pja2	0.72	Rad23b	0.24	Oxr1	-0.09	Nynrin	-1.23
Hdac2	0.72	Coq4	0.24	Prps1	-0.09	Dok1	-1.23
Derl3	0.72	Gm14966	0.24	Lamp2	-0.09	Tbc1d24	-1.23
Dynll2	0.72	D4Bwg0951e	0.24	D19Wsu162e	-0.09	Arl11	-1.23
Prps113	0.72	Eif3m	0.24	Tctex1d2	-0.09	Igfbp7	-1.23
Hsd12	0.72	Wbp11	0.24	Pold1	-0.09	Acpp	-1.23
Trabd	0.72	Ndufa10	0.24	Tmem30a	-0.09	Arntl	-1.23
Gdap10	0.72	Pigx	0.24	Ripk1	-0.09	Gyg	-1.23
1110001J03Rik	0.72	Ccdc55	0.24	Gm9493	-0.09	Iqsec1	-1.23
Plcb3	0.72	Smarce1	0.24	Ccnc	-0.09	Cd34	-1.23
Stx3	0.72	Tac2	0.24	Arfgef2	-0.09	2610002D18Rik	-1.23
Tspan12	0.72	Zbtb5	0.24	Lmbr1	-0.09	Car11	-1.23

Zfp213	0.72	Papd5	0.24	2010111I01Rik	-0.09	Cpt1c	-1.23
Cdh13	0.72	Ube2g2	0.24	Cdc14b	-0.09	Fndc3b	-1.23
Gm9833	0.72	Azi2	0.24	Agk	-0.09	Enpp3	-1.23
Prpf3	0.72	Marcks	0.24	Vti1a	-0.09	Gbp2	-1.24
Gm9958	0.72	Pafah1b2	0.24	Fzd5	-0.09	Cnfn	-1.24
Gm5239	0.72	Zfp7	0.24	Emd	-0.09	Eif4ebp1	-1.24
Tcf7	0.72	1810062G17Rik	0.24	Acot13	-0.09	Ndufa4l2	-1.24
Zfp661	0.72	Gm14102	0.24	Cep63	-0.09	Glt25d1	-1.24
Atf7ip	0.72	Zc3hc1	0.24	Slc27a1	-0.09	Gm16206	-1.24
Hoxa3	0.72	Ogdh	0.24	Gtf2a2	-0.09	Tiam1	-1.24
Dapk2	0.72	Kdm5a	0.24	Cnpy4	-0.09	Gch1	-1.24
Evl	0.72	Cnot4	0.24	Tbc1d19	-0.09	Fads1	-1.24
0610011F06Rik	0.72	Jub	0.24	Chic2	-0.09	1810010H24Rik	-1.24
Nop16	0.72	Taf1b	0.24	Usp6nl	-0.09	Card14	-1.24
Pqbp1	0.72	H3f3a	0.24	Itfg1	-0.09	Tnfaip8	-1.24
Mtus1	0.72	Pitpnb	0.24	Ints12	-0.09	Foxred2	-1.25
Mis12	0.72	Gpatch2	0.24	Rph3al	-0.09	Prcp	-1.25
Txnrd2	0.72	Gm9774	0.24	Tcf7l1	-0.09	Osr1	-1.25
Vamp5	0.72	Ddx46	0.24	Dek	-0.09	Chpf	-1.25
Med28	0.72	Mboat1	0.24	Cluap1	-0.09	6530402F18Rik	-1.25
Phf19	0.71	Zfp74	0.24	Prpf8	-0.09	She	-1.25
H2-Ab1	0.71	Zfp830	0.24	Kdm2b	-0.09	Lynx1	-1.25
Trmt61b	0.71	Pdrg1	0.24	Tanc1	-0.09	Ltc4s	-1.25
Ublcp1	0.71	2210404O07Rik	0.24	Lrrc28	-0.09	Rnf19b	-1.25
Zfp444	0.71	1600021P15Rik	0.24	Socs2	-0.09	Plat	-1.25
Sytl4	0.71	Actr1a	0.24	Pcdhb5	-0.09	Prss22	-1.25
Mmp24	0.71	Plxna2	0.24	Evi5	-0.09	Alpk1	-1.25
Gm12359	0.71	Glyr1	0.24	Prr24	-0.09	Anub11	-1.25
Lce3f	0.71	2310044G17Rik	0.24	Gm4840	-0.09	Bcl2l11	-1.25
Luc7l3	0.71	Tnrc6c	0.24	Zfp953	-0.09	Rasip1	-1.25
Ap3m2	0.71	Gsk3b	0.24	Rgmb	-0.09	4933404M02Rik	-1.25
Tmem205	0.71	9130219A07Rik	0.24	Gpd1l	-0.09	Pak6	-1.25
Lass6	0.71	Paip2	0.24	Zfp595	-0.09	Sept9	-1.25
Pttg1	0.71	Smad5	0.24	Cltc	-0.09	5730409E04Rik	-1.25
Rtn4rl1	0.71	Ptk2	0.24	Dleu2	-0.09	Dhrs3	-1.25
Crym	0.71	1700030K09Rik	0.24	Msh6	-0.09	Prrx1	-1.25
Zfp704	0.71	4930430F08Rik	0.24	Zfp948	-0.09	Kdr	-1.25
S100a4	0.71	Nup54	0.24	Sepw1	-0.09	Nrm	-1.25
Gigyf1	0.71	AW112010	0.24	Qsox2	-0.09	Arhgef40	-1.26
Gas5	0.71	Rngtt	0.24	B9d2	-0.09	Cytip	-1.26
Atp5g1	0.71	Gm17066	0.24	Aup1	-0.09	Ctsc	-1.26
Grwd1	0.71	C1galt1c1	0.24	Mfsd11	-0.09	Tfpi	-1.26
Tspan13	0.71	Slc25a36	0.24	Phc2	-0.09	Icam2	-1.26

Nudt2	0.71	Nubp2	0.24	Ptpmt1	-0.09	Gimap4	-1.26
Gm15800	0.71	Myo19	0.24	Nfrkb	-0.09	Palmd	-1.26
Gtf2h3	0.71	Zfp952	0.24	Rif1	-0.09	Ero1lb	-1.27
Gjb1	0.71	Rps27l	0.24	Idh1	-0.09	Bicc1	-1.27
Rpl18	0.71	Yars2	0.24	Alg10b	-0.09	Il33	-1.27
Otud6b	0.71	Il7	0.24	Mars	-0.09	Mdfi	-1.27
Mri1	0.71	Lrwd1	0.24	Rabggta	-0.09	Mxra7	-1.27
9930104L06Rik	0.71	Kng1	0.24	Epha1	-0.09	B4galt6	-1.27
Aldh7a1	0.71	Zfp759	0.24	Orai2	-0.09	Rgs16	-1.27
Zbtb16	0.71	Ccnt1	0.24	Serf2	-0.09	Neurl2	-1.27
Lpar5	0.70	N4bp3	0.24	Plcb4	-0.09	Gatsl2	-1.27
Jmjd5	0.70	Ndufs4	0.24	Ppp2r5c	-0.09	Pdzd2	-1.27
Yod1	0.70	Cops5	0.24	Cep120	-0.09	Fez2	-1.27
Nop2	0.70	Med14	0.24	2500004C02Rik	-0.09	C1qtnf2	-1.27
Dhodh	0.70	Caprin1	0.24	Snx29	-0.09	Map3k15	-1.27
Taf3	0.70	Ssr2	0.24	Klf10	-0.09	Dse	-1.27
Ptcd2	0.70	Coq5	0.24	Chd1	-0.09	Epb4.1l2	-1.27
Rbms3	0.70	Ccdc71	0.24	Hddc3	-0.09	Nav1	-1.28
Ubl4	0.70	1700123O20Rik	0.24	Ttc35	-0.09	H19	-1.28
Mmp12	0.70	Mrps26	0.24	Syap1	-0.10	Tcirg1	-1.28
Hsd17b7	0.70	Psma2	0.24	Decr2	-0.10	Syt11	-1.28
Ankrd24	0.70	Commd2	0.24	Zfp750	-0.10	Sik1	-1.28
Maml3	0.70	E430018J23Rik	0.24	Il1r1	-0.10	Ctss	-1.28
Pabpc4	0.70	Znfx1	0.24	Mansc1	-0.10	Ncf2	-1.28
Sppl3	0.70	Trub2	0.24	Diap3	-0.10	C1qtnf9	-1.28
Fam134c	0.70	Gorasp1	0.24	Manbal	-0.10	Ramp2	-1.28
Yif1b	0.70	Zfp715	0.24	Aldoart1	-0.10	Stambpl1	-1.28
2210016L21Rik	0.70	Mpg	0.24	Mpp2	-0.10	Prnp	-1.28
Txlna	0.70	Mettl10	0.24	Efha1	-0.10	Sh3bp2	-1.28
Efnb2	0.70	Vasn	0.24	Npff	-0.10	Adcy3	-1.28
Gm9755	0.70	Ndufa13	0.24	Rab15	-0.10	Akap12	-1.28
Tnfrsf12a	0.70	Usp14	0.24	4932415G12Rik	-0.10	Mfng	-1.28
Nmb	0.70	Pfn1	0.24	D1Ert622e	-0.10	Pcdh17	-1.28
1700011J10Rik	0.70	n-R5s189	0.24	Trim8	-0.10	Rab32	-1.28
Gm5595	0.70	Fndc3a	0.24	Gm6055	-0.10	Serpinb9	-1.29
Gm9843	0.70	Smg6	0.24	Zbtb22	-0.10	Aldh1l1	-1.29
Fam60a	0.70	Cldn12	0.24	Ltv1	-0.10	Lgals9	-1.29
Noc4l	0.70	Psmd9	0.23	Commd1	-0.10	Cebpb	-1.29
Dcun1d4	0.70	Ophn1	0.23	Phlpp2	-0.10	Runx3	-1.29
Slc35d2	0.70	Rnf10	0.23	3830406C13Rik	-0.10	Rab11fip5	-1.29
Gsto1	0.70	AW209491	0.23	Dgkz	-0.10	Ntpcr	-1.29
Gmcl1	0.70	Tmem184c	0.23	Pdzd8	-0.10	Arhgap19	-1.30
Rpl13a-ps1	0.69	Tspan31	0.23	Cyp27a1	-0.10	Gfra1	-1.30

Zfp9	0.69	1110004F10Rik	0.23	Pttg1ip	-0.10	9530003J23Rik	-1.30
BC042782	0.69	Klhdc10	0.23	Lta4h	-0.10	Arl5c	-1.30
Cks1b	0.69	Jmjd4	0.23	Med26	-0.10	Gpx3	-1.30
Prrc2b	0.69	Mmab	0.23	Dopey1	-0.10	Tnfaip3	-1.30
Evc2	0.69	Tceb1	0.23	Zfp85-rs1	-0.10	Tie1	-1.30
Ccnd1	0.69	Tmem106b	0.23	Ccne2	-0.10	Gpd1	-1.30
Pcbp3	0.69	Endod1	0.23	Zfp709	-0.10	Unc93b1	-1.30
Rplp2	0.69	Fam76a	0.23	Atp6ap2	-0.10	F830016B08Rik	-1.30
Exosc3	0.69	Hdlbp	0.23	Zdhhc16	-0.10	Samd9l	-1.30
Rpl21-ps4	0.69	Zfp280d	0.23	Sigirr	-0.10	Ppm1j	-1.30
Ddx55	0.69	Irak1	0.23	Thns1	-0.10	Dennd2d	-1.30
2700038G22Rik	0.69	Ubap2l	0.23	A230046K03Rik	-0.10	Plod2	-1.30
Zfp950	0.69	Echdc2	0.23	Coro1b	-0.10	Dgat1	-1.31
Hdac5	0.69	1110034B05Rik	0.23	Ccdc41	-0.10	Sema3d	-1.31
1810022K09Rik	0.69	Drosha	0.23	Fus	-0.10	Arsg	-1.31
Nipsnap3b	0.69	Mtx1	0.23	Rbm33	-0.10	Tmem63a	-1.31
Prkci	0.69	B3gnt1	0.23	Tbc1d2	-0.10	Ctsk	-1.31
Cd200r3	0.69	Dnajc9	0.23	Aste1	-0.10	H2-Q6	-1.31
Tex15	0.69	Elk1	0.23	Rab28	-0.10	Al427809	-1.31
Creg2	0.69	Wfs1	0.23	Arpc2	-0.10	Msn	-1.31
Dapk1	0.69	Max	0.23	Als2cr4	-0.10	Trbv13-2	-1.31
Fam203a	0.69	Nvl	0.23	Nufip1	-0.10	Elt1	-1.31
Rpl13	0.69	Rnf4	0.23	Fam46a	-0.10	Zfp820	-1.31
Akr1b3	0.69	Otub1	0.23	Rcbtb2	-0.10	Zfp608	-1.31
Uba52	0.69	Rcc2	0.23	Fam82b	-0.10	Tnni2	-1.32
Gm129	0.69	Dstn	0.23	Gm17690	-0.10	Tnni3	-1.32
Pus7	0.69	Ndufs3	0.23	Acot9	-0.10	Lat2	-1.32
Rassf7	0.69	Actg1	0.23	Herc4	-0.10	Mcoln2	-1.32
Enoph1	0.69	Hdac8	0.23	Bin1	-0.10	Cd69	-1.32
Fut2	0.69	Atf7ip	0.23	Gfpt1	-0.10	Nuf2	-1.32
Armc6	0.69	Tmem115	0.23	Cdk2	-0.10	Plcb1	-1.32
Mir17hg	0.69	Abcf2	0.23	Usp45	-0.10	Arnt2	-1.32
Aplf	0.69	Ttc4	0.23	Usp42	-0.10	Il27ra	-1.32
Eepd1	0.68	Gpbp1	0.23	Tmsb10	-0.10	Arid3a	-1.32
Purb	0.68	Nt5c3l	0.23	Kctd6	-0.10	Mocos	-1.33
Tsga14	0.68	Bccip	0.23	Numa1	-0.10	Pkn3	-1.33
Elmod3	0.68	Thap11	0.23	Snapc5	-0.10	Entpd1	-1.33
Nolc1	0.68	RP23-102L5.1	0.23	Srrd	-0.10	Prr5	-1.33
Fau	0.68	Ddx21	0.23	Zzef1	-0.10	Rgs11	-1.33
Mettl15	0.68	Decr1	0.23	Psen1	-0.10	Rnf130	-1.33
Gm6578	0.68	Zfp618	0.23	Cul7	-0.10	Sept5	-1.33
Gm15717	0.68	Pvt1	0.23	Anapc5	-0.10	Csrnp1	-1.33
Ppp1r13b	0.68	Sar1b	0.23	Rela	-0.10	Errfi1	-1.33

5430416N02Rik	0.68	6030458C11Rik	0.23	Dera	-0.10	H2-Q7	-1.33
Kti12	0.68	Slain2	0.23	Nmd3	-0.10	Tubg2	-1.33
Gm9781	0.68	4732418C07Rik	0.23	Dtx2	-0.10	Zfp429	-1.33
Chchd7	0.68	Zkscan14	0.23	Ppp1r12b	-0.10	Spats2l	-1.34
Zbtb2	0.68	Sh2d4a	0.23	Avl9	-0.10	Lcp1	-1.34
Exo1	0.68	H2afv	0.23	Mkl1	-0.10	Pkia	-1.34
Naa35	0.68	Aatf	0.23	Fmr1	-0.10	Pqlc3	-1.34
Kbtbd8	0.68	Otud5	0.23	Exoc2	-0.10	Smtn	-1.34
Bid	0.68	Arsk	0.23	Itpripl2	-0.10	H2-M3	-1.34
Mtmr10	0.68	Agpat3	0.23	Smchd1	-0.11	Lhx6	-1.34
C030037D09Rik	0.68	Nr2c1	0.23	Fance	-0.11	Foxc1	-1.34
Acot8	0.68	Klhl26	0.23	Pramef8	-0.11	Rab30	-1.34
Safb	0.68	E330009J07Rik	0.23	Ankrd46	-0.11	Pitpnc1	-1.34
Gstk1	0.68	Gapvd1	0.23	2900026A02Rik	-0.11	Vcan	-1.34
Dnajb14	0.68	Ric8b	0.23	Prorsd1	-0.11	Metrn	-1.34
Rbm14	0.68	C030034I22Rik	0.23	Zfp62	-0.11	Ugt1a1	-1.34
Cav2	0.68	Vps45	0.23	2210020M01Rik	-0.11	Adamts6	-1.34
Rabggtb	0.68	Rab1	0.23	Mov10	-0.11	Bdh2	-1.34
Esf1	0.68	2700029M09Rik	0.23	2200002D01Rik	-0.11	Cyba	-1.35
Zc3h8	0.68	Klhdc3	0.23	Nsun4	-0.11	Ptpn7	-1.35
Gm17388	0.68	Lysmd2	0.23	Snx11	-0.11	Atl1	-1.35
Cyp2e1	0.68	Rars2	0.23	Pik3ap1	-0.11	Nos3	-1.35
Pdia3	0.68	Zfp238	0.23	2410089E03Rik	-0.11	Plac8	-1.35
Cdc73	0.68	Polg2	0.23	5730494M16Rik	-0.11	Tead1	-1.35
Mxd4	0.68	Prdm4	0.23	Ttc32	-0.11	2010016I18Rik	-1.35
Rnf149	0.68	Tysnd1	0.23	Tcf20	-0.11	Dusp4	-1.35
Ttc38	0.68	Fuca2	0.23	Fgfr1op2	-0.11	Lama4	-1.35
Cbx1	0.68	Mzt1	0.23	Cyb5r3	-0.11	Hoxb5	-1.35
Ftsj3	0.68	Stap2	0.23	Ppp1r15b	-0.11	Layn	-1.36
Fzd3	0.67	Ndufc1	0.23	Mbip	-0.11	S100a13	-1.36
AK129341	0.67	Stat2	0.23	Enox2	-0.11	Cdkn2c	-1.36
Snrnp70	0.67	Nudt1	0.23	Ier2	-0.11	Nrp2	-1.36
Rnf181	0.67	Pak1ip1	0.23	Akt1	-0.11	Clmn	-1.36
Sltm	0.67	Zfp64	0.23	Gm8841	-0.11	Pcdh19	-1.36
Cyth2	0.67	Nup155	0.23	Trappc10	-0.11	Sbno2	-1.36
Zbtb10	0.67	Prdm2	0.23	2410001C21Rik	-0.11	Trac	-1.36
Lars	0.67	Fgd6	0.23	Slc5a1	-0.11	Agps	-1.36
Clpb	0.67	Ndufv1	0.23	Amfr	-0.11	1700055N04Rik	-1.36
Sh3gl2	0.67	Cabin1	0.23	Bola3	-0.11	Rusc2	-1.36
Tob2	0.67	Crcp	0.23	Ldhd	-0.11	Trim35	-1.36
Dhrs11	0.67	Ccdc91	0.23	Ralgapa1	-0.11	C3ar1	-1.37
Cab39l	0.67	Mafk	0.23	4632419I22Rik	-0.11	4933426M11Rik	-1.37
Defa26	0.67	Stard7	0.23	1810037I17Rik	-0.11	Eno2	-1.37

Gm15860	0.67	Med30	0.23	Dis3	-0.11	Plau	-1.37
Rpl13a	0.67	Cdc42se1	0.22	Tec	-0.11	Maged2	-1.37
Rabgap1	0.67	Cnksr3	0.22	Rlim	-0.11	Serpinb1a	-1.37
Cutc	0.67	Far1	0.22	Pigyl	-0.11	Cenpm	-1.37
Ehmt1	0.67	Sp4	0.22	Pecr	-0.11	Robo4	-1.37
Vopp1	0.67	Rffl	0.22	Tmem175	-0.11	BC028528	-1.37
Galnt5	0.67	Klhl11	0.22	Rbl1	-0.11	Mcam	-1.37
Srvt	0.67	Usp38	0.22	Pih1d1	-0.11	Anpep	-1.38
Mut	0.67	Mob4	0.22	Mll5	-0.11	Rasgrp3	-1.38
1110038D17Rik	0.67	Gripap1	0.22	Snx13	-0.11	Tbc1d10c	-1.38
Rftn1	0.67	Tceb2	0.22	1200011I18Rik	-0.11	Ankrd1	-1.38
Sac3d1	0.67	Atrx	0.22	Trim11	-0.11	Hspa12b	-1.38
Rpl39	0.67	C230052I12Rik	0.22	Pms2	-0.11	Gm17311	-1.38
Zfp187	0.66	Kpna4	0.22	Vtcn1	-0.11	Nfatc1	-1.38
Tes	0.66	Gm16008	0.22	0610010F05Rik	-0.11	Itga2	-1.38
Eif2b4	0.66	Tbl2	0.22	D230025D16Rik	-0.11	Hbb-b1	-1.38
Rpl23	0.66	Thoc7	0.22	Tmem194	-0.11	Gmpr	-1.38
Mettl3	0.66	Rasa1	0.22	Srd5a3	-0.11	Paqr7	-1.39
Taf9	0.66	Cnbp	0.22	Klf7	-0.11	Pstpip1	-1.39
Zfp330	0.66	Polr3gl	0.22	Msl2	-0.11	Tspan17	-1.39
Hddc2	0.66	Mcoln1	0.22	Slc38a9	-0.11	Rassf4	-1.39
Olfr920	0.66	Calm2	0.22	1110001A16Rik	-0.11	Cxadr	-1.39
Prrg2	0.66	1500001M20Rik	0.22	Pof1b	-0.11	Ttyh2	-1.39
I830012O16Rik	0.66	Rprd2	0.22	Snx19	-0.12	Scamp5	-1.39
Azi1	0.66	Cd2bp2	0.22	Cttn	-0.12	Mical2	-1.39
Tulp3	0.66	Anapc16	0.22	Pmvk	-0.12	Plekho2	-1.39
Trim28	0.66	Map2k7	0.22	Itm2c	-0.12	Ltb	-1.39
Gnaq	0.66	Slc39a3	0.22	Angel1	-0.12	Slc22a4	-1.40
Grhpr	0.66	Abce1	0.22	Gm12166	-0.12	Ctsl	-1.40
6430590A07Rik	0.66	Snrnp40	0.22	Myo5b	-0.12	Tchh	-1.40
Rbm25	0.66	Carm1	0.22	Tpra1	-0.12	Gng7	-1.40
Yap1	0.66	Psmb10	0.22	Pak1	-0.12	Dkk3	-1.40
9330020H09Rik	0.66	Nom1	0.22	Tatdn2	-0.12	Def6	-1.40
Hmgn1	0.66	Pole4	0.22	4930420K17Rik	-0.12	Cpne8	-1.40
Mapk12	0.66	Ehmt2	0.22	Dcps	-0.12	Gpc6	-1.40
Carkd	0.66	Tubb5	0.22	Arfgap1	-0.12	Adora1	-1.40
Mgat2	0.66	Klhl5	0.22	Nab1	-0.12	Htra2	-1.40
Fam84b	0.66	Ndufc2	0.22	Atl2	-0.12	Tns3	-1.41
Apba3	0.66	Fbxl14	0.22	Polk	-0.12	Unc119	-1.41
Rhbdf1	0.66	Stra13	0.22	Sirt7	-0.12	S100a7a	-1.41
Rnasek	0.66	Zadh2	0.22	Aim1	-0.12	Trim30a	-1.41
Rhod	0.66	Yrdc	0.22	Galnt11	-0.12	Il10rb	-1.41
Zfp503	0.66	Thrb	0.22	Zfp414	-0.12	4930577N17Rik	-1.41

Rpl12	0.66	Gopc	0.22	Hyal2	-0.12	Fam65c	-1.41
Psm5d5	0.66	AA543186	0.22	Pbx1	-0.12	Gm7676	-1.41
Exoc1	0.66	Nprl3	0.22	Pdk3	-0.12	Cdo1	-1.41
Txn14a	0.66	Timm17a	0.22	Slc25a1	-0.12	Sdc3	-1.41
Lrrc16a	0.66	Ndufb6	0.22	Rsbn1l	-0.12	Fam78a	-1.41
Med18	0.66	Dctn6	0.22	Parp4	-0.12	Tgfb1	-1.41
St13	0.66	Anapc2	0.22	Ntan1	-0.12	Hmga1-rs1	-1.41
Dgcr6	0.66	Ndel1	0.22	Ncoa3	-0.12	Ppargc1b	-1.42
Chpt1	0.66	Sbk1	0.22	Ahcyl2	-0.12	St6galnac4	-1.42
Exoc8	0.65	Fam136a	0.22	Ddx28	-0.12	Cd300a	-1.42
Sec23b	0.65	Ociad1	0.22	Map4k3	-0.12	Rbms1	-1.43
Asb3	0.65	Nfya	0.22	Gtf2ird1	-0.12	Slc17a9	-1.43
Naca	0.65	Pdha1	0.22	Zfand2b	-0.12	Als2cl	-1.43
Arhgef12	0.65	Wdr18	0.22	Ppp2r5a	-0.12	Tsku	-1.43
5133401N09Rik	0.65	Adipor1	0.22	Hipk2	-0.12	Ttc22	-1.43
Fam114a2	0.65	Zfml	0.22	Smad1	-0.12	Tgfb3	-1.43
Eng	0.65	Son	0.22	Cep350	-0.12	Aldh2	-1.43
Pex6	0.65	Eif4a2	0.22	Gm5431	-0.12	Nkg7	-1.43
Pias2	0.65	Rad54l2	0.22	Scyl1	-0.12	Tspan18	-1.43
Slc30a5	0.65	Tspyl1	0.22	BC030336	-0.12	Agtr1a	-1.43
Apcdd1	0.65	Uqcrfs1	0.22	Aldoa	-0.12	Slc16a11	-1.43
Dcaf4	0.65	Actl6a	0.22	2010003O02Rik	-0.12	Tnfrsf23	-1.44
Gm12319	0.65	Tial1	0.22	Fam161a	-0.12	Tgm1	-1.44
Calm4	0.65	Csrp2bp	0.22	Cib1	-0.12	Fas	-1.44
Prrx2	0.65	Jund	0.22	Tapbp	-0.12	Rasa4	-1.44
Cpe	0.65	Ilk	0.22	Tmem109	-0.12	Parp16	-1.44
Gm8759	0.65	Pi4kb	0.22	Mrpl27	-0.12	Igdcc4	-1.44
Lrrc27	0.65	Srr	0.22	Ptbp2	-0.12	Fst	-1.44
Gm10110	0.65	Vps4a	0.22	Zfp810	-0.12	Aplnr	-1.44
Rpl31	0.65	Nfyc	0.22	Ttk	-0.12	Ctsb	-1.44
Lpcat4	0.65	Gpn1	0.22	Crybg3	-0.12	Ifitm2	-1.44
2310057M21Rik	0.65	15-Sep	0.22	Trib1	-0.12	1810034E14Rik	-1.44
Prkcz	0.65	Atp5a1	0.22	Slco2a1	-0.12	Scarf1	-1.44
Nutf2	0.65	Ttll4	0.22	Gtf2h2	-0.12	Pnck	-1.45
Xpnp3	0.65	Zdhhc24	0.22	4933431E20Rik	-0.12	Lcp2	-1.45
Spata13	0.65	Ppapdc2	0.22	Nxt2	-0.12	Naprt1	-1.45
Ears2	0.65	Fam167a	0.22	Cenpl	-0.12	Jam2	-1.45
Cacybp	0.65	Lsm11	0.22	Ipo11	-0.12	Ap3s1-ps2	-1.45
Spin2	0.65	Gtpbp3	0.22	Mzt2	-0.12	Svil	-1.45
Eml6	0.65	4930455F23Rik	0.22	Cdk17	-0.12	Csf2ra	-1.45
Tra2a	0.65	Sdr39u1	0.22	Kif3b	-0.12	Fam110c	-1.45
Tjp1	0.65	Mettl14	0.22	Spata24	-0.13	Gm16836	-1.45
Ppil1	0.65	Cops2	0.22	Arl1	-0.13	Parvg	-1.45

