



Supplemental Material to:

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Rap2b, a novel p53 target, regulates p53-mediated pro-survival function

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Rap2b, a novel p53 target, regulates p53-mediated pro-survival function

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Supplementary Figure and Table captions

Figure S1. Direct targets of p53 in MEF and mES cells. (A) Analyzing p53 direct targets in MEF and mES cells separately. (B) Table to summarize the p53-repressed and p53-activated genes in p53 direct targets from MEF, mES cells and both (Common).

Figure S2. Amino acid sequence alignment of Rap2b proteins from a variety of species.

Figure S3. Rap2b is induced by p53 in a wild range of mouse and human cells.

The protein levels of Rap2b, Cdkn1a and p53 induction were measured in NIH3T3 (A), MCF7 (B) and IMR90 (C) cells treated with adriamycin for various times as indicated. (D) H1299 cells inducibly expressing p53 were used to measure the induction of Rap2b, Cdkn1a and p53 after the addition of doxycycline.

Figure S4. Knockdown of Rap2b increases apoptosis and decreases G2 arrest in

HCT116 cells upon adriamycin treatment.

Quantified data of cell cycle and apoptosis analysis of HCT116, p53^{+/+} and p53^{-/-} cells with or without Rap2b knockdown

Left, analysis of sub-G1 phase (apoptotic cell population) in HCT116 cells with Rap2b knockdown upon Adr treatment. Right, analysis of G2 phase cell population in Rap2b knockdown HCT116 cells upon Adr treatment. Shown are mean \pm SEMs, n> or =3, **, p<0.01.

Figure S5. Over-expression of Rap2b does not significantly change cell cycle distribution of HCT116 cells in the absence and presence of adriamycin.

Shown are quantified data of cell cycle and apoptosis analysis of HCT116, p53^{+/+} and p53^{-/-} cells with or without Rap2b over-expression.

(A) Cell cycle distribution of p53^{+/+} HCT116 cells-Luc and with Rap2b over-expression untreated or treated with adriamycin for 0, 1, 2 and 3 days.

(B) Cell cycle distribution of p53^{-/-} HCT116 cells-Luc and with Rap2b over-expression untreated or treated with adriamycin for 0, 1, 2 and 3 days. Shown are mean \pm SEMs.

Figure S6. Rap2b is over-expressed in many types of tumors. Fold induction of Rap2b in a variety of tumors versus normal controls. Data was obtained from Oncomine. OE, overexpression; UE, under expression. Total number of datasets was listed below the heatmap.

Figure S7. Anchorage-independent colony formation assay to assess the transformation activity of H-Ras(V12) and Rap2b.

NIH3T3 cells were transduced with lentivirus expressing luciferase, H-Ras(V12) or mouse Rap2b. Formed colony numbers were calculated for various time as indicated.

Results are displayed as mean \pm SEM, n=4. * p<0.05; ** p<0.01.

Table S1. List of common genes whose expression is changed in a p53-dependent manner upon adriamycin treatment.

Table S2. List of MEF-specific genes whose expression is changed in a p53-dependent manner upon adriamycin treatment.

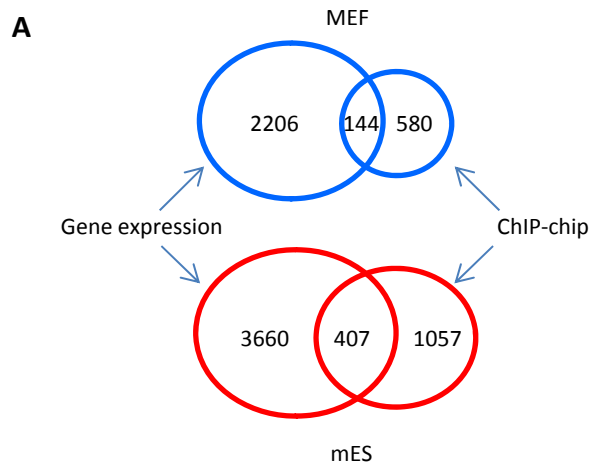
Table S3. List of mES-specific genes whose expression is changed in a p53-dependent manner upon adriamycin treatment.

Table S4. Lists of common, MEF-specific, and mES-specific p53 bound genes.

Table S5. Primers used in this study.

Supplementary Data statement

Supplementary Data are available at NAR Online: Supplementary Tables 1–4, Supplementary Figures 1–6.



B

	MEF	mES	Common
Total direct p53 targets	144	407	75
p53-activated genes	137	335	75
p53-repressed genes	7	72	0

Figure S1

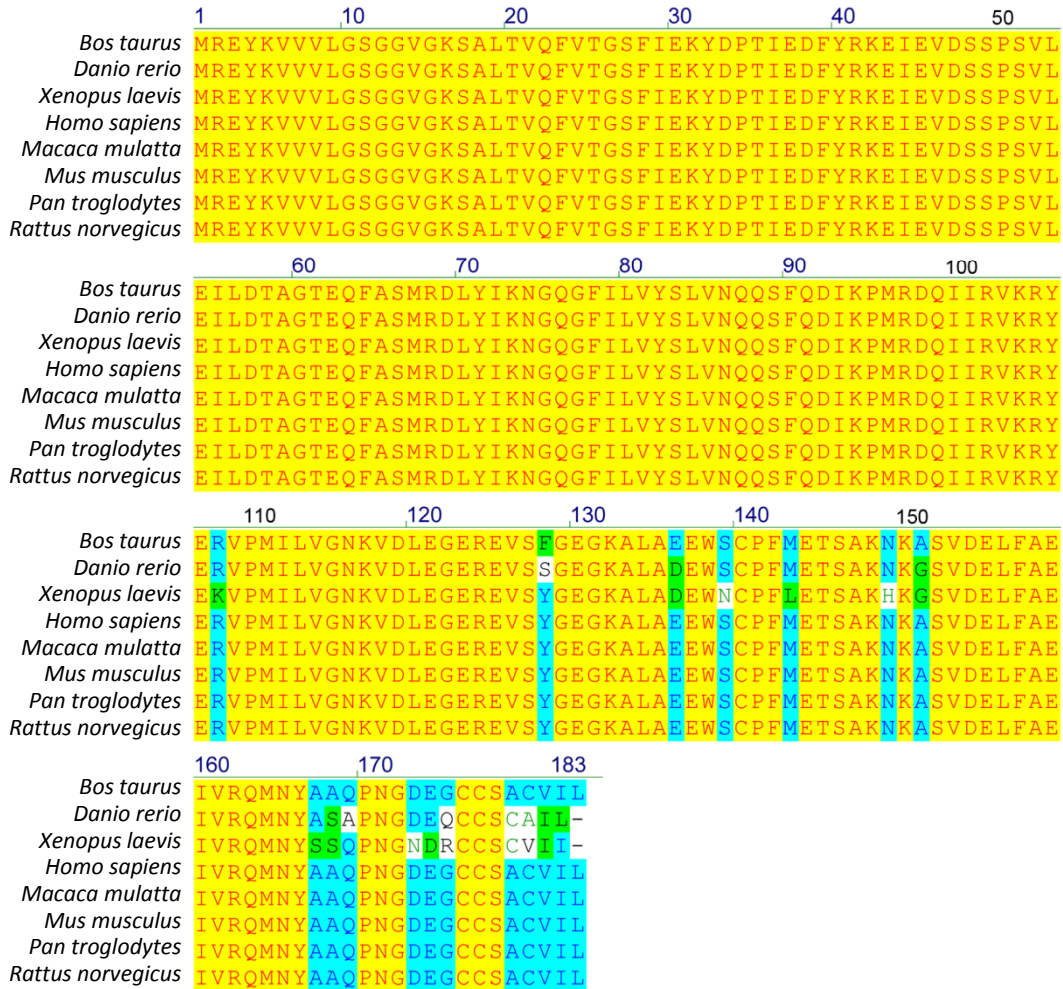


Figure S2

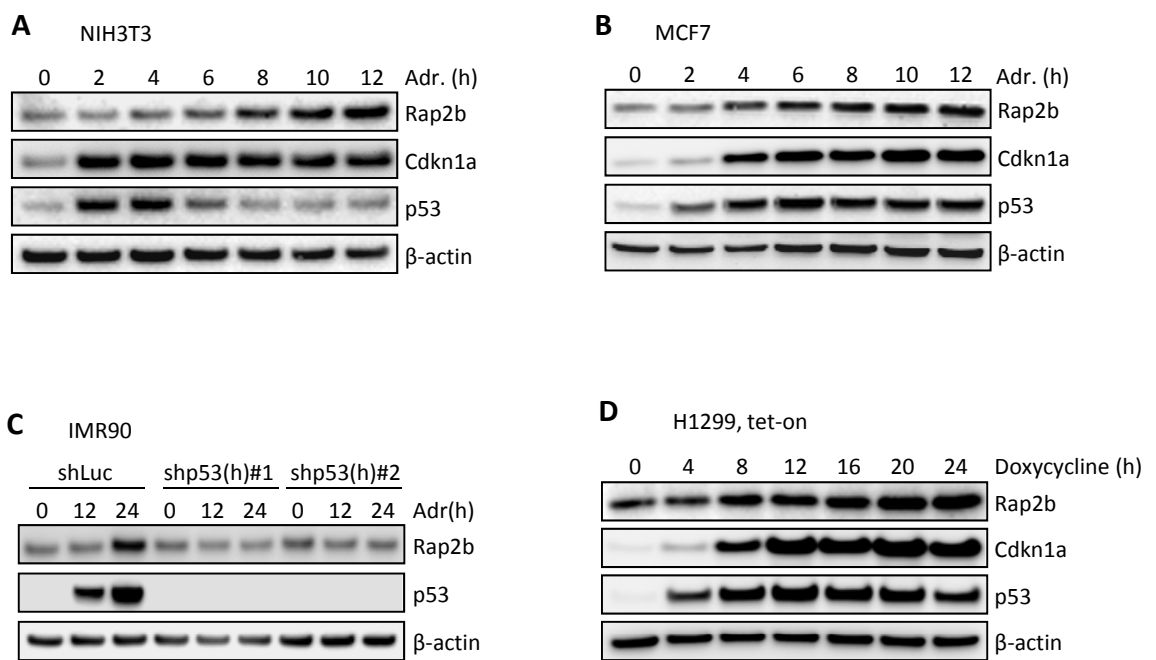


Figure S3

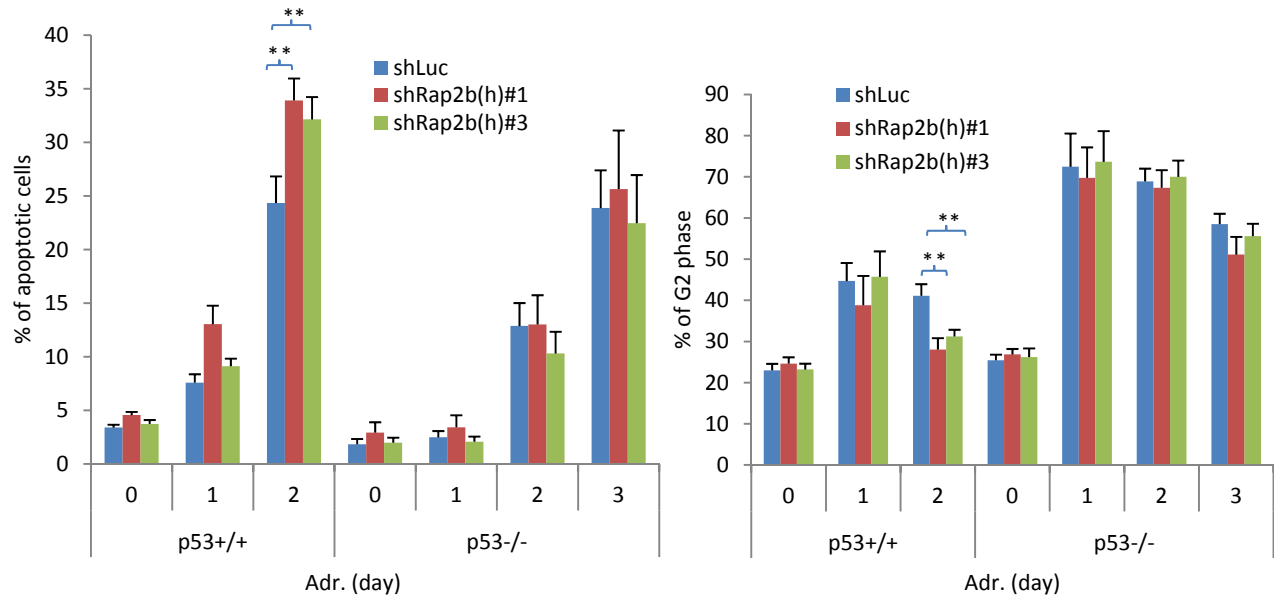


Figure S4

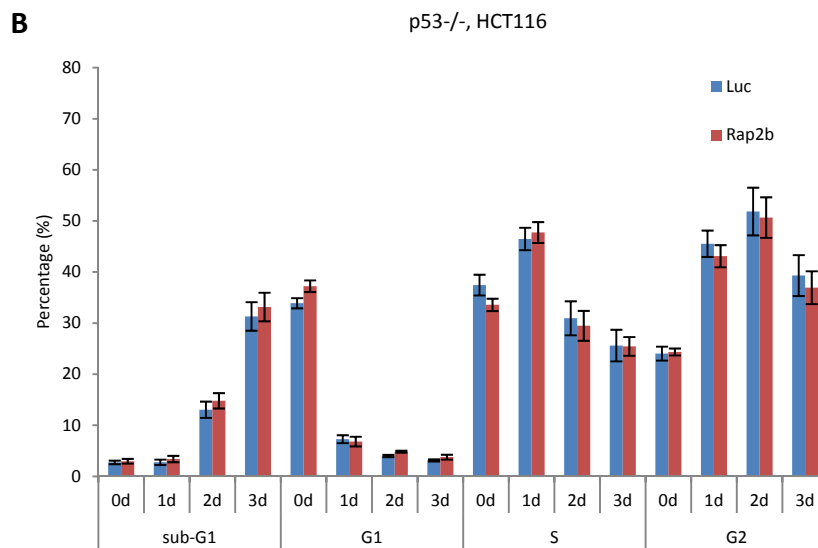
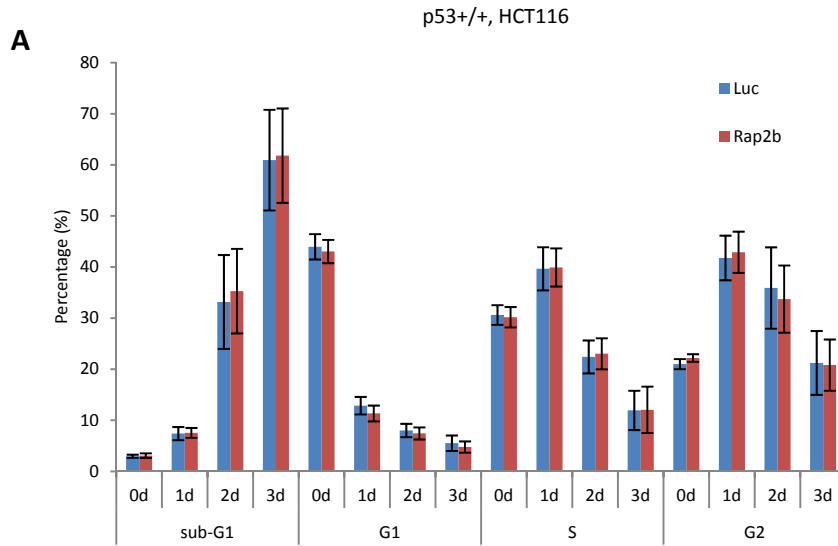


Figure S5

f.c.=1.5

P<0.001

	OE	UE
Bladder Cancer	2	
Brain and CNS Cancer	4	1
Breast Cancer	1	
Cervical Cancer	1	
Colorectal Cancer	1	4
Esophageal Cancer		
Gastric Cancer		
Head and Neck Cancer	1	
Kidney Cancer	9	
Leukemia		5
Liver Cancer	5	
Lung Cancer	1	
Lymphoma		
Melanoma	2	
Myeloma		
Other Cancer	8	
Ovarian Cancer		
Pancreatic Cancer	3	
Prostate Cancer		
Sarcoma	4	
Total analyses	40	10

Figure S6

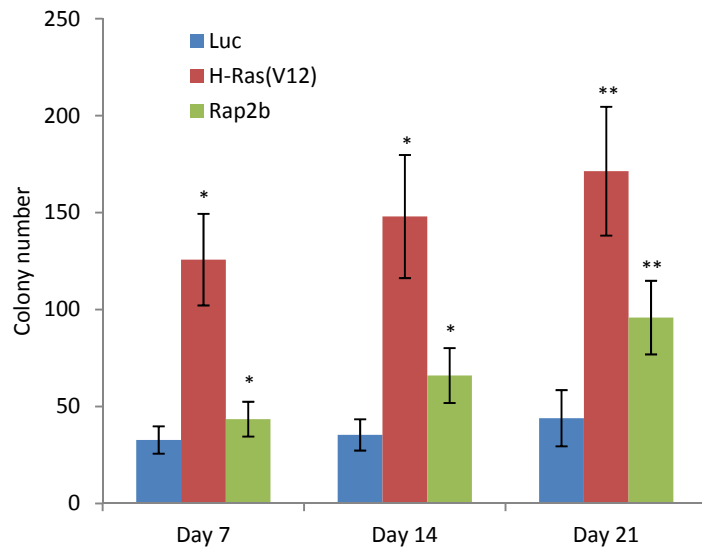


Figure S7

Supplementary Table 1

Gene Symbol	RefSeq	MEF			mES		
		p-value(p53wt, Adr vs. p53wt, Ctr)	Ratio(p53wt, Adr vs. p53wt, Ctr)	Fold-Change(p53wt, Adr vs. p53wt, Ctr)	p-value(p53wt, Adr vs. p53wt, Ctr)	Ratio(p53wt, Adr vs. p53wt, Ctr)	Fold-Change(p53wt, Adr vs. p53wt, Ctr)
Hyal1	NM_008317	3.39E-13	8.16606	8.16606	4.79E-09	21.3226	21.3226
Slc4a11	NM_001081162	1.78E-10	8.24673	8.24673	1.14E-10	19.6389	19.6389
1700007K13Rik	BC099566	1.18E-09	4.70858	4.70858	1.71E-10	17.8578	17.8578
Fas	NM_007987	7.18E-10	7.95768	7.95768	3.50E-08	12.2755	12.2755
Plek2	NM_013738	1.84E-08	5.92222	5.92222	8.64E-07	10.3995	10.3995
Prrg4	NM_178695	6.47E-10	2.5568	2.5568	5.75E-06	10.3925	10.3925
Tbc1d8	NM_018775	1.30E-10	5.10325	5.10325	1.37E-10	10.3915	10.3915
Fam196a	NM_001143802	2.72E-10	5.77295	5.77295	4.31E-11	10.1	10.1
Thap6	NR_028429	0.000111264	1.76164	1.76164	2.35E-09	9.5275	9.5275
Fam122b	NM_001166365	9.60E-09	2.80887	2.80887	3.53E-09	9.30824	9.30824
Alox5	NM_009662	5.77E-14	14.2813	14.2813	9.41E-08	8.97642	8.97642
Arap2	NM_178407	1.00E-08	5.00311	5.00311	9.31E-06	8.85238	8.85238
Kcnj4	NM_008427	1.68E-08	4.04626	4.04626	5.07E-08	8.85069	8.85069
St14	NM_011176	1.83E-07	2.35989	2.35989	4.20E-09	8.80943	8.80943
Tmc7	NM_172476	1.71E-11	4.20537	4.20537	2.94E-10	8.65319	8.65319
Lpin1	NM_015763	7.30E-10	2.91849	2.91849	2.86E-08	8.64492	8.64492
Notch3	NM_008716	5.25E-10	3.69949	3.69949	1.28E-08	8.17664	8.17664
Tap1	NM_013683	6.55E-11	10.3823	10.3823	8.41E-09	8.09922	8.09922
Ttll1	NM_178869	4.20E-10	5.50803	5.50803	2.50E-07	7.80379	7.80379
Nat6	NM_019750	2.13E-11	7.52109	7.52109	2.65E-09	7.44052	7.44052
Dgka	NM_016811	9.63E-08	2.25269	2.25269	4.82E-09	7.14783	7.14783
Acad11	NM_175324	1.47E-09	2.84699	2.84699	1.77E-07	6.95626	6.95626
Ddit4l	NM_030143	1.02E-09	5.71727	5.71727	3.92E-06	6.86801	6.86801
Celf5	NM_176954	9.86E-10	4.37769	4.37769	3.64E-08	6.7609	6.7609
Perp	NM_022032	7.18E-08	4.22707	4.22707	1.24E-06	6.70023	6.70023
Arhgap20	NM_175535	6.31E-10	4.16389	4.16389	2.15E-10	6.6181	6.6181
Prkaa2	NM_178143	6.70E-05	1.58943	1.58943	3.63E-10	6.56136	6.56136
Dcxr	NM_026428	9.39E-09	5.11243	5.11243	1.71E-08	6.5348	6.5348
Ano3	NM_001128103	4.42E-09	8.36893	8.36893	2.69E-05	6.39744	6.39744
Rb1	NM_009029	3.32E-08	4.10692	4.10692	8.69E-07	6.37104	6.37104
Pltp	NM_011125	6.57E-05	1.86555	1.86555	1.07E-06	6.22584	6.22584
Acer2	NM_139306	7.88E-10	2.74193	2.74193	1.31E-07	6.09969	6.09969
Ppp2r2c	NM_172994	8.22E-09	4.43422	4.43422	5.51E-09	6.00746	6.00746
Sncg	NM_011430	2.34E-09	2.86784	2.86784	1.51E-05	5.94123	5.94123
Iffo1	NM_178787	1.29E-07	3.4812	3.4812	5.40E-08	5.93086	5.93086
Mybl1	NM_008651	4.99E-06	2.05643	2.05643	2.68E-08	5.882	5.882
BC037703	NM_172295	3.93E-08	2.95006	2.95006	4.65E-07	5.74276	5.74276

1110012L19Rik	BC024574	3.33E-05	2.36373	2.36373	1.06E-06	5.56895	5.56895
Slc37a2	NM_001145960	5.04E-09	4.33536	4.33536	1.71E-08	5.46981	5.46981
Fah	NM_010176	1.06E-08	3.5219	3.5219	1.23E-07	5.46683	5.46683
Pm20d1	NM_178079	4.95E-12	8.66576	8.66576	2.64E-06	5.45763	5.45763
Grhl3	NM_001013756	0.000671514	1.32332	1.32332	3.49E-08	5.44296	5.44296
C230030N03Rik	AK082264	2.51E-11	7.67369	7.67369	3.30E-07	5.35483	5.35483
Angel1	NM_144524	2.16E-05	1.70969	1.70969	3.63E-09	5.3286	5.3286
Depdc7	NM_144804	1.44E-05	2.96161	2.96161	3.36E-06	5.20195	5.20195
Ptges	NM_022415	2.93E-06	1.81683	1.81683	4.70E-07	5.19707	5.19707
Spon2	NM_133903	2.48E-11	5.38393	5.38393	3.90E-05	5.1027	5.1027
Cyyr1	NM_144853	1.90E-12	9.16743	9.16743	9.81E-07	5.01943	5.01943
Dapk1	NM_029653	7.63E-08	2.11865	2.11865	2.72E-07	5.01472	5.01472
Ltb4r2	NM_020490	8.36E-10	7.72899	7.72899	3.78E-06	4.96515	4.96515
Ncoa1	NM_010881	4.65E-08	2.64069	2.64069	2.07E-08	4.86389	4.86389
Ctsf	NM_019861	4.52E-06	1.75193	1.75193	4.55E-07	4.79069	4.79069
Cd55	NM_010016	7.53E-09	2.91853	2.91853	4.89E-06	4.7804	4.7804
Tex15	NM_031374	1.36E-10	3.27137	3.27137	2.12E-07	4.77668	4.77668
Igsf9b	NM_001129787	1.94E-07	1.80593	1.80593	3.93E-06	4.76913	4.76913
Zfp296	NM_022409	8.59E-05	0.727836	-1.37394	7.09E-07	4.75684	4.75684
Acad8	NM_025862	5.39E-05	1.63098	1.63098	4.39E-09	4.75633	4.75633
Pak6	NM_001033254	3.95E-10	3.40275	3.40275	2.07E-08	4.74022	4.74022
Mkl1	NM_029005	3.81E-08	3.10026	3.10026	1.92E-06	4.72987	4.72987
Tmem19	NM_133683	1.73E-08	3.75227	3.75227	2.40E-07	4.71657	4.71657
Mpp7	NM_001081287	0.000292426	1.46317	1.46317	1.30E-05	4.67887	4.67887
Trim7	NM_053166	3.23E-09	3.65193	3.65193	9.97E-09	4.66585	4.66585
Cyfip2	NM_133769	4.73E-06	1.60058	1.60058	1.07E-06	4.63706	4.63706
Arhgef4	NM_183019	8.51E-12	3.83503	3.83503	2.00E-09	4.62283	4.62283
Ankk1	NM_172922	4.38E-08	2.51808	2.51808	2.35E-06	4.58754	4.58754
Itpkb	NM_001081175	5.82E-11	3.51399	3.51399	7.45E-10	4.57034	4.57034
Lrdd	NM_022654	2.38E-08	3.46825	3.46825	7.45E-08	4.51694	4.51694
Nlrc5	NM_001033207	8.06E-12	20.2209	20.2209	1.23E-05	4.51302	4.51302
Gm70	NM_001163103	7.22E-14	12.2199	12.2199	1.57E-06	4.51021	4.51021
Eda2r	NM_001161432	9.41E-07	2.00855	2.00855	1.26E-06	4.50975	4.50975
Ppp1r14a	NM_026731	1.00E-07	1.84466	1.84466	4.06E-07	4.49791	4.49791
Procr	NM_011171	2.43E-05	1.54524	1.54524	1.43E-07	4.4979	4.4979
Pmaip1	NM_021451	2.87E-10	2.52884	2.52884	0.000308528	4.47835	4.47835
Trp53inp1	NM_021897	9.41E-09	2.29195	2.29195	4.20E-05	4.45135	4.45135
Slc16a10	NM_001114332	1.48E-05	1.76326	1.76326	3.36E-08	4.42381	4.42381
Sh3yl1	NM_013709	6.51E-09	3.22322	3.22322	8.11E-07	4.41899	4.41899
Alox12	NM_007440	9.07E-06	1.97465	1.97465	1.75E-07	4.39377	4.39377
Trp53i11	NM_001025246	2.82E-05	2.04276	2.04276	3.59E-08	4.37311	4.37311
Dcaf4	NM_001165256	1.94E-08	2.07582	2.07582	8.39E-09	4.32716	4.32716
Btg2	NM_007570	5.54E-08	5.64883	5.64883	2.65E-05	4.2745	4.2745