Srcap	0.65	Pak2	0.22	Setd7	-0.13	Snx18	-1.45
Gigyf2	0.65	Rars	0.22	Tmeff1	-0.13	Arhgdib	-1.45
Phb2	0.65	Cox11	0.22	Adar	-0.13	Cd276	-1.45
Pigu	0.65	Cpsf3	0.22	Pvrl2	-0.13	Arhgef15	-1.45
Snd1	0.65	Ncor2	0.22	Rmnd1	-0.13	Sesn1	-1.46
Dtymk	0.65	Rnf121	0.22	Cwc27	-0.13	Il1a	-1.46
1110032A04Rik	0.65	Aff4	0.22	Eif2ak1	-0.13	Cldn5	-1.46
2610002117Rik	0.65	Otud4	0.22	Rusc1	-0.13	Itsn1	-1.46
Gm4540	0.65	Psmb4	0.22	Bmyc	-0.13	Ksr1	-1.46
Xrcc5	0.65	Zfp148	0.22	Sgpp1	-0.13	Fam102b	-1.46
Eif3f	0.65	Fam110a	0.22	Gpr116	-0.13	Pgf	-1.46
Thap2	0.65	Foxa2	0.22	Ttbk2	-0.13	Nbl1	-1.46
Inhba	0.64	Dcaf13	0.22	Me1	-0.13	Itga7	-1.46
1110038B12Rik	0.64	Hmbs	0.22	Slc4a2	-0.13	Ninj1	-1.46
Tbl1x	0.64	Snopc4	0.22	Sema6d	-0.13	Nid1	-1.47
Mrps11	0.64	Pin1	0.22	Prkra	-0.13	Gm17525	-1.47
Tanc2	0.64	Gm7204	0.22	Fam63a	-0.13	1500002O10Rik	-1.47
Utp6	0.64	Ttc9c	0.22	Hltf	-0.13	Mef2c	-1.47
Zfp689	0.64	S1pr3	0.22	Mtmr3	-0.13	St3gal1	-1.47
Pxmp2	0.64	Fbxo31	0.22	Ints7	-0.13	Ddr2	-1.47
Dstyk	0.64	Isg20	0.22	Cmtm6	-0.13	Nrp1	-1.47
Znf512b	0.64	Clcn3	0.22	Camta2	-0.13	F730043M19Rik	-1.47
Gm15848	0.64	Ap3b1	0.22	Arpc1b	-0.13	Gm12000	-1.47
G3bp1	0.64	Iars2	0.22	Xpr1	-0.13	Ikbke	-1.47
Sprr2b	0.64	Dcp1a	0.22	Glg1	-0.13	Efhc1	-1.48
Ppa2	0.64	Ankhd1	0.22	2700081O15Rik	-0.13	St8sia4	-1.48
Gm17727	0.64	Rexo1	0.22	Ccdc101	-0.13	Heyl	-1.48
Slc25a23	0.64	Epha4	0.22	Dnajc1	-0.13	6330416G13Rik	-1.48
Pls3	0.64	Wdr44	0.22	Ndufaf3	-0.13	Pla1a	-1.48
Gcsh	0.64	Zfp369	0.22	Ccdc159	-0.13	Nfatc2	-1.48
Agxt2l2	0.64	Mageh1	0.22	Orc2	-0.13	2310028H24Rik	-1.48
Abhd14a	0.64	Pde2a	0.22	Tpm1	-0.13	Zc3h12c	-1.48
Ccdc112	0.64	Clk3	0.22	Hnrpd1	-0.13	Lyn	-1.48
Dhx57	0.64	E2f6	0.22	Rnf141	-0.13	Baiap2l1	-1.48
Isoc2b	0.64	Crls1	0.22	Slc25a15	-0.13	Syne1	-1.48
Rbm34	0.64	Strn4	0.22	Dcp2	-0.13	Plce1	-1.48
Acin1	0.64	Uqcr10	0.22	1500002O20Rik	-0.13	Tbkbp1	-1.48
Dnajb2	0.64	Banf1	0.22	Ncoa2	-0.13	Nrbp2	-1.49
B130055M24Rik	0.64	Plekhh2	0.22	Tmem161b	-0.13	Cmtm7	-1.49
Tmem184a	0.64	Tbc1d30	0.22	Bsg	-0.13	Myo1g	-1.49
Gm684	0.64	Fbf1	0.22	Klhl20	-0.13	Tram2	-1.49
Pigf	0.64	Gtpbp4	0.22	Rapgef2	-0.13	Ly86	-1.49
Diexf	0.64	Wnt7b	0.22	Smoc1	-0.13	Fkbp5	-1.49

Sprr1a	0.64	Fbxo28	0.22	Rara	-0.13	Grk5	-1.49
Telo2	0.64	Rnf135	0.22	Slc25a43	-0.13	Ckb	-1.49
2010001A14Rik	0.64	Ankmy2	0.22	Als2	-0.13	Hvcn1	-1.49
Hint2	0.64	Heatr2	0.22	Gm14325	-0.13	Emp1	-1.49
Akr1b10	0.64	Gpkow	0.22	Nipal1	-0.13	Cald1	-1.49
Rps20	0.64	Chd8	0.21	3110040N11Rik	-0.13	St6gal1	-1.50
Rab3a	0.64	Ppp4c	0.21	Atp6ap1	-0.13	1810011O10Rik	-1.50
Exosc1	0.64	Nmt1	0.21	Sp2	-0.13	Tnfsf4	-1.50
Pla2g12a	0.64	Zfp113	0.21	Reps2	-0.13	Abca1	-1.50
Trp53	0.64	Rit1	0.21	Six5	-0.13	BC024582	-1.50
Prkx	0.64	Ergic1	0.21	Osbpl5	-0.13	Ccdc33	-1.50
Rpl22	0.64	Arhgef17	0.21	Ap2s1	-0.13	4732471D19Rik	-1.50
F2r	0.64	Gm6158	0.21	Uap111	-0.13	Fxyd2	-1.50
Tspyl2	0.64	Zfp958	0.21	Actr2	-0.13	BC043934	-1.50
Npnt	0.64	Cops6	0.21	Zdhhc7	-0.13	Il21r	-1.50
Ccar1	0.64	Creb3l2	0.21	Acap2	-0.13	Zbp1	-1.51
Ogt	0.64	Lin37	0.21	Thra	-0.13	Adamts2	-1.51
Syt7	0.64	Ino80e	0.21	Slc12a4	-0.13	Cotl1	-1.51
Fam119b	0.63	Dtna	0.21	Tprn	-0.13	Plxdc2	-1.51
Ubfd1	0.63	Rnf115	0.21	Med27	-0.13	Depdc1b	-1.51
Pcsk4	0.63	Uhrf2	0.21	Dip2b	-0.13	F5	-1.51
Rae1	0.63	Riok1	0.21	Slc44a3	-0.13	Sestd1	-1.51
Etfb	0.63	4930480K23Rik	0.21	Clpx	-0.13	Ipcef1	-1.51
Mettl11a	0.63	Gm13594	0.21	Armcx1	-0.13	Tgfbr2	-1.51
Tc2n	0.63	Cirh1a	0.21	Cops7b	-0.13	Fhl1	-1.51
Sigmar1	0.63	Zkscan5	0.21	Ltbp1	-0.13	Tnfaip2	-1.51
2210021J22Rik	0.63	Usp21	0.21	Cdkn2aipnl	-0.14	Pld1	-1.51
Dnajc12	0.63	Zfp180	0.21	Galk1	-0.14	Cd48	-1.52
Cd109	0.63	Rpn2	0.21	Sfxn3	-0.14	Cwh43	-1.52
Rfx3	0.63	Tnrc6a	0.21	Vac14	-0.14	Tiparp	-1.52
Ints10	0.63	Gcdh	0.21	Rmi1	-0.14	Il2rg	-1.52
U2af1	0.63	Alg12	0.21	Pkm2	-0.14	Cacna1c	-1.52
Ttll7	0.63	Mgl2	0.21	3110082I17Rik	-0.14	Foxs1	-1.52
Pcyox1l	0.63	Fam13b	0.21	Tcp11l2	-0.14	Ssh2	-1.52
Ptp4a1	0.63	Zfp367	0.21	Zfp821	-0.14	Egfl7	-1.52
Kank1	0.63	1110032A03Rik	0.21	Smyd5	-0.14	Gm694	-1.53
Yipf2	0.63	Acsf5	0.21	5730480H06Rik	-0.14	Bmpr1b	-1.53
Mrm1	0.63	Phospho2	0.21	Moxd1	-0.14	Gimap6	-1.53
Znrd1	0.63	AI597479	0.21	Tmem9	-0.14	Trim46	-1.53
Cds2	0.63	Twistnb	0.21	Plekhf2	-0.14	Fgl2	-1.53
Ubap2	0.63	Gm2382	0.21	Mfn2	-0.14	Dbn1	-1.53
ULK3	0.63	Slc30a6	0.21	Cpt2	-0.14	Dennd4b	-1.53
Ifngr2	0.63	Spr	0.21	Dnase2b	-0.14	Apold1	-1.53

Rpp38	0.63	Urb1	0.21	Tpm3-rs7	-0.14	Tmprss13	-1.53
Nab2	0.63	Cdc26	0.21	Abhd11	-0.14	Hs3st1	-1.53
Prepl	0.63	Stard9	0.21	Mapk6	-0.14	Cd47	-1.53
Slc2a3	0.63	Rab5b	0.21	Mkrn1	-0.14	Capn13	-1.53
Cdk2ap1	0.63	Irx3	0.21	Clybl	-0.14	Cdk20	-1.53
Bag2	0.63	Pygo1	0.21	Rab12	-0.14	Bcl2l15	-1.54
Nol9	0.63	Mrpl2	0.21	Mtch1	-0.14	Rel	-1.54
Sec11a	0.63	Trim26	0.21	Zfp1	-0.14	Zdhhc15	-1.54
Arl3	0.63	Zfp606	0.21	Tpr	-0.14	Clcf1	-1.54
Pcbp1	0.63	Gkap1	0.21	Ccbl2	-0.14	Mfhas1	-1.54
Zcchc10	0.63	Wbp2	0.21	Aldh9a1	-0.14	Mmrn2	-1.54
2610018G03Rik	0.63	Lemd3	0.21	Ivns1abp	-0.14	Car12	-1.54
Tusc3	0.63	1110059G10Rik	0.21	Stag1	-0.14	Ppp1r18	-1.54
Gm9900	0.63	6720456B07Rik	0.21	Rpl35a	-0.14	Tgfb1i1	-1.54
BC053749	0.63	Sec23ip	0.21	Cpne1	-0.14	2510046G10Rik	-1.55
Stoml2	0.63	Actr5	0.21	Tbl1xr1	-0.14	Slco2b1	-1.55
Man1c1	0.63	Zbtb42	0.21	Parp6	-0.14	Asah2	-1.55
Cyhr1	0.63	2610301G19Rik	0.21	Tbc1d23	-0.14	Meox1	-1.55
Lin7c	0.63	2700023E23Rik	0.21	Hprt	-0.14	B3galnt1	-1.55
Gm10664	0.63	Slbp	0.21	Nbas	-0.14	1190003J15Rik	-1.55
Rufy3	0.63	Tmem60	0.21	Kctd13	-0.14	Slc4a3	-1.55
Polr1b	0.63	Glrx5	0.21	Sec24b	-0.14	Prss32	-1.55
2410022L05Rik	0.63	Lace1	0.21	Npepl1	-0.14	Unc13d	-1.55
Mical3	0.63	Dap	0.21	Sirt3	-0.14	Bmp1	-1.55
Ubtf	0.62	2310030N02Rik	0.21	Elac1	-0.14	Crct1	-1.55
Mpv17l2	0.62	Socs4	0.21	Alg14	-0.14	Ugt2b34	-1.55
Hspe1	0.62	Zscan20	0.21	Arl5a	-0.14	Kalrn	-1.55
Tpd52	0.62	Lias	0.21	Tbc1d13	-0.14	Ttc39c	-1.55
Fkbp3	0.62	Hspbp1	0.21	Capzb	-0.14	Plcl2	-1.55
Rpl4	0.62	Naa30	0.21	Hsd17b12	-0.14	Syt8	-1.55
D030028A08Rik	0.62	Cs	0.21	Ptprd	-0.14	Rgl1	-1.56
Apex1	0.62	Ftsj1	0.21	Abl1	-0.14	Clu	-1.56
Ocln	0.62	Wdr20a	0.21	Tubgcp3	-0.14	4930503L19Rik	-1.56
Cdkl5	0.62	Spns1	0.21	Fam82a1	-0.14	Ero1l	-1.56
Apex2	0.62	2210404O09Rik	0.21	Sat2	-0.14	Slfn2	-1.56
2810432D09Rik	0.62	Afg3l2	0.21	A030009H04Rik	-0.14	5330426P16Rik	-1.57
Chchd2	0.62	Akirin2	0.21	Itpripl2	-0.14	Prkar1b	-1.57
Rps24	0.62	Zfp609	0.21	Grpel2	-0.14	Gpx8	-1.57
Nop56	0.62	Gm16586	0.21	Gramd1a	-0.14	Pla2g5	-1.57
Snrnp27	0.62	Gpr108	0.21	Uhmk1	-0.14	Dusp18	-1.57
Zfp219	0.62	Utrn	0.21	Tmod3	-0.14	Clca4	-1.57
1110012L19Rik	0.62	Cpsf7	0.21	Sav1	-0.14	Ptk2b	-1.57
Snx32	0.62	Pip5k1a	0.21	1700081L11Rik	-0.14	Tmem221	-1.57

Marveld2	0.62	Aebp2	0.21	Cdc42	-0.14	Lrig1	-1.57
1810049H13Rik	0.62	Mex3c	0.21	Mettl9	-0.14	Fgd2	-1.58
Chd6	0.62	Znrd1as	0.21	Tmem144	-0.14	Batf	-1.58
Gm7935	0.62	Arf4	0.21	Mafg	-0.14	Rin3	-1.58
1810048J11Rik	0.62	Rad17	0.21	Gpr115	-0.14	Hmcn1	-1.58
Hmgcll1	0.62	Rfescd	0.21	Zfp101	-0.14	Gde1	-1.59
Phf23	0.62	Dnpep	0.21	Al316807	-0.15	Camk2n2	-1.59
Mtrf1l	0.62	Alkbh8	0.21	1810055G02Rik	-0.15	Nupr1	-1.59
Pcbd1	0.62	Stx16	0.21	Bcl10	-0.15	Morn4	-1.59
Nt5c	0.62	Immp1l	0.21	Lysmd4	-0.15	Man2a2	-1.59
Spsb2	0.62	Ppp4r2	0.21	Uck1	-0.15	Hhex	-1.59
BC031353	0.62	Sgsm2	0.21	Oxsm	-0.15	Tnk1	-1.59
Gm14047	0.62	Psmc11	0.21	Fam160a2	-0.15	Tlr9	-1.60
Sike1	0.62	Ap4m1	0.21	Phgdh	-0.15	E130003G02Rik	-1.60
Gas8	0.62	Scrn2	0.21	Zfp167	-0.15	Gm4902	-1.60
Arl4a	0.62	Agpat1	0.21	Tinagl1	-0.15	Sprr2d	-1.60
Pabpc1	0.62	2610101N10Rik	0.21	Slc12a9	-0.15	Shisa4	-1.60
BC024978	0.62	R3hdm1	0.21	Traf6	-0.15	Ntng2	-1.60
Nlk	0.62	Psd4	0.21	Tmem51	-0.15	6030429G01Rik	-1.61
Zbtb3	0.62	Csde1	0.21	Polr3d	-0.15	Ccr5	-1.61
Fam173b	0.62	Csnk1g2	0.21	Gls	-0.15	Slco4a1	-1.61
Rps8	0.62	Nrd1	0.21	2210408I21Rik	-0.15	Cyfp2	-1.61
Dynll1	0.62	Pgam5	0.21	Irgm1	-0.15	Mxd1	-1.61
Fdps	0.62	Fam195a	0.21	Tube1	-0.15	Acap1	-1.61
Gm20554	0.62	Cog1	0.21	Pigk	-0.15	Gm16292	-1.61
Cdk5rap3	0.62	Ankfy1	0.21	Trafd1	-0.15	Gpsm3	-1.61
8-Mar	0.62	Rb1cc1	0.21	Scai	-0.15	Kirrel	-1.61
Golim4	0.62	Gng5	0.21	Gpc1	-0.15	Sox17	-1.62
Wasl	0.62	Mtdh	0.21	Lrp6	-0.15	Sirpa	-1.62
Ythdf1	0.62	Ppt1	0.21	Vps18	-0.15	Ccdc88b	-1.62
Fam50a	0.62	Uchl4	0.21	Stk4	-0.15	Ccl1	-1.62
Arl4c	0.62	Pigq	0.21	Ttc21b	-0.15	Sema7a	-1.62
Opa3	0.62	Copz1	0.21	Map1lc3b	-0.15	Jam3	-1.62
Eci1	0.62	Zmym1	0.21	Rnf14	-0.15	Hpse2	-1.62
Hibadh	0.62	Prr14	0.21	Bet1l	-0.15	Mctp2	-1.63
Rpl37a	0.61	Camta1	0.21	1110059E24Rik	-0.15	Naip5	-1.63
Zfp287	0.61	Kdm1a	0.21	Fam158a	-0.15	Amotl2	-1.63
Hdgfrp3	0.61	Bzw1	0.20	Dlg4	-0.15	Gcnt2	-1.63
Gm8258	0.61	Snw1	0.20	Ppp2r4	-0.15	Slc15a3	-1.63
Srsf10	0.61	Myl12a	0.20	Atm	-0.15	5730559C18Rik	-1.63
Ubxn1	0.61	Mcts2	0.20	Ddx26b	-0.15	Nt5dc2	-1.63
Zfp708	0.61	Samd4b	0.20	Foxn2	-0.15	Smarcd3	-1.63
Arid4a	0.61	Psmc6	0.20	Ext2	-0.15	Pdk4	-1.63

Pcca	0.61	Wibg	0.20	Sys1	-0.15	Cd274	-1.63
Rpl32	0.61	Eif2ak4	0.20	Stbd1	-0.15	Slc12a2	-1.64
Gm16938	0.61	Rbm15	0.20	Nbeal2	-0.15	Ifi203	-1.64
Dnajc24	0.61	Trpc2	0.20	Odf2l	-0.15	Chsy1	-1.64
2010007H06Rik	0.61	Tmem38a	0.20	Mterfd1	-0.15	Nfkbie	-1.64
Nfat5	0.61	Gtf3c6	0.20	Brp44	-0.15	Ndr4	-1.64
Men1	0.61	Vsig10l	0.20	Elmo2	-0.15	Rassf5	-1.64
Abhd6	0.61	Ttc39a	0.20	Ddah2	-0.15	Tnc	-1.64
Rpl27a	0.61	Tuba1b	0.20	Tor1a	-0.15	Gm22	-1.65
Mipol1	0.61	Cops4	0.20	Ube2j1	-0.15	Des	-1.65
Eef1e1	0.61	Prpf40a	0.20	Rexo2	-0.15	Slc37a2	-1.65
4831440E17Rik	0.61	BC067068	0.20	Gm11006	-0.15	Abcg2	-1.65
Ddx50	0.61	Ubp1	0.20	1110007C09Rik	-0.15	Gpx2	-1.65
Serbp1	0.61	Gramd4	0.20	Vamp4	-0.15	Cd52	-1.65
Plekhb1	0.61	Lrrfip2	0.20	Spnb2	-0.15	Epb4.1l3	-1.65
Zfp707	0.61	Csnk1g1	0.20	Tmem181a	-0.15	Rrad	-1.65
Zfp446	0.61	Sbno1	0.20	Rpa1	-0.15	Adcy4	-1.65
Ranbp17	0.61	2310008H09Rik	0.20	Ppp1r9b	-0.15	Cp	-1.65
Rpsa	0.61	Slc9a3r1	0.20	Smyd3	-0.15	AF251705	-1.66
Tsen2	0.61	Zmat3	0.20	Tex261	-0.15	Nol3	-1.66
Abhd10	0.61	Myg1	0.20	Rnf217	-0.15	A430105I19Rik	-1.66
Rpl5	0.61	2310022A10Rik	0.20	Mapk8	-0.15	Pip4k2a	-1.66
Sult2b1	0.61	Gm17491	0.20	Armc9	-0.15	Cd84	-1.66
Inpp5a	0.61	Pold2	0.20	Ptar1	-0.15	Enpp1	-1.66
Rbm4b	0.61	Myst4	0.20	Phf14	-0.15	Pdcd1	-1.66
Skp1a	0.61	Llg1	0.20	Dpy19l4	-0.15	Trpv2	-1.66
Nol8	0.61	Gin1	0.20	AW549877	-0.15	AU021092	-1.66
Spef1	0.61	Zbtb7a	0.20	D430042O09Rik	-0.15	Copz2	-1.66
Trim62	0.61	Arfip2	0.20	Wdr37	-0.16	Rasa3	-1.67
Aimp2	0.61	Nmi	0.20	Aldoc	-0.16	Kif26b	-1.67
Mlec	0.61	Gm10094	0.20	Gstm2-ps1	-0.16	Cd200r1	-1.67
Lss	0.61	Atp8b1	0.20	Aqp1	-0.16	Sectm1b	-1.67
Sertad1	0.61	Slc10a7	0.20	Tbc1d20	-0.16	Stx11	-1.67
Samd1	0.61	Wdr4	0.20	Sun2	-0.16	Shank3	-1.67
Pura	0.61	Larp4b	0.20	Stk3	-0.16	Adora3	-1.67
Gm12750	0.61	Atp6v1g1	0.20	Ftsjd2	-0.16	Peli2	-1.67
Gadd45gip1	0.61	Polr3a	0.20	Mcm8	-0.16	Ly6k	-1.67
Rexo4	0.61	Mrpl22	0.20	5430417L22Rik	-0.16	Hba-a1	-1.67
Qars	0.61	Mthfd1	0.20	3200002M19Rik	-0.16	Adh1	-1.67
Mrps33	0.60	Myl6	0.20	Asx1	-0.16	Oasl1	-1.68
Rpl23a	0.60	Rab34	0.20	Ap3m1	-0.16	Meis1	-1.68
Slain1	0.60	Cox6c	0.20	Rft1	-0.16	Ccdc122	-1.68
Gm5148	0.60	Dido1	0.20	Spry2	-0.16	Inhbb	-1.68

Rint1	0.60	Sec63	0.20	Trip4	-0.16	Bhlhe41	-1.68
Prdm9	0.60	Asna1	0.20	Rod1	-0.16	Gm11827	-1.68
Wnt5a	0.60	2810403A07Rik	0.20	Dyrk2	-0.16	Emilin2	-1.68
Hcfc1r1	0.60	Zfp866	0.20	Dopey2	-0.16	Csf2rb	-1.68
Tmem55a	0.60	Tor1aip2	0.20	Comtd1	-0.16	Sgcb	-1.68
Gm5145	0.60	Fbln7	0.20	Fam168a	-0.16	E2f1	-1.69
Ahsa1	0.60	Lypd3	0.20	Ankrd39	-0.16	5031414D18Rik	-1.69
Ppfbp2	0.60	2810407C02Rik	0.20	Rragc	-0.16	Olr1	-1.69
Spint1	0.60	Gpn2	0.20	Usp2	-0.16	Slc16a6	-1.69
Polr1e	0.60	Cul2	0.20	Me2	-0.16	Tuba8	-1.69
D17Wsu92e	0.60	B2m	0.20	lft27	-0.16	Smpdl3a	-1.69
Fam83h	0.60	Cmtm4	0.20	Chrac1	-0.16	Rsad2	-1.69
Derl2	0.60	Ikbkg	0.20	Rnf43	-0.16	Slc8a1	-1.69
Card11	0.60	Inpp5b	0.20	Bmpr1a	-0.16	Ddit4	-1.69
Chic1	0.60	Chuk	0.20	D8Ert82e	-0.16	Abcc9	-1.69
Nhp2	0.60	Chchd3	0.20	Cul9	-0.16	Gjc1	-1.69
Magohb	0.60	Fam54b	0.20	B930041F14Rik	-0.16	Cryba4	-1.69
Snx15	0.60	Park7	0.20	Tmem168	-0.16	Mafb	-1.69
Slc38a7	0.60	Ccndbp1	0.20	Zmiz1	-0.16	S100a11	-1.69
Mr1	0.60	Ccdc45	0.20	Fam134b	-0.16	Pdgfra	-1.69
Aacs	0.60	Fpgt	0.20	Pmf1	-0.16	Cdkn1c	-1.69
Slc2a12	0.60	Zfp563	0.20	Ttf2	-0.16	C130050O18Rik	-1.69
Ankrd13d	0.60	Shpk	0.20	Lck	-0.16	Emb	-1.70
Rpl37	0.60	Tmem41a	0.20	Crem	-0.16	Il3ra	-1.70
Slc35a1	0.60	Zmym3	0.20		5-Mar	Leprel2	-1.70
Bms1	0.60	Psm1	0.20	Nek1	-0.16	Fli1	-1.70
1700055D18Rik	0.60	Snpc3	0.20	Sft2d3	-0.16	Tmem44	-1.70
Bod1	0.60	Txnl4b	0.20	Pcbd2	-0.16	Gpcpd1	-1.70
Gipc1	0.60	Hmga1	0.20	Cr1l	-0.16	Steap4	-1.70
Rpl6	0.60	Senp7	0.20	Samd8	-0.16	Ecscr	-1.70
Shmt1	0.60	Spag7	0.20	Bak1	-0.16	Adora2b	-1.70
Rps27a	0.60	Wnk1	0.20	Sdhaf1	-0.16	Ces2g	-1.71
4933403F05Rik	0.60	Rnf220	0.20	Mettl7a1	-0.16	Pag1	-1.71
Gnrh1	0.60	Gm11458	0.20	Fam53b	-0.16	Sync	-1.71
Eml1	0.60	Mrpl21	0.20	Mbd4	-0.16	Mgp	-1.71
Aimp1	0.60	Wdr47	0.20	Pde6d	-0.16	Olfml3	-1.71
Gm12258	0.60	Rbfox2	0.20	Gm7367	-0.16	Gjb2	-1.71
Suz12	0.60	Cbfb	0.20	Ubxn8	-0.16	Slfn3	-1.71
Sdsl	0.60	Hsdl1	0.20	Nipal2	-0.16	Htra4	-1.71
2810432L12Rik	0.60	Las1l	0.20	Aldh1a3	-0.16	Zcchc24	-1.71
Rab25	0.60	Bptf	0.20	1110058L19Rik	-0.16	Gipc2	-1.72
Wdr74	0.60	Tcea1	0.20	L3mbtl2	-0.16	Trim12a	-1.72
Eef2k	0.60	Gpank1	0.20	Narg2	-0.16	Tlr2	-1.72

2310079F23Rik	0.60	Med8	0.20	5S_rRNA	-0.16	Adora2a	-1.72
Nfe2l3	0.60	Trpt1	0.20	Ier3	-0.16	Pxdn	-1.72
Gm10146	0.60	Zfp560	0.20	Sh3gl1	-0.16	Pyroxd2	-1.72
Rai12	0.60	Bik	0.20	Fmod	-0.16	Krt72-ps	-1.72
Ddx18	0.60	Ndufa2	0.20	Nucb1	-0.17	Plbd1	-1.72
Rpusd3	0.59	BC017647	0.20	Aco1	-0.17	Gm16972	-1.72
Rora	0.59	Brcc3	0.20	Gabpb1	-0.17	Lgi4	-1.72
Mblac2	0.59	Asb6	0.20	Igsf11	-0.17	Akna	-1.72
1300018J18Rik	0.59	Ube2w	0.20	Fuz	-0.17	Gm1966	-1.72
Spcs2	0.59	Gps1	0.20	Sepn1	-0.17	Fam114a1	-1.73
Chd3	0.59	Plp2	0.20	Nf2	-0.17	Gas7	-1.73
Trub1	0.59	Zfp229	0.19	Iscu	-0.17	Prdm16	-1.73
Naa10	0.59	Slc35a2	0.19	Abl2	-0.17	Shank2	-1.73
1110003E01Rik	0.59	Anp32e	0.19	E2f2	-0.17	Tmem119	-1.73
Acbd5	0.59	Med9	0.19	Gli3	-0.17	Rab17	-1.73
Tmem57	0.59	Daxx	0.19	Pim3	-0.17	Sept1	-1.73
Ogfod2	0.59	Rnf111	0.19	Ephb6	-0.17	Slc16a9	-1.73
Csnk2a1	0.59	Mblac1	0.19	Cgn	-0.17	Prnd	-1.73
E130308A19Rik	0.59	Nars	0.19	Ddx19b	-0.17	Six1	-1.73
Ap1s3	0.59	Nit2	0.19	Ifih1	-0.17	St3gal6	-1.73
Rpl17	0.59	Cyc1	0.19	Gm10226	-0.17	Wispl	-1.73
Zfp558	0.59	Cramp1l	0.19	Nlr1	-0.17	Arsa	-1.73
Lhfp12	0.59	Stx17	0.19	Syng2	-0.17	Ppm1m	-1.74
Mif	0.59	Ppm1a	0.19	Tmed3	-0.17	Map4k1	-1.74
Ciapi1	0.59	Mdp1	0.19	Atp5g2	-0.17	Cbr3	-1.74
Stx5a	0.59	Ube2l3	0.19	Gm17635	-0.17	Qsox1	-1.74
Klf4	0.59	Dpf2	0.19	H3f3b	-0.17	Sned1	-1.74
Epb4.111	0.59	Mrps21	0.19	Gnmt	-0.17	Hal	-1.74
Tspan7	0.59	Zfp963	0.19	1110017F19Rik	-0.17	Rnf169	-1.74
Spint2	0.59	Kars	0.19	P4htm	-0.17	Gria3	-1.74
Timm8a1	0.59	Med21	0.19	Batf2	-0.17	Agpat4	-1.74
Pak3	0.59	Parp11	0.19	Zfp951	-0.17	Kcna3	-1.75
AI429214	0.59	1110067D22Rik	0.19	Capsl	-0.17	Nme5	-1.75
Zfp944	0.59	Arhgap5	0.19	Cep57l1	-0.17	Gca	-1.75
Cdc42ep5	0.59	Cyb5d2	0.19	Ccdc28b	-0.17	Syk	-1.75
Zfp386	0.59	2410002F23Rik	0.19	Etohi1	-0.17	Tek	-1.75
Trnt1	0.59	Wfdc15b	0.19	Gm13540	-0.17	Tmie	-1.75
Birc6	0.59	Pank2	0.19	Otud1	-0.17	Prkg1	-1.75
Per3	0.59	Bad	0.19	9130008F23Rik	-0.17	Vit	-1.75
Esrp1	0.59	Atp5j	0.19	BC052040	-0.17	Asprv1	-1.75
Med7	0.59	Nedd1	0.19	4930427A07Rik	-0.17	Nfil3	-1.75
Fut9	0.59	Arcn1	0.19	Taf9b	-0.17	Upk1a	-1.75
Plekha6	0.59	Zzz3	0.19	Ccdc163	-0.17	BC034090	-1.75

Vprbp	0.59	Stau1	0.19	Adck1	-0.17	Hoxb7	-1.75
Pde4dip	0.59	Atp6v1f	0.19	Dctpp1	-0.17	Pde7b	-1.76
Tfdp2	0.59	Smarcc2	0.19	2310039H08Rik	-0.17	Il1rap	-1.76
Mettl17	0.58	Basp1	0.19	Pnkd	-0.17	Rdh12	-1.76
Ndufs5	0.58	Synj2	0.19	Zbtb25	-0.17	Itga1	-1.76
Setmar	0.58	Snrpa1	0.19	Ppp2r3c	-0.17	Inpp5d	-1.76
Uqcr11	0.58	Arhgap39	0.19	5530601H04Rik	-0.17	Gbp5	-1.76
Hn1l	0.58	Ppp2r2a	0.19	Zfp770	-0.17	Scnn1a	-1.77
Med19	0.58	Lpcat3	0.19	Cox10	-0.17	Arhgef25	-1.77
Eif4a1	0.58	Ipo5	0.19	Parvb	-0.17	C1qtnf6	-1.77
Ufm1	0.58	Usp22	0.19	Stard3nl	-0.17	Cyyr1	-1.77
Pop5	0.58	Map1lc3a	0.19	Eri3	-0.17	Egln3	-1.77
Snrnp48	0.58	Zbed3	0.19	Mink1	-0.17	4930438A08Rik	-1.77
Mmachc	0.58	D16Ert472e	0.19	Fbxw8	-0.17	Arhgef26	-1.77
Usp36	0.58	Kbtbd7	0.19	Sin3b	-0.17	Cmklr1	-1.77
Zdhhc12	0.58	Commd5	0.19	Arl6ip5	-0.17	Emilin1	-1.78
Rbm15b	0.58	Chst2	0.19	Pold3	-0.17	Pde4d	-1.78
Gle1	0.58	Ccdc94	0.19	Sephs2	-0.17	Kcnd1	-1.78
Reep2	0.58	Ptdss1	0.19	Crebl2	-0.17	Prom1	-1.78
Retsat	0.58	Itm2b	0.19	Ptp4a2	-0.17	Efr3b	-1.78
1810026J23Rik	0.58	Fbxo11	0.19	Mbnl2	-0.17	Pcdhb9	-1.78
Zmynd19	0.58	Zfp422	0.19	Blnk	-0.17	Sh2d3c	-1.78
Prpf39	0.58	Ube2z	0.19	Casp12	-0.17	Cnnm2	-1.78
Znrf3	0.58	Rcor3	0.19	Nedd4l	-0.17	Nr1h3	-1.78
Irx5	0.58	2900052L18Rik	0.19	Phka1	-0.17	Fblim1	-1.79
Pfdn2	0.58	Fbxl12	0.19	Prkag2	-0.18	Nckap1l	-1.79
Rpl10	0.58	Sod1	0.19	Atp2b4	-0.18	Ntn4	-1.79
Utp18	0.58	B230307C23Rik	0.19	Npr2	-0.18	Chrd	-1.79
Ppie	0.58	Tbc1d7	0.19	Pigr	-0.18	Fam109b	-1.80
Gstm2	0.58	Capn7	0.19	Stoml1	-0.18	Cxcl10	-1.80
Acot1	0.58	Mknk2	0.19	Nfatc3	-0.18	Cd36	-1.80
Aoc2	0.58	Trib2	0.19	Cdc42ep1	-0.18	Tmco7	-1.80
Zkscan4	0.58	Mrpl19	0.19	Prim2	-0.18	Postn	-1.80
0610007L01Rik	0.58	Ddx24	0.19	Tmem206	-0.18	Laptm5	-1.80
Mpst	0.58	Dnajc7	0.19	Uchl3	-0.18	Calcr1	-1.80
Pja1	0.58	Ssna1	0.19	Tmco6	-0.18	2010002N04Rik	-1.80
Csnk1d	0.58	Zmym2	0.19	Nr1h2	-0.18	Fkbp9	-1.80
Map2k3	0.58	Gm20036	0.19	Bspry	-0.18	Ripk3	-1.80
Pknnox1	0.58	Hlf	0.19	Ripk2	-0.18	Tmc8	-1.80
Pafah2	0.58	Zfp192	0.19	Topbp1	-0.18	AI467606	-1.80
Mettl16	0.58	Lsm6	0.19	Thap6	-0.18	I830077J02Rik	-1.80
Kif13a	0.58	Cdad1	0.19	Mlh3	-0.18	Tmem156	-1.80
Crot	0.58	Tbc1d10a	0.19	Mcart1	-0.18	Kcnj8	-1.81

Strn3	0.58	Morf4l2	0.19	Al464131	-0.18	Gm14005	-1.81
Foxk2	0.58	Nacc1	0.19	Slc1a5	-0.18	Psg17	-1.81
Atrip	0.58	Gm6457	0.19	Rgp1	-0.18	Podxl2	-1.81
Pias4	0.58	Ash1l	0.19	Ccdc90b	-0.18	Pik3cd	-1.81
H2afx	0.58	Xpo7	0.19	Ncln	-0.18	Fam107a	-1.81
3010003L21Rik	0.58	Gpc3	0.19	Rfc2	-0.18	Fcgr1	-1.82
Dem1	0.58	Gm16973	0.19	Dph1	-0.18	Apobec1	-1.82
Zmynd8	0.58	Rap1a	0.19	Tfe3	-0.18	Adssl1	-1.82
Mllt4	0.58	Usp35	0.19	Tmem104	-0.18	Pion	-1.82
Spry4	0.58	Rpl28	0.19	Lrrc49	-0.18	Sh2d5	-1.82
Srsf9	0.57	Gm10093	0.19	Pnpla2	-0.18	Cd40	-1.83
Thop1	0.57	Nap1l4	0.19	Mcm9	-0.18	Cttnbp2	-1.83
Txndc12	0.57	Atp5sl	0.19	Ap4b1	-0.18	Apoc2	-1.83
Gm10247	0.57	Fasn	0.19	Prps2	-0.18	Upp1	-1.83
Zfp553	0.57	C2cd3	0.19	BC016423	-0.18	Trpv4	-1.83
Slc6a9	0.57	E130311K13Rik	0.19	Peli3	-0.18	Neurl1a	-1.83
Dhrs7b	0.57	Mrpl47	0.19	Cpne3	-0.18	Sema3b	-1.83
Ubxn4	0.57	Ddx39	0.19	Rnd2	-0.18	Fcer1g	-1.83
Nde1	0.57	Ddx39b	0.19	Clasp2	-0.18	Cpn1	-1.84
Rpl8	0.57	Polh	0.19	Cinp	-0.18	Serpina3g	-1.84
Akr7a5	0.57	Adat2	0.19	Atp13a2	-0.18	Adcy7	-1.84
Ptges3	0.57	Alkbh3	0.19	Th1l	-0.18	Icam1	-1.84
Dcbld1	0.57	Osgep	0.19	Susd1	-0.18	Dock2	-1.84
Hs1bp3	0.57	1110031I02Rik	0.19	Vps13b	-0.18	Flt4	-1.84
Gm10320	0.57	Stx4a	0.19	Stk11ip	-0.18	Pla2g4a	-1.84
Trmt112	0.57	Hint1	0.19	Cltb	-0.18	Pik3r6	-1.84
Mak16	0.57	Psmc1	0.19	Fzr1	-0.18	Vsig4	-1.84
Zfyve26	0.57	Slc5a6	0.19	Lmtk2	-0.18	Fabp4	-1.84
Pebp1	0.57	Ppcdc	0.19	Nfkbib	-0.18	Igsf10	-1.85
Ndn12	0.57	Fam193b	0.19	Oplah	-0.18	Gpr35	-1.85
Smyd2	0.57	A730011L01Rik	0.19	Mrs2	-0.18	Gngt2	-1.85
1810021B22Rik	0.57	C330007P06Rik	0.19	2010109K11Rik	-0.18	Glis2	-1.85
Atg13	0.57	Lipt2	0.19	Pola1	-0.18	Pglyrp4	-1.86
Tomm34	0.57	Copb1	0.19	Tmbim4	-0.18	Sash3	-1.86
E2f5	0.57	2310001A20Rik	0.19	BC004004	-0.19	Gprc5b	-1.86
Gjb3	0.57	Med10	0.19	Steap1	-0.19	Snx20	-1.86
Phc3	0.57	Zfp764	0.19	Pik3ip1	-0.19	Twist2	-1.86
G3bp2	0.57	Wiz	0.19	Rnf38	-0.19	Fndc4	-1.87
Rnf180	0.57	Rdbp	0.19	Fscn1	-0.19	Tnfrsf11a	-1.87
Fkbp1a	0.57	Brf2	0.19	Osbp18	-0.19	Gm6133	-1.87
Fahd1	0.57	Polr3k	0.19	Top1mt	-0.19	Lsp1	-1.87
Gm14137	0.57	Frrs1	0.19	Slc25a14	-0.19	Il10ra	-1.87
Rnf5	0.57	Pfdn1	0.19	Pthlh	-0.19	Chst12	-1.87

Herc3	0.57	Noa1	0.19	Eml3	-0.19	Ccbe1	-1.87
Zbtb7b	0.57	Josd2	0.19	Ankrd28	-0.19	Ptafr	-1.87
Nol10	0.57	Aqr	0.19	Fam129b	-0.19	Ust	-1.87
Erbp2	0.57	Dnajc14	0.19	Gpr107	-0.19	Ccdc88c	-1.88
1700021F05Rik	0.57	Ssrp1	0.19	Msx1	-0.19	Ankrd33b	-1.88
Timm8b	0.57	Klrd1	0.19	Bace2	-0.19	Tppp3	-1.88
Polr2d	0.57	2210417K05Rik	0.19	Dffb	-0.19	Ampd3	-1.88
Gtppb5	0.57	Zfp319	0.19	Abcd4	-0.19	Arid5a	-1.88
Trappc4	0.57	Lrfn1	0.19	Bcar1	-0.19	Nek6	-1.88
Pddc1	0.57	Ubr3	0.19	6720463M24Rik	-0.19	C1qtnf1	-1.88
Atp11a	0.57	Zfp526	0.19	Acot10	-0.19	Lifr	-1.88
Bmp3	0.57	Ly6e	0.18	Plekha7	-0.19	B4galnt2	-1.88
Gtppb1	0.57	Dus2l	0.18	Ppm1d	-0.19	Hoxb2	-1.88
Rarg	0.56	Paxip1	0.18	Scly	-0.19	Kcne3	-1.88
Mrps12	0.56	Mrpl17	0.18	Vars	-0.19	Bmp6	-1.89
Ikzf5	0.56	Tmem106c	0.18	Ypel2	-0.19	A530020G20Rik	-1.89
Bend7	0.56	Brd8	0.18	Tshz3	-0.19	Pkd2	-1.89
1190007107Rik	0.56	Gtf2f2	0.18	Rreb1	-0.19	Ppap2a	-1.89
Bahcc1	0.56	Gpr56	0.18	Atad2	-0.19	Kcnmb1	-1.89
Sytl1	0.56	Acsf3	0.18	Pole	-0.19	Gpr77	-1.89
Bcl7a	0.56	Actr10	0.18	Cdca2	-0.19	Gpr18	-1.89
Sec61b	0.56	Zdhhc21	0.18	Hdac10	-0.19	Tnfsf13b	-1.90
2900056M20Rik	0.56	Spopl	0.18	Tbc1d5	-0.19	Rhou	-1.90
1810014B01Rik	0.56	Mpdu1	0.18	Rnf19a	-0.19	Cxcl2	-1.90
Sel1l3	0.56	Cask	0.18	Ino80d	-0.19	Stac2	-1.90
Trmt61a	0.56	Faf1	0.18	Zfp931	-0.19	Cd97	-1.90
Mlf2	0.56	Scyl3	0.18	Ccdc57	-0.19	Lgals1	-1.90
Gm15445	0.56	Mtx2	0.18	Dgke	-0.19	Engase	-1.90
Tstd1	0.56	Rtel1	0.18	Mycbp	-0.19	Iffo1	-1.90
Tfcp2	0.56	9430023L20Rik	0.18	Gins2	-0.19	Il1rn	-1.91
Pus1	0.56	Gmps	0.18	Rhbdl3	-0.19	Asap3	-1.91
Rangap1	0.56	Pmpca	0.18	Dvl1	-0.19	Notch3	-1.91
Lcmt1	0.56	1810019J16Rik	0.18	2610507I01Rik	-0.19	Crtap	-1.91
Unc13b	0.56	Cdc42ep4	0.18	Zfp280c	-0.19	Pde8a	-1.91
Tmem141	0.56	Sin3a	0.18	Al837181	-0.19	Cd8b1	-1.91
H47	0.56	Rnase4	0.18	Cxx1c	-0.19	Islr	-1.91
Mrps36-ps1	0.56	Tcf4	0.18		4-Sep	Il17ra	-1.91
Ins1	0.56	Cherp	0.18	Myo9a	-0.19	Fkbp7	-1.91
Atp9a	0.56	3110056K07Rik	0.18	Baz1a	-0.19	Ifi202b	-1.92
Gtf2i	0.56	Spata5l1	0.18	Zfp658	-0.19	Kmo	-1.92
Ncrna00085	0.56	Trappc6b	0.18		7-Sep	Sh2b2	-1.92
Mecr	0.56	Ap2a1	0.18	Pars2	-0.19	Hspg2	-1.92
G6pc3	0.56	Gm3436	0.18	Gpx4	-0.19	Il1b	-1.92

Ihh	0.56	Zfp763	0.18	Herc6	-0.19	E230001N04Rik	-1.92
Dnajc17	0.56	Gorasp2	0.18	Tk2	-0.19	Cxcr4	-1.92
Rpl24	0.56	A530017D24Rik	0.18	Atp6v0d2	-0.19	Ggta1	-1.92
Smurf2	0.56	Wapal	0.18	Xrcc4	-0.19	Stom	-1.92
Farsa	0.56	Ddx23	0.18	Kdm3b	-0.19	Ap1s2	-1.92
Dtwd1	0.56	Arrdc1	0.18	Fam160a1	-0.19	Rap1gap2	-1.92
RP23-349B16.3	0.56	Dars	0.18	Exoc6b	-0.19	Lhfp	-1.93
D2hgdh	0.56	Chmp4b	0.18	Coq3	-0.19	Duox2	-1.93
Mki67ip	0.56	Ascc1	0.18	Dnajc13	-0.19	Cd93	-1.93
Rps11	0.56	Shprh	0.18	4930444A02Rik	-0.19	Ptprcap	-1.93
Rtn2	0.56	Ankrd9	0.18	Hemk1	-0.19	Adap1	-1.94
Tbc1d16	0.56	Mns1	0.18	Blvra	-0.19	Sphk1	-1.94
Slc35e2	0.56	Defb6	0.18	Ppp1r3c	-0.19	Expi	-1.94
Lad1	0.56	Slc35a4	0.18	Fam164a	-0.19	Colec12	-1.94
Rsad1	0.56	Cox19	0.18	Gtpbp2	-0.19	Dpysl2	-1.94
Mmp11	0.56	Helz	0.18	Rg9mtd2	-0.19	Arhgap25	-1.94
Ppa1	0.56	Zfp128	0.18	Ppfibp1	-0.20	Fkbp14	-1.94
Slu7	0.56	Abhd8	0.18	Dhfr	-0.20	Kbtbd11	-1.94
Mettl5	0.56	Naip6	0.18	Cnst	-0.20	Fmo1	-1.94
Btbd2	0.56	A830080D01Rik	0.18	Slc24a3	-0.20	Spns2	-1.94
Vgll4	0.56	Adamts15	0.18	2810008M24Rik	-0.20	Aldh1a1	-1.94
Ly75	0.56	Gng11	0.18	Rbbp9	-0.20	Lrmp	-1.95
Thumpd3	0.56	Hist1h1b	0.18	Setdb2	-0.20	Ptpro	-1.95
1810059H22Rik	0.56	Spata5	0.18	Ldha	-0.20	Arhgap24	-1.95
1810019D21Rik	0.56	Arfgef1	0.18	Fnip2	-0.20	Mgll	-1.95
Arhgef5	0.56	Trim23	0.18	Tmprss11g	-0.20	Serpinh1	-1.95
2810422O20Rik	0.55	2700062C07Rik	0.18	Glmn	-0.20	Gzma	-1.96
Zwint	0.55	Ankrd17	0.18	Arl10	-0.20	9030625A04Rik	-1.96
Mllt6	0.55	Akr1a1	0.18	Pcna	-0.20	Nr2f1	-1.96
Scrn3	0.55	D3Erttd254e	0.18	Cish	-0.20	Pde3b	-1.96
Tuba1c	0.55	Blk	0.18	Rp2h	-0.20	Snta1	-1.96
Srsf11	0.55	Tubgcp4	0.18	Otud3	-0.20	Lrp1	-1.96
Fkbp1	0.55	Prpf19	0.18	Cep290	-0.20	Serpina3f	-1.96
AU022252	0.55	Tpi1	0.18	5031439G07Rik	-0.20	Bcl2a1a	-1.96
Arhgef19	0.55	Ccdc17	0.18	Hipk1	-0.20	Ltf	-1.96
Eif3i	0.55	Senp5	0.18	Acsl1	-0.20	Epsti1	-1.96
Rps9	0.55	Ccdc25	0.18	Atp11c	-0.20	Ehbp1l1	-1.96
Ilkap	0.55	Letm1	0.18	1810043G02Rik	-0.20	Slc7a7	-1.96
Mbtd1	0.55	Usp10	0.18	Mgat3	-0.20	Tifa	-1.97
Rpl19	0.55	Fam168b	0.18	9130401M01Rik	-0.20	Lama1	-1.97
Map3k4	0.55	Dctn3	0.18	Cdh24	-0.20	Tnfrsf1b	-1.97
2510002D24Rik	0.55	Klhl24	0.18	Troap	-0.20	Gja5	-1.97
Pi4k2b	0.55	Hunk	0.18	Shb	-0.20	Anxa1	-1.97

Wrnip1	0.55	Ctcf	0.18	Zdhhc14	-0.20	Vav1	-1.97
Tfg	0.55	Rpusd1	0.18	Acp1	-0.20	Ccl3	-1.97
Tsr1	0.55	Baz2a	0.18	Dach2	-0.20	Slamf7	-1.97
Rundc1	0.55	Bcdin3d	0.18	5730437N04Rik	-0.20	Hbb-b2	-1.98
Pak4	0.55	Zfp949	0.18	G6pd2	-0.20	Lgmn	-1.98
Dusp9	0.55	Ggcx	0.18	Sipa1l2	-0.20	Defa22	-1.98
Polr2e	0.55	Plrg1	0.18	Srd5a1	-0.20	Gpr25	-1.98
Zfyve9	0.55	Prkcd	0.18	Aip	-0.20	Pla2g2e	-1.99
Spnb3	0.55	Ube3c	0.18	Ctdp1	-0.20	Fam5c	-1.99
Mtap9	0.55	Mcat	0.18	Trappc2	-0.20	Gm16685	-1.99
5S_rRNA	0.55	Cenpc1	0.18	Gm561	-0.20	Amica1	-1.99
Tyw1	0.55	Siah2	0.18	Lrdd	-0.20	Gfra4	-1.99
Ube2v2	0.55	Rmnd5a	0.18	Tapbp1	-0.20	9030418K01Rik	-2.00
Kri1	0.55	Sec14l2	0.18	Krt7	-0.20	Cd68	-2.00
Cox7a2l	0.55	Sap30l	0.18	Twf1	-0.20	Ccdc69	-2.00
AI462493	0.55	Clp1	0.18	Ap1m1	-0.20	Jak3	-2.00
Pcdh18	0.55	Zfp937	0.18	Gm3452	-0.20	Lpxn	-2.00
Arl16	0.55	Gm5436	0.18	Hspa4l	-0.20	Pdzrn3	-2.00
Arvcf	0.55	Cnn3	0.18	Mapkapk3	-0.20	Pla2g7	-2.01
Vldlr	0.55	Zfp251	0.18	C030014I23Rik	-0.20	Dnm1	-2.01
Tacc2	0.55	Hmgxb3	0.18	Gcat	-0.20	BC013712	-2.01
Xrcc6	0.55	Fam3a	0.18	Osbpl11	-0.20	Wfdc2	-2.01
Trappc6a	0.55	Ift74	0.18	Sec24d	-0.20	C1qa	-2.01
Ephx4	0.55	Cse1l	0.18	Atp9b	-0.20	Arhgap30	-2.01
Cachd1	0.54	Nub1	0.18	Plxna1	-0.20	Pcdhb7	-2.01
Dcun1d2	0.54	Fam46c	0.18	Mrip	-0.20	Scara3	-2.02
Pdcd4	0.54	Mrpl46	0.18	Tmc4	-0.20	Cnp	-2.02
Dtwd2	0.54	Slc38a2	0.18	Zfp809	-0.20	Ptpr	-2.02
Slc22a5	0.54	Rnf168	0.18	Aldh3b2	-0.20	Erg	-2.03
Ttc1	0.54	Tmem80	0.18	3110056O03Rik	-0.20	H2-Ob	-2.03
Fbxl6	0.54	Zfp146	0.18	Zfp185	-0.20	Ushbp1	-2.03
4933407H18Rik	0.54	Zbtb33	0.18	Map4k2	-0.20	5S_rRNA	-2.03
Gm16515	0.54	Wbp5	0.18	Kif13b	-0.20	Gm11379	-2.03
Fgd1	0.54	Krcc1	0.18	Etv5	-0.20	n-R5s200	-2.03
Ubqln1	0.54	Echdc1	0.18	Pcbp4	-0.20	Clip3	-2.04
Polr3e	0.54	Mta2	0.18	Chaf1a	-0.20	Pcolce	-2.04
Ywhah	0.54	Wdr5	0.18	Eif2c3	-0.20	Lpgat1	-2.04
Snrpd3	0.54	Utp11l	0.18	Erlin2	-0.20	Spp1	-2.04
Zmym5	0.54	Sardh	0.18	Phf17	-0.21	Cd80	-2.04
Tra2b	0.54	Kptn	0.18	Tbc1d22a	-0.21	Emx2	-2.05
Gm10159	0.54	Siva1	0.18	Rab3d	-0.21	Gbp6	-2.05
Bcl2l12	0.54	Zfp112	0.18	Slc30a4	-0.21	Kcnj15	-2.05
Rps19	0.54	Mea1	0.18	Sirt2	-0.21	Tbxas1	-2.05