Fgf18	NM_008005	2.33E-06	1.93975	1.93975	1.57E-08	4.258	4.258
Dram1	NM_027878	2.75E-05	1.71393	1.71393	5.31E-08	4.12857	4.12857
Phkg2	NM_026888	1.06E-06	2.00972	2.00972	3.91E-07	4.12245	4.12245
Aldh4a1	NM_175438	1.71E-08	3.11383	3.11383	7.34E-07	4.10703	4.10703
Apobec1	NM_031159	6.08E-08	1.98102	1.98102	6.23E-06	4.07979	4.07979
Cdc42bpg	NM_001033342	1.03E-09	3.95603	3.95603	4.54E-07	4.07505	4.07505
Ltb4r1	NM_008519	1.22E-08	6.99106	6.99106	1.95E-05	4.06831	4.06831
Cyp2u1	NM_027816	6.86E-07	2.44765	2.44765	1.67E-07	4.06043	4.06043
Fam46c	NM_001142952	1.65E-06	1.47496	1.47496	1.15E-07	3.94509	3.94509
Tbc1d2	NM_198664	9.16E-07	1.85229	1.85229	5.21E-07	3.94007	3.94007
Jag2	NM_010588	2.67E-10	4.20175	4.20175	1.45E-06	3.92616	3.92616
Mmp15	NM_008609	8.87E-09	2.7761	2.7761	2.44E-08	3.92612	3.92612
4930429B21Rik	NR_027966	2.82E-06	2.06605	2.06605	1.16E-05	3.92247	3.92247
Dffb	NM_007859	1.61E-11	3.9074	3.9074	5.19E-08	3.89442	3.89442
Def6	NM_027185	5.28E-09	2.41417	2.41417	1.71E-07	3.83331	3.83331
Cybasc3	NM_201351	2.17E-06	2.70621	2.70621	2.75E-09	3.82072	3.82072
Pqlc3	NM_172574	1.55E-06	2.06345	2.06345	6.75E-07	3.8186	3.8186
Cercam	NM_207298	2.09E-10	4.03305	4.03305	4.27E-06	3.80232	3.80232
Man1a	NM_008548	2.88E-06	2.14855	2.14855	2.26E-06	3.78921	3.78921
Wdr91	NM_001013366	3.89E-07	2.76037	2.76037	3.78E-08	3.76076	3.76076
G630090E17Rik	NM_001173500	8.69E-06	2.54859	2.54859	2.91E-08	3.68334	3.68334
Syt17	NM_138649	6.39E-09	3.28276	3.28276	1.06E-05	3.68098	3.68098
Ikbke	NM_019777	1.51E-10	2.64594	2.64594	1.54E-07	3.67833	3.67833
Fam83h	NM_134087	1.02E-07	2.66123	2.66123	8.12E-06	3.63712	3.63712
Tnfrsf18	NM_009400	1.28E-08	2.20332	2.20332	1.88E-05	3.62559	3.62559
BC031353	NM_001113283	6.28E-11	4.12929	4.12929	1.28E-05	3.61076	3.61076
Mapkbp1	NM_011941	2.14E-10	2.50844	2.50844	3.90E-07	3.59783	3.59783
Phf8	NM_001113354	3.46E-07	1.87312	1.87312	4.68E-09	3.59387	3.59387
Asap3	NM_001008232	3.52E-07	1.74917	1.74917	2.27E-08	3.56819	3.56819
Ehd4	NM_133838	1.44E-08	2.43536	2.43536	7.75E-08	3.51666	3.51666
Fbxl20	NM_028149	1.04E-06	2.21359	2.21359	3.33E-05	3.49043	3.49043
Abcg1	NM_009593	3.20E-07	2.23956	2.23956	9.77E-07	3.48395	3.48395
Mfsd7c	NM_145447	4.07E-09	5.30692	5.30692	1.24E-07	3.46418	3.46418
Trim11	NM_053168	3.37E-07	2.19565	2.19565	3.07E-08	3.45704	3.45704
Cited4	NM_019563	0.00019469	2.0507	2.0507	1.26E-07	3.442	3.442
Acox3	NM_030721	2.07E-08	1.97948	1.97948	3.65E-08	3.43463	3.43463
Cyp27a1	NM_024264	5.17E-09	4.20193	4.20193	2.22E-07	3.42178	3.42178
Rbl2	NM_011250	4.87E-10	3.86462	3.86462	1.72E-06	3.41772	3.41772
Prps2	NM_026662	1.45E-08	1.91744	1.91744	2.73E-08	3.41564	3.41564
Slc27a3	NM_011988	2.18E-07	2.65686	2.65686	8.15E-06	3.41352	3.41352
Sec14l5	NM_001127725	4.21E-12	7.44582	7.44582	2.72E-07	3.39446	3.39446
Ift27	NM_025931	6.48E-08	3.45699	3.45699	7.56E-08	3.36518	3.36518
Notch1	NM_008714	6.23E-06	2.39759	2.39759	8.41E-07	3.34634	3.34634

Pde5a	NM_153422	5.19E-06	2.21987	2.21987	4.37E-06	3.33317	3.33317
Tor3a	NM_023141	1.97E-06	0.570673	-1.75232	5.24E-07	3.32704	3.32704
Wnt9a	NM_139298	3.06E-08	2.74898	2.74898	3.92E-07	3.31924	3.31924
Zfp385a	NM_013866	7.55E-06	1.99898	1.99898	1.88E-08	3.31404	3.31404
Slc43a2	NM_173388	7.70E-07	1.64482	1.64482	6.95E-08	3.30889	3.30889
Mapkapk3	NM_178907	4.89E-07	1.90883	1.90883	7.67E-06	3.28709	3.28709
Ahnak2	BC138468	1.60E-09	4.93583	4.93583	0.000143034	3.28248	3.28248
Serpine2	NM_009255	5.07E-10	6.10421	6.10421	8.15E-06	3.27697	3.27697
Zfp365	NM_178679	2.11E-08	3.93057	3.93057	2.63E-07	3.24498	3.24498
Ppp1r3d	NM_001085501	9.40E-06	1.4965	1.4965	2.71E-07	3.22489	3.22489
Nfyb	NM_010914	0.000158601	1.31835	1.31835	2.32E-07	3.21726	3.21726
Trafd1	NM_001163470	8.43E-09	4.77397	4.77397	6.31E-07	3.21558	3.21558
Mdm2	NM_010786	1.94E-09	3.88597	3.88597	1.95E-06	3.21085	3.21085
Fam102a	NM_153560	0.000136103	1.59056	1.59056	2.98E-06	3.18992	3.18992
Nipal4	NM_172524	3.24E-10	6.15462	6.15462	2.04E-05	3.18063	3.18063
Zfp654	NM_028059	0.000123329	1.84618	1.84618	1.81E-07	3.16055	3.16055
Sytl1	NM_031393	7.36E-11	4.80341	4.80341	5.05E-07	3.15714	3.15714
Cpt1c	NM_153679	1.36E-08	3.05595	3.05595	2.18E-05	3.15666	3.15666
Tet1	NM_027384	5.58E-06	0.718405	-1.39197	1.48E-06	3.14334	3.14334
1700003E16Rik	NM_027948	1.93E-12	4.19004	4.19004	1.94E-05	3.13791	3.13791
8430427H17Rik	NM_001134300	0.000110404	1.23555	1.23555	5.76E-07	3.13763	3.13763
Ddr1	NM_007584	1.43E-08	3.4999	3.4999	5.01E-05	3.13231	3.13231
Adc	NM_172875	8.98E-09	3.8003	3.8003	3.44E-06	3.13052	3.13052
Limk2	NM_010718	2.08E-07	1.83729	1.83729	5.75E-09	3.12356	3.12356
Atp13a2	NM_029097	1.46E-08	2.78615	2.78615	6.55E-10	3.11829	3.11829
Tcirg1	NM_016921	1.46E-08	2.27042	2.27042	7.91E-09	3.10026	3.10026
Cdk18	NM_008795	2.99E-07	1.75245	1.75245	0.000207207	3.09742	3.09742
Crip2	NM_024223	2.75E-10	3.18345	3.18345	1.93E-05	3.08037	3.08037
Fbxw9	NM_026791	1.29E-07	2.32957	2.32957	3.03E-06	3.0749	3.0749
Gclc	NM_010295	2.26E-06	1.49093	1.49093	1.40E-06	3.07274	3.07274
Samd12	NM_177225	5.67E-07	2.22826	2.22826	6.02E-05	3.05995	3.05995
Ablim1	NM_178688	3.67E-09	3.29816	3.29816	6.89E-05	3.04381	3.04381
Ppp1r13l	NM_001010836	1.10E-10	4.15337	4.15337	9.13E-06	3.04086	3.04086
Erc5	NM_011729	2.59E-09	4.11555	4.11555	1.03E-05	3.03871	3.03871
Rbm38	NM_019547	1.21E-09	2.577	2.577	1.71E-08	3.03756	3.03756
Vps13c	NM_177184	6.27E-06	2.09889	2.09889	1.10E-06	3.03406	3.03406
Fuca1	NM_024243	1.64E-06	1.81405	1.81405	4.31E-08	3.02196	3.02196
Abcb1b	NM_011075	1.01E-08	4.07891	4.07891	1.60E-05	3.01257	3.01257
Abhd4	NM_134076	2.43E-08	2.92901	2.92901	3.34E-07	3.00859	3.00859
Dzip1	NM_025943	7.30E-10	2.5081	2.5081	1.32E-05	2.99308	2.99308
Scn1b	NM_011322	1.49E-08	2.91829	2.91829	2.09E-05	2.98926	2.98926
Plod2	NM_001142916	3.40E-07	2.06507	2.06507	9.41E-05	2.98249	2.98249
Ephx1	NM_010145	3.74E-11	6.16957	6.16957	3.29E-05	2.98041	2.98041

9230110C19Rik	BC115525	4.02E-05	2.2953	2.2953	4.44E-05	2.97658	2.97658
9030607L17Rik	NM_027829	4.33E-07	2.08228	2.08228	2.76E-06	2.96833	2.96833
Rhod	NM_007485	8.14E-08	2.84231	2.84231	2.33E-06	2.96127	2.96127
Ulk1	NM_009469	0.000311645	1.5221	1.5221	3.09E-06	2.95316	2.95316
Polk	NM_012048	6.94E-08	2.42784	2.42784	1.63E-05	2.94315	2.94315
Pla2g16	NM_139269	0.000798315	1.62307	1.62307	2.81E-07	2.92571	2.92571
Npr2	NM_173788	2.75E-12	4.31419	4.31419	3.41E-05	2.92464	2.92464
Sh3bgrl2	NM_172507	2.90E-08	2.38621	2.38621	1.61E-07	2.92356	2.92356
Rprm	NM_023396	1.64E-05	1.75298	1.75298	6.75E-08	2.90893	2.90893
Abcd4	NM_008992	2.79E-06	1.88031	1.88031	2.23E-09	2.90358	2.90358
Adrb2	NM_007420	4.88E-09	4.12082	4.12082	2.87E-06	2.90122	2.90122
Map3k6	NM_016693	1.17E-09	2.8069	2.8069	7.50E-07	2.89804	2.89804
Wdr35	NM_172470	8.33E-08	3.35904	3.35904	1.86E-05	2.8966	2.8966
Slc19a2	NM_054087	7.77E-10	2.62518	2.62518	1.13E-06	2.88947	2.88947
Ei24	NM_007915	5.74E-05	1.54583	1.54583	3.34E-06	2.87618	2.87618
Cdkn1a	NM_007669	3.93E-09	2.1714	2.1714	8.46E-05	2.87534	2.87534
Ecm1	NM_007899	1.13E-07	1.91162	1.91162	4.09E-07	2.86904	2.86904
Ldlrap1	NM_145554	3.57E-10	3.89922	3.89922	1.56E-06	2.85517	2.85517
Exoc7	NM_016857	3.89E-08	1.9045	1.9045	1.63E-07	2.85402	2.85402
Dnajc9	NM_134081	3.32E-07	2.4294	2.4294	6.31E-07	2.84516	2.84516
Mapre3	NM_133350	2.29E-09	4.58741	4.58741	1.22E-08	2.84381	2.84381
Fam159b	NM_029984	1.51E-06	2.48026	2.48026	6.99E-05	2.8394	2.8394
Hpcal1	NM_016677	2.10E-06	2.73362	2.73362	1.17E-06	2.82339	2.82339
Sgsm2	NM_197943	1.88E-10	3.73198	3.73198	5.63E-06	2.82047	2.82047
Stim1	NM_009287	3.23E-05	1.48433	1.48433	1.71E-09	2.81847	2.81847
Ppp2r5d	NM_009358	3.58E-08	2.03053	2.03053	3.99E-08	2.79731	2.79731
Pmm1	NM_013872	5.78E-10	2.00844	2.00844	6.41E-07	2.79549	2.79549
Efs	NM_010112	7.90E-07	1.76925	1.76925	3.83E-06	2.7927	2.7927
Carhsp1	NM_025821	1.02E-07	2.41972	2.41972	1.26E-10	2.79234	2.79234
Ccbl1	NM_172404	0.000125777	1.38017	1.38017	4.56E-06	2.75699	2.75699
Tctn1	NM_001039153	7.02E-07	2.42538	2.42538	2.32E-06	2.7389	2.7389
Mapk9	NM_001163672	0.000463365	1.69191	1.69191	8.38E-07	2.73868	2.73868
AW555464	NM_001024602	4.10E-12	4.10799	4.10799	1.58E-05	2.73444	2.73444
Stard5	NM_023377	1.51E-07	2.74784	2.74784	1.28E-06	2.73157	2.73157
Rnf181	NM_025607	4.54E-06	1.46437	1.46437	1.45E-09	2.72582	2.72582
3-三月	NM_177115	3.04E-08	1.69737	1.69737	9.26E-07	2.72239	2.72239
Ptp4a3	NM_008975	5.79E-09	3.19577	3.19577	2.02E-07	2.71711	2.71711
Epha2	NM_010139	0.000757829	1.60158	1.60158	4.48E-05	2.6921	2.6921
D16H22S680E	NM_138583	1.28E-07	2.26029	2.26029	3.70E-06	2.69029	2.69029
Kif21a	NM_001109040	6.90E-09	2.49995	2.49995	1.07E-05	2.68098	2.68098
6530418L21Rik	NM_175398	2.62E-08	2.43923	2.43923	2.34E-05	2.67262	2.67262
Ninj1	NM_013610	3.60E-08	2.79075	2.79075	5.31E-08	2.67025	2.67025
Ampd2	NM_028779	9.69E-08	2.53934	2.53934	3.31E-08	2.66795	2.66795