Cadps2	0.54	Slc35a5	0.18	Epcam	-0.21	Barx2	-2.05
Dhx33	0.54	Impad1	0.18	Prpsap2	-0.21	Gpr124	-2.05
Hmgb1	0.54	BC023829	0.18	Klf13	-0.21	Tmem106a	-2.06
Zfp955b	0.54	Elp4	0.18	Slc10a3	-0.21	Gsdmd	-2.06
Fam120b	0.54	Pgp	0.18	Rab7	-0.21	Hoxb8	-2.06
Gm15884	0.54	Asb7	0.18	Ngfr	-0.21	Cacna1g	-2.06
Fam185a	0.54	Spop	0.18	Cox4i2	-0.21	AA467197	-2.07
Nme7	0.54	Ift172	0.18	Elf2	-0.21	Mrap	-2.07
Hras1	0.54	Ube2b	0.18	Tecpr1	-0.21	Nfatc4	-2.07
Nat9	0.54	Zdhhc4	0.18	Oas1g	-0.21	Zfp449	-2.07
2610002J02Rik	0.54	AU019823	0.18	2610039C10Rik	-0.21	Heg1	-2.07
Cd320	0.54	Arl5b	0.18	Spag9	-0.21	Pappa	-2.07
Sars	0.54	Gm12942	0.18	Cep250	-0.21	Pltp	-2.07
Efcab4a	0.54	Pcf11	0.18	Hyls1	-0.21	Pcp4l1	-2.07
Timm10	0.54	Gps2	0.18	Spin4	-0.21	Cacna1d	-2.07
Dlgap4	0.54	Uba1	0.18	Igf2bp2	-0.21	Lif	-2.07
Wdr61	0.54	Brd4	0.18	Col5a3	-0.21	Nlrc4	-2.07
Polrmt	0.54	Setbp1	0.17	Cryz	-0.21	D18Ert653e	-2.07
N4bp2	0.54	Hnrnpr	0.17	Zfp580	-0.21	Fam111a	-2.07
Nktr	0.54	D630032N06Rik	0.17	BC017643	-0.21	Trim30d	-2.07
Nme1	0.54	Npat	0.17	Orai3	-0.21	Sema3g	-2.08
Kctd14	0.54	Lonp2	0.17	Ganc	-0.21	Mpp6	-2.08
1700086O06Rik	0.54	Acot2	0.17	Ift122	-0.21	Slc16a1	-2.08
Fastkd5	0.54	Snhg3	0.17	Gys1	-0.21	Fam167b	-2.08
Bcor	0.54	1700112E06Rik	0.17	Snx29	-0.21	Ptprn	-2.08
Orc6	0.54	Helq	0.17	2700049A03Rik	-0.21	Fgd5	-2.08
Wdr12	0.54	Ppp2r5e	0.17	Prim1	-0.21	Rad51l1	-2.08
Upf1	0.54	Cerk	0.17	Rfc3	-0.21	Gm10345	-2.09
Rrp8	0.54	Ufm1	0.17	Pfkl	-0.21	Ppp1r3b	-2.09
Zfp691	0.54	Tnfrsf21	0.17	5730455P16Rik	-0.21	S100b	-2.09
Lphn1	0.54	Dus3l	0.17	Tmpo	-0.21	Syn1	-2.09
Npm1	0.54	Yes1	0.17	Malt1	-0.21	Pcdhb22	-2.09
Top1	0.54	2610301B20Rik	0.17	Zfp53	-0.21	Ptgs2	-2.10
Zfp2	0.54	Det1	0.17	Arhgap22	-0.21	Dcb1	-2.10
Phlpp1	0.54	1110002N22Rik	0.17	Macf1	-0.21	Thbd	-2.10
Rpp21	0.53	Dolpp1	0.17	Pogk	-0.21	Pld4	-2.10
Hagh	0.53	0610009D07Rik	0.17	Mtap	-0.21	B4galt2	-2.10
Ints8	0.53	AU040320	0.17	Psen2	-0.21	1200009I06Rik	-2.11
C330013E15Rik	0.53	Dazap1	0.17	Gm527	-0.21	Abat	-2.11
Ckmt1	0.53	Bysl	0.17	Gna13	-0.21	Fkbp10	-2.11
Snx7	0.53	Mfsd12	0.17	Uxs1	-0.21	Gm5860	-2.11
Ccdc50	0.53	Daam1	0.17	Pou2f1	-0.21	Vim	-2.11
Tmem11	0.53	Zyg11b	0.17	Vegfa	-0.21	Lipg	-2.12

Scaf4	0.53	1110004E09Rik	0.17	Nubp1	-0.21	Rbm46	-2.12
Tubg1	0.53	Clec16a	0.17	C030044B11Rik	-0.21	Plaur	-2.12
Tsen15	0.53	Zmiz2	0.17	Tctn1	-0.21	Csf1	-2.12
Col4a3bp	0.53	Gfod2	0.17	Sec22c	-0.21	Gsta3	-2.12
2410131K14Rik	0.53	Idh3g	0.17	Hook3	-0.21	Hebp1	-2.12
Dnajc11	0.53	Pard6b	0.17	Clic1	-0.21	Rsph1	-2.12
Phkg2	0.53	Stx8	0.17	Ptplad1	-0.21	Plxnc1	-2.13
Bet1	0.53	Rab18	0.17	Esd	-0.21	Stmn2	-2.13
Ptma	0.53	1110054O05Rik	0.17	Whsc1	-0.21	Aif1	-2.13
2010012P19Rik	0.53	Ube2s	0.17	Usp18	-0.22	Fyb	-2.13
Tspan9	0.53	Rnf40	0.17	Atp6v0a2	-0.22	Tacr1	-2.13
Zfp335	0.53	Fam98b	0.17	Ttl5	-0.22	Zfhx4	-2.13
Gm17193	0.53	Nkrf	0.17	Tecpr2	-0.22	S1pr1	-2.13
Imp3	0.53	Papd7	0.17	Mbnl3	-0.22	Tlr6	-2.15
Dapk3	0.53	Rpl30	0.17	Fam188a	-0.22	Cdh11	-2.15
BC002059	0.53	Tm9sf1	0.17	Vasp	-0.22	Susd3	-2.15
Morc2a	0.53	Pigb	0.17	Cntrob	-0.22	Gpr176	-2.15
Eif4b	0.53	Mudeng	0.17	Sik2	-0.22	Synpo2	-2.15
Paip2b	0.53	Fbxo31	0.17	Dock1	-0.22	Was	-2.15
Suds3	0.53	Gnas	0.17	Lrsam1	-0.22	Lst1	-2.15
Acox1	0.53	Wdr59	0.17	2610001J05Rik	-0.22	Tnip3	-2.16
Slc25a28	0.53	Fam149b	0.17	Chac2	-0.22	C1qc	-2.16
Fbrsl1	0.53	Smndc1	0.17	Zfp703	-0.22	Rnf186	-2.16
Fubp3	0.53	Sucla2	0.17	4930578N16Rik	-0.22	Dkk1	-2.16
Cir1	0.53	Sypl	0.17	Klraq1	-0.22	Naip2	-2.16
Sco2	0.53	Psmb6	0.17	2610034B18Rik	-0.22	Cd300lg	-2.16
Cdkl2	0.53	Adnp2	0.17	Abca13	-0.22	Prelp	-2.17
Qtrtd1	0.53	E130309D02Rik	0.17	Fbxl17	-0.22	Il6st	-2.17
Ankrd12	0.53	Pds5a	0.17	Chmp6	-0.22	Nod1	-2.17
Pcgf1	0.53	Tbcc	0.17	Cbr2	-0.22	4831426119Rik	-2.18
Psmc8	0.53	Tada1	0.17	Sidt2	-0.22	Traf3ip3	-2.18
Zfp110	0.53	Snf8	0.17	Gm17619	-0.22	Cdk14	-2.18
Ppif	0.53	Cwc25	0.17	Arrdc4	-0.22	Rapgef3	-2.19
Abhd2	0.53	Rala	0.17	Capns1	-0.22	Sulf2	-2.19
Tmub1	0.53	Mdm2	0.17	2810008D09Rik	-0.22	E030010A14Rik	-2.19
Hnrnpu	0.53	Ddx31	0.17	5830418K08Rik	-0.22	Myl9	-2.19
Rapgef1	0.53	Fam73a	0.17	Bcl7c	-0.22	Acvr1	-2.19
Nr1d1	0.53	Cdca7l	0.17	Bloc1s2	-0.22	Prf1	-2.19
Mrpl34	0.53	Nup88	0.17	Cited2	-0.22	Slc15a2	-2.20
Tmem39a	0.53	Cars2	0.17	Ufsp2	-0.22	Csf1r	-2.20
Mlycd	0.53	1810012P15Rik	0.17	Fam174a	-0.22	Gbx2	-2.20
1810063B07Rik	0.53	Pibf1	0.17	Gdi2	-0.22	Lrp3	-2.20
Gm13205	0.53	Mrps14	0.17	Hat1	-0.22	Ms4a7	-2.20

Pcmt1	0.53	Mettl22	0.17	Ptptra	-0.22	Rnd1	-2.20
Hira	0.52	Zfp169	0.17	Clic4	-0.22	Ccr2	-2.20
Uso1	0.52	Ptgr2	0.17	Ddhd2	-0.22	Maf	-2.20
Slc35a3	0.52	Nxn	0.17	Kdelc1	-0.22	1700066B19Rik	-2.21
Pdpr	0.52	Zc3hav1	0.17	2310004I24Rik	-0.22	Rhoj	-2.21
Bri3bp	0.52	Ankib1	0.17	Inf2	-0.22	Snai1	-2.21
Kif1c	0.52	Otud7b	0.17	Ube2f	-0.22	Tnfsf14	-2.21
Zc3h13	0.52	Plekhn1	0.17	Prkd3	-0.22	Adc	-2.21
Plekhg5	0.52	Zfp626	0.17	Ptges2	-0.22	Rab42-ps	-2.21
Cdc25a	0.52	Papolg	0.17	Pgpep1	-0.22	Srgn	-2.21
Deaf1	0.52	Lsm10	0.17	Fgfr1	-0.22	Clec4n	-2.21
Fam192a	0.52	Selk	0.17	Arhgef1	-0.22	Fes	-2.22
Tmem56	0.52	Smap1	0.17	Mrpl13	-0.22	Arxes2	-2.22
Ppil2	0.52	Zdhhc8	0.17	Tmem14c	-0.22	Cxcl9	-2.22
Sf3b4	0.52	Slc35b3	0.17	M6pr	-0.22	Slc5a9	-2.22
Ubox5	0.52	Igsf5	0.17	Nbea	-0.22	H2-Q2	-2.22
Gtf2f1	0.52	Pafah1b3	0.17	Fam117a	-0.22	Ripply3	-2.23
Prdm15	0.52	Rspry1	0.17	Fan1	-0.22	Plscr2	-2.23
Srp19	0.52	Fntb	0.17	Slc16a12	-0.22	Numbl	-2.23
Mfsd5	0.52	Glce	0.17	Fnip1	-0.22	Rbm24	-2.23
Glb1l2	0.52	Ndufa1	0.17	Pelo	-0.22	Myo1f	-2.24
Gm17024	0.52	Tcerg1	0.17	Cap2	-0.22	Flnc	-2.24
Thnsl2	0.52	Eya3	0.17	Dennd1a	-0.23	Acp5	-2.24
Nans	0.52	Chfr	0.17	Ap4e1	-0.23	Itgb8	-2.24
Pck2	0.52	Ccm2	0.17	Slc35e1	-0.23	Kif1a	-2.24
Rpl26	0.52	Cdk16	0.17	Trak2	-0.23	Hcls1	-2.24
Set	0.52	Ccnk	0.17	Ech1	-0.23	Kcnq1	-2.25
Klc3	0.52	Sowaha	0.17	Gtf3c3	-0.23	C1qb	-2.25
Mdh1	0.52	Nat14	0.17	Rfc4	-0.23	Fkbp1b	-2.25
Ccdc34	0.52	Tirap	0.17	Mapk14	-0.23	B3gnt8	-2.25
Timm9	0.52	Psm2	0.17	Tgfa	-0.23	Marco	-2.25
Sf3a2	0.52	Slmap	0.17	Mast3	-0.23	Tnfaip8l2	-2.25
Eef1d	0.52	Diablo	0.17	Fam122b	-0.23	Aldh3b1	-2.25
Notch1	0.52	Cby1	0.17	Klhl18	-0.23	Mrc2	-2.25
Nemf	0.52	Mbtps2	0.17	Icosl	-0.23	Htra3	-2.25
Sirt6	0.52	Cope	0.17	Afg3l1	-0.23	Ppbp	-2.25
Rpsa-ps10	0.52	Gtf2h1	0.17	Slc35f2	-0.23	Lcn2	-2.26
Eif2b1	0.52	Nudt13	0.17	Zfp108	-0.23	Csdc2	-2.27
Fastkd1	0.52	Hyal1	0.17	Mtg1	-0.23	Rragd	-2.27
Nhlrc2	0.52	Yme1l1	0.17	Sdf4	-0.23	Rasl11a	-2.27
Elavl1	0.52	Nsun2	0.17	1110020G09Rik	-0.23	Arsj	-2.27
Mapk1ip1	0.52	Hif1an	0.17	Fam189b	-0.23	Arhgap9	-2.27
Cdc42bpg	0.52	Rheb	0.17	Npc2	-0.23	Slc39a14	-2.28

Irf3	0.52	Ranbp1	0.17	Nsmaf	-0.23	Col16a1	-2.28
Saal1	0.52	1600027N09Rik	0.17	Btd	-0.23	Col6a3	-2.28
Snx33	0.52	Gtf2h5	0.17	Top3a	-0.23	1190002H23Rik	-2.28
Ppme1	0.52	Bnip3l	0.17	Strn	-0.23	Selplg	-2.28
Mbtps1	0.52	Fars2	0.17	Pgap1	-0.23	Itgal	-2.28
Rpn1	0.52	Icmt	0.17	Gm973	-0.23	Hsd11b1	-2.28
Nckap5l	0.52	Zfp507	0.17	Gm6685	-0.23	Hoxb4	-2.28
Mogs	0.52	Mga	0.17	Cenpp	-0.23	Gkn3	-2.28
0610009B22Rik	0.52	Hdgfrp2	0.17	Ebpl	-0.23	Klra2	-2.29
4930455C21Rik	0.52	Coch	0.17	AW554918	-0.23	Gpr182	-2.29
Polr2g	0.52	Supt4h1	0.17	Pou6f1	-0.23	Il16	-2.29
Pccb	0.52	Pdgfd	0.16	Adam19	-0.23	Tyrobp	-2.29
N6amt2	0.52	Anxa5	0.16	Kctd18	-0.23	Ptpn18	-2.29
Tiprl	0.52	Zfp280b	0.16	Ezh1	-0.23	Npas2	-2.29
Ube2cbp	0.52	Gfm1	0.16	Vill	-0.23	Fam26f	-2.30
Napa	0.52	Ost4	0.16	Ier5	-0.23	Kcnab2	-2.30
Gpn3	0.52	Idh3b	0.16	Lmo4	-0.23	Dennd1c	-2.30
Lsm3	0.52	Kpnb1	0.16	Sgpl1	-0.23	E130203B14Rik	-2.30
Fcf1	0.52	Papola	0.16	Nqo2	-0.23	Mab2113	-2.30
Pdk2	0.52	Fbxo25	0.16	Nrip1	-0.23	Pstpip2	-2.30
Ncbp2	0.52	Slc25a11	0.16	Mms22l	-0.23	Palm	-2.30
Tmed4	0.52	Phf8	0.16	Gm3604	-0.23	Abtb2	-2.31
Anp32b	0.52	Ythdf3	0.16	Xrn2	-0.23	Slc41a3	-2.31
Ankrd13c	0.52	Gtf2h4	0.16	Pard6a	-0.23	Mustn1	-2.31
Pprc1	0.52	Dlst	0.16	Dram2	-0.23	Pfkfb3	-2.32
Sfr1	0.51	Socs5	0.16	Tep1	-0.23	Pik3cg	-2.32
Spata2l	0.51	Cars	0.16	Lrrc58	-0.23	Gm13178	-2.32
Pygo2	0.51	Pgcp	0.16	Arrb2	-0.23	Kcne4	-2.32
Prr12	0.51	Cenpb	0.16	BC024659	-0.24	Slc5a8	-2.32
Ubn2	0.51	Pno1	0.16	Alg9	-0.24	P2ry13	-2.32
Kdm5c	0.51	Pon3	0.16	Cdh1	-0.24	Emp3	-2.33
Suclg2	0.51	Gemin5	0.16	Zfp407	-0.24	Gcnt1	-2.33
Psmb3	0.51	Nfic	0.16	C130039O16Rik	-0.24	Trim47	-2.33
Pdap1	0.51	Ppib	0.16	Snx4	-0.24	Kdelr3	-2.34
Pdlim4	0.51	Thap3	0.16	Pppde1	-0.24	Prkcb	-2.34
Eme2	0.51	Ints6	0.16	Dhx40	-0.24	Xdh	-2.35
Atg4c	0.51	Rfx7	0.16	Prkch	-0.24	Cygb	-2.35
Jarid2	0.51	2700089E24Rik	0.16	Wdr41	-0.24	B3gnt3	-2.35
Eif5b	0.51	Rasl11b	0.16	Vamp1	-0.24	Nox4	-2.35
Pias3	0.51	Ctdsp1	0.16	Tlr3	-0.24	Samsn1	-2.35
Ccdc85c	0.51	Polr3c	0.16	Zfc3h1	-0.24	Mrgprf	-2.35
Arfp1	0.51	Fam108c	0.16	Zfp617	-0.24	Plek	-2.35
Ppfia4	0.51	Gab1	0.16	Slc25a4	-0.24	Hlx	-2.35

Kctd7	0.51	Zfp746	0.16	Nfu1	-0.24	Slc26a4	-2.35
Cryl1	0.51	Frmd8	0.16	A530054K11Rik	-0.24	Atp1b2	-2.36
Ap1ar	0.51	Ankrd40	0.16	Nek7	-0.24	Adamts4	-2.36
Tmem183a	0.51	Use1	0.16	Atox1	-0.24	Chga	-2.36
Heatr5b	0.51	Senp6	0.16	Nsf	-0.24	Hcst	-2.36
D730003I15Rik	0.51	Cfdp1	0.16	Ttl	-0.24	Arhgap4	-2.36
Pald	0.51	Gm11974	0.16	Fen1	-0.24	4632428N05Rik	-2.37
Akt3	0.51	Macc1	0.16	Mboat7	-0.24	Hoxb6	-2.37
Tmem186	0.51	Acsf2	0.16	Gm9581	-0.24	2400009B08Rik	-2.37
N6amt1	0.51	Pip4k2b	0.16	Gprasp1	-0.24	Ccdc8	-2.37
Prpf40b	0.51	Rpa2	0.16	Cyth3	-0.24	Sdpr	-2.37
D330023K18Rik	0.51	Kctd1	0.16	Rps6ka1	-0.24	Gm5454	-2.38
Gsta4	0.51	Cwc22	0.16	Srpk2	-0.24	Aqp9	-2.38
Serac1	0.51	Crkl	0.16	Cog5	-0.24	Kng2	-2.38
Ndufs7	0.51	Cflar	0.16	Zfp874a	-0.24	Gapt	-2.38
Osgepl1	0.51	Ctu1	0.16	Got1	-0.24	Gm14850	-2.39
Mettl13	0.51	Gcn1l1	0.16	Wwp2	-0.24	Cybb	-2.39
Fbxl15	0.51	Rufy2	0.16	Clic6	-0.24	Cysltr1	-2.39
Camsap1	0.51	Rnpc3	0.16	Tmem9b	-0.24	Vdr	-2.40
Krtcap3	0.51	Psma5	0.16	Plekhg3	-0.24	Obsl1	-2.40
O610031J06Rik	0.51	4933424B01Rik	0.16	Dym	-0.24	Fstl3	-2.40
Pfkfb2	0.51	Cdc16	0.16	Gins1	-0.24	Plekha4	-2.40
Ythdc1	0.51	2900005J15Rik	0.16	Tbcel	-0.24	A630001G21Rik	-2.41
Znhit2-ps	0.51	Ttf1	0.16	Srxn1	-0.24	Syt15	-2.41
Akap1	0.51	Ube4a	0.16	Dna2	-0.24	Bend6	-2.41
Araf	0.51	Csnk1e	0.16	Utp20	-0.24	Btk	-2.41
Mrpl15	0.51	Tbl3	0.16	Lrp12	-0.24	Gpr141	-2.41
Dut	0.51	Leprotl1	0.16	Rxra	-0.24	Cyth4	-2.41
Sugt1	0.51	Fam48a	0.16	Gpr39	-0.24	Ror1	-2.41
Ngdn	0.51	9830147E19Rik	0.16	Gm13431	-0.24	Myb	-2.41
Zfp239	0.51	Lyar	0.16	Zbtb38	-0.24	Atp10b	-2.41
Kcnk1	0.51	Apip	0.16	Dock8	-0.24	Clca2	-2.42
4931406C07Rik	0.51	Snrpc	0.16	Mbnl1	-0.24	9530034E10Rik	-2.42
Dpysl3	0.51	Fibp	0.16	Armc7	-0.24	Sh3tc1	-2.42
Tmem150a	0.50	Gm5576	0.16	Rin2	-0.24	Zfp354c	-2.42
Pigl	0.50	5430405H02Rik	0.16	Vsig10	-0.24	Prkcdbp	-2.42
Cops7a	0.50	Ppwd1	0.16	1110018G07Rik	-0.24	Itga9	-2.42
Frk	0.50	Macrod1	0.16	Ndufb8	-0.24	Grrp1	-2.42
Fer1l4	0.50	Mapk7	0.16	Arl15	-0.25	Igf1	-2.43
Sorbs2	0.50	Mysm1	0.16	G6pdx	-0.25	Oas2	-2.43
Nccrp1	0.50	Prrc2c	0.16	Ccdc93	-0.25	Susd2	-2.43
Sec61a1	0.50	2810021B07Rik	0.16	Recql	-0.25	Tpm2	-2.43
Mras	0.50	Rnf7	0.16	2-Mar	-0.25	Fgfbp1	-2.43