Sulf2	NM_028072	7.69E-05	1.38979	1.38979	0.000536283	2.66167	2.66167
Lrrc3	NM_145152	1.76E-07	2.31259	2.31259	1.09E-06	2.6474	2.6474
Qpctl	NM_026111	3.39E-07	2.10768	2.10768	3.64E-07	2.6415	2.6415
Ndrp4	NM_145602	0.000190863	1.33903	1.33903	6.88E-06	2.62937	2.62937
Slc31a2	NM_025286	0.000868432	1.55544	1.55544	1.41E-05	2.61833	2.61833
Pcx	NM_001162946	1.72E-07	2.19355	2.19355	2.25E-05	2.6141	2.6141
Cox6b2	NM_183405	0.000218037	1.74961	1.74961	6.99E-06	2.60601	2.60601
Tnfrsf10b	NM_020275	5.91E-08	1.83455	1.83455	5.43E-05	2.59998	2.59998
A130022J15Rik	BC048939	4.85E-08	3.52587	3.52587	1.47E-06	2.58541	2.58541
Upp1	NM_009477	6.10E-07	0.524754	-1.90566	5.03E-06	2.58374	2.58374
Tnfrsf21	NM_178589	2.01E-06	0.635403	-1.5738	4.33E-05	2.58274	2.58274
Ptpn3	NM_011207	0.000804935	1.20657	1.20657	1.04E-05	2.58196	2.58196
Lrrc57	NM_001159612	8.52E-06	2.64702	2.64702	1.58E-06	2.57695	2.57695
Klhl26	NM_178771	1.11E-09	4.93075	4.93075	7.18E-07	2.57572	2.57572
Rbm43	NM_001141981	1.38E-07	2.04637	2.04637	4.36E-08	2.57568	2.57568
Kank3	NM_030697	1.67E-08	1.66623	1.66623	2.00E-07	2.5699	2.5699
Tgoln1	NM_009443	1.77E-05	1.31326	1.31326	3.20E-07	2.55766	2.55766
Gcdh	NM_008097	0.000565957	1.46143	1.46143	2.94E-06	2.55489	2.55489
Dixdc1	NM_178118	3.55E-05	1.5039	1.5039	1.79E-05	2.55379	2.55379
Rap2b	NM_028712	2.60E-08	3.81949	3.81949	5.66E-06	2.54986	2.54986
Fbxw7	NM_001177773	4.17E-08	1.94207	1.94207	2.84E-06	2.54968	2.54968
Zfp248	NM_028335	6.80E-09	3.04982	3.04982	1.11E-06	2.54916	2.54916
Slc41a1	NM_173865	7.72E-06	0.592636	-1.68738	2.66E-06	2.54488	2.54488
Mkx	NM_177595	1.75E-06	2.48973	2.48973	0.000101921	2.54045	2.54045
Fos	NM_010234	2.87E-06	2.12316	2.12316	2.04E-05	2.53777	2.53777
Ntn1	NM_008744	9.09E-07	0.581463	-1.7198	1.87E-06	2.53734	2.53734
Gpr135	NM_181752	0.000284811	1.40412	1.40412	9.66E-07	2.53074	2.53074
Slc43a3	NM_021398	1.07E-05	2.18237	2.18237	2.93E-06	2.52826	2.52826
Mobkl1a	NM_026735	3.44E-06	1.44491	1.44491	1.10E-05	2.52633	2.52633
Ptprv	NM_007955	3.78E-13	5.43871	5.43871	0.000139132	2.5263	2.5263
Srr	NM_013761	6.83E-06	2.0173	2.0173	4.49E-05	2.52315	2.52315
Foxo3	ENSMUST00000105502	3.47E-06	1.88774	1.88774	2.99E-06	2.51712	2.51712
Fam102b	NM_001163567	3.85E-06	1.46882	1.46882	1.89E-06	2.51496	2.51496
Lnpep	NM_172827	0.000107653	1.78684	1.78684	9.35E-06	2.50485	2.50485
Sesn2	NM_144907	6.06E-05	1.8948	1.8948	0.00062784	2.50174	2.50174
Fam53b	NM_175268	1.39E-05	1.94299	1.94299	7.92E-07	2.50098	2.50098
Slc2a9	NM_001102414	1.05E-07	1.88454	1.88454	6.19E-06	2.49323	2.49323
Apaf1	NM_001042558	4.70E-11	4.64064	4.64064	6.05E-08	2.49152	2.49152
Hmgcl1	NM_173731	2.46E-09	4.20162	4.20162	0.000214865	2.49108	2.49108
Exoc3l2	ENSMUST00000011407	1.61E-09	4.86681	4.86681	3.73E-06	2.48916	2.48916
Dusp15	NM_001159376	1.22E-07	3.03348	3.03348	5.09E-06	2.48913	2.48913
Ckap2	NM_001004140	1.04E-06	2.04149	2.04149	1.22E-07	2.48709	2.48709
Yipf3	NM_145353	6.29E-08	2.42355	2.42355	5.75E-07	2.47247	2.47247

Fam43a	NM_177632	4.82E-06	1.63106	1.63106	0.000117749	2.46015	2.46015
Scn3b	NM_178227	4.97E-13	6.68596	6.68596	1.97E-05	2.45734	2.45734
Ptpn14	NM_008976	1.38E-09	4.17563	4.17563	0.000142212	2.44878	2.44878
Prkcd	NM_011103	1.71E-07	2.73441	2.73441	2.16E-05	2.44824	2.44824
Zfp287	NM_133208	2.23E-08	2.43857	2.43857	1.78E-05	2.44624	2.44624
Slc35d1	NM_177732	2.11E-07	3.1399	3.1399	1.37E-06	2.44198	2.44198
Rin2	NM_028724	1.95E-05	1.64205	1.64205	3.96E-05	2.43865	2.43865
Eng	NM_001146350	2.13E-10	3.58438	3.58438	9.28E-05	2.43471	2.43471
Lactb	NM_030717	2.70E-07	2.60837	2.60837	1.24E-07	2.4135	2.4135
Cd80	NM_009855	1.37E-08	3.24249	3.24249	0.000154361	2.41135	2.41135
Rgs3	NM_134257	2.48E-07	2.15831	2.15831	4.38E-08	2.40871	2.40871
Tmbim1	NM_027154	1.32E-06	3.22946	3.22946	2.69E-05	2.40738	2.40738
Flcn	NM_146018	1.39E-09	2.81713	2.81713	2.98E-05	2.40164	2.40164
Kcna6	NM_013568	7.34E-06	1.79497	1.79497	0.000136998	2.40153	2.40153
Itpr2	NM_019923	0.000114055	1.24307	1.24307	2.57E-06	2.40084	2.40084
Pgm2l1	NM_027629	5.29E-05	1.53885	1.53885	1.12E-05	2.39725	2.39725
Adrb3	NM_013462	2.18E-06	1.86845	1.86845	1.45E-06	2.39705	2.39705
Tmtc3	NM_001033332	1.34E-09	3.09736	3.09736	7.05E-08	2.37772	2.37772
Agbl2	NM_178755	2.94E-09	2.15409	2.15409	3.60E-09	2.37651	2.37651
Ppm1d	NM_016910	5.99E-07	2.34556	2.34556	1.71E-09	2.37202	2.37202
Ikkip	NM_026166	2.38E-06	2.58004	2.58004	1.85E-07	2.37059	2.37059
Cmtm5	NM_026066	1.84E-08	2.65573	2.65573	1.29E-06	2.36901	2.36901
Man2b1	NM_010764	7.18E-10	6.65999	6.65999	5.15E-06	2.36517	2.36517
Zfp750	NM_178763	1.24E-08	8.1009	8.1009	0.000409549	2.35383	2.35383
Sarm1	NM_001168521	3.32E-09	3.12936	3.12936	1.16E-05	2.34728	2.34728
Pard6g	NM_053117	1.37E-07	2.39144	2.39144	5.48E-05	2.34316	2.34316
Slc2a8	NM_019488	0.000462352	1.30615	1.30615	1.17E-06	2.33882	2.33882
6330439K17Rik	NM_172859	5.03E-07	1.96921	1.96921	1.40E-07	2.33726	2.33726
Fam83d	BC068129	9.60E-09	2.18455	2.18455	3.18E-07	2.33486	2.33486
Klhdc5	NM_001081237	4.80E-08	3.04388	3.04388	1.28E-06	2.33328	2.33328
Mxd1	NM_010751	8.85E-06	1.64776	1.64776	2.02E-06	2.32931	2.32931
Fzd10	NM_175284	0.000138497	1.47991	1.47991	0.000563861	2.32685	2.32685
Slc33a1	NM_015728	1.73E-08	3.26852	3.26852	2.87E-08	2.32476	2.32476
Arhgap27	NM_133715	6.44E-05	1.40023	1.40023	1.11E-07	2.32227	2.32227
Dock9	NM_001081039	0.00012438	1.51731	1.51731	1.70E-05	2.32028	2.32028
Cyp4f16	NM_024442	5.06E-06	1.98251	1.98251	4.21E-06	2.31198	2.31198
Sult4a1	NM_013873	0.000256015	1.5447	1.5447	5.67E-05	2.31175	2.31175
Tchp	NM_029992	6.77E-09	2.13555	2.13555	5.01E-08	2.31069	2.31069
Hsd17b11	NM_053262	6.82E-05	0.562689	-1.77718	1.34E-06	2.31043	2.31043
Cars2	NM_024248	0.000257991	1.5286	1.5286	1.19E-05	2.30672	2.30672
Serinc5	NM_172588	1.58E-06	1.77721	1.77721	2.27E-05	2.30606	2.30606
Scube3	NM_001004366	0.00012813	1.47553	1.47553	5.31E-05	2.29556	2.29556
Aaas	NM_153416	3.88E-07	1.76121	1.76121	7.52E-07	2.2939	2.2939

Sntb2	NM_009229	2.77E-06	1.79276	1.79276	3.37E-07	2.28992	2.28992
Slc26a2	NM_007885	6.99E-08	2.18211	2.18211	5.03E-06	2.2894	2.2894
Ptprj	NM_008982	5.28E-07	2.45952	2.45952	0.000374772	2.28351	2.28351
Mcee	NM_028626	8.23E-05	1.68826	1.68826	2.15E-08	2.26828	2.26828
D430042O09Rik	BC158019	1.03E-06	1.56614	1.56614	9.59E-07	2.26508	2.26508
Sfn	NM_018754	0.000248278	2.09216	2.09216	0.00043991	2.25811	2.25811
Ufsp1	NM_027356	2.86E-06	1.70714	1.70714	2.87E-06	2.25796	2.25796
Cby1	NM_028634	2.01E-08	2.25577	2.25577	2.16E-06	2.25605	2.25605
Phf20l1	NM_001081409	7.75E-06	2.50417	2.50417	1.32E-07	2.25313	2.25313
Al504432	NR_033498	1.13E-09	2.79457	2.79457	6.06E-06	2.25205	2.25205
Tmem41a	NM_025693	3.90E-07	1.5528	1.5528	7.88E-08	2.25128	2.25128
Gltf	NM_019821	6.54E-06	1.90932	1.90932	2.23E-07	2.24741	2.24741
Adcy2	NM_153534	1.36E-09	3.51797	3.51797	1.39E-06	2.24625	2.24625
Bloc1s2	NM_028607	1.13E-06	2.8979	2.8979	1.13E-06	2.24401	2.24401
Col18a1	NM_009929	0.000268988	1.29609	1.29609	2.30E-05	2.24337	2.24337
Wrap53	NM_144824	1.26E-07	2.51164	2.51164	4.83E-06	2.24217	2.24217
Cyp4f39	NM_177307	6.98E-12	7.55634	7.55634	0.000223362	2.2419	2.2419
Rgnf	NM_012026	5.80E-08	2.02156	2.02156	2.23E-06	2.23894	2.23894
Cenpt	NM_177150	4.66E-06	1.90147	1.90147	1.37E-05	2.23694	2.23694
Kif17	NM_010623	3.64E-09	3.0303	3.0303	2.47E-06	2.23527	2.23527
Pde10a	NM_011866	2.41E-05	1.48105	1.48105	5.43E-06	2.23466	2.23466
Nkx2-9	NM_008701	3.07E-07	3.80419	3.80419	0.000167525	2.23162	2.23162
Plau	NM_008873	3.24E-07	2.20305	2.20305	0.000450561	2.23141	2.23141
Zim1	NM_011769	1.26E-08	2.61959	2.61959	0.000204798	2.23078	2.23078
Hspa1a	NM_010479	9.49E-08	2.00609	2.00609	1.87E-05	2.22583	2.22583
Panx1	NM_019482	3.79E-09	2.4691	2.4691	7.74E-05	2.2181	2.2181
Klhdc7a	NM_173427	0.00029418	1.66168	1.66168	0.00015499	2.21788	2.21788
Dgkq	NM_199011	2.55E-08	2.38662	2.38662	2.58E-05	2.21633	2.21633
Rgs12	NM_173402	1.45E-07	2.32083	2.32083	1.35E-05	2.2141	2.2141
Pvrl1	NM_021424	0.000448373	1.36128	1.36128	1.11E-05	2.21169	2.21169
Tmem63b	NM_198167	1.89E-08	2.15388	2.15388	0.000101859	2.20862	2.20862
4931408A02Rik	AF358257	6.74E-05	2.59085	2.59085	1.58E-07	2.202	2.202
Ccdc90a	NM_001081059	0.000483283	1.3294	1.3294	1.65E-06	2.19892	2.19892
Dalrd3	NM_026378	8.98E-07	1.70181	1.70181	1.23E-05	2.19834	2.19834
Lzic	NM_026963	8.78E-06	2.50961	2.50961	7.12E-07	2.19609	2.19609
Tmem154	NM_177260	0.000321668	0.837203	-1.19445	1.40E-05	2.1954	2.1954
Pomt2	NM_153415	2.41E-09	2.17353	2.17353	3.05E-07	2.19351	2.19351
Zfp125	ENSMUST00000079237	0.000320066	1.66081	1.66081	0.000143022	2.19051	2.19051
Arrdc1	NM_001162485	1.37E-07	1.85035	1.85035	3.25E-06	2.18738	2.18738
Pstpip1	NM_011193	3.24E-08	2.26119	2.26119	2.07E-05	2.18571	2.18571
Duox1	NM_001099297	2.98E-08	2.8712	2.8712	0.00013876	2.1856	2.1856
Siva1	NM_013929	0.000216128	1.83216	1.83216	4.78E-07	2.18423	2.18423
Kbtbd11	NM_029116	5.79E-06	2.09031	2.09031	1.04E-05	2.18375	2.18375