Ggt1	0.50	Synrg	0.16	Itsn2	-0.25	Edn1	-2.44
2810002N01Rik	0.50	Gm5590	0.16	Wasf2	-0.25	Gm10567	-2.44
Mon1a	0.50	Mrpl9	0.16	Tipin	-0.25	Fn1	-2.44
Micall1	0.50	Coil	0.16	Bbs1	-0.25	Tlr5	-2.44
Rps15	0.50	Zfp799	0.16	Gpam	-0.25	Eln	-2.44
Tmem102	0.50	2610021A01Rik	0.16	Sfmbt1	-0.25	Tgm2	-2.44
Nudt6	0.50	Uggt1	0.16	Samd5	-0.25	Lrrc26	-2.44
Lamb3	0.50	Wnt6	0.16	Fam126b	-0.25	Sla	-2.44
Chd4	0.50	Clock	0.16	Dclre1a	-0.25	Hmha1	-2.45
Glul	0.50	Mlst8	0.16	Nckipsd	-0.25	Sparcl1	-2.45
Lrrc41	0.50	Ski	0.16	Hipk3	-0.25	Aebp1	-2.45
Pick1	0.50	Smek2	0.16	Higd1b	-0.25	Dennd4a	-2.45
Mttp	0.50	Cdc3711	0.16	Map4k5	-0.25	BC020535	-2.45
Atxn7l2	0.50	Tceanc	0.16	Trdmt1	-0.25	Oaf	-2.46
2610507B11Rik	0.50	Clic3	0.16	Ranbp9	-0.25	P2ry14	-2.46
Zbtb20	0.50	2410066E13Rik	0.16	Agbl5	-0.25	Thbs1	-2.46
Fdxr	0.50	Cd81	0.16	6030446N20Rik	-0.25	Reck	-2.46
Aktip	0.50	2010107E04Rik	0.16	Cbl	-0.25	Ccdc80	-2.47
Cct3	0.50	Zfp111	0.16	Maml1	-0.25	Emr1	-2.47
Mta1	0.50	Rab11b	0.16	Ankrd42	-0.25	D14Ertd668e	-2.47
Mtif2	0.50	1810043H04Rik	0.16	Pdgfa	-0.25	Rorb	-2.47
Klhdc7a	0.50	Bag6	0.16	Dzip1l	-0.25	Xpnpep2	-2.47
Eral1	0.50	Gmeb1	0.16	Tm9sf4	-0.25	Adcyap1r1	-2.47
Zfp317	0.50	Fbxo33	0.16	Usp3	-0.25	Fermt3	-2.48
5730455O13Rik	0.50	Sbsn	0.16	Ptpn9	-0.25	Nhs	-2.48
Ndufb4	0.50	Copg2	0.16	Gm11266	-0.25	Lyz2	-2.48
Thumpd1	0.50	Rpe	0.16	Irgm2	-0.25	Fxyd5	-2.48
Cyb561d2	0.50	Wdr83	0.16	Nptn	-0.25	Bin2	-2.48
Rnf128	0.50	Syf2	0.16	Insr	-0.25	Coro1a	-2.49
Chchd8	0.50	Stat5b	0.16	Hdac11	-0.25	A430107O13Rik	-2.49
Rictor	0.50	Srsf5	0.16	Itgav	-0.25	Mxra8	-2.49
Tjap1	0.50	Evc	0.16	1700020O03Rik	-0.25	Evi2b	-2.49
Rpp30	0.50	Ctbp1	0.16	Arhgef11	-0.25	Ankrd22	-2.50
D10Wsu102e	0.50	Sec16a	0.16	Stk38	-0.25	Csf2rb2	-2.50
Btrc	0.50	Eif2b2	0.16	Hiatl1	-0.25	Fxyd6	-2.50
Nop10	0.50	8030462N17Rik	0.16	Nek9	-0.25	Epdr1	-2.50
Dguok	0.50	Uqcrc2	0.16	Rapgef1	-0.25	C7	-2.50
Ddx41	0.50	Etfdh	0.16	Apol6	-0.25	Nlrp3	-2.50
Nudc	0.50	Rab2b	0.16	Cdk18	-0.25	Cyp4f18	-2.51
Trp53bp2	0.50	Trmt2a	0.16	Siae	-0.25	Slc6a14	-2.51
Arpc5l	0.49	Tyw3	0.16	Rchy1	-0.25	lpo11	-2.51
Fahd2a	0.49	Ppp3r1	0.16	Rttn	-0.25	Osm	-2.51
Mrps16	0.49	5730494N06Rik	0.16	Cnih	-0.25	Hgf	-2.51

Ivl	0.49	Ints1	0.16	Nap111	-0.25	Tnfrsf13b	-2.52
1810063B05Rik	0.49	Spna2	0.16	Asb1	-0.25	Clec5a	-2.53
Aamp	0.49	Kctd9	0.16	Fancg	-0.25	Sema6b	-2.53
Fubp1	0.49	Pphln1	0.16	4933421O10Rik	-0.26	Pilra	-2.53
Pan3	0.49	Lyrn5	0.16	Zfp41	-0.26	Fbn2	-2.53
Zfp932	0.49	Vps29	0.16	Pgm1	-0.26	Adarb1	-2.53
Arl2	0.49	Ubc	0.16	Ttll1	-0.26	Vnn1	-2.54
Ncoa5	0.49	Frmd6	0.15	Zfp319	-0.26	Fmn11	-2.54
Nr6a1	0.49	Hax1	0.15	Mus81	-0.26	Tal1	-2.54
Ecsit	0.49	Lrch3	0.15	Cyfip1	-0.26	Mmp19	-2.55
Cpsf6	0.49	C330006K01Rik	0.15	Tubb2b	-0.26	Cd72	-2.55
Sqstm1	0.49	Fbxw2	0.15	Gpi1	-0.26	Trnp1	-2.55
Ovol1	0.49	Hs3st3b1	0.15	Junb	-0.26	Adap2	-2.56
Sat1	0.49	Fzd6	0.15	Isg15	-0.26	Adam28	-2.56
Pard6g	0.49	Pawr	0.15	App	-0.26	Il1f9	-2.56
Limk2	0.49	Wdr76	0.15	BC022687	-0.26	Fbxo2	-2.56
Nfatc2ip	0.49	Dgcr2	0.15	Plxnb1	-0.26	Pglyrp3	-2.56
Oxnad1	0.49	Ganab	0.15	Ggh	-0.26	Ch25h	-2.56
Lcmt2	0.49	Dcaf7	0.15	Zcchc11	-0.26	Dab2	-2.57
Atp5d	0.49	Ppp2r1a	0.15	Lancl2	-0.26	Tmprss4	-2.57
Plekha5	0.49	Tmem67	0.15	Plcg1	-0.26	Col14a1	-2.57
Mrpl14	0.49	Cstf2t	0.15	9030617O03Rik	-0.26	Irg1	-2.57
Mast2	0.49	Gm505	0.15	Eid1	-0.26	Gyk	-2.58
Tmem50b	0.49	Dnalc1	0.15	Thsd7a	-0.26	Pou2f2	-2.58
Slc25a20	0.49	Mdh2	0.15	C130074G19Rik	-0.26	Cnr2	-2.58
3010026O09Rik	0.49	Specc1l	0.15	Fancf	-0.26	Evi2a	-2.59
Ecd	0.49	Rhpn2	0.15	Cdkn3	-0.26	Abca9	-2.59
Nudt9	0.49	Vps11	0.15	Myo9b	-0.26	Klhl6	-2.59
1110021L09Rik	0.49	Prmt2	0.15	Wwp1	-0.26	Tmem200b	-2.59
Dhx37	0.49	Ei24	0.15	Abi1	-0.26	Pear1	-2.59
Boc	0.49	Lsm4	0.15	Rpain	-0.26	Gja4	-2.60
Ddx20	0.49	Wipf2	0.15	Cdca5	-0.26	St3gal4	-2.60
Swi5	0.49	Ubxn2a	0.15	Atg3	-0.26	Fam180a	-2.60
Sptlc1	0.49	Rabac1	0.15	Pcyt1a	-0.26	Ddah1	-2.60
H2afz	0.49	Arhgap31	0.15	Sall3	-0.26	Fstl1	-2.60
Emp2	0.49	Pef1	0.15	Cebpg	-0.26	Itgb2	-2.60
Ipmk	0.49	Dgkq	0.15	Afap1	-0.26	A2m	-2.60
Tuba4a	0.49	Pcx	0.15	Kifc1	-0.26	Gmfg	-2.61
Aspscr1	0.49	Rwdd1	0.15	Cbfa2t3	-0.26	Trpm2	-2.61
Angptl2	0.49	BC016495	0.15	Srebf1	-0.26	Sspn	-2.61
Tmem208	0.49	Kctd3	0.15	Tmem110	-0.26	Ppp1r1b	-2.61
Srsf1	0.49	AI314976	0.15	Aff1	-0.26	Igfbp4	-2.62
Hnrrnh3	0.49	Cnot2	0.15	Cdan1	-0.26	Apbb1ip	-2.62

Ccdc130	0.49	Klc2	0.15	Gm5918	-0.26	Dgat2	-2.62
Mad2l1bp	0.49	Sort1	0.15	Pbxip1	-0.26	Cd22	-2.62
Unc45a	0.49	Elof1	0.15	Fgl1	-0.26	C1s	-2.62
Fkbp2	0.49	Loh12cr1	0.15	Ctse	-0.26	Adm2	-2.63
Slc35b1	0.49	Mrpl52	0.15	Dhrs1	-0.26	Agpat9	-2.63
Rpf2	0.49	Fbxo3	0.15	Fam108b	-0.26	Acat3	-2.63
lfrd2	0.49	Brwd3	0.15	Fam35a	-0.26	Gm6377	-2.63
Tfpt	0.49	Lpin1	0.15	Myadm	-0.26	Alox15	-2.63
Trpv3	0.49	Ep400	0.15	Slfn9	-0.26	Ppp1r3d	-2.63
Ccdc134	0.49	Itfg2	0.15	Megf8	-0.26	Cfh	-2.64
Cwf19l1	0.49	Arih1	0.15	Gm10053	-0.26	Gzme	-2.64
BC048507	0.49	Dennd4c	0.15	Papd4	-0.26	Al662270	-2.64
Usp27x	0.49	Cc2d1a	0.15	Clptm1l	-0.26	Slc43a3	-2.65
Gm9182	0.49	Cand1	0.15	Gpr97	-0.26	Cd53	-2.65
Rnf145	0.49	Ddx1	0.15	Duoxa2	-0.26	Hmgcs2	-2.65
Sdf2	0.49	Rab22a	0.15	Serhl	-0.26	Pde10a	-2.65
4933439F18Rik	0.49	Eif4e	0.15	Cap1	-0.26	Adamts10	-2.65
Ddb1	0.49	Fn3krp	0.15	Akirin1	-0.27	Ccr1	-2.66
Dnajb4	0.49	Rfxap	0.15	Tlr4	-0.27	Lims2	-2.66
Exosc7	0.49	Rbmxl1	0.15	Lass2	-0.27	Lama2	-2.66
Srprb	0.49	Limd1	0.15	Tsc22d1	-0.27	Steap3	-2.66
Ccdc137	0.49	Rwdd3	0.15	Tmem48	-0.27	Gm885	-2.67
Taf12	0.49	Polg	0.15	D5Erttd579e	-0.27	Cyr61	-2.67
Rps25	0.49	Kat2a	0.15	Tgds	-0.27	Mmp25	-2.67
Rsph3a	0.49	Pmpcb	0.15	Nat15	-0.27	Cd300lb	-2.67
Erlin1	0.49	2700046G09Rik	0.15	Hsbp1	-0.27	Igfbp5	-2.67
Cnot3	0.48	Fam195b	0.15	Bin3	-0.27	Rab3il1	-2.68
Sft2d2	0.48	Denr	0.15	Mfsd7b	-0.27	Atp4a	-2.68
Dnmt3a	0.48	Gltscr1	0.15	Nenf	-0.27	Tmem8	-2.68
Ssb	0.48	0610030E20Rik	0.15	Hoxd11	-0.27	Aldh1l2	-2.68
Mrpl10	0.48	Fut8	0.15	Pkig	-0.27	Zfp423	-2.68
Lpcat2	0.48	Usmg5	0.15	Fam33a	-0.27	Cd14	-2.68
Ppp1r11	0.48	Crk	0.15	Trip13	-0.27	Ifi27l2a	-2.68
Cecr5	0.48	BC026590	0.15	Dbi	-0.27	Frmd5	-2.69
4930402H24Rik	0.48	Ccnl2	0.15	Cstb	-0.27	Osmr	-2.69
Lrrcc1	0.48	Tcof1	0.15	Ugp2	-0.27	Nid2	-2.69
Rps10	0.48	Crebzf	0.15	Ckap5	-0.27	Slc2a6	-2.70
Ppp1r35	0.48	Armc1	0.15	Nup93	-0.27	Gpm6b	-2.70
Mkks	0.48	Ankrd11	0.15	Gpsm1	-0.27	Il4i1	-2.70
Arid1b	0.48	Insig2	0.15	2310035K24Rik	-0.27	Zc3h12d	-2.70
C87436	0.48	Elp2	0.15	Zfp946	-0.27	Sfpi1	-2.71
Mrpl38	0.48	Vps52	0.15	D19Erttd737e	-0.27	mt-Co2	-2.71
Ccdc43	0.48	Zfp51	0.15	4933433P14Rik	-0.27	D730048I06Rik	-2.71

Vdac1	0.48	Atg2b	0.15	Armc5	-0.27	Cpeb1	-2.72
Dph2	0.48	Nucks1	0.15	Fv1	-0.27	P2ry12	-2.72
Hspa4	0.48	Pcnp	0.15	Nat2	-0.27	Mmp9	-2.72
Etfa	0.48	Ube2q1	0.15	Fxc1	-0.27	Cxcr1	-2.72
Cyp51	0.48	Dhx36	0.15	D4Wsu53e	-0.27	Ccl4	-2.73
Tnfrsf9	0.48	Zfand6	0.15	Rpa3	-0.27	Il18r1	-2.73
Zfp266	0.48	Ppp6r2	0.15	Pcnt	-0.27	Selm	-2.73
Ppp1r26	0.48	Dmap1	0.15	Birc3	-0.27	Cxcl5	-2.74
Tmem107	0.48	Sumo1	0.15	6-Mar	-0.27	March1	-2.74
Wbscr27	0.48	Ccny	0.15	Neddd4	-0.27	Adcy5	-2.74
Commd6	0.48	Tomm70a	0.15	Rab11fip1	-0.27	Cldn10	-2.74
Ccdc46	0.48	Zfp933	0.15	Tmem71	-0.27	Slc9a9	-2.74
Usp48	0.48	Mrpl42	0.15	Smc5	-0.27	Gm12824	-2.74
Ccs	0.48	Zfp873	0.15	Tmem98	-0.27	Fgf9	-2.74
Vat1l	0.48	Rufy1	0.15	Epn2	-0.27	Dram1	-2.75
Gm12184	0.48	Lrpprc	0.15	Mycbp2	-0.27	Pyhin1	-2.75
Ivd	0.48	Ctdspl	0.15	Slc39a6	-0.27	Ddx3y	-2.76
0610007P08Rik	0.48	Grik5	0.15	Zfp217	-0.27	Nup62cl	-2.76
Zfp37	0.48	Crbn	0.15	Tymp	-0.27	Tm6sf1	-2.77
Wls	0.48	Polr2b	0.15	Lrp10	-0.28	Larp6	-2.77
Kcnk6	0.48	Snx3	0.15	Zdhhc18	-0.28	Aldh1a2	-2.78
Lmnb2	0.48	2810422J05Rik	0.15	Rad54b	-0.28	Nfam1	-2.78
Gm17238	0.48	Cgrrf1	0.15	Atl3	-0.28	Il34	-2.78
Atad3a	0.48	Zfp248	0.15	Crtc3	-0.28	Itga11	-2.78
Rbm8a	0.48	Nup160	0.15	E430025E21Rik	-0.28	Relt	-2.78
Ubxn2b	0.48	Psat1	0.15	Pcdh1	-0.28	Gata6	-2.79
Mms19	0.48	Smu1	0.15	Myh14	-0.28	Plscr4	-2.79
Gm6396	0.48	Ints4	0.15	Zwilch	-0.28	Gda	-2.79
Fxyd3	0.48	Trmt11	0.15	Casp6	-0.28	Fndc5	-2.79
Fam13a	0.48	Aspa	0.15	Lpp	-0.28	Ptprc	-2.80
Plek2	0.48	Prdx1	0.15	Ephb4	-0.28	Socs3	-2.80
Gon4l	0.48	Ppfia1	0.15	Sra1	-0.28	Hoxd13	-2.80
Atp6v1b2	0.48	Slc35c1	0.15	Dclre1b	-0.28	Mtmr7	-2.80
Rps4x	0.48	Usp34	0.15	Mcm4	-0.28	Stab1	-2.81
Metap2	0.48	Bbx	0.15	Hmox2	-0.28	Napsa	-2.81
Slc37a4	0.48	Trim56	0.15	0910001L09Rik	-0.28	Mdk	-2.81
Vkorc111	0.48	Smad4	0.15	Slc17a5	-0.28	Gcnt4	-2.81
Gm7535	0.48	Otub2	0.15	9030624J02Rik	-0.28	4930581F22Rik	-2.82
Tcta	0.48	C430048L16Rik	0.15	Rap1gds1	-0.28	Ms4a14	-2.82
Taf5l	0.48	Ndufb5	0.15	Cant1	-0.28	Igkj3	-2.82
Smarca5	0.48	Pex16	0.15	Plcb2	-0.28	Gucy1b3	-2.83
Klc4	0.48	Psmid14	0.15	Eif2ak2	-0.28	Dok2	-2.83
Mll1	0.48	Stambp	0.15	Hivep1	-0.28	Sftpd	-2.84

2310061C15Rik	0.47	Letm2	0.15	Oip5	-0.28	Padi4	-2.84
Pex10	0.47	Zbtb48	0.15	2810055F11Rik	-0.28	Gypc	-2.84
Gm6984	0.47	Paics	0.15	Parp8	-0.28	Fcgrt	-2.84
Ddx17	0.47	AA415398	0.15	Vps8	-0.28	Cnrip1	-2.84
Prcc	0.47	Chek1	0.15	Zfp493	-0.28	D030025P21Rik	-2.84
Vapa	0.47	Creld1	0.15	Psmc3ip	-0.28	Entpd2	-2.84
Zfp790	0.47	Vipar	0.15	Gm14403	-0.28	Apba1	-2.84
Agpat6	0.47	Fam125a	0.15	Rsl1	-0.28	Rgs14	-2.84
Rps7	0.47	Sympk	0.15	Cldn3	-0.28	Pla2g2d	-2.84
Gm17430	0.47	Golt1b	0.14	Alas1	-0.28	Pilrb2	-2.85
Cxcr7	0.47	Ghitm	0.14	Edem3	-0.28	Adamts15	-2.85
Dnaja2	0.47	Sft2d1	0.14	Donson	-0.28	Creb3l1	-2.86
Spo11	0.47	Zfp623	0.14	Ext1	-0.28	Wbscr17	-2.86
Zc3hav1l	0.47	Cfl1	0.14	Snx2	-0.28	Lrg1	-2.86
Mtrr	0.47	Plch1	0.14	Rps6ka4	-0.28	Arhgap15	-2.87
Lama5	0.47	B3galt6	0.14	AI987944	-0.28	Glis3	-2.87
Mtcp1	0.47	Kdelr2	0.14	Bcl2l1	-0.28	Zfp521	-2.88
Zfp839	0.47	Nploc4	0.14	Glt8d1	-0.28	Lpar1	-2.88
F630043A04Rik	0.47	Arf3	0.14	Esyt1	-0.28	Col5a2	-2.88
Tmem143	0.47	Bmi1	0.14	Fbxw17	-0.28	Csf3	-2.89
1190007F08Rik	0.47	Senp8	0.14	Tkt	-0.28	Ccl6	-2.89
Tubb3	0.47	Ubiad1	0.14	Tmed8	-0.28	2610528J11Rik	-2.89
Ldb1	0.47	Polr2i	0.14	Cd164	-0.28	Sirpb1a	-2.89
Zdhhc13	0.47	Gm11423	0.14	Tarbp2	-0.28	B3gnt9-ps	-2.90
Nudt5	0.47	C920006O11Rik	0.14	Nudcd1	-0.28	Rcsd1	-2.91
Synj2bp	0.47	Elmo3	0.14	Atad5	-0.28	Myo7a	-2.91
Larp4	0.47	Gm2058	0.14	Cln6	-0.28	Calml4	-2.91
Pigw	0.47	Ankrd10	0.14	Gm1840	-0.29	Dpep2	-2.91
Sec14l1	0.47	Sox4	0.14	Tpp1	-0.29	Noxa1	-2.91
Aprt	0.47	Trappc3	0.14	Hps1	-0.29	Atp2a3	-2.92
Slc16a13	0.47	Sdad1	0.14	Atp10d	-0.29	Hck	-2.92
Bnip1	0.47	Endog	0.14	Clec2d	-0.29	Slc7a2	-2.92
Tmed2	0.47	Tmem134	0.14	Mast4	-0.29	Dcn	-2.92
Dak	0.47	B230312A22Rik	0.14	Slk	-0.29	Stard8	-2.92
Pelp1	0.47	Pnrc2	0.14	Fcrlb	-0.29	Lrrc33	-2.92
Bcl9	0.47	Lamtor3	0.14	Ttc30b	-0.29	Slc1a2	-2.93
Qtrt1	0.47	Dctn1	0.14	Pbk	-0.29	Arsi	-2.93
Hnrnpc	0.47	Mier1	0.14	Pip5k1c	-0.29	Fcgr3	-2.93
Tom1l2	0.47	Pole3	0.14	Tmem184b	-0.29	Siglece	-2.93
Sec62	0.47	Bcl2l13	0.14	Xkrx	-0.29	Dusp1	-2.94
Tnik	0.47	Fryl	0.14	Fermt1	-0.29	Ret	-2.94
H2-Ke2	0.47	Tmem19	0.14	Pola2	-0.29	Pmp22	-2.94
Mrpl51	0.47	Poli	0.14	Usp12	-0.29	Tmem52	-2.95

1300002E11Rik	0.47	Gm17396	0.14	Gclc	-0.29	Gpr84	-2.95
Cebpz	0.47	Pdcd6ip	0.14	Tbck	-0.29	4732490B19Rik	-2.95
Psip1	0.47	Cxxc1	0.14	Mtmr9	-0.29	Chl1	-2.95
Psmg4	0.47	Zfp964	0.14	Syde2	-0.29	Car9	-2.96
Ccng2	0.47	Tmem164	0.14	Gab2	-0.29	Nhsl2	-2.97
Dnajb1	0.47	Zfp677	0.14	Nipa1	-0.29	Ifitm1	-2.97
Blmh	0.47	Adcy6	0.14	Prr9	-0.29	Scara5	-2.97
Eif4ebp2	0.47	Gatad1	0.14	Sox7	-0.29	BC026585	-2.97
Zscan22	0.47	Frmd4a	0.14	Pyroxd1	-0.29	Ephb2	-2.97
Tut1	0.47	Tax1bp1	0.14	Phf13	-0.29	Ncf1	-2.97
Rps15a	0.47	4930471M23Rik	0.14	Ass1	-0.29	Gas1	-2.98
Lrrc42	0.47	Nfxl1	0.14	Wrn	-0.29	Sirpb1c	-2.98
Ifi271l	0.47	Ccdc6	0.14	Fig4	-0.29	Cercam	-2.98
Car2	0.47	Gm9853	0.14	Ankrd50	-0.29	Car3	-2.98
Gltscr2	0.47	Src	0.14	Sipa11l	-0.29	Ly9	-2.99
Endou	0.47	Slc25a32	0.14	Tgtp1	-0.29	Aspn	-2.99
Rpl7l1	0.47	Rnaseh2c	0.14	Zfp939	-0.29	Cd302	-3.00
Inpp1	0.47	Cadm1	0.14	Cdt1	-0.29	Slamf6	-3.00
A130010J15Rik	0.47	Uba2	0.14	Tmem140	-0.29	Prss16	-3.00
Grb14	0.47	Ccdc86	0.14	Rhoc	-0.29	Tlr1	-3.00
Rps3a	0.47	Pex3	0.14	Ttc17	-0.29	Muc5b	-3.01
Fam20b	0.47	Slc25a10	0.14	Map3k12	-0.29	Eif2s3y	-3.02
Cuedc1	0.47	B3gat3	0.14	Atad2b	-0.29	C5ar1	-3.03
Bola2	0.47	Slc25a19	0.14	Ccdc14	-0.29	ORF63	-3.03
Bckdhb	0.47	Mfap1a	0.14	Mpzl1	-0.29	Phyhd1	-3.03
Ppp1r8	0.47	Mical3	0.14	Magi3	-0.29	Dok3	-3.04
Zfp57	0.47	Gpr123	0.14	Prr13	-0.29	Kcnk13	-3.04
Psmd7	0.47	Phactr4	0.14	Ndst1	-0.29	Cd33	-3.04
Tfb1m	0.47	Raly	0.14	Asns	-0.29	Rab27a	-3.04
1500011B03Rik	0.47	Fam160b2	0.14	Chst15	-0.29	D630013G24Rik	-3.05
1810008A18Rik	0.47	Adat3	0.14	Peli1	-0.29	Fgr	-3.05
Rps13	0.47	Deb1	0.14	Arpc3	-0.29	Jdp2	-3.05
Rasgef1b	0.47	Oas1c	0.14	Rnf170	-0.29	Il18rap	-3.05
2810408M09Rik	0.47	Pcbp2	0.14	Pigc	-0.30	Arxes1	-3.06
Myc	0.47	Zranb1	0.14	Rorc	-0.30	Ccdc129	-3.06
Setdb1	0.46	Eif2c2	0.14	Arhgef7	-0.30	Rab44	-3.07
Zfp708	0.46	Tars	0.14	Homer3	-0.30	Ces2f	-3.07
Krt8	0.46	Zfx	0.14	Sh3bp4	-0.30	Rasl12	-3.07
Esyt2	0.46	Msh3	0.14	Skp2	-0.30	Kdm5d	-3.08
Ddx51	0.46	Atpaf1	0.14	Ctif	-0.30	Lum	-3.08
Snhg12	0.46	Nhlrc1	0.14	Chtf18	-0.30	Arg1	-3.08
H2-DMA	0.46	Mtap7	0.14	Stxbp3b	-0.30	Fry	-3.08
Ccnt2	0.46	Sap30	0.14	Tm4sf1	-0.30	Ncf4	-3.08

Ddx54	0.46	Psme3	0.14	Capza2	-0.30	Grb10	-3.08
Tprkb	0.46	Atp6v1c1	0.14	Eps8	-0.30	Fcgr2b	-3.09
Rrp1	0.46	Spg11	0.14	Haus6	-0.30	Fam18a	-3.09
Rnf20	0.46	Fam92a	0.14	Wdr62	-0.30	Slc2a13	-3.09
Rcor1	0.46	Hinfp	0.14	Rev1	-0.30	Igsf6	-3.10
Jup	0.46	Cyld	0.14	Kcnj2	-0.30	Adam8	-3.10
Nob1	0.46	Nup85	0.14	Adamts7	-0.30	Adamts12	-3.11
Trim14	0.46	Mina	0.14	Rsu1	-0.30	Rarres2	-3.11
Mrps34	0.46	Sbf1	0.14	Sri	-0.30	Ncam1	-3.11
Dcaf6	0.46	Bop1	0.14	Havcr2	-0.30	Hgfac	-3.11
Adi1	0.46	Zfp445	0.14	Myh9	-0.30	Pilrb1	-3.11
Mapk3	0.46	Tsen54	0.14	Klhdc8b	-0.30	Ighv1-61	-3.12
Cnot6l	0.46	Armc10	0.14	1700037C18Rik	-0.30	A430110N23Rik	-3.12
Etv4	0.46	1300010F03Rik	0.14	Fgfr3	-0.30	Rbp4	-3.12
Gm6020	0.46	Golga3	0.14	Trmt2b	-0.30	Hmox1	-3.12
Col18a1	0.46	Ube2j2	0.14	Calhm2	-0.30	Trpm6	-3.12
Tnk2	0.46	Ndfip1	0.14	Aga	-0.30	Pglyrp1	-3.12
C330018D20Rik	0.46	Cdkn1b	0.14	Ppil6	-0.30	Fam198b	-3.13
Tnfrsf19	0.46	Ccdc127	0.14	Dag1	-0.30	Gzmg	-3.13
Nek8	0.46	2210404J11Rik	0.14	Ccng1	-0.30	Pik3r5	-3.13
Ngfrap1	0.46	Ptpn23	0.14	Gas2l1	-0.30	Ebi3	-3.13
Lsm12	0.46	Aars	0.14	Ap1b1	-0.30	Irak3	-3.13
Tshz1	0.46	Zfpl1	0.14	Senp1	-0.30	Efemp2	-3.13
Traf3ip1	0.46	Tmem2	0.14	Mtbp	-0.30	Myl6b	-3.14
Kdm5b	0.46	Sbf2	0.14	Mtap7d1	-0.30	Uty	-3.14
Exosc5	0.46	Mrpl41	0.14	Tti2	-0.30	Cyp7b1	-3.14
Kdm1b	0.46	Atxn2l	0.14	Carhsp1	-0.30	Lrrk2	-3.14
A730011C13Rik	0.46	Commd9	0.14	Ncapd2	-0.30	Col24a1	-3.15
Glo1	0.46	Gm5113	0.14	Zfp568	-0.30	Ltb4r1	-3.16
Cds1	0.46	Snhg5	0.13	Abca2	-0.31	Angpt1	-3.16
Ppcs	0.46	Atp5e	0.13	Smpd1	-0.31	Lilrb4	-3.16
Prdx2	0.46	Poldip2	0.13	Gba	-0.31	Ugt1a7c	-3.17
Mosc2	0.46	2700078E11Rik	0.13	Rnf213	-0.31	Clec10a	-3.17
Nipsnap1	0.46	Crb3	0.13	Scarb1	-0.31	Fam26e	-3.17
Parp2	0.46	Scrn1	0.13	Irf1	-0.31	Sirpb1b	-3.17
Cage1	0.46	B230216N24Rik	0.13	Srgap2	-0.31	Rac2	-3.17
2410042D21Rik	0.46	1200011M11Rik	0.13	Tor3a	-0.31	Gpr153	-3.18
B020018G12Rik	0.46	Mpp5	0.13	Btbd10	-0.31	Acta2	-3.18
Zfp780b	0.46	Rrm2b	0.13	Plekha2	-0.31	Rnf125	-3.19
Txn1l	0.46	Pop4	0.13	Hacl1	-0.31	Timp1	-3.19
Tomm5	0.46	Rassf3	0.13	Zfp639	-0.31	Fbn1	-3.20
Ndufb10	0.46	Clasp1	0.13	Txndc5	-0.31	Tcf21	-3.20
Dmd	0.46	Kbtbd4	0.13	Pvr	-0.31	Acox2	-3.20

Setd3	0.46	Ciz1	0.13	Pofut1	-0.31	Ces1d	-3.21
Zcchc7	0.46	Rnf214	0.13	Ddx59	-0.31	Ctgf	-3.21
Zfp184	0.46	Zc3h7b	0.13	Lcor	-0.31	Cyp2f2	-3.21
Ncl	0.46	BC005537	0.13	Gemin8	-0.31	Tmem100	-3.22
Klhl12	0.46	Mef2a	0.13	Rgs4	-0.31	Gzmc	-3.23
Creb3	0.46	Nck2	0.13	Ltbr	-0.31	Slc25a48	-3.23
Ankrd13b	0.46	Msh2	0.13	Cd3e	-0.31	Prok2	-3.23
Spon2	0.46	Ptprk	0.13	Selenbp1	-0.31	Cd4	-3.23
Toe1	0.46	Tubd1	0.13	Impa2	-0.31	Gp49a	-3.23
Utp15	0.46	Foxred1	0.13	5031425E22Rik	-0.31	Dact3	-3.24
Cst7	0.46	Minos1	0.13	B3gnt1	-0.31	A330049M08Rik	-3.24
Sbds	0.46	Reep6	0.13	Anxa6	-0.31	Trdj1	-3.25
Ints5	0.46	Tmem101	0.13	Zfp160	-0.31	Trbj2-2	-3.25
Zfp395	0.46	10-Sep	0.13	Acvr2a	-0.31	Trbj2-7	-3.25
Dyrk1b	0.46	Appl2	0.13	Rb1	-0.31	Gm16721	-3.25
Srp68	0.46	Snrnp35	0.13	Rai14	-0.31	Tcea3	-3.25
Hrsp12	0.46	Zcchc9	0.13	Cand2	-0.31	Ly6i	-3.26
Erp44	0.46	Hibch	0.13	Gpr161	-0.31	Glod5	-3.26
Tmem33	0.46	Sdhaf2	0.13	Thada	-0.31	2010005H15Rik	-3.26
4921524J17Rik	0.45	Vps33a	0.13	Mdfic	-0.31	Ccdc109b	-3.26
Cldn4	0.45	Zfp637	0.13	Mtmr12	-0.31	Csf3r	-3.26
Brap	0.45	Acbd4	0.13	Prdm1	-0.31	Tfec	-3.26
Poldip3	0.45	Zfp784	0.13	Tesk1	-0.31	Cpne2	-3.26
Gm9726	0.45	Srcap	0.13	Sdc4	-0.32	Cyp4b1	-3.26
Nup35	0.45	Nipbl	0.13	Zfand5	-0.32	Thbs2	-3.27
Phrf1	0.45	Cep135	0.13	Npl	-0.32	Tlr7	-3.27
Zfp664	0.45	Cdc14a	0.13	Map2k1	-0.32	Cxcl3	-3.27
1190005F20Rik	0.45	Med13	0.13	Wdr34	-0.32	Rerg	-3.28
Slc12a6	0.45	Aarsd1	0.13	Gramd1c	-0.32	Slc11a1	-3.28
Mcee	0.45	Ubac1	0.13	Slc25a24	-0.32	Adamts12	-3.28
Nip7	0.45	Skiv2l2	0.13	Dalrd3	-0.32	Nkain4	-3.29
Lrrk1	0.45	Thoc3	0.13	Fancb	-0.32	BC021614	-3.29
Gtf3c2	0.45	Imp4	0.13	Bbs7	-0.32	Inpp5j	-3.29
Rpl41	0.45	Brsk1	0.13	Pigs	-0.32	Msr1	-3.29
Sirt1	0.45	Cdcp1	0.13	4922501C03Rik	-0.32	Il4ra	-3.29
Unc119b	0.45	Slc30a7	0.13	C1ra	-0.32	Thrsp	-3.30
Ammecr1l	0.45	Smpd4	0.13	Zdhhc1	-0.32	6030408B16Rik	-3.30
L3mbtl3	0.45	Rnf138	0.13	Tmem198b	-0.32	Rassf2	-3.31
1110002B05Rik	0.45	Solh	0.13	Ccdc104	-0.32	Tlr13	-3.31
Ccdc136	0.45	Tfrc	0.13	Cdc42ep2	-0.32	Oit1	-3.33
Rnf126	0.45	Wdr19	0.13	Frat2	-0.32	Col5a1	-3.33
Nicn1	0.45	Zfp39	0.13	Smad3	-0.32	Fam65b	-3.34
Tm2d3	0.45	Sh3kbp1	0.13	Xpot	-0.32	Ighm	-3.35

Acat1	0.45	Fam178a	0.13	Cox7c	-0.32	Muc20	-3.35
Rps3	0.45	Mllt11	0.13	Entpd4	-0.32	Star	-3.35
Nradd	0.45	Ing3	0.13	Psm10	-0.32	Cd300lf	-3.36
Fam82a2	0.45	Golph3	0.13	Fyco1	-0.32	Gpr137b-ps	-3.36
Pomt1	0.45	Med25	0.13	Smc4	-0.32	Thbs3	-3.37
Ing2	0.45	Mib2	0.13	Cblc	-0.32	G0s2	-3.37
Eef1a1	0.45	Pom121	0.13	Nck1	-0.32	Sgce	-3.39
Lmna	0.45	Al314180	0.13	Rnf139	-0.32	Prss2	-3.39
5830433M19Rik	0.45	Cog2	0.13	Dennd5a	-0.32	Best1	-3.39
Fat1	0.45	Cox17	0.13	Cyb5r4	-0.32	Saa3	-3.40
Kif5b	0.45	Ccdc123	0.13	Cdca8	-0.32	Cox6b2	-3.41
Mrps27	0.45	1700029J07Rik	0.13	Osgin1	-0.32	Slc2a4	-3.42
Osbp12	0.45	Pvrl4	0.13	1700019G17Rik	-0.32	Fam169b	-3.42
Tex10	0.45	Cables2	0.13	Ttc12	-0.32	Krt15	-3.42
Wdr6	0.45	Vav2	0.13	Ccdc117	-0.32	Col12a1	-3.44
Hoxa7	0.45	Rac3	0.13	Igsf9	-0.32	Serpinb2	-3.46
AW011738	0.45	Tes3-ps	0.13	Fos	-0.32	Cfp	-3.46
C630004H02Rik	0.45	Nat6	0.13	Atr	-0.32	Ighv9-2	-3.47
Polr2h	0.45	Tnfrsf26	0.13	Bicd1	-0.32	Card9	-3.47
Zfp692	0.45	Map3k7	0.13	Prkdc	-0.32	Fap	-3.48
Bbs5	0.45	Ctdspl2	0.13	Snx8	-0.32	Slc38a4	-3.48
Rps19bp1	0.45	Ccdc124	0.13	St3gal5	-0.33	Ecm2	-3.48
Atp2c1	0.45	2900064A13Rik	0.13	6330418K02Rik	-0.33	Al607873	-3.48
Zbtb1	0.45	8430429K09Rik	0.13	Baz2b	-0.33	Msln	-3.49
Cyp20a1	0.45	2210012G02Rik	0.13	Zfp14	-0.33	Nos1	-3.50
Eif2ak3	0.45	Fam108a	0.13	Eno1	-0.33	Sparc	-3.50
Tmem68	0.45	Smyd4	0.13	Vps13d	-0.33	Pygl	-3.51
Capn5	0.45	Bcl2	0.13	Igdcc3	-0.33	C1qtnf7	-3.51
Ism1	0.45	Usp4	0.13	Usp54	-0.33	Clec4a3	-3.52
Cox7b	0.45	Ranbp2	0.13	2410003K15Rik	-0.33	Cd37	-3.52
Pnpla6	0.45	Enah	0.13	Ptpn12	-0.33	Sulf1	-3.52
Ywhaz	0.45	H2afj	0.13	9130017N09Rik	-0.33	Ms4a6c	-3.52
Blzf1	0.45	Nup205	0.13	Egr2	-0.33	Serping1	-3.52
Kdelr1	0.45	Stk40	0.13	Nkiras2	-0.33	Ifi204	-3.53
Vcp	0.45	Sfxn1	0.13	Tyms	-0.33	Lrrc25	-3.53
Alg13	0.45	1300001I01Rik	0.13	Gadd45g	-0.33	Hspa12a	-3.53
Zw10	0.45	Ncstn	0.13	Map3k6	-0.33	Wnt9a	-3.53
Arhgap32	0.45	Vps16	0.13	Stim2	-0.33	Ric3	-3.53
Urb2	0.45	Aars2	0.13	Zfp871	-0.33	Bnc2	-3.55
Bag3	0.45	Usp33	0.13	Lce6a	-0.33	Tmc5	-3.55
Exosc2	0.45	Napg	0.13	Daglb	-0.33	Pdpn	-3.55
Rgn	0.45	Pdcd2l	0.13	Gm9938	-0.33	Gpx7	-3.55
Nrbf2	0.45	Npr3	0.13	Arsb	-0.33	Tnfaip6	-3.55

1700094D03Rik	0.45	Ninl	0.13	Poc1b	-0.33	Klhl38	-3.55
Dhrs4	0.45	Slc38a10	0.13	Ell2	-0.33	Ighv1-50	-3.55
Gm5805	0.45	Pts	0.13	1110018J18Rik	-0.33	Trem1	-3.56
Zc3h15	0.45	Rab11fip3	0.12	Laptm4b	-0.33	Serpina3i	-3.56
Tex2	0.45	Aasdh	0.12	Ak2	-0.33	Mfap2	-3.56
Cdk2ap2	0.45	Lmf2	0.12	Gm4737	-0.33	Ccl2	-3.57
Tmcc2	0.44	Atp6v0d1	0.12	Pacrgl	-0.33	C2	-3.57
Lig4	0.44	Naif1	0.12	Irf2bp2	-0.33	Has2	-3.57
Ccdc85b	0.44	Sirt4	0.12	Arhgef3	-0.33	Clca1	-3.58
Nkd1	0.44	Pycl1	0.12	4632415L05Rik	-0.33	Ms4a6d	-3.58
Pigy	0.44	Gusb	0.12	Nsmce1	-0.33	Gm1975	-3.59
Vps37c	0.44	A430033K04Rik	0.12	Casc4	-0.33	Gm11642	-3.59
Pik3r3	0.44	Mtfmt	0.12	Rpgrip1l	-0.33	Trpv6	-3.59
lppk	0.44	Dctn5	0.12	Sars2	-0.33	Matn4	-3.60
Mrpl32	0.44	Dpcd	0.12	Ccdc23	-0.33	Mgam	-3.60
Cyp4f13	0.44	Cib2	0.12	Mbp	-0.33	Hnmt	-3.60
9930013L23Rik	0.44	Acad12	0.12	Rhobtb1	-0.33	Cd38	-3.61
Gpr19	0.44	2310016M24Rik	0.12	Brca2	-0.33	Gzmd	-3.61
Erf	0.44	Lsm14a	0.12	Arl13b	-0.33	Wisp2	-3.61
2410091C18Rik	0.44	Gm13648	0.12	Agpat2	-0.34	Mn1	-3.62
Apeh	0.44	Clint1	0.12	lrak2	-0.34	Serpine1	-3.62
Scin	0.44	Mthfsd	0.12	Rab11fip2	-0.34	Gzmf	-3.63
Acaa1a	0.44	Zfp760	0.12	Prkacb	-0.34	Ak5	-3.65
Rad1	0.44	Dmtf1	0.12	Gstt3	-0.34	Igkv9-123	-3.67
Pnn	0.44	Sirt5	0.12	1700001O22Rik	-0.34	Tnfrsf13c	-3.67
Bcl2a1d	0.44	Ap1g1	0.12	Rbp1	-0.34	Sult5a1	-3.68
Upf3a	0.44	Ttc23	0.12	Orai1	-0.34	Matn2	-3.69
Fbrs	0.44	Psmc1	0.12	Myct1	-0.34	B430306N03Rik	-3.69
Pdcd11	0.44	Fam76b	0.12	Izumo4	-0.34	Smoc2	-3.69
Ammecr1	0.44	Ogg1	0.12	Ankrd13a	-0.34	Iglc2	-3.69
3110001D03Rik	0.44	Amn1	0.12	4930556M19Rik	-0.34	Serpinf1	-3.69
Anapc7	0.44	Bag4	0.12	Celf2	-0.34	Cadm3	-3.70
Mnat1	0.44	Foxj3	0.12	Fut11	-0.34	Rnf144a	-3.70
Gm8394	0.44	Slc2a8	0.12	Pex19	-0.34	Ngf	-3.70
Sel1l	0.44	Snx6	0.12	Txndc16	-0.34	Nsg1	-3.70
Ube2e2	0.44	Cdc34	0.12	Gm1818	-0.34	Lbp	-3.71
2210411K11Rik	0.44	Slc26a2	0.12	Zhx1	-0.34	Vcam1	-3.71
Alg8	0.44	Rock2	0.12	Hrct1	-0.34	Irf4	-3.71
Ephx1	0.44	Pfdn5	0.12	Ccdc138	-0.34	Cacna2d1	-3.72
Slc9a3r2	0.44	N4bp2l2	0.12	Map3k5	-0.34	Nlrp12	-3.72
Fdx1	0.44	Mrps31	0.12	Gbe1	-0.34	Prg2	-3.72
5930416I19Rik	0.44	Ap1s1	0.12	Kctd20	-0.34	Tspan32	-3.73
Uqcrh	0.44	Fam83f	0.12	Dhx38	-0.34	Cd2	-3.73

Trap1	0.44	Chm	0.12	Traf3	-0.34	Ccl24	-3.73
Eif3a	0.44	Txn1	0.12	Lym1	-0.34	Igkv8-18	-3.73
Chmp5	0.44	Clta	0.12	Mrpl33	-0.34	Ighj3	-3.73
2810006K23Rik	0.44	Higd2a	0.12	D2Ert750e	-0.34	Kcnn4	-3.74
P4hb	0.44	Atxn10	0.12	Fam45a	-0.34	St8sia6	-3.75
Folr1	0.44	Cdv3	0.12	Eya2	-0.34	8430408G22Rik	-3.75
Rep15	0.44	Mb	0.12	Vamp3	-0.34	Eya4	-3.75
Dcaf11	0.44	Wdyhv1	0.12	Kif21b	-0.34	Upk3a	-3.76
Bcorl1	0.44	Nsmce4a	0.12	Gm16576	-0.34	Cfi	-3.77
Miip	0.44	Bre	0.12	Kif18b	-0.34	Hp	-3.77
Pycr2	0.44	Prpf38a	0.12	Cdk5rap2	-0.34	A630095E13Rik	-3.77
Hadh	0.44	Kbtbd2	0.12	Eps15	-0.34	Clec4d	-3.78
Aen	0.44	Arfrp1	0.12	Pdlim5	-0.34	Scel	-3.78
Sart1	0.44	Zfp874b	0.12	Tmem216	-0.34	Clec4e	-3.79
Usp30	0.44	Klhdc8a	0.12	4932438A13Rik	-0.35	Angptl4	-3.80
Iqcc	0.44	Gabarapl1	0.12	Pgk1	-0.35	Bmx	-3.80
Luc7l	0.44	Znhit3	0.12	Celsr2	-0.35	2010110P09Rik	-3.80
Supt5h	0.44	Dctn2	0.12	Cdc42se2	-0.35	Mfsd4	-3.80
Ets2	0.44	Slmo2	0.12	Tctn3	-0.35	Galntl2	-3.81
Cog8	0.44	Ptcd1	0.12	Fut10	-0.35	Nexn	-3.82
Qrich1	0.44	Gmeb2	0.12	Plekhh1	-0.35	Glipr2	-3.82
Mphosph10	0.44	Cnnm3	0.12	Gm5617	-0.35	Ms4a6b	-3.83
Exoc4	0.44	Pisd	0.12	Reep5	-0.35	Ebf1	-3.83
Scrib	0.44	Cript	0.12	Cldn23	-0.35	Fbln2	-3.84
Caml	0.44	Atf1	0.12	Ins2	-0.35	Fcna	-3.84
B230208H17Rik	0.44	Trappc2l	0.12	Rilpl2	-0.35	Nos2	-3.85
Ccdc28a	0.44	Ptpla	0.12	Entpd3	-0.35	Clec1a	-3.85
Txndc11	0.44	Med15	0.12	4930534B04Rik	-0.35	Tlr8	-3.85
Atp6v1d	0.44	Cwf19l2	0.12	B4galt1	-0.35	Fcrla	-3.85
Mterfd2	0.44	Mrpl35	0.12	Fam83g	-0.35	Lrrc31	-3.87
Prmt3	0.44	Sqrdl	0.12	BC048403	-0.35	Cd300ld	-3.88
Tardbp	0.44	Tbc1d15	0.12	Oas1a	-0.35	Gm11428	-3.88
Zc3h7a	0.44	Cdc25b	0.12	Lamp1	-0.35	Cxcr5	-3.88
Canx	0.44	Ndufb7	0.12	Map3k3	-0.35	Loxl3	-3.89
Wrap53	0.44	1700109H08Rik	0.12	Acd	-0.35	F10	-3.90
Ptpn3	0.44	Renbp	0.12	Tdrd7	-0.35	Mmp17	-3.90
Trim24	0.44	Anapc10	0.12	Ctxn1	-0.35	Alox5	-3.90
Zfp935	0.44	Alkbh6	0.12	Ckap4	-0.35	Abcb1b	-3.90
Nfx1	0.44	Nup214	0.12	Tubb2a	-0.35	Slc13a3	-3.91
Kctd2	0.44	Prkaa1	0.12	Extl3	-0.35	Ccl20	-3.91
Glrx3	0.43	Cox7a2	0.12	Ctps2	-0.35	Itm2a	-3.92
Tgif2	0.43	Tnfaip1	0.12	Rbm41	-0.35	2610109H07Rik	-3.92
Spast	0.43	Arv1	0.12	Ypel3	-0.35	Rasgrp4	-3.92

Polr2c	0.43	1200014J11Rik	0.12	Mlxip	-0.35	Lyl1	-3.92
Isg20l2	0.43	Vamp8	0.12	Poc1a	-0.35	Muc1	-3.93
Jrk	0.43	Eny2	0.12	Acsbg1	-0.35	Cpxm2	-3.94
2810428l15Rik	0.43	Bola1	0.12	Rgs2	-0.35	Hsd17b2	-3.94
Rgl2	0.43	Styk1	0.12	Ttpal	-0.35	Ighv1-77	-3.94
Ddx11	0.43	Znhit1	0.12	Tmco3	-0.35	Hspb7	-3.94
Vegfb	0.43	Mfsd3	0.12	Heatr5a	-0.35	Slc1a3	-3.96
Msi2	0.43	Fam58b	0.12	P4ha2	-0.35	Il1r2	-3.96
Urod	0.43	Podxl	0.12	Zhx3	-0.35	Abi3bp	-3.97
Tmem146	0.43	Med6	0.12	Ttc26	-0.35	Aoc3	-3.98
Thoc1	0.43	Ufc1	0.12	Per1	-0.35	Sult1a1	-3.98
Grb7	0.43	Khdrbs1	0.12	AU041133	-0.35	Gm9733	-3.99
Nampt	0.43	Trim33	0.12	Nlgn2	-0.35	Cyp2d22	-4.00
Gpatch3	0.43	F8a	0.12	Plbd2	-0.35	Srpx2	-4.00
Ndufb11	0.43	Mat2a	0.12	Lgals4	-0.35	Fcgr4	-4.01
Srebf2	0.43	Slc7a6	0.12	Il1rl2	-0.35	Clec12a	-4.02
Cct5	0.43	Gm8730	0.12	Rab24	-0.35	Fbln5	-4.02
Rbbp5	0.43	Rab2a	0.12	Med29	-0.35	Gpr88	-4.03
Cxcl14	0.43	Ilvbl	0.12	Gmds	-0.35	Tnmd	-4.03
Fam20c	0.43	B230219D22Rik	0.12	2810002D19Rik	-0.35	C1qtnf3	-4.03
Uspl1	0.43	Smad2	0.12	Mppe1	-0.35	Igkv4-74	-4.03
Fam133b	0.43	Gan	0.12	Dab2ip	-0.35	Stfa2l1	-4.05
Antxr1	0.43	Mpdz	0.12	Rap2c	-0.35	Gpm6a	-4.05
Tcf3	0.43	Gm608	0.11	Arhgap18	-0.35	Fcrl1	-4.05
Tia1	0.43	Zfp282	0.11	8430419L09Rik	-0.36	Dhrs9	-4.06
AW146154	0.43	Aagab	0.11	Zbtb7c	-0.36	Crispld2	-4.07
Rps6	0.43	Dad1	0.11	Fgd4	-0.36	Itgam	-4.08
B230118H07Rik	0.43	2700094K13Rik	0.11	Twsg1	-0.36	Aoah	-4.08
Mto1	0.43	Tpbg	0.11	Ssbp2	-0.36	Gm11547	-4.08
Zfp942	0.43	Zfp40	0.11	Mx2	-0.36	Gm7665	-4.09
Ino80b	0.43	Tmem129	0.11	Slc34a2	-0.36	Pcp4	-4.09
Larp1	0.43	Prkag1	0.11	Gm12355	-0.36	Slc36a2	-4.09
Brf1	0.43	Stk38l	0.11	Diap2	-0.36	Ighj4	-4.10
Psmg2	0.43	2210018M11Rik	0.11	Sytl3	-0.36	Aass	-4.11
Rsl1d1	0.43	Rps6kc1	0.11	Gm10762	-0.36	Adam12	-4.11
Abcf3	0.43	Setd1a	0.11	Ubr5	-0.36	Sec16b	-4.12
Klf16	0.43	Ftsjd1	0.11	4732440D04Rik	-0.36	Cthrc1	-4.12
Romo1	0.43	Stam2	0.11	Thoc6	-0.36	Scn2b	-4.13
Sema6a	0.43	lws1	0.11	Rab5c	-0.36	Rspo1	-4.13
Grcc10	0.43	Zfp498	0.11	Grb2	-0.36	Tpsb2	-4.13
Stub1	0.43	Leo1	0.11	Fam83d	-0.36	Clec4a2	-4.13
Stag2	0.43	2310010J17Rik	0.11	3110002H16Rik	-0.36	Nfe2	-4.14
Mllt1	0.43	Rpia	0.11	Pspc1	-0.36	Naalad2	-4.14