Pid1	NM_001003948	1.49E-07	2.34857	2.34857	6.31E-06	2.1654	2.1654
Elovl2	NM_019423	4.85E-10	5.03663	5.03663	0.000401362	2.16492	2.16492
Rab40c	NM_139154	7.42E-08	1.67107	1.67107	1.51E-07	2.16039	2.16039
Ssbp2	NM_024272	0.000319132	1.22662	1.22662	2.78E-06	2.15685	2.15685
Ank3	NM_146005	8.98E-08	1.72694	1.72694	5.97E-07	2.15393	2.15393
Agxt2l2	NM_028398	7.20E-09	1.87433	1.87433	2.00E-05	2.14933	2.14933
Sh2b3	NM_008507	0.000747	1.46654	1.46654	3.83E-05	2.1461	2.1461
Gtf3c1	NM_207239	9.74E-08	2.7094	2.7094	2.67E-06	2.14445	2.14445
Gm9983	ENSMUST00000069594	5.87E-05	1.83397	1.83397	2.67E-07	2.14088	2.14088
Stk36	NM_175031	8.26E-06	1.94286	1.94286	1.97E-05	2.13659	2.13659
Atox1	NM_009720	6.82E-05	1.71939	1.71939	2.79E-08	2.13283	2.13283
Pros1	NM_011173	5.96E-10	2.69509	2.69509	0.000634762	2.13148	2.13148
C030046E11Rik	NM_001081319	5.66E-08	1.6745	1.6745	0.000114477	2.12818	2.12818
Dopey1	NM_177208	2.08E-05	1.84618	1.84618	1.20E-06	2.12151	2.12151
Gm9282	XR_033945	1.27E-05	1.43125	1.43125	8.98E-07	2.1208	2.1208
Laptm4b	NM_033521	4.46E-06	1.43735	1.43735	2.73E-06	2.12069	2.12069
Wdr8	NM_021499	7.74E-08	2.02576	2.02576	1.01E-08	2.11834	2.11834
Sepx1	NM_013759	2.52E-06	2.14242	2.14242	5.49E-05	2.11232	2.11232
Cpne2	NM_153507	9.49E-11	4.96075	4.96075	1.66E-05	2.11077	2.11077
Cltb	NM_028870	4.54E-06	1.83147	1.83147	2.16E-06	2.10404	2.10404
Zfp874	NM_177712	0.000542241	1.26436	1.26436	1.13E-07	2.0929	2.0929
Ktelc1	NM_172380	0.000243232	1.19278	1.19278	3.83E-06	2.09232	2.09232
Bsc12	NM_008144	1.83E-06	2.39681	2.39681	2.50E-05	2.09048	2.09048
Serinc3	NM_012032	1.23E-07	1.71491	1.71491	9.77E-07	2.08385	2.08385
4933432B09Rik	NM_029407	1.11E-08	2.22663	2.22663	3.49E-06	2.08296	2.08296
Map3k8	NM_007746	1.17E-05	1.7987	1.7987	4.30E-05	2.08119	2.08119
Adamts7	NM_001003911	2.89E-09	4.09092	4.09092	3.01E-05	2.07738	2.07738
Pitpnm1	NM_008851	5.99E-06	2.03907	2.03907	0.000132702	2.07615	2.07615
Ptplb	NM_023587	4.86E-05	1.83987	1.83987	1.79E-06	2.06798	2.06798
Shisa4	NM_175259	2.27E-12	4.76714	4.76714	5.27E-06	2.06468	2.06468
Myo6	NM_001039546	0.000500701	1.51261	1.51261	3.90E-05	2.06089	2.06089
Coro2a	NM_178893	1.87E-09	3.85259	3.85259	2.31E-06	2.06011	2.06011
Rpusd2	NM_173450	0.000182606	1.64473	1.64473	4.40E-05	2.05283	2.05283
Mertk	NM_008587	7.48E-07	1.93517	1.93517	4.99E-05	2.04586	2.04586
Pdgfa	NM_008808	3.49E-05	1.46892	1.46892	3.37E-05	2.03853	2.03853
Trerf1	NM_001097623	5.47E-05	1.63426	1.63426	2.73E-06	2.03047	2.03047
Gtse1	NM_013882	4.67E-07	1.62187	1.62187	8.16E-05	2.02932	2.02932
Dagla	NM_198114	1.62E-09	2.25663	2.25663	3.11E-06	2.02513	2.02513
Adamtsl4	NM_144899	3.19E-08	1.79762	1.79762	5.37E-05	2.0245	2.0245
Fam160a2	NM_199009	3.54E-07	1.56262	1.56262	4.81E-09	2.02114	2.02114
Gpn3	NM_024216	2.25E-06	2.47137	2.47137	0.000106346	2.0198	2.0198
Acad9	NM_172678	2.84E-08	1.97868	1.97868	9.30E-08	2.01565	2.01565
Ttll9	NM_001083618	2.18E-09	3.18197	3.18197	2.40E-05	2.01189	2.01189

Mxra7	NM_026280	4.02E-09	2.4907	2.4907	1.08E-05	2.00834	2.00834
Pdcd11	NM_011053	7.90E-07	0.73629	-1.35816	0.000427534	2.00487	2.00487
Klhl22	NM_145479	3.99E-09	2.39158	2.39158	3.27E-08	2.0017	2.0017
Tpp1	NM_009906	1.97E-06	1.74362	1.74362	3.64E-05	1.99889	1.99889
Abcd1	NM_007435	0.000157966	1.30062	1.30062	1.51E-05	1.99086	1.99086
Fdxr	NM_007997	8.98E-05	1.74161	1.74161	7.84E-06	1.99046	1.99046
Kctd1	NM_134112	2.11E-08	1.82607	1.82607	0.000171047	1.98819	1.98819
Lancl1	NM_021295	1.18E-06	2.11738	2.11738	7.57E-06	1.9881	1.9881
Psrc1	NM_019976	4.08E-08	1.84716	1.84716	0.0005001	1.98542	1.98542
Scap	NM_001001144	1.84E-13	2.87176	2.87176	4.42E-08	1.98357	1.98357
Pnp2	NM_001123371	6.64E-05	0.667513	-1.4981	1.33E-07	1.98102	1.98102
Dnajb5	NM_019874	2.09E-05	1.78746	1.78746	0.000171014	1.98049	1.98049
Chst14	NM_028117	6.18E-06	2.27756	2.27756	6.43E-05	1.98012	1.98012
Aldh1a3	NM_053080	5.69E-06	1.45205	1.45205	0.00088886	1.97981	1.97981
Tmem64	NM_181401	0.00027535	0.62524	-1.59939	4.84E-07	1.97869	1.97869
Steap3	NM_001085409	1.07E-05	1.67759	1.67759	0.000234471	1.97859	1.97859
Mettl6	NM_025907	1.35E-07	2.77845	2.77845	2.20E-05	1.97824	1.97824
Pnp	NM_013632	8.33E-05	0.664849	-1.5041	4.19E-06	1.97478	1.97478
Arhgef33	NM_001145452	1.17E-12	7.49483	7.49483	0.000280202	1.97334	1.97334
Cacna1a	NM_007578	5.14E-08	1.67112	1.67112	2.58E-07	1.97228	1.97228
Tmeff2	NM_019790	4.00E-06	1.57849	1.57849	3.24E-07	1.97161	1.97161
Tef	NM_153484	1.22E-09	2.76914	2.76914	0.000134219	1.97059	1.97059
Mgst2	NM_174995	3.17E-08	2.94867	2.94867	0.000959867	1.96986	1.96986
Agtppbp1	NM_023328	0.000163767	1.49749	1.49749	6.72E-05	1.96298	1.96298
BC022687	BC090976	1.00E-05	1.39513	1.39513	8.18E-06	1.96238	1.96238
Il6ra	NM_010559	4.20E-05	1.62123	1.62123	2.00E-06	1.95954	1.95954
Zfp398	NM_027477	9.16E-05	1.3794	1.3794	1.17E-07	1.95479	1.95479
Pcyox1	NM_025823	2.91E-07	2.291	2.291	4.05E-07	1.94995	1.94995
Zcchc6	NM_153538	0.000134435	1.70475	1.70475	9.39E-05	1.94763	1.94763
Slc38a3	NM_023805	1.01E-09	3.82181	3.82181	0.000352333	1.9444	1.9444
Abcb1a	NM_011076	0.00057819	1.49296	1.49296	0.000988251	1.93753	1.93753
Sec22c	NM_178677	2.53E-07	2.08447	2.08447	8.29E-05	1.93548	1.93548
Eif4e3	NM_025829	4.87E-06	1.85118	1.85118	4.05E-05	1.93272	1.93272
Brap	NM_028227	4.30E-08	1.9407	1.9407	1.38E-05	1.92757	1.92757
Sidt2	NM_172257	1.89E-09	2.95355	2.95355	2.17E-05	1.91868	1.91868
Casp3	NM_009810	6.69E-06	1.56933	1.56933	7.81E-06	1.91824	1.91824
Slc25a42	NM_001007570	2.44E-08	2.45232	2.45232	1.09E-07	1.91482	1.91482
Mrs2	NM_001013389	4.61E-05	1.594	1.594	1.04E-07	1.91276	1.91276
Vcan	NM_001081249	6.70E-06	2.63445	2.63445	0.000219214	1.90803	1.90803
Btbd19	NR_024078	8.16E-09	2.6852	2.6852	0.000391714	1.90605	1.90605
St3gal4	NM_009178	9.30E-05	1.61083	1.61083	2.92E-06	1.90502	1.90502
lppk	NM_199056	7.58E-10	1.93725	1.93725	3.02E-06	1.90113	1.90113
Zfp251	NM_001007568	2.98E-05	1.53339	1.53339	7.14E-06	1.898	1.898

Pxn	NM_011223	0.000685668	1.29714	1.29714	8.69E-06	1.89249	1.89249
Gss	NM_008180	3.46E-05	1.47046	1.47046	8.60E-06	1.88908	1.88908
Homer3	NM_001146153	6.98E-10	1.8288	1.8288	2.83E-05	1.88544	1.88544
Pink1	NM_026880	4.71E-05	1.51327	1.51327	1.66E-05	1.88027	1.88027
Cep250	NM_008383	1.33E-05	1.51264	1.51264	1.12E-05	1.87708	1.87708
Mxd4	NM_010753	3.30E-07	1.97635	1.97635	0.000177776	1.87675	1.87675
4632434I11Rik	NM_001080995	2.25E-06	1.85116	1.85116	0.000458075	1.8732	1.8732
Gria3	NM_016886	3.68E-06	2.11298	2.11298	0.000924277	1.86796	1.86796
Yeats2	NM_001145930	2.75E-06	2.13571	2.13571	9.11E-05	1.86609	1.86609
Adra2b	NM_009633	2.09E-06	4.96551	4.96551	4.76E-05	1.86128	1.86128
Map3k13	NM_172821	5.76E-11	3.77343	3.77343	7.14E-06	1.85823	1.85823
Dmpk	NM_032418	3.54E-12	2.7822	2.7822	0.000772413	1.85782	1.85782
Efnb1	NM_010110	0.000316841	1.46576	1.46576	3.12E-06	1.8564	1.8564
Arl13b	NM_026577	8.15E-06	1.55427	1.55427	2.38E-09	1.8553	1.8553
Celsr2	NM_017392	1.48E-09	2.42219	2.42219	1.12E-06	1.85496	1.85496
Coro7	NM_030205	3.00E-08	2.39032	2.39032	6.89E-05	1.85386	1.85386
Heca	NM_001033432	9.84E-05	1.57445	1.57445	9.94E-06	1.85277	1.85277
Scarb2	NM_007644	2.43E-06	1.86221	1.86221	2.04E-05	1.84957	1.84957
4921517L17Rik	BC140978	3.34E-07	2.74584	2.74584	2.65E-06	1.84477	1.84477
BC046331	NM_177673	5.04E-08	1.62497	1.62497	4.10E-06	1.84434	1.84434
Fbxo34	NR_027414	2.12E-07	1.79283	1.79283	3.85E-06	1.84422	1.84422
Slc41a2	NM_177388	8.79E-06	1.96466	1.96466	5.87E-05	1.84172	1.84172
Itfg3	NM_207217	3.19E-06	1.74038	1.74038	0.000202699	1.83992	1.83992
Cgref1	NM_026770	5.28E-10	3.32124	3.32124	0.000212276	1.83255	1.83255
Rnpepl1	NM_181405	9.58E-09	2.40857	2.40857	5.22E-05	1.83132	1.83132
Rtkn	NM_133641	2.88E-12	3.15258	3.15258	4.04E-05	1.83044	1.83044
Neu3	NM_016720	1.20E-07	3.21761	3.21761	0.000422057	1.82928	1.82928
Ctsd	NM_009983	2.67E-08	1.7997	1.7997	3.70E-05	1.82626	1.82626
Pom121	NM_148932	7.35E-07	2.21323	2.21323	6.58E-05	1.826	1.826
Atg2b	NM_029654	1.59E-05	1.70236	1.70236	3.51E-07	1.81928	1.81928
Gstz1	NM_010363	0.000966155	1.425	1.425	2.43E-05	1.81859	1.81859
Rap2a	NM_029519	3.63E-11	2.22048	2.22048	3.15E-05	1.81695	1.81695
Rasd1	NM_009026	6.54E-07	2.12431	2.12431	3.34E-05	1.81491	1.81491
Nme4	NM_019731	0.000103287	1.67652	1.67652	6.87E-06	1.81168	1.81168
Traf4	NM_009423	3.05E-06	1.7254	1.7254	0.000109604	1.80962	1.80962
Sp6	NM_031183	5.46E-05	1.76925	1.76925	5.23E-07	1.80743	1.80743
Tnks2	NM_001163635	1.54E-06	1.39876	1.39876	4.99E-06	1.80216	1.80216
Itgb4	NM_001005608	9.55E-11	3.46708	3.46708	0.000224147	1.79861	1.79861
Hmg20b	NM_010440	0.000286687	1.22973	1.22973	0.000256202	1.798	1.798
B230312A22Rik	BC046771	0.000305538	1.29355	1.29355	0.000483986	1.79708	1.79708
Wwp1	NM_177327	0.00048639	1.56355	1.56355	1.03E-07	1.79344	1.79344
Slc12a4	NM_009195	7.63E-11	2.66474	2.66474	1.83E-07	1.79246	1.79246
1500011H22Rik	BC019498	1.51E-08	1.92955	1.92955	6.66E-08	1.78297	1.78297

Etnk2	NM_175443	1.57E-06	1.9574	1.9574	0.000194938	1.78238	1.78238
Rab23	NM_008999	4.91E-08	3.3106	3.3106	1.30E-05	1.78058	1.78058
2410002I01Rik	NM_183137	2.33E-06	1.48969	1.48969	9.41E-08	1.77734	1.77734
Anks1b	NM_001128086	6.31E-06	1.84677	1.84677	5.62E-05	1.77693	1.77693
Ahi1	NM_026203	0.000105792	1.62745	1.62745	2.66E-05	1.77684	1.77684
Slc2a4	NM_009204	2.60E-10	2.45402	2.45402	2.74E-05	1.77573	1.77573
2010111I01Rik	NM_028079	1.31E-07	1.87981	1.87981	4.26E-06	1.77425	1.77425
Pear1	NM_028460	4.96E-05	1.41207	1.41207	7.96E-05	1.77193	1.77193
1500010J02Rik	NR_026565	3.31E-09	2.13996	2.13996	7.38E-06	1.77076	1.77076
Ptpdc1	NM_207232	1.10E-09	2.60323	2.60323	2.54E-06	1.76872	1.76872
Stk25	NM_021537	4.91E-08	2.17305	2.17305	6.05E-06	1.76575	1.76575
Cacna1b	NM_001042528	3.17E-08	2.75845	2.75845	3.44E-05	1.76298	1.76298
Acs16	NM_001033598	2.23E-06	1.43596	1.43596	1.83E-05	1.76046	1.76046
Plxnb2	NM_138749	0.000283763	1.81755	1.81755	0.000171457	1.75449	1.75449
Cytsa	NM_153406	6.56E-08	2.02366	2.02366	1.75E-05	1.75326	1.75326
Zfpm1	NM_009569	1.06E-06	2.38948	2.38948	2.68E-06	1.75301	1.75301
Mtif3	NM_029581	8.51E-07	1.6995	1.6995	3.55E-05	1.75104	1.75104
Sh3glb2	NM_139302	7.63E-07	2.27444	2.27444	2.02E-06	1.74829	1.74829
Sdc1	NM_011519	8.39E-08	1.96888	1.96888	3.76E-05	1.74759	1.74759
Ldb1	NM_010697	2.31E-05	0.82943	-1.20565	0.000108152	1.74633	1.74633
Myd88	NM_010851	7.86E-07	1.57569	1.57569	1.41E-07	1.74587	1.74587
Zcchc24	NM_001101433	1.82E-05	1.92569	1.92569	8.05E-05	1.74432	1.74432
Baiap2	NM_130862	7.70E-09	3.47092	3.47092	0.000180731	1.7439	1.7439
4933426M11Rik	BC040401	1.74E-06	2.59098	2.59098	8.60E-05	1.74169	1.74169
Ppil3	NM_027351	0.000124895	1.73979	1.73979	0.000194384	1.73967	1.73967
Plekha6	NM_182930	4.15E-10	3.76729	3.76729	7.45E-05	1.73826	1.73826
Gne	NM_015828	2.92E-11	4.45626	4.45626	0.000348464	1.73637	1.73637
Tmem127	NM_175145	1.20E-08	2.11021	2.11021	7.68E-05	1.73637	1.73637
Aqr	NM_009702	1.72E-08	1.47387	1.47387	8.04E-07	1.73627	1.73627
Irf6	NM_016851	1.86E-06	2.38769	2.38769	0.000130852	1.73545	1.73545
Triobp	NM_001039156	6.57E-08	1.86133	1.86133	7.68E-06	1.73475	1.73475
Rnf169	NM_175388	3.71E-10	2.43478	2.43478	0.000656559	1.73282	1.73282
Tmem229a	NM_177013	1.08E-06	1.91236	1.91236	0.000616255	1.73232	1.73232
Snai3	NM_013914	6.33E-09	3.26818	3.26818	5.89E-05	1.7295	1.7295
Hcn2	NM_008226	9.15E-05	1.55628	1.55628	5.37E-05	1.72498	1.72498
Cast	NM_009817	5.73E-05	1.58785	1.58785	4.11E-07	1.72276	1.72276
Exoc2	NM_025588	4.49E-06	1.74384	1.74384	0.000474372	1.71798	1.71798
Arhgap24	NM_029270	0.000586361	1.32339	1.32339	0.000180102	1.71733	1.71733
1700081L11Rik	BC054752	6.53E-05	1.49751	1.49751	0.000859354	1.71511	1.71511
Prss53	NM_001081268	1.84E-08	3.64737	3.64737	6.57E-05	1.70726	1.70726
Artn	NM_009711	7.39E-08	2.50047	2.50047	1.24E-05	1.70628	1.70628
Sh3bp1	NM_009164	1.48E-06	1.71959	1.71959	0.000103757	1.70623	1.70623
Ccdc122	NM_175369	4.69E-06	2.08922	2.08922	0.000596352	1.70605	1.70605

Tsku	NM_001168541	1.71E-07	2.78513	2.78513	0.000155012	1.70597	1.70597
Prdm8	NM_029947	0.000406929	1.34301	1.34301	4.54E-06	1.70347	1.70347
Ak1	NM_021515	2.15E-05	1.64151	1.64151	4.10E-05	1.70325	1.70325
Chchd7	NM_181391	0.000123314	1.72204	1.72204	9.08E-08	1.70046	1.70046
Ckmt1	NM_009897	3.93E-10	3.32302	3.32302	0.000658246	1.69474	1.69474
Ptpre	NM_011212	8.14E-07	2.03238	2.03238	0.000683687	1.6942	1.6942
B4galnt3	NM_198884	1.14E-06	0.729021	-1.3717	2.69E-05	1.69379	1.69379
Fam124a	ENSMUST0000039064	4.32E-07	2.00295	2.00295	8.47E-05	1.69291	1.69291
Rad51l3	NM_011235	1.08E-07	2.21363	2.21363	8.12E-05	1.68908	1.68908
Scarb1	NM_016741	1.82E-06	1.37784	1.37784	3.02E-06	1.68772	1.68772
Zdhhc1	NM_175160	7.09E-08	2.32116	2.32116	0.000271465	1.68723	1.68723
Prosc	NM_054057	7.46E-06	2.03524	2.03524	2.49E-06	1.68568	1.68568
Pafah2	NM_133880	1.25E-07	2.47566	2.47566	0.000250477	1.68473	1.68473
Ube2o	NM_173755	1.09E-05	1.18393	1.18393	0.000377714	1.68412	1.68412
Elmo2	NM_207706	3.36E-08	1.73256	1.73256	7.21E-06	1.6834	1.6834
Top1mt	NM_028404	4.86E-09	3.23303	3.23303	3.23E-05	1.68331	1.68331
Gusb	NM_010368	3.24E-06	1.72048	1.72048	2.51E-06	1.68161	1.68161
Ppard	NM_011145	2.27E-10	2.60469	2.60469	5.05E-05	1.67608	1.67608
Larp1b	BC100361	3.93E-05	1.45991	1.45991	2.86E-06	1.67598	1.67598
Zxdc	NM_173002	1.52E-08	1.86609	1.86609	1.17E-06	1.67245	1.67245
Map2k4	NM_009157	1.84E-06	1.75131	1.75131	1.18E-06	1.67212	1.67212
Abhd14a	NM_001110271	1.87E-05	2.03788	2.03788	2.75E-05	1.66982	1.66982
Fbrs	NM_010183	5.60E-05	1.50504	1.50504	0.000611267	1.66425	1.66425
Usp20	NM_028846	5.75E-05	1.61769	1.61769	0.000124025	1.661	1.661
Fosl1	NM_010235	1.33E-10	5.2333	5.2333	1.74E-05	1.66075	1.66075
Rcsd1	NM_178593	5.04E-08	2.14414	2.14414	3.81E-05	1.66068	1.66068
Hras1	NM_001130444	1.17E-06	1.3581	1.3581	7.53E-06	1.65819	1.65819
Tmem120a	NM_172541	8.44E-07	2.20768	2.20768	0.000259634	1.65815	1.65815
Abhd5	NM_026179	1.13E-10	3.11	3.11	1.45E-05	1.65674	1.65674
Pam	NM_013626	8.21E-09	2.42592	2.42592	0.000162927	1.65387	1.65387
Spocd1	NM_001144949	8.70E-06	1.43923	1.43923	9.21E-06	1.65268	1.65268
Slc35e4	NM_153142	7.29E-08	2.2138	2.2138	2.30E-05	1.64182	1.64182
Zfyve21	NM_026752	1.25E-06	1.63097	1.63097	2.32E-05	1.64172	1.64172
Vopp1	NM_146168	1.07E-07	2.99488	2.99488	6.18E-06	1.63958	1.63958
Adcy5	NM_001012765	8.00E-09	2.14107	2.14107	0.00038531	1.63767	1.63767
Capg	NM_007599	0.00025734	1.95552	1.95552	0.000205377	1.6364	1.6364
Sh3rf3	NM_172788	3.48E-08	2.55204	2.55204	5.94E-05	1.6355	1.6355
Fkbp9	NM_012056	1.88E-06	1.69035	1.69035	9.67E-06	1.63477	1.63477
Sbk1	NM_145587	3.62E-08	1.96346	1.96346	0.000173818	1.63428	1.63428
Inpp4a	NM_030266	3.00E-08	1.77537	1.77537	0.000896363	1.63307	1.63307
Slc29a4	NM_146257	1.39E-07	1.91287	1.91287	6.16E-05	1.63244	1.63244
Tbcel	NM_173038	3.33E-05	1.48829	1.48829	3.41E-05	1.62813	1.62813
Reep2	NM_144865	5.80E-06	1.75997	1.75997	2.65E-05	1.62315	1.62315