Pigv	0.43	Prkaa2	0.11	Kazn	-0.36	Spib	-4.15
Gtf2e1	0.43	Baat1	0.11	Fam160b1	-0.36	Podn	-4.15
Polr2l	0.43	Zfp523	0.11	Lars2	-0.36	Trgj2	-4.17
Zfp712	0.43	Josd1	0.11	Qser1	-0.36	Gm17671	-4.17
Osbpl1a	0.43	Surf4	0.11	Dnajc15	-0.36	Traj28	-4.17
Lin52	0.43	Tm9sf2	0.11	Ppp3cc	-0.36	S1pr4	-4.17
Neu3	0.43	Hnrnpf	0.11	Ptpn4	-0.36	Faim3	-4.17
Asb13	0.43	Nup37	0.11	Stxbp1	-0.36	Tarm1	-4.17
Gnb2l1	0.43	Ptgs1	0.11	Lass5	-0.36	Vil1	-4.17
Hnrpll	0.43	Pik3r4	0.11	Gstt2	-0.36	Hk3	-4.23
2310003C23Rik	0.43	Ptpn11	0.11	Zdhhc9	-0.36	Fgf7	-4.24
Rpl21	0.43	Sipa1l3	0.11	Acss3	-0.36	Nov	-4.24
4930481A15Rik	0.43	Rprd1b	0.11	Mycbpap	-0.36	Cd248	-4.25
2510012J08Rik	0.43	Xpc	0.11	Sh2b3	-0.36	Tmem171	-4.26
Wdr92	0.43	Lin54	0.11	Ubtd1	-0.36	Ctla4	-4.26
Fam120c	0.43	Churc1	0.11	Akt2	-0.36	Ighv1-12	-4.26
Gpr126	0.43	Pvrl1	0.11	Serpinb6b	-0.36	Col1a1	-4.27
Gpatch1	0.43	5830415F09Rik	0.11	Osgin2	-0.36	Cxcr2	-4.27
Klhl2	0.43	Gtf3c4	0.11	Zfp518b	-0.37	6330406I15Rik	-4.28
Commd10	0.43	1600002K03Rik	0.11	Fancc	-0.37	Ccl12	-4.29
Lrrc55	0.43	Sgtb	0.11	Rcor2	-0.37	Ms4a8a	-4.31
Mpi	0.43	Mad1l1	0.11	Tnfsf10	-0.37	Rgs18	-4.31
E2f3	0.43	Tubgcp6	0.11	Kcnip3	-0.37	Trim30b	-4.31
Taf13	0.42	Dcaf8	0.11	Mapk11	-0.37	Col8a1	-4.31
Mex3d	0.42	Ip6k2	0.11	A530084C06Rik	-0.37	Lax1	-4.32
Mrpl11	0.42	Arfgap3	0.11	Ybx1	-0.37	Dio3	-4.32
Ift140	0.42	Poglut1	0.11	C1d	-0.37	Slc28a2	-4.32
Chrm4	0.42	Eif4enif1	0.11	Cryzl1	-0.37	Saa1	-4.32
Gpr89	0.42	Naa40	0.11	Atp6v1a	-0.37	Ms4a4c	-4.33
Lmo1	0.42	Nipa2	0.11	Tmc6	-0.37	Atp8b4	-4.34
Zfp954	0.42	C030046E11Rik	0.11	Gapdh	-0.37	Igkv1-133	-4.37
Ints9	0.42	Krtcap2	0.11	Tmem219	-0.37	Slfn1	-4.38
Mau2	0.42	1110057K04Rik	0.11	Tmem5	-0.37	Sell	-4.38
Gtf3c1	0.42	Nr2c2ap	0.11	Arrb1	-0.37	Ighv1-20	-4.39
S100pbp	0.42	Isca1	0.11	Mcm2	-0.37	Fbxo17	-4.39
Gstcd	0.42	Slc23a2	0.11	Txnrd3	-0.37	Comp	-4.39
D10Wsu52e	0.42	Aco2	0.11	Irak1bp1	-0.37	Abcd2	-4.40
Zfp58	0.42	Bdp1	0.11	Rpusd2	-0.37	Gm15987	-4.40
Noc3l	0.42	Itga3	0.11	Stard4	-0.37	Ltbp2	-4.40
Axin2	0.42	Stam	0.11	1500031L02Rik	-0.37	Igkv4-70	-4.41
Tmbim1	0.42	Bivm	0.11	Add3	-0.37	Gm10309	-4.41
Mrps2	0.42	Zbtb34	0.11	Mcm10	-0.37	Mndal	-4.41
Mrps10	0.42	Il18	0.11	1110005A03Rik	-0.37	Saa2	-4.43

Scamp4	0.42	1110054M08Rik	0.11	Lama3	-0.37	Mrc1	-4.44
Fcgbp	0.42	Hps5	0.11	Angpt2	-0.37	Ntn1	-4.45
Atp5g3	0.42	Cd8a	0.11	Cbr1	-0.37	Fam179a	-4.45
Lactb2	0.42	Nol11	0.11	Usp46	-0.37	Ccl9	-4.47
Mrto4	0.42	Surf1	0.11	S100a16	-0.37	Rcn3	-4.50
Dap3	0.42	Ppp2r2d	0.11	Fchsd1	-0.37	Lilra6	-4.50
P2rx4	0.42	A630052C17Rik	0.11	Trim7	-0.37	Mtap1a	-4.52
ltpa	0.42	Slc35d1	0.11	Slc3a2	-0.37	Lrrc32	-4.53
2410015M20Rik	0.42	0610009L18Rik	0.11	Slc9a6	-0.37	Chi3l7	-4.54
Tubb4b	0.42	Alg1	0.11	Plekhm2	-0.37	Ptgir	-4.54
Nfkbil1	0.42	Patl1	0.11	Dgkd	-0.37	Alox5ap	-4.54
Mbd3	0.42	Bpgm	0.11	Itgb3	-0.37	Gm13889	-4.54
Pcgf2	0.42	Ssr1	0.11	Cry1	-0.38	Ms4a4d	-4.54
Fam53a	0.42	Eapp	0.11	Pde3a	-0.38	Gdgd3	-4.55
Ssx2ip	0.42	1700056E22Rik	0.11	4930523C07Rik	-0.38	Bank1	-4.55
Parl	0.42	Inpp1	0.11	Sec23a	-0.38	Fpr1	-4.56
Snrpd2	0.42	Bcl7b	0.11	Rnf215	-0.38	Ighv5-9	-4.57
Atg4b	0.42	Tsen34	0.11	Srp9	-0.38	Siglec1	-4.58
Pxmp3	0.42	Ergic3	0.11	Zfp292	-0.38	Col15a1	-4.59
BC029722	0.42	Efna4	0.11	P4ha1	-0.38	Sele	-4.59
Ascc2	0.42	Zfp451	0.11	Lims1	-0.38	Asb5	-4.61
Yeats4	0.42	Vma21	0.11	Actn1	-0.38	Ebf3	-4.61
Ube2h	0.42	2310045N01Rik	0.11	Dnajc28	-0.38	Mpz	-4.62
Lsg1	0.42	Chmp1a	0.11	Rhobtb2	-0.38	Npy1r	-4.62
Thyn1	0.42	Gla	0.11	Zfand2a	-0.38	Cebpe	-4.64
A830010M20Rik	0.42	Mcmbp	0.11	Stxbp3a	-0.38	Frzb	-4.64
Taf4a	0.42	Nagk	0.11	Pthr1	-0.38	Gm16194	-4.64
Rc3h1	0.42	Iffo2	0.11	Tmem194b	-0.38	Ighv9-4	-4.64
Ccdc51	0.42	Esco1	0.11	Nphp1	-0.38	1810033B17Rik	-4.68
Dnaja3	0.42	Sall2	0.11	Pld3	-0.38	Mefv	-4.69
Mrps7	0.42	Snn	0.11	Dapp1	-0.38	Rgma	-4.69
Atxn2	0.42	Ide	0.11	Trim21	-0.38	Mrgpra2b	-4.70
Ankrd27	0.42	Tspan33	0.11	Mob3a	-0.38	Hs6st2	-4.70
Atp2a2	0.42	Slc11a2	0.11	Uba7	-0.38	2010001M06Rik	-4.70
Zfp329	0.42	Inadl	0.11	C030046I01Rik	-0.38	Thbs4	-4.72
Rpl9	0.42	Ercc3	0.11	Cenpj	-0.38	Igj	-4.72
Gm10269	0.42	Katnb1	0.11	Acox3	-0.38	Mcpt1	-4.73
Syncrip	0.42	Fhdc1	0.11	Anxa2	-0.38	Igkj2	-4.73
Elovl1	0.42	Dars2	0.11	AV064505	-0.38	Igkj1	-4.73
C1qbp	0.42	Rg9mtd3	0.11	Abtb1	-0.38	Fcrls	-4.73
2410016O06Rik	0.42	Cdkal1	0.11	Pcif1	-0.38	Wfdc12	-4.75
Fam53c	0.42	Dhx29	0.11	Pkd1	-0.38	C3	-4.76
Bbs4	0.42	Rogdi	0.11	lfngr1	-0.38	Myh11	-4.78

Ebag9	0.42	ORF61	0.11	Tmem139	-0.38	Car4	-4.78
Mier3	0.42	Zscan29	0.11	Dck	-0.38	Nppc	-4.78
Fat2	0.42	Uqcrc1	0.11	Scoc	-0.38	Fgf2	-4.79
Ndufa6	0.42	Klhl25	0.11	Tctn2	-0.38	S100a8	-4.79
Bahd1	0.42	Rab14	0.11	BC055324	-0.38	Lrrn1	-4.81
Atp11b	0.42	Pcnx13	0.11	Ccdc107	-0.38	Uox	-4.82
Hars2	0.42	Cnot10	0.11	Suv39h2	-0.38	Gm16867	-4.83
Plaa	0.42	Gmppa	0.11	Esam	-0.38	Trem3	-4.84
2310061I04Rik	0.42	Fbxo21	0.11	Prelid2	-0.38	AB124611	-4.85
Slc39a9	0.42	Tomm22	0.10	Ino80c	-0.39	Ly6g	-4.85
Tuft1	0.42	Pi4k2a	0.10	Adrbk1	-0.39	Bgn	-4.86
Yipf3	0.42	Dnttip2	0.10	Cmpk2	-0.39	Jph2	-4.87
Brd3	0.42	Ppil4	0.10	Cyth1	-0.39	Avpr1a	-4.87
Myeov2	0.42	Usp15	0.10	Pign	-0.39	F630028O10Rik	-4.87
Rfx1	0.42	Stk25	0.10	Acvr1	-0.39	Slfn4	-4.88
Terf2	0.42	Vcpip1	0.10	H2-T23	-0.39	Ighv6-6	-4.88
Chchd5	0.42	Smardc1	0.10	Rtkn	-0.39	Pde1a	-4.89
Recql5	0.42	Map3k10	0.10	Apol9b	-0.39	Nhedc2	-4.89
Tbc1d25	0.42	Nup43	0.10	Grap	-0.39	Gm5150	-4.90
D1Bwg0212e	0.42	Dusp14	0.10	Calu	-0.39	Mmp23	-4.90
Galm	0.42	P2ry6	0.10	Spc24	-0.39	Il10	-4.90
Rxrb	0.42	Isl1	0.10	Rap2b	-0.39	Cd177	-4.91
Rbm27	0.41	Ankra2	0.10	AA960436	-0.39	Cldn15	-4.91
Psmc3	0.41	Gcfc1	0.10	1500011K16Rik	-0.39	Lmod1	-4.91
Eif3k	0.41	Zfp3	0.10	Phc1	-0.39	Ighv1-66	-4.92
Rab3gap2	0.41	Bcas3	0.10	H2-T22	-0.39	Adamts16	-4.92
Srrm2	0.41	1810030O07Rik	0.10	Wdr31	-0.39	Vnn3	-4.92
Prmt1	0.41	Dffa	0.10	Mapkbp1	-0.39	Tagln	-4.93
Lman2	0.41	Zbtb41	0.10	Stard5	-0.39	Trem12	-4.93
Kdm6b	0.41	Pkn2	0.10	1700001L05Rik	-0.39	Onecut2	-4.95
Ddx56	0.41	Pptc7	0.10	Ppp1r12c	-0.39	Cxcl17	-4.95
Nfs1	0.41	Fancm	0.10	Mpzl3	-0.39	Gdgd2	-4.97
Zfyve19	0.41	Nfyb	0.10	Lamc1	-0.39	Ighv1-78	-4.97
Zfp316	0.41	Clcc1	0.10	Zfp385a	-0.39	Itih4	-4.97
Rabepk	0.41	Psbmb7	0.10	Gm15051	-0.39	Gucy1a3	-4.98
Slc25a38	0.41	Atat1	0.10	Taf4b	-0.39	Igkv4-90	-4.98
Tmed1	0.41	5830428H23Rik	0.10	Hhip1	-0.39	Actg2	-4.99
Syt12	0.41	Wtip	0.10	Zfp956	-0.39	Lilrb3	-5.01
Iqcb1	0.41	Srgap3	0.10	Neil1	-0.39	Soat2	-5.04
Wfdc1	0.41	Eml2	0.10	Smc2	-0.39	Gap43	-5.04
Dact2	0.41	Impdh1	0.10	Degs1	-0.40	Slc10a2	-5.06
Yy1	0.41	Btbd3	0.10	AI413582	-0.40	Retnlg	-5.07
Gm4353	0.41	Dync1li1	0.10	Myo1c	-0.40	Aqp5	-5.08

2900076A07Rik	0.41	Tor1aip2	0.10	Mettl21a	-0.40	Ighv1-5	-5.08
Gm16845	0.41	Pigb	0.10	Trim36	-0.40	Fndc1	-5.10
Snrpb2	0.41	Bend3	0.10	Abr	-0.40	Bst1	-5.10
Timm13	0.41	Gm16517	0.10	Trim25	-0.40	Mnda	-5.10
BC005561	0.41	Dennd5b	0.10	Stk36	-0.40	Stfa1	-5.10
Eml4	0.41	2210408F21Rik	0.10	Tcp11l1	-0.40	Iglv3	-5.11
Zfp142	0.41	Sowahb	0.10	Gm11110	-0.40	Ighj1	-5.13
Gm12060	0.41	Arhgap1	0.10	Zswim4	-0.40	Ighv1-75	-5.13
Cox5b	0.41	Ran	0.10	mt-Nd2	-0.40	Gng8	-5.13
Taf1d	0.41	Eif6	0.10	Spred1	-0.40	Gm5483	-5.13
Rbm5	0.41	Sephs1	0.10	Il13ra1	-0.40	S100a9	-5.14
Mfsd9	0.41	Gstm4	0.10	Wsb1	-0.40	Chi3l1	-5.16
Ppp1r37	0.41	Naglu	0.10	Pcgf5	-0.40	E330013P04Rik	-5.17
1110014N23Rik	0.41	Cbl1	0.10	Phf1	-0.40	Kcna5	-5.17
Jmjd8	0.41	Atg12	0.10	Rbm43	-0.40	Mcpt2	-5.17
Aasdhpt	0.41	Ccdc132	0.10	Sh3bgrl3	-0.40	Wfikkn2	-5.17
Adrm1	0.41	Fam55d	0.10	Mpv17l	-0.40	Igkv1-88	-5.18
Paip1	0.41	Zfp36l1	0.10	Tert	-0.40	AW551984	-5.18
Rpl18a	0.41	Mrps5	0.10	9030425E11Rik	-0.40	Igkv4-62	-5.21
Emg1	0.41	Dcaf10	0.10	Gm11948	-0.40	Fpr2	-5.23
Mrps30	0.41	Amz2	0.10	Tpm3	-0.40	Cacng7	-5.23
Alyref	0.41	Eefsec	0.10	Neu1	-0.40	Mosc1	-5.24
Ppil3	0.41	4931428F04Rik	0.10	Cdca3	-0.40	Ighv10-3	-5.24
Cct7	0.41	Dusp19	0.10	Dzip3	-0.40	Pdgfrl	-5.25
Gtf2e2	0.41	Cnot7	0.10	Iigp1	-0.40	Ighv1-9	-5.29
Gm5474	0.41	2310022B05Rik	0.10	Cdc42ep3	-0.40	Selp	-5.29
Dusp7	0.41	Gimap7	0.10	Ccnb2	-0.40	Spon1	-5.30
Birc2	0.41	Wac	0.10	Nfkbiz	-0.40	Vtn	-5.31
Fyttd1	0.41	5430437P03Rik	0.10	0610040B10Rik	-0.40	Folr2	-5.32
Prpsap1	0.41	Gmpr2	0.10	Slc25a40	-0.40	Serpina3m	-5.33
Sfrs18	0.41	Gfra2	0.10	Leprot	-0.40	Cxcl1	-5.33
As3mt	0.41	Dhx8	0.10	Ctsd	-0.40	Ighv1-55	-5.35
Slc25a39	0.41	Etl4	0.10	Epha2	-0.40	Ighv3-1	-5.35
Pusl1	0.41	Map2k5	0.10	Wdr91	-0.40	2810433D01Rik	-5.35
RP24-372P19.1	0.41	Alkbh5	0.10	Gpd2	-0.40	Igkv6-14	-5.36
Gm16174	0.41	Trappc1	0.10	Gm10495	-0.40	Pf4	-5.36
Mrpl1	0.41	1810035L17Rik	0.10	C230081A13Rik	-0.40	Itgb2l	-5.37
Hsf1	0.41	D030056L22Rik	0.10	Plin2	-0.40	Slc10a6	-5.40
Mob1b	0.41	Tigd2	0.10	Alg6	-0.40	Fbln1	-5.40
Tom7	0.41	3110003A17Rik	0.10	5730469M10Rik	-0.41	Cmah	-5.42
Fuk	0.41	Ppp2ca	0.10	Snap23	-0.41	Aqp4	-5.45
Smek1	0.41	Gpihbp1	0.10	Reep4	-0.41	Ighv1-36	-5.46
Eef2	0.41	Dicer1	0.10	Large	-0.41	Il6	-5.47

Aldh4a1	0.41	Mob2	0.10	Slc29a2	-0.41	Csgalnact1	-5.47
Fh1	0.41	Arhgap17	0.10	Wdr5b	-0.41	Ighv2-9	-5.47
Mapk1	0.41	Cep57	0.10	Actb	-0.41	Tnfsf11	-5.49
D930048N14Rik	0.41	Klf6	0.10	Nhlrc3	-0.41	Lrrn2	-5.49
Keap1	0.41	Smc1a	0.10	Slc6a6	-0.41	Ighv5-17	-5.52
Gm15903	0.41	Wdr24	0.10	Whamm	-0.41	Ccl7	-5.54
Klhl21	0.41	Gm17296	0.10	Cchcr1	-0.41	Ighv1-26	-5.54
Gpr125	0.41	Isyna1	0.10	Trim3	-0.41	Dio3os	-5.55
Prr5l	0.41	Rin1	0.10	Cln5	-0.41	Ighv1-19	-5.56
Adhfe1	0.41	Tmem165	0.10	Nedd9	-0.41	Tfr2	-5.56
Atp8a1	0.41	Eif3c	0.10	Gm11613	-0.41	Slc43a1	-5.57
Zbtb45	0.41	Kif3c	0.10	Luzp1	-0.41	Tox2	-5.60
BC031181	0.41	Ttc5	0.10	Pxk	-0.41	Nnmt	-5.61
Dvl3	0.41	Cacnb1	0.10	Ssfa2	-0.41	Ptx3	-5.62
Tlk1	0.41	Btaf1	0.10	Ncapg	-0.41	Darc	-5.63
Ehbp1	0.41	Cnot1	0.10	Ssh3	-0.41	Igfbp6	-5.63
Secisbp2	0.41	C030006K11Rik	0.10	A930005H10Rik	-0.41	Cd79a	-5.65
Srp14	0.41	Zmym4	0.10	Sergef	-0.41	Eef1a2	-5.67
D330012F22Rik	0.41	Huwe1	0.10	Slc31a1	-0.41	Iglc3	-5.70
Prrc2a	0.40	Nomo1	0.10	Hmgxb4	-0.41	C6	-5.70
Ppp2r5b	0.40	Cux1	0.10	Mfsd8	-0.41	Igkj5	-5.70
Phb	0.40	Rbck1	0.10	Plagl2	-0.41	Gm5416	-5.70
Eif1ax	0.40	Bcl6	0.10	3110057O12Rik	-0.41	Ighv8-13	-5.70
Ptk7	0.40	Kbtbd3	0.10	H2-D1	-0.41	Ighv1-81	-5.75
Arid2	0.40	Impact	0.10	Gpr160	-0.41	Clec4a1	-5.76
Prpf38b	0.40	Cyp2j6	0.10	Cdc45	-0.41	Prrg3	-5.76
Htatsf1	0.40	Lmln	0.09	Myo10	-0.41	Cnn1	-5.77
Mtmr1	0.40	Rnf187	0.09	Spg21	-0.41	Ighv5-4	-5.77
Rab3gap1	0.40	Zranb3	0.09	Tonsl	-0.41	Ighv2-6	-5.78
Rab9	0.40	Rcc1	0.09	Flot1	-0.41	Nova1	-5.78
Cdyl	0.40	E2f8	0.09	Shcbp1	-0.41	Mmrn1	-5.79
Sema5a	0.40	Tor1b	0.09	Sesn2	-0.41	Igkv19-93	-5.80
Slc44a1	0.40	Dhx30	0.09	Snrk	-0.41	Reg3g	-5.81
Tmem70	0.40	Coq9	0.09	Melk	-0.41	Igkv4-79	-5.83
Afap1l2	0.40	Akap9	0.09	Rpl34	-0.42	Svep1	-5.84
Gm13840	0.40	Mfge8	0.09	Bcap29	-0.42	Ighv4-1	-5.85
Pdcl	0.40	Serinc2	0.09	mt-Cytb	-0.42	Orm1	-5.85
Gart	0.40	Tbrg4	0.09	Fchsd2	-0.42	Gm98	-5.86
Csad	0.40	Timm22	0.09	Il1f6	-0.42	BC100530	-5.87
Spryd4	0.40	Gatad2a	0.09	Lgr5	-0.42	Tbxa2r	-5.88
Setd8	0.40	Tnpo1	0.09	Atp6v0a1	-0.42	Scrg1	-5.88
Ppm1b	0.40	Epb4.1l4b	0.09	Flnb	-0.42	Loxl1	-5.88
Exosc4	0.40	Vps35	0.09	Hnrnpd	-0.42	Fibin	-5.90

Map2k6	0.40	Kdm3a	0.09	Riok3	-0.42	Tmem90b	-5.90
Szt2	0.40	Rfng	0.09	Rnaseh2b	-0.42	Adipoq	-5.90
Wdr43	0.40	Tlk2	0.09	Tmem43	-0.42	Ighv9-3	-5.90
Rad9b	0.40	1810006K21Rik	0.09	Lrfn3	-0.42	1100001G20Rik	-5.94
BC016579	0.40	Zfp777	0.09	1110008P14Rik	-0.42	Tmem59l	-5.95
C330019G07Rik	0.40	Tmem192	0.09	Bcl2a1b	-0.42	Igkv8-19	-5.98
Rbbp4	0.40	BC031781	0.09	Top2a	-0.42	Igkv3-1	-6.01
Gtl3	0.40	Senp3	0.09	Nrarp	-0.42	Ighv1-39	-6.01
Ing4	0.40	Trak1	0.09	Zc4h2	-0.42	Col3a1	-6.02
Zfp11	0.40	Fbxl3	0.09	Eid2b	-0.42	Cyp1b1	-6.03
Mtcp1	0.40	Sumo3	0.09	lah1	-0.42	Sprn	-6.04
Lrrc14	0.40	Usp37	0.09	Foxp1	-0.42	Alox12e	-6.05
Nasp	0.40	Mcm7	0.09	Ckap2l	-0.42	Ubd	-6.05
Slc25a3	0.40	Fam102a	0.09	Trerf1	-0.42	Adamts5	-6.07
Cct8	0.40	Msl3	0.09	Cnnm4	-0.42	Angptl7	-6.07
Arhgap12	0.40	Pdik1l	0.09	Rtn1	-0.42	Igkv4-68	-6.11
Cry2	0.40	Lass3	0.09	Zfp467	-0.42	Igkv4-69	-6.11
Nsa2	0.40	Rbm38	0.09	Orc3	-0.42	Igkv2-116	-6.11
Nol7	0.40	Acat2	0.09	Ramp1	-0.42	Ighv14-2	-6.13
Eif1a	0.40	Fbxo36	0.09	Dtx3	-0.42	Cma1	-6.14
Pdcd2	0.40	Zfp82	0.09	Tap2	-0.42	Ighv1-63	-6.14
Hdgf	0.40	Mex3b	0.09	Sema3a	-0.42	Ighv6-3	-6.16
Hmg20b	0.40	Med12	0.09	H2-Q4	-0.42	Ms4a1	-6.18
Tsr2	0.40	Taok3	0.09	Lrrc8a	-0.42	Ighv1-85	-6.18
Tfam	0.40	Ppp1r3e	0.09	Diap1	-0.42	Zfpm2	-6.19
D10Jhu81e	0.40	2700060E02Rik	0.09	Pnkp	-0.42	Ighv5-12	-6.19
Exd2	0.40	Gm16740	0.09	Gm17077	-0.42	Clec11a	-6.19
Catsper2	0.40	Rnft1	0.09	Dsn1	-0.43	Adamts1	-6.21
Ccni	0.40	A230072C01Rik	0.09	Itgb1bp1	-0.43	Ighv3-6	-6.21
Akt1s1	0.40	Rpf1	0.09	Slc36a1	-0.43	C4b	-6.23
Pigh	0.40	Spryd3	0.09	6330403L08Rik	-0.43	Rtn4rl2	-6.25
Prickle3	0.40	Smcr8	0.09	Wdfy2	-0.43	Fxyd1	-6.26
Bckdha	0.40	Abcd3	0.09	Ftl1	-0.43	Ighv2-2	-6.26
Rhebl1	0.40	Gcc2	0.09	Dnajc27	-0.43	Ighv1-58	-6.26
Rg9mtd1	0.40	Clec14a	0.09	Supt3h	-0.43	Igkv1-110	-6.28
Gphn	0.40	Nagpa	0.09	Lpar6	-0.43	Ighv1-15	-6.29
Irf2bp1	0.40	6530401N04Rik	0.09	Etaa1	-0.43	Igkv4-58	-6.29
Prkcsh	0.40	Cyb5	0.09	Cep110	-0.43	Cd19	-6.30
Usp53	0.40	Mark4	0.09	Athl1	-0.43	Abca8a	-6.31
Pigm	0.40	Brpf1	0.09	Ddx60	-0.43	Tpsab1	-6.32
5730403B10Rik	0.40	Rptor	0.09	Itpr2	-0.43	Mfap5	-6.32
Ctbp2	0.40	Mtif3	0.09	Sh3bgrl2	-0.43	Bmper	-6.33
Leng1	0.40	Nmnat3	0.09	Ldhd	-0.43	Ighv2-3	-6.34

Six4	0.40	Ahdc1	0.09	Ccne1	-0.43	Lox	-6.34
Ppig	0.40	Tox4	0.09	Ccdc109a	-0.43	Ighv1-42	-6.35
Capn1	0.40	Cdc5l	0.09	Gm17586	-0.43	Col1a2	-6.37
Ralbp1	0.40	1700021K19Rik	0.09	Foxm1	-0.43	Ighv5-9-1	-6.37
Gemin6	0.40	Ccdc12	0.09	Arrdc2	-0.43	Ighv1-22	-6.38
Supv3l1	0.40	Aaas	0.09	Atp6v0b	-0.43	Stfa2	-6.40
Pstk	0.40	Copg	0.09	Vat1	-0.43	Ighv1-18	-6.42
A430005L14Rik	0.40	Rpusd4	0.09	Atg9a	-0.43	Ighv1-83	-6.43
Dhx32	0.40	Erap1	0.09	Ccdc99	-0.43	Igkv4-81	-6.43
Zfhx2	0.40	Carf	0.09	Rrm1	-0.43	Enox1	-6.44
Ireb2	0.40	Bicd2	0.09	Trim13	-0.43	Igkv5-39	-6.46
Prkrip1	0.40	Hk1	0.09	Tmem20	-0.43	Igkv17-121	-6.50
Gnl3l	0.40	Zfp788	0.09	Dhrs13	-0.43	Igkv2-112	-6.52
Mettl1	0.40	Mad2l1	0.09	Eps8l1	-0.43	Ighv15-2	-6.56
Ube3a	0.40	Wdtdc1	0.09	Hjrp	-0.43	Igkv18-36	-6.56
Dusp10	0.40	Fbxw7	0.09	Il18bp	-0.43	Igkv4-78	-6.56
Ing1	0.40	Zfp719	0.09	Agrn	-0.43	Gabra3	-6.57
Clip1	0.40	Rnf2	0.09	Ak4	-0.43	Lyve1	-6.58
Sidt1	0.40	Mmd	0.09	S100a10	-0.43	Gdf6	-6.59
Supt6h	0.40	Zfp775	0.09	Tmem17	-0.43	Igkv4-61	-6.60
Atpif1	0.40	Fnbp1l	0.09	Cyp39a1	-0.43	Igkv12-41	-6.60
2510006D16Rik	0.40	Smarcal1	0.09	2810001G20Rik	-0.43	Ighv2-9-1	-6.61
Ndrp2	0.40	Yaf2	0.09	Ctla2b	-0.43	Igkv5-48	-6.63
Edem1	0.39	Dusp12	0.09	Mrgpre	-0.43	Igkv4-57-1	-6.63
Nadsyn1	0.39	Hn1	0.09	Tmem37	-0.43	Lgi2	-6.67
Sarnp	0.39	Gm17549	0.09	Sclt1	-0.43	P4ha3	-6.67
Rnmtl1	0.39	Trip12	0.09	5730528L13Rik	-0.43	Mmp8	-6.67
Ccdc9	0.39	Galnt6	0.09	Morc3	-0.43	Igkj4	-6.69
Aph1b	0.39	Mthfr	0.09	Eif4e3	-0.43	Tmem190	-6.69
Vps37a	0.39	Mul1	0.09	Prkd2	-0.44	Ighv8-5	-6.69
Pik3r2	0.39	Mapkapk5	0.09	Myof	-0.44	Pi16	-6.69
Mavs	0.39	Vwa5a	0.09	Ddx58	-0.44	Gm16710	-6.71
Smarcb1	0.39	Tmem167b	0.09	Atg16l2	-0.44	Slpi	-6.71
Cox4i1	0.39	Tmem188	0.09	Rabgap1l	-0.44	Igkv4-72	-6.73
Cst3	0.39	Mynn	0.09	Maob	-0.44	Ighv5-6	-6.73
Ston1	0.39	Cab39	0.09	Dyrk3	-0.44	BC055004	-6.73
Mll3	0.39	Cyb5rl	0.09	Rap1b	-0.44	Ifitm6	-6.74
Hspa9	0.39	Parp10	0.09	Sptlc2	-0.44	Rian	-6.77
Sil1	0.39	Rasd1	0.09	Prdm11	-0.44	Vgll3	-6.77
Srsf3	0.39	Slc39a4	0.09	Krt4	-0.44	Capn11	-6.79
Mrpl30	0.39	Cdc42bbp	0.09	Ckap2	-0.44	Gm13659	-6.80
Trbj1-1	0.39	Ppox	0.09	Ssh1	-0.44	Igkv4-56	-6.80
Trbj1-6	0.39	Tmem128	0.09	Mical1	-0.44	Ighv8-12	-6.81

5S_rRNA	0.39	Sacm1l	0.09	mt-Nd1	-0.44	Cxcl12	-6.81
n-R5s40	0.39	Lmbrd2	0.09	Enpp4	-0.44	Iglv1	-6.82
Terf2ip	0.39	Msrb3	0.09	Dhx35	-0.44	Ms4a3	-6.82
Epb4.1	0.39	Fam59a	0.09	Sgk3	-0.44	Gdf10	-6.83
Dnajb11	0.39	Ipo9	0.09	Camk2d	-0.44	Penk	-6.84
1810046J19Rik	0.39	Cd2ap	0.09	Map3k9	-0.44	Ighv1-80	-6.84
A830039N20Rik	0.39	Hexdc	0.09	Ift80	-0.44	Ptgis	-6.86
Uchl5	0.39	Tfip11	0.09	Vsig2	-0.44	Gfpt2	-6.87
Frs2	0.39	Arid5b	0.09	Procr	-0.44	Pou2af1	-6.88
Sdhd	0.39	Gnai3	0.09	Xylt2	-0.44	Meg3	-6.90
Wdr53	0.39	Rab40b	0.09	Dock9	-0.45	Igkv6-15	-6.91
Brwd1	0.39	Dnajb6	0.09	Snx30	-0.45	Cntfr	-6.91
Zfp12	0.39	Igf2r	0.09	B930095G15Rik	-0.45	Crlf1	-6.93
Ndufaf4	0.39	Lima1	0.08	Cacnb3	-0.45	Igkv5-43	-6.96
Slc25a16	0.39	Snx16	0.08	Mob3b	-0.45	Igkv3-5	-6.98
Zfp191	0.39	Igtp	0.08	Enpp5	-0.45	Igkv1-117	-7.00
Glrp	0.39	Tmem111	0.08	Actr3	-0.45	Igkv9-129	-7.01
0610007P22Rik	0.39	Fam100b	0.08	Cdk6	-0.45	Igkv4-71	-7.01
Cetn2	0.39	Fbxo38	0.08	Dusp8	-0.45	Igkv1-99	-7.03
Nsdhl	0.39	Setd5	0.08	Mon1b	-0.45	Igkv4-91	-7.03
Xpnp1	0.39	Fjx1	0.08	9530068E07Rik	-0.45	Ighv1-53	-7.04
Ppp6c	0.39	Ndufa11	0.08	Exoc3l2	-0.45	Itgbl1	-7.05
Cxx1b	0.39	0610011L14Rik	0.08	Crabp2	-0.45	Ccl8	-7.05
Tmtc3	0.39	Gnptg	0.08	Agfg1	-0.45	Ighv3-8	-7.06
Zbtb43	0.39	Ndufa4	0.08	Smap2	-0.45	Rec8	-7.06
Asap2	0.39	Cep68	0.08	Schip1	-0.45	Igkv8-30	-7.07
Ybey	0.39	Txndc15	0.08	1700017B05Rik	-0.45	Ighv1-64	-7.10
Jun	0.39	Vps36	0.08	Smurf1	-0.45	AC158671.1	-7.10
Homez	0.39	Gnpda2	0.08	Coro1c	-0.45	Slit3	-7.10
Phf2	0.39	Arhgdia	0.08	Anln	-0.45	Igkv12-98	-7.14
Gpp11	0.39	Zbtb17	0.08	Ank	-0.45	Stfa3	-7.15
0610007P14Rik	0.39	Sf3b1	0.08	Fam113a	-0.45	Igkv4-59	-7.15
Pppde2	0.39	Rad51l3	0.08	Gm13212	-0.45	Ighv5-2	-7.19
Sh3glb2	0.39	Pdpf	0.08	1700012B15Rik	-0.45	Igkv11-125	-7.19
Myst3	0.39	2810474O19Rik	0.08	Tnfrsf4	-0.45	Tnfrsf17	-7.19
Atp5h	0.39	Atg16l1	0.08	Cda	-0.45	Ighj2	-7.19
Ddx49	0.39	Lypla1	0.08	2900092E17Rik	-0.45	Gm14548	-7.24
Tom111	0.39	Slc37a3	0.08	Mtmr6	-0.45	Col8a2	-7.25
Clns1a	0.39	Kctd17	0.08	Esm1	-0.45	Glycam1	-7.28
Rnmt	0.39	Dennd3	0.08	Pmepa1	-0.45	Ighv1-82	-7.33
Ipo8	0.39	Gabpb2	0.08	Gcap14	-0.45	Igkv8-16	-7.35
Bclaf1	0.39	AA987161	0.08	Pctp	-0.45	Oxtr	-7.36
Ercc6	0.39	Zfp867	0.08	Nbeal1	-0.45	Igkv8-21	-7.37

Scaf8	0.39	Hpgd	0.08	Gm15980	-0.46	Cldn2	-7.38
Cpox	0.39	Dpm3	0.08	Xkr8	-0.46	Igkv3-7	-7.40
Psmc2	0.39	Taf8	0.08	Bnip3	-0.46	Igkv10-96	-7.40
Gm6665	0.39	Zbtb8os	0.08	Pde7a	-0.46	Iglv2	-7.42
Fbxo46	0.39	Rest	0.08	Hpn	-0.46	Ighv2-6-8	-7.42
Fkbp11	0.39	2610008E11Rik	0.08	Dst	-0.46	Fgf10	-7.47
Foxo4	0.39	Golga2	0.08	Mcm3	-0.46	Lrrn4cl	-7.54
Xpo5	0.39	Prpf18	0.08	Zfp516	-0.46	Igkv10-94	-7.55
Ctns	0.39	Smg1	0.08	Aldoart2	-0.46	Ighv10-1	-7.56
Degs2	0.39	Slc25a17	0.08	Wipi1	-0.46	Igkv13-84	-7.58
Yipf4	0.39	Cno	0.08	Ggt5	-0.46	Ighv5-16	-7.60
Ddit4l	0.39	Spn	0.08	Etnk1	-0.46	Mmp3	-7.60
Mettl2	0.39	Pbx2	0.08	Pea15a	-0.46	Igkv2-137	-7.61
Gnpat	0.39	Foxk1	0.08	Mcm6	-0.46	Igkv4-86	-7.62
Pacsin3	0.39	Ss18	0.08	St7	-0.46	Igkv8-24	-7.65
Prmt5	0.39	D930014E17Rik	0.08	Tmem220	-0.46	Chi3l3	-7.65
Gm17250	0.39	Arhgap21	0.08	Bub1b	-0.46	F13a1	-7.66
Vps72	0.39	Gpr63	0.08	Cenph	-0.46	Ighv1-52	-7.68
Ovca2	0.39	Casp2	0.08	Gpx1	-0.46	Igkv3-10	-7.68
Zfp60	0.39	Hp1bp3	0.08	Rnf157	-0.46	Igkc	-7.69
Pfdn4	0.39	Glod4	0.08	Rab31	-0.46	Reg3b	-7.70
D17Wsu104e	0.39	Ppp1r16a	0.08	Wdr35	-0.46	Serpina3n	-7.72
Lrrfip1	0.39	Rps6ka3	0.08	Mmp28	-0.46	Igkv4-57	-7.76
Zfp318	0.39	Zswim3	0.08	AI597468	-0.46	2010001M09Rik	-7.76
Taf7	0.39	Tmcc3	0.08	Rab13	-0.46	Col6a5	-7.77
Nav2	0.39	Nudt8	0.08	Sass6	-0.46	Igkv4-80	-7.79
Arhgef18	0.38	Fam118a	0.08	Mocs2	-0.46	Cd209g	-7.80
Hoxa5	0.38	Pigp	0.08	Bri3	-0.46	Cd209d	-7.80
Kras	0.38	Scfd1	0.08	Necap2	-0.46	Oosp1	-7.80
Ktn1	0.38	Gm16536	0.08	Lrrc8b	-0.46	Igkv6-17	-7.81
Nqo1	0.38	Zmym6	0.08	Rnf13	-0.46	Igkv6-23	-7.83
Xab2	0.38	Vrk1	0.08	Tmx4	-0.46	Prtn3	-7.84
Tcf7l2	0.38	Asxl2	0.08	Hopx	-0.46	1700020L24Rik	-7.85
Zfyve1	0.38	Vps28	0.08	Tap1	-0.46	Ighv2-4	-7.85
Cul1	0.38	Dnttip1	0.08	Hist1h4i	-0.46	Ighv1-34	-7.85
Ptbp1	0.38	Wwc1	0.08	Gm9847	-0.46	Igkv4-50	-7.88
Usp39	0.38	Apc	0.08	Trbc2	-0.46	Camp	-7.88
Ebna1bp2	0.38	Qrsl1	0.08	Figl1	-0.46	Rspo3	-7.90
Ndufs6	0.38	Stard3	0.08	Cklf	-0.46	Cd79b	-7.90
Ceacam19	0.38	Sap130	0.08	Lrch1	-0.47	Ighv1-31	-7.90
Taf6l	0.38	1600016N20Rik	0.08	Tnip2	-0.47	Gm5420	-7.93
Mars2	0.38	Rac1	0.08	Ugdh	-0.47	Ifi205	-7.93
Zfp418	0.38	Zfp143	0.08	Kif23	-0.47	Sod3	-7.93

Cbx8	0.38	Rqcd1	0.08	Slc45a4	-0.47	Cpz	-7.94
Mllt3	0.38	Wdr36	0.08	Lrba	-0.47	Igkv1-122	-7.98
Rdm1	0.38	Pitpna	0.08	Slc46a1	-0.47	Igkv8-28	-8.02
Vps26b	0.38	Cd82	0.08	Gm17096	-0.47	Igkv6-20	-8.03
Chd1l	0.38	Ict1	0.08	Kif11	-0.47	Fcer1a	-8.05
Siah1b	0.38	Ube2d1	0.08	Zfp52	-0.47	Cd209a	-8.05
Zcchc8	0.38	Exoc7	0.08	Cdc6	-0.47	Slit2	-8.05
Hnf1b	0.38	Guf1	0.08	Trib3	-0.47	Ly6c2	-8.07
Mal	0.38	Amacr	0.08	B630019K06Rik	-0.47	Igkv5-37	-8.07
Tjp2	0.38	Zufsp	0.08	Gpr183	-0.47	Col11a1	-8.12
Mybpc1	0.38	Zfp869	0.08	Mapkapk2	-0.47	Dpep1	-8.12
Ccdc97	0.38	Atf3	0.08	Adrbk2	-0.47	Ighv5-15	-8.14
Hnrrpul2	0.38	Sik3	0.08	Furin	-0.47	Sult1e1	-8.18
Gdf11	0.38	Zdhhc5	0.08	Uppt	-0.47	Gm17329	-8.18
Tle6	0.38	Zc3h14	0.08	Slc25a37	-0.47	Ngp	-8.18
Bbs2	0.38	Cenpk	0.08	Pex11a	-0.47	Igkv12-46	-8.21
Mrps23	0.38	Gstz1	0.08	Dync2li1	-0.47	Ighv2-5	-8.22
Rplp1	0.38	Fbxo7	0.08	Abhd15	-0.47	Sva	-8.22
Surf6	0.38	Cops8	0.08	Arhgap8	-0.47	Igkv17-127	-8.22
Fip11l	0.38	Oaz1	0.08	Stard13	-0.47	Stmn3	-8.30
Brd1	0.38	Ube2d3	0.08	Clcn5	-0.47	Ighv7-3	-8.33
Ube2e3	0.38	Rnf185	0.08	Tlcd2	-0.47	Ighv7-1	-8.34
Eif2b5	0.38	Psmc3	0.08	Rnf114	-0.47	Igkv14-130	-8.35
Klf9	0.38	Siah1a	0.08	Btbd19	-0.47	Igkv12-44	-8.45
Smarca4	0.38	Stx18	0.08	Pink1	-0.47	Clec3b	-8.48
Ascc3	0.38	Dscr3	0.08	Lrrc8d	-0.47	Ccl11	-8.52
Psmc12	0.38	Inpp5f	0.08	Fam83e	-0.47	Igkv3-2	-8.58
Rai1	0.38	Rab19	0.07	Glud1	-0.47	Igkv12-89	-8.58
Tdrd3	0.38	Tbc1d12	0.07	Pofut2	-0.47	Aqp2	-8.58
Sf1	0.38	Rev3l	0.07	Klf5	-0.47	1500015O10Rik	-8.59
Dmwd	0.38	Whsc1l1	0.07	Parp9	-0.47	Igkv8-27	-8.59
Ube2k	0.38	Alg5	0.07	Ppapdc1b	-0.47	Igkv6-13	-8.60
Cxx1a	0.38	Myst2	0.07	Gm11131	-0.47	Igkv10-95	-8.65
Eif5a	0.38	Ubxn6	0.07	Slc12a7	-0.47	Myoc	-8.68
Nsfl1c	0.38	Gm15446	0.07	Tnfrsf11b	-0.47	Ighv1-84	-8.68
Gnl1	0.38	Zfp825	0.07	Fam105a	-0.47	Ighv1-47	-8.71
Zfp687	0.38	Zcchc2	0.07	Gbp4	-0.47	Spink3	-8.74
Ccdc125	0.38	Atpaf2	0.07	Chd7	-0.47	Igkv15-103	-8.75
Sec24a	0.38	Mertk	0.07	Acadl	-0.47	Ighv1-69	-8.79
Tmem179b	0.38	Cul3	0.07	Atg9b	-0.48	Igkv1-135	-8.81
Letmd1	0.38	Tulp4	0.07	Car8	-0.48	Ctsg	-8.82
P2ry2	0.38	Vps54	0.07	Prosapip1	-0.48	Cd209b	-8.85
Polr1c	0.38	9330151L19Rik	0.07	Fdft1	-0.48	Figf	-8.85

Pot1b	0.38	Gmfb	0.07	Cdc42bpa	-0.48	Igkv3-4	-8.89
Lilra5	0.38	B4galt7	0.07	Snapin	-0.48	Gulo	-8.90
Zfp668	0.38	Tgfbr1	0.07	Aplp1	-0.48	Igkv4-55	-8.91
Nckap1	0.38	Clk1	0.07	Mxd3	-0.48	Igkv6-25	-8.91
Fastkd3	0.38	Vamp2	0.07	Sdccag8	-0.48	Prg4	-8.94
Reep3	0.38	Commd7	0.07	Sdcbp	-0.48	Ighg2b	-8.95
Pogz	0.38	Faim	0.07	Micu1	-0.48	Apod	-8.96
Spsb3	0.38	Ly6g6e	0.07	Ptpn13	-0.48	Defa21	-8.97
Tnfsf13	0.38	Psemb5	0.07	Bscl2	-0.48	Cd209e	-9.02
Tsfm	0.38	Bcas2	0.07	Lmbrd1	-0.48	Igkv4-73	-9.11
Bag5	0.38	Myl12b	0.07	L1cam	-0.48	Mcpt4	-9.16
Slc39a10	0.38	H2-K1	0.07	Hsbp111	-0.48	Igkv1-132	-9.16
Slc25a22	0.38	Gm15265	0.07	Gm10509	-0.48	Igkv16-104	-9.19
Sertad3	0.38	Phpt1	0.07	Parm1	-0.48	Igkv14-100	-9.20
Tmem86b	0.38	Brms1l	0.07	A130022J15Rik	-0.48	Igkv9-120	-9.21
Smagp	0.38	C2cd2l	0.07	Galt	-0.48	Ighg2c	-9.21
Tbc1d22b	0.38	Nfe2l2	0.07	Ccdc111	-0.48	Igkv2-109	-9.21
1600012F09Rik	0.38	AI606181	0.07	Sgol1	-0.48	Ighv11-2	-9.24
Slc25a5	0.38	Nufip2	0.07	Sorbs3	-0.48	Ovol3	-9.28
4833423E24Rik	0.38	Scml4	0.07	Rbpms	-0.48	Fcnb	-9.32
Crtc1	0.38	A430046D13Rik	0.07	Zbtb37	-0.48	Gpr133	-9.36
BC056474	0.38	Hbp1	0.07	Tmco4	-0.48	Ighv1-59	-9.38
Pcid2	0.38	Spred2	0.07	Psemb8	-0.48	Vip	-9.39
Cdk4	0.38	Zfp341	0.07	Anxa3	-0.48	Vpreb3	-9.43
Klhdc2	0.38	Ppp1cc	0.07	Vangl1	-0.48	Cpxm1	-9.43
Cox8a	0.38	Zfr	0.07	4931408A02Rik	-0.48	Igkv6-32	-9.44
Metap1	0.38	Spred3	0.07	Trp53inp1	-0.48	A730049H05Rik	-9.48
0610009O20Rik	0.38	Pan2	0.07	Golga7	-0.48	Ighv14-1	-9.52
Zfp94	0.38	Sufu	0.07	Ndc80	-0.49	Htr3a	-9.53
Nkiras1	0.38	Tmem147	0.07	Grf1	-0.49	Klra17	-9.55
Pinx1	0.38	Aftph	0.07	mt-Nd4	-0.49	Svs2	-9.59
Thtpa	0.38	Tasp1	0.07	Grn	-0.49	Serpina3c	-9.63
Slc35e3	0.38	Tmem126a	0.07	Accs	-0.49	Ighv1-76	-9.64
Atpbd4	0.38	Bcar3	0.07	Ltbp3	-0.49	Lin28a	-9.64
Rpl15	0.38	Gosr1	0.07	Eda2r	-0.49	Ighv1-7	-9.72
Sos2	0.38	Ermp1	0.07	Samd14	-0.49	Ighv1-4	-9.72
Slc20a2	0.38	Vps13a	0.07	Ssbp4	-0.49	Defa20	-9.78
Pop7	0.38	Ctnnbl1	0.07	2410017P09Rik	-0.49	Cd209f	-9.79
2310047B19Rik	0.38	Trim37	0.07	N4bp1	-0.49	Igkv14-111	-9.80
Cct2	0.38	Jtb	0.07	Mmp7	-0.49	Igkv3-9	-9.87
Rab40c	0.37	Parp1	0.07	Arf2	-0.49	Ighv14-4	-9.95
C77080	0.37	Nudt7	0.07	Nmral1	-0.49	Mpo	-9.96
Agap1	0.37	Ubr2	0.07	Tln1	-0.49	Gm15308	-9.97

Acadvl	0.37	Usf1	0.07	Hs6st1	-0.49	Sfrp1	-9.99
Mylpf	0.37	Tgfb1	0.07	Zfp458	-0.49	Igkv12-38	-10.02
Polr3f	0.37	0610007C21Rik	0.07	Parp12	-0.49	Igkv3-3	-10.11
Atxn1	0.37	Wwox	0.07	Fancl	-0.49	Bdkrb1	-10.16
Znhit6	0.37	Leng9	0.07	Casp3	-0.49	Adam33	-10.18
Suclg1	0.37	4933421A08Rik	0.07	Lypd5	-0.49	Cxcl13	-10.19
Nit1	0.37	Klhl7	0.07	Twf2	-0.49	Svs3b	-10.20
Brix1	0.37	Mtf2	0.07	O3far1	-0.49	Cpa3	-10.23
Fitm2	0.37	Anp32a	0.07	Rfk	-0.49	Ighg3	-10.30
Zfp688	0.37	Drg1	0.07	Gprc5a	-0.49	Dmbt1	-10.32
Wnt5b	0.37	Mrps24	0.07	E230013L22Rik	-0.49	Chrdl1	-10.41
Tbrg1	0.37	Cyp2s1	0.07	Kif9	-0.49	Ighv14-3	-10.42
Ccdc115	0.37	Tmem161a	0.07	Efcab7	-0.49	Grem2	-10.43
Snrpa	0.37	Rab1b	0.07	3110062M04Rik	-0.49	Svs4	-10.46
Btf3	0.37	Slc2a9	0.07	Sgpp2	-0.49	Nfasc	-10.51
Zfp202	0.37	Rsrc1	0.07	Tmem203	-0.49	Prph	-10.52
BC029214	0.37	Nfe2l1	0.07	Elmod2	-0.49	Dpt	-10.64
Ficd	0.37	Casd1	0.07	Tln2	-0.49	Ndn	-10.64
Prkg2	0.37	Abcb7	0.07	Cept1	-0.49	Mfap4	-10.65
Acads	0.37	Dlat	0.07	Smarca2	-0.49	Svs5	-10.73
Ndufaf1	0.37	Akr1c13	0.07	Slc37a1	-0.49	Ighv1-54	-10.75
Rad50	0.37	Ctso	0.07	Slc39a1	-0.49	Ighv9-1	-10.78
Pgrmc1	0.37	Tmem127	0.07	Htr2b	-0.50	Olfr1033	-10.81
Tbcb	0.37	Psme2	0.07	Ak1	-0.50	Olfml1	-10.93
Ythdf2	0.37	9130011E15Rik	0.07	Casp8	-0.50	Ighv8-8	-11.30
Hnrnpab	0.37	Rpl3	0.07	Gxylt1	-0.50	Pate4	-11.45
Wrb	0.37	Ccnj	0.07	Foxc2	-0.50	Sfrp4	-11.48
Thrap3	0.37	Vti1b	0.07	Cryab	-0.50	Tspan11	-11.54
Gna11	0.37	Nrf1	0.07	Tcea2	-0.50	Chrdl2	-11.61
Lysmd3	0.37	2210013O21Rik	0.07	1110028C15Rik	-0.50	Ighg1	-11.64
Fxr1	0.37	Mob1a	0.07	Ldlr	-0.50	Elane	-11.85
5930434B04Rik	0.37	Zfp296	0.07	Aldh18a1	-0.50	Igkv9-124	-11.88
Aak1	0.37	Gatc	0.07	Tspan6	-0.50	Igkv4-53	-12.10
Pdss2	0.37	Xpo4	0.07	Khnyl	-0.50	Igkv4-63	-12.17
Magoh	0.37	Cog6	0.07	Fam78b	-0.50	Cfd	-12.26
Zfp84	0.37	Atg2a	0.07	Ctsa	-0.50	Cilp	-12.40
Sec31a	0.37	Trim65	0.07	Tpx2	-0.50	Igkv14-126	-12.41
Rpl27	0.37	Xpa	0.07	Chst14	-0.50	Svs3a	-12.68
Gm6104	0.37	5033414D02Rik	0.07	Grk6	-0.50	Ogn	-12.71
Nbr1	0.37	Taz	0.07	Zdhc23	-0.50	Igkv3-12	-12.74
Hnrnpm	0.37	Tmem223	0.07	Ell	-0.50	Cd163	-12.78
Mrpl44	0.37	Ubn1	0.07	Sorl1	-0.50	Epyc	-12.82
Tmem39b	0.37	Atf7	0.07	Maml2	-0.50	Folh1	-13.00

Gnl3	0.37	Zcrb1	0.07	lqgap1	-0.50	Scn7a	-13.60
Cox6a1	0.37	Rbm18	0.07	Kctd10	-0.50	Svs6	-13.66
2410002I01Rik	0.37	Zscan12	0.07	Dtx3l	-0.50		