Rims1	NM_053270	2.49E-07	1.50996	1.50996	1.03E-05	1.62171	1.62171
Mtm1	NM_001164190	3.85E-05	0.753359	-1.32739	5.62E-05	1.61766	1.61766
Tmem203	NM_177344	2.65E-05	1.47954	1.47954	2.64E-05	1.61735	1.61735
Trim3	NM_018880	2.00E-05	1.44433	1.44433	5.66E-05	1.61639	1.61639
Cad	NM_023525	1.68E-09	1.90159	1.90159	0.000147483	1.61512	1.61512
Ampd3	NM_009667	3.93E-08	2.03426	2.03426	0.00010107	1.6144	1.6144
Nbeal2	NM_183276	2.80E-07	2.11835	2.11835	2.75E-05	1.60996	1.60996
Kifc1	NM_053173	5.08E-08	1.71975	1.71975	9.70E-07	1.60885	1.60885
Ell	NM_007924	5.96E-06	1.75222	1.75222	2.11E-05	1.60724	1.60724
Klhl8	NM_178741	4.84E-05	1.93165	1.93165	9.35E-05	1.60431	1.60431
Sdhaf1	NM_001033140	6.27E-06	1.95549	1.95549	0.000490323	1.6029	1.6029
Dctn1	NM_007835	1.79E-06	1.56792	1.56792	3.15E-05	1.60013	1.60013
Vkorc1	NM_178600	1.22E-07	2.76161	2.76161	0.000487872	1.5985	1.5985
Map4k2	NM_009006	9.92E-05	1.57374	1.57374	3.41E-05	1.59795	1.59795
Dgkd	NM_177646	1.12E-05	1.49134	1.49134	4.48E-05	1.59772	1.59772
Nars2	NM_153591	0.000258309	1.61589	1.61589	5.28E-05	1.59516	1.59516
Dennd5a	NM_021494	3.27E-06	1.62908	1.62908	0.000427778	1.59479	1.59479
Tmem43	NM_028766	1.91E-09	3.54456	3.54456	7.57E-06	1.5947	1.5947
Cbs	NM_144855	2.62E-10	3.15508	3.15508	0.000617464	1.59411	1.59411
Ehd3	NM_020578	9.56E-05	1.50284	1.50284	0.000841233	1.59388	1.59388
Cd109	NM_153098	6.06E-09	7.19416	7.19416	2.69E-05	1.59217	1.59217
Elf4	NM_019680	1.58E-05	0.575135	-1.73872	0.000895232	1.58957	1.58957
Osbpl5	NM_024289	5.07E-11	3.24312	3.24312	0.000105133	1.58918	1.58918
Bbc3	NM_133234	0.000115229	1.59048	1.59048	0.000321607	1.5838	1.5838
Tsen54	NM_029557	0.00077498	1.36837	1.36837	8.67E-07	1.58328	1.58328
Bcl9l	NM_030256	4.96E-07	1.75022	1.75022	5.14E-07	1.57992	1.57992
4933427D14Rik	BC043106	1.28E-06	1.79768	1.79768	2.71E-05	1.57535	1.57535
Ccng1	NM_009831	1.14E-07	1.94433	1.94433	9.18E-06	1.57442	1.57442
Btg1	NM_007569	7.12E-07	1.87167	1.87167	0.000132025	1.57196	1.57196
Cpped1	NM_146067	1.58E-06	1.95731	1.95731	9.59E-05	1.56955	1.56955
Tyro3	NM_019392	9.32E-07	0.508576	-1.96627	2.03E-05	1.56859	1.56859
Lrrc51	NM_001162974	1.91E-08	2.54586	2.54586	4.07E-05	1.56391	1.56391
Bat2l	NM_001159634	5.92E-05	1.27085	1.27085	6.50E-06	1.56389	1.56389
Top3b	NM_011624	0.000255679	1.51082	1.51082	0.00013845	1.5629	1.5629
Gfer	NM_023040	2.64E-05	1.46595	1.46595	5.96E-05	1.55874	1.55874
Fam109a	BC120681	0.000360696	1.60148	1.60148	0.000144881	1.55797	1.55797
Lpin3	NM_022883	4.19E-05	1.34212	1.34212	0.000177902	1.55704	1.55704
Itm2b	NM_008410	0.000759465	1.34172	1.34172	2.87E-05	1.55628	1.55628
Fxyd5	NM_008761	8.98E-09	3.39939	3.39939	0.000845576	1.55431	1.55431
Itm2c	NM_022417	0.000918635	1.47626	1.47626	0.00079453	1.55071	1.55071
Rap1gap	NM_001081155	3.27E-07	1.74677	1.74677	0.000335737	1.5422	1.5422
Pla2r1	NM_008867	0.000693947	1.27983	1.27983	4.13E-05	1.53987	1.53987
Arhgap22	NM_153800	4.15E-08	1.66841	1.66841	0.000233012	1.53705	1.53705

Cdadc1	NM_001168535	0.00015004	1.47367	1.47367	7.57E-05	1.53626	1.53626
Cpz	NM_153107	1.70E-11	9.68553	9.68553	0.000707857	1.53552	1.53552
Gm12501	XR_032348	0.000395007	1.36296	1.36296	0.000741462	1.53459	1.53459
Tnpo2	NM_145390	3.05E-07	1.61531	1.61531	2.43E-05	1.52959	1.52959
Whrn	NM_001008791	1.73E-08	1.75353	1.75353	4.30E-05	1.52905	1.52905
Ivd	NM_019826	1.65E-07	1.62871	1.62871	0.000146284	1.52718	1.52718
Agpat4	NM_026644	4.60E-05	1.64678	1.64678	0.000112	1.52525	1.52525
Rab37	NM_021411	3.03E-07	1.98224	1.98224	2.95E-05	1.51843	1.51843
Arfgef2	NM_001085495	2.31E-06	1.75938	1.75938	9.85E-05	1.51785	1.51785
Slc22a17	NM_021551	3.24E-05	1.67866	1.67866	0.00056646	1.51784	1.51784
Tnfrsf1a	NM_011609	5.99E-06	1.68236	1.68236	5.90E-06	1.51556	1.51556
Tulp4	NM_054040	1.04E-08	4.572	4.572	8.19E-05	1.51319	1.51319
Slc4a8	NM_021530	8.88E-12	3.53042	3.53042	0.000218878	1.51184	1.51184
Gm13949	X63928	4.94E-06	1.55492	1.55492	0.000346977	1.51058	1.51058
Rxra	NM_011305	2.17E-07	1.59781	1.59781	0.000148657	1.51047	1.51047
Agpat6	NM_018743	9.98E-05	1.28015	1.28015	1.47E-07	1.50957	1.50957
Zc3h12a	NM_153159	2.67E-05	0.697072	-1.43457	8.95E-05	1.50803	1.50803
Tram11	NM_146140	2.33E-07	1.78866	1.78866	0.000163219	1.50627	1.50627
Ddx19b	NM_172284	2.01E-05	1.39788	1.39788	0.000201653	1.50321	1.50321
Polr1e	NM_022811	6.08E-06	1.39084	1.39084	2.46E-06	1.49171	1.49171
Eps8l2	NM_133191	5.05E-09	1.68825	1.68825	0.000986283	1.48387	1.48387
Mlec	NM_175403	1.87E-08	2.14382	2.14382	2.85E-05	1.48045	1.48045
St3gal2	NM_009179	2.28E-07	1.37509	1.37509	0.000149851	1.4803	1.4803
Dos	NM_015761	9.71E-08	1.66722	1.66722	0.000135301	1.4748	1.4748
Rnf14	NM_020012	5.75E-08	2.07111	2.07111	0.000459707	1.47344	1.47344
Lage3	NM_025410	0.000316147	1.50133	1.50133	8.47E-05	1.47231	1.47231
Zfp651	NM_001166644	0.000990079	1.54333	1.54333	0.000162734	1.47038	1.47038
Mgat2	NM_146035	0.000341772	1.44659	1.44659	2.92E-06	1.46923	1.46923
Neurl1a	NM_021360	1.02E-05	1.56315	1.56315	9.61E-06	1.45872	1.45872
Zbtb42	NM_001100460	1.57E-06	2.12605	2.12605	0.000294162	1.45726	1.45726
Shisa5	NM_025858	0.000396386	1.23298	1.23298	2.04E-06	1.45684	1.45684
Aen	NM_026531	1.34E-06	1.49473	1.49473	4.00E-05	1.45389	1.45389
Cd81	NM_133655	3.47E-05	1.4197	1.4197	3.22E-05	1.45157	1.45157
Sash1	NM_175155	1.34E-05	1.41545	1.41545	7.52E-05	1.45013	1.45013
Pnpla6	NM_001122818	4.74E-05	1.29952	1.29952	3.47E-05	1.44779	1.44779
Capn10	NM_011796	0.000391031	1.48745	1.48745	0.000138557	1.44369	1.44369
Myo9b	NM_001142322	1.72E-08	2.01801	2.01801	0.000572867	1.44159	1.44159
Tmem9b	NM_020050	0.000178164	1.44825	1.44825	1.81E-05	1.4367	1.4367
Elf1	NM_007920	6.05E-07	1.66963	1.66963	1.93E-05	1.43537	1.43537
Plekhg6	NM_198604	5.51E-09	4.03259	4.03259	0.00070252	1.42849	1.42849
Gm1943	NR_002928	2.49E-05	1.67306	1.67306	5.66E-06	1.4281	1.4281
Map3k9	NM_001174107	5.92E-07	2.57636	2.57636	2.17E-05	1.42777	1.42777
Itga2b	NM_010575	8.87E-09	3.51318	3.51318	8.30E-05	1.42768	1.42768

Ccdc17	NM_001037916	5.65E-10	2.58884	2.58884	0.000338051	1.42657	1.42657
Cbfb	NM_001161458	0.000232866	1.27096	1.27096	1.59E-05	1.42509	1.42509
Rln1	NM_011272	5.29E-05	2.05762	2.05762	3.41E-05	1.42372	1.42372
Cpd	NM_007754	1.96E-09	2.79322	2.79322	8.96E-06	1.41898	1.41898
Agap1	NM_178119	1.71E-09	1.95405	1.95405	0.000374331	1.41703	1.41703
Gpsm1	NM_153410	1.16E-07	1.60602	1.60602	4.89E-05	1.41579	1.41579
Matn4	NM_013592	7.46E-07	1.79479	1.79479	8.96E-06	1.4151	1.4151
Nupl2	NM_153092	3.57E-08	1.73442	1.73442	0.00081343	1.40915	1.40915
Ubttd1	NM_145500	2.35E-05	1.45367	1.45367	0.000267116	1.40363	1.40363
Ppm1m	NM_198931	0.000219073	0.759009	-1.31751	0.000242729	1.40292	1.40292
Sh2d3c	NM_013781	7.72E-06	1.79474	1.79474	9.11E-05	1.39939	1.39939
Rasgef1a	NM_027526	4.85E-06	1.69376	1.69376	3.78E-05	1.39785	1.39785
Fam162a	NM_027342	0.000232027	1.27239	1.27239	0.000332068	1.3912	1.3912
Zfp334	NM_178411	0.000117389	1.35273	1.35273	0.000672363	1.38914	1.38914
Rag1ap1	NM_009057	3.62E-07	1.97792	1.97792	0.00073034	1.38864	1.38864
Aldh7a1	NM_001127338	8.03E-05	1.22722	1.22722	0.000370338	1.3871	1.3871
Cryab	NM_009964	1.50E-07	2.73577	2.73577	0.000978083	1.38147	1.38147
Fbxl3	NM_015822	0.000954839	1.3039	1.3039	1.31E-05	1.38066	1.38066
Rin1	NM_145495	6.24E-05	1.70726	1.70726	0.000348051	1.3765	1.3765
Zhx1	NM_001042438	0.000190673	1.51082	1.51082	5.10E-06	1.37434	1.37434
Arhgef6	NM_152801	0.000260608	1.29321	1.29321	0.000984365	1.3512	1.3512
Snx29	NM_028964	9.24E-07	1.65549	1.65549	3.19E-05	1.32375	1.32375
Kif1c	NM_153103	1.50E-06	3.11019	3.11019	0.000902116	1.2967	1.2967
Rab42	NM_001081651	2.43E-05	2.49543	2.49543	0.000625402	1.28898	1.28898
Efr3b	NM_001082483	1.57E-09	1.91138	1.91138	4.77E-05	1.28007	1.28007
Rnf19a	NM_013923	9.67E-05	0.649204	-1.54035	2.69E-05	1.27852	1.27852
Slc25a3	NM_133668	2.58E-05	1.27325	1.27325	0.000309446	1.27053	1.27053
P2rx6	NM_011028	5.89E-09	4.29497	4.29497	0.000440152	1.26551	1.26551
Nfxl1	NM_133921	4.23E-08	1.78569	1.78569	6.09E-05	1.26063	1.26063
Smtnl2	NM_177776	2.12E-08	0.561621	-1.78056	9.94E-06	1.25757	1.25757
Ssbp3	NM_023672	2.35E-05	1.44956	1.44956	0.000154003	1.23596	1.23596
Lmna	NM_001002011	2.08E-05	0.665178	-1.50336	0.000418164	1.23102	1.23102
Pnpla7	NM_146251	2.87E-10	2.15242	2.15242	0.000464451	1.22272	1.22272
Dusp7	NM_153459	8.27E-05	1.55974	1.55974	0.000878195	1.19552	1.19552
Tuba1b	NM_011654	8.66E-07	0.892463	-1.1205	0.000454378	0.922689	-1.08379
Tmed2	NM_019770	0.00095423	0.746834	-1.33899	4.04E-06	0.867185	-1.15316
Atf6	NM_001081304	9.19E-05	0.715312	-1.39799	0.000758415	0.856205	-1.16794
BO20018G12Rik	NM_001039518	0.000391787	0.853315	-1.1719	0.000856046	0.85317	-1.1721
Dedd	NM_001128609	1.27E-05	0.682133	-1.46599	0.000689201	0.839626	-1.19101
Ube2d3	NM_025356	1.99E-07	0.7941	-1.25929	8.41E-06	0.833978	-1.19907
Cpsf6	NM_001013391	1.75E-05	0.6984	-1.43185	0.000264849	0.828118	-1.20756
Nhp2l1	NM_011482	0.000552335	0.817904	-1.22264	0.000408437	0.827342	-1.20869
Eif4a1	NM_144958	0.000220753	0.836208	-1.19587	2.62E-05	0.820736	-1.21842

Cul1	NM_012042	1.29E-05	0.678483	-1.47388	0.000265311	0.816078	-1.22537
2810407C02Rik	NM_001040396	0.000807584	0.676851	-1.47743	5.86E-05	0.808416	-1.23699
Far1	NM_026143	0.000137775	0.66857	-1.49573	0.000943915	0.802015	-1.24686
Ccdc21	NM_144527	8.04E-05	0.6985	-1.43164	0.000712644	0.800989	-1.24846
Cdc5l	AK150562	0.000271612	0.67094	-1.49045	0.000669792	0.799698	-1.25047
Abcg2	NM_011920	0.000225863	0.484972	-2.06198	3.70E-05	0.79919	-1.25127
Rpusd1	NM_028009	4.13E-06	1.255	1.255	0.000349218	0.796553	-1.25541
Sumo2	NM_133354	3.68E-06	0.799154	-1.25132	0.000855243	0.795115	-1.25768
Enoph1	NM_026421	2.41E-07	0.553172	-1.80776	2.63E-05	0.793535	-1.26018
2410129H14Rik	NM_175245	3.98E-07	0.645106	-1.55013	0.000582616	0.793172	-1.26076
Xkr5	NM_176951	0.00012203	0.660699	-1.51355	0.0007321	0.788142	-1.26881
Tfpt	NM_023524	1.33E-05	0.758774	-1.31791	0.000187448	0.780735	-1.28084
Hspbp1	NM_024172	0.000142272	0.737657	-1.35564	0.000749138	0.778658	-1.28426
Caprin1	NM_016739	0.000112215	0.793582	-1.26011	1.02E-05	0.777685	-1.28587
Hnrnp2	NM_019868	2.64E-06	0.634672	-1.57562	5.53E-06	0.777385	-1.28636
Plp2	NM_019755	4.37E-05	0.709442	-1.40956	0.000878324	0.776318	-1.28813
Cisd2	NM_025902	0.000664833	0.782043	-1.2787	9.17E-05	0.775244	-1.28992
H2afz	NM_016750	2.50E-05	0.585217	-1.70877	0.000485497	0.771726	-1.2958
Trip10	NM_134125	1.78E-10	0.420759	-2.37666	0.000758658	0.770925	-1.29714
Rlim	NM_011276	8.84E-08	0.65873	-1.51807	2.90E-05	0.76791	-1.30224
Sox12	NM_011438	7.72E-05	0.642582	-1.55622	0.00024122	0.765802	-1.30582
Jagn1	NM_026365	0.000276617	0.712281	-1.40394	5.17E-08	0.764041	-1.30883
Khdrbs1	NM_011317	0.000481362	0.68744	-1.45467	1.85E-05	0.761802	-1.31268
Plscr1	NM_011636	4.90E-08	0.419682	-2.38276	0.00081539	0.759599	-1.31648
Gnl1	NM_008136	1.01E-06	0.572892	-1.74553	4.83E-05	0.757985	-1.31929
Smarce1	NM_020618	3.99E-05	0.787559	-1.26975	0.000430205	0.756213	-1.32238
1700025G04Rik	NM_197990	5.54E-06	0.62106	-1.61015	0.000137896	0.755006	-1.32449
Basp1	NM_027395	1.01E-08	0.492076	-2.03221	8.12E-05	0.751409	-1.33083
Atp2a2	NR_027838	1.20E-06	0.615904	-1.62363	1.06E-05	0.747351	-1.33806
Cspp1	NM_026493	6.62E-05	0.801502	-1.24766	0.000294099	0.747146	-1.33843
Rmi1	NM_001168248	0.000159497	0.642209	-1.55712	5.66E-05	0.744055	-1.34399
Metap1	NM_175224	3.41E-05	0.731142	-1.36772	0.000198456	0.74348	-1.34503
Larp4	NM_001024526	0.000161605	0.780126	-1.28184	9.82E-05	0.740731	-1.35002
Cnot1	NM_153164	1.07E-05	0.757988	-1.31928	0.000123733	0.740403	-1.35062
Pitpnb	NM_019640	7.20E-05	0.646653	-1.54642	1.25E-05	0.735089	-1.36038
Hspd1	NM_010477	1.28E-05	0.781964	-1.27883	9.51E-05	0.73454	-1.3614
Dhps	NM_001039514	1.17E-05	0.68851	-1.45241	0.000755583	0.73396	-1.36247
Rangrf	NM_021329	0.000971409	0.658339	-1.51897	0.000109819	0.733519	-1.36329
Rgs19	NM_026446	4.87E-05	0.794725	-1.2583	4.24E-05	0.732107	-1.36592
Trim16	NM_053169	0.000140134	0.587902	-1.70096	2.57E-05	0.730992	-1.368
Polr2e	NM_025554	3.47E-06	0.686026	-1.45767	0.00055698	0.72954	-1.37073
Raf1	NM_029780	5.92E-05	0.79776	-1.25351	4.24E-05	0.723477	-1.38221
Trpc2	NM_011644	0.000130501	1.48489	1.48489	3.07E-05	0.721097	-1.38678

Rad21	NM_009009	3.81E-07	0.658656	-1.51824	0.000442698	0.720551	-1.38783
Hmgb1	NM_010439	0.000315521	0.855244	-1.16926	0.000571947	0.720424	-1.38807
Eif2s2	NM_026030	1.22E-06	0.58338	-1.71415	0.00021608	0.719419	-1.39001
Anapc1	NM_008569	3.36E-05	0.796732	-1.25513	4.14E-05	0.716258	-1.39614
Sox11	NM_009234	1.17E-06	0.464612	-2.15234	0.000509007	0.714722	-1.39915
Bat2	NM_020027	0.00097065	0.690774	-1.44765	0.000238425	0.714172	-1.40022
Psip1	NM_133948	2.62E-06	0.55238	-1.81035	0.000339257	0.713914	-1.40073
Psenen	NM_025498	0.000418797	0.706354	-1.41572	6.26E-05	0.713802	-1.40095
E2f4	NM_148952	3.75E-05	0.801862	-1.2471	0.000409249	0.712941	-1.40264
Trip6	NM_011639	5.55E-05	0.703612	-1.42124	6.83E-06	0.71271	-1.4031
B4galnt4	NM_177897	6.06E-05	0.57703	-1.73301	6.37E-05	0.710227	-1.408
Tubb5	NM_011655	2.10E-05	0.813656	-1.22902	0.00040568	0.709539	-1.40937
Psmc5	NM_080554	3.33E-05	0.726206	-1.37702	0.000353001	0.707078	-1.41427
Ddx47	NM_026360	0.0005255	0.699054	-1.4305	0.000337955	0.704993	-1.41845
Cdc42ep1	NM_027219	0.000586833	0.752696	-1.32856	0.000348927	0.704731	-1.41898
Phb	NM_008831	0.00061852	0.802708	-1.24578	9.57E-05	0.703169	-1.42213
Zfp27	NM_001037707	3.96E-06	0.653117	-1.53112	0.000413991	0.702978	-1.42252
Mtdh	NM_026002	0.000400666	0.733173	-1.36393	7.72E-06	0.70123	-1.42607
Dgcr8	NM_033324	0.000363864	0.768854	-1.30064	0.000186496	0.700465	-1.42762
Ube2k	NM_016786	0.00025508	0.677131	-1.47682	0.00017959	0.699244	-1.43012
Csnk2a1	NM_007788	5.72E-06	0.726708	-1.37607	7.96E-05	0.699013	-1.43059
Exosc7	NM_001081188	0.000811273	0.667634	-1.49783	0.000300137	0.698574	-1.43149
BC016423	NM_134063	8.85E-06	0.614704	-1.6268	5.25E-05	0.69701	-1.4347
Eif3d	NM_018749	3.54E-06	0.790124	-1.26562	7.12E-05	0.696693	-1.43535
Stk3	NM_019635	1.64E-05	0.710018	-1.40841	1.44E-05	0.696274	-1.43622
Prpf3	NM_027541	8.44E-06	0.583977	-1.7124	0.000270678	0.695134	-1.43857
Nup205	NM_027513	0.000587636	0.890631	-1.1228	0.000323261	0.694355	-1.44018
Ppm1g	NM_008014	9.32E-06	0.642422	-1.55661	4.29E-05	0.693659	-1.44163
Mtap	NM_024433	0.000143171	0.73095	-1.36808	7.68E-05	0.693658	-1.44163
Acsl4	NM_207625	3.59E-06	0.553606	-1.80634	0.000328477	0.692852	-1.44331
Timm8a1	NM_013898	0.000458832	0.608101	-1.64446	0.000466452	0.692787	-1.44345
Ddx51	NM_027156	0.000793018	0.853838	-1.17118	0.000261397	0.692693	-1.44364
Eif4e	NM_007917	4.47E-05	0.651962	-1.53383	1.24E-05	0.692669	-1.44369
Ssb	NM_009278	0.000392067	0.717246	-1.39422	5.50E-06	0.692339	-1.44438
F2r	NM_010169	2.36E-05	0.735235	-1.36011	4.61E-05	0.691609	-1.4459
Slc25a33	NM_027460	0.000526259	0.69894	-1.43074	0.000172879	0.690995	-1.44719
Rbm25	NM_027349	5.60E-05	0.645064	-1.55023	1.41E-05	0.690985	-1.44721
Kpnb1	NM_008379	0.00083817	0.77943	-1.28299	2.80E-07	0.68902	-1.45134
Ppil1	NM_026845	0.000285228	0.520717	-1.92043	0.000307809	0.687878	-1.45375
Ubr5	NM_001081359	1.17E-05	0.697663	-1.43336	3.67E-05	0.684783	-1.46032
Cct3	NM_009836	4.03E-05	0.686723	-1.45619	0.000403918	0.684036	-1.46191
Cand1	NM_027994	1.07E-06	0.630188	-1.58683	2.94E-05	0.683888	-1.46223
Wbp11	NM_021714	0.000677505	0.777952	-1.28543	3.33E-05	0.683623	-1.46279

Polr2i	NM_027259	7.86E-05	0.590305	-1.69404	0.000175807	0.682861	-1.46443
Flot1	NM_008027	1.92E-08	0.509789	-1.9616	0.000189132	0.681314	-1.46775
Atf2	NM_019717	1.91E-06	0.604646	-1.65386	0.000134604	0.681101	-1.46821
Kcnc5	NM_021542	4.65E-05	0.742923	-1.34603	0.000291033	0.679073	-1.4726
Esf1	NM_001081090	0.000475559	0.687678	-1.45417	2.32E-05	0.675675	-1.48
Myst2	NM_177619	0.000473535	0.824144	-1.21338	0.000108803	0.674533	-1.48251
Hist1h2ao	NM_001177544	2.19E-05	0.71245	-1.40361	0.000317009	0.674081	-1.4835
Tagap1	NM_147155	0.000833835	0.600505	-1.66527	0.000379796	0.673314	-1.48519
Hist1h2af	NM_175661	1.05E-08	0.716853	-1.39499	0.000339169	0.672037	-1.48801
Cep192	NM_027556	0.000829311	0.614306	-1.62785	0.000773002	0.671688	-1.48879
Amd1	NM_009665	2.49E-05	0.776297	-1.28817	0.000240536	0.671528	-1.48914
Trmt112	NM_001166370	2.78E-05	0.631873	-1.5826	2.75E-05	0.67087	-1.4906
Phf23	NM_030064	1.39E-05	0.636811	-1.57032	1.33E-05	0.668797	-1.49522
Armcx2	NM_026139	3.88E-07	0.514706	-1.94286	0.000549133	0.668236	-1.49648
Rdh13	NM_175372	0.000313017	0.85812	-1.16534	0.000323606	0.668193	-1.49657
Lmnb2	NM_010722	0.000118886	0.695875	-1.43704	0.00050217	0.667525	-1.49807
Nr2c2ap	NM_001025586	1.60E-05	0.606756	-1.64811	0.000331204	0.666718	-1.49988
Fam57a	NM_027773	4.47E-05	0.741831	-1.34802	6.55E-05	0.666606	-1.50014
Pnn	NM_008891	7.79E-07	0.777796	-1.28568	1.94E-08	0.665551	-1.50252
Usp5	NM_013700	3.15E-05	0.703809	-1.42084	2.18E-05	0.664553	-1.50477
Rpl7l1	NM_025433	0.000175619	0.670842	-1.49066	0.000300848	0.663341	-1.50752
Adat2	NM_025748	0.00045288	0.7173	-1.39412	1.47E-05	0.663284	-1.50765
Ddx18	NM_025860	0.000242581	0.79737	-1.25412	4.81E-06	0.661171	-1.51247
Tbcb	NM_025548	0.000117697	0.680895	-1.46865	5.31E-05	0.660931	-1.51302
Hist1h2an	NM_178184	1.21E-09	0.700763	-1.42702	0.000242559	0.660657	-1.51364
Cep57	NM_026665	1.15E-05	0.734876	-1.36077	9.72E-05	0.660622	-1.51372
Wdr82	NM_029896	1.46E-08	0.581471	-1.71978	6.33E-05	0.660477	-1.51406
Usp10	NM_009462	4.30E-05	0.68466	-1.46058	8.13E-07	0.659856	-1.51548
Uba2	NM_016682	7.90E-05	0.782897	-1.27731	0.000522025	0.659233	-1.51691
N6amt2	NM_026526	0.00061659	0.734573	-1.36134	0.000240284	0.659105	-1.51721
Gnl3l	NM_198110	1.16E-05	0.552208	-1.81091	4.75E-05	0.658532	-1.51853
Kri1	NM_145416	0.000407886	0.749265	-1.33464	3.64E-05	0.657656	-1.52055
Patl1	NM_172635	0.000139375	0.707513	-1.4134	0.000147514	0.6569	-1.5223
Fgfr1op	NM_201230	3.36E-05	0.599581	-1.66783	0.000154836	0.655738	-1.525
Abi2	NM_198127	4.94E-06	0.747449	-1.33788	0.00087745	0.65532	-1.52597
Rbm8a	NM_001102407	8.06E-05	0.766475	-1.30467	1.62E-05	0.654945	-1.52685
Apex1	NM_009687	5.67E-07	0.553344	-1.8072	5.02E-05	0.654401	-1.52811
Nup153	NM_175749	0.000551116	0.786322	-1.27174	5.28E-07	0.654097	-1.52883
Myg1	NM_021713	0.000177392	0.774233	-1.2916	2.42E-05	0.653884	-1.52932
Mia3	NM_177389	8.82E-05	0.696032	-1.43672	4.12E-06	0.652752	-1.53198
Xpo4	NM_020506	0.000183392	0.739896	-1.35154	4.91E-06	0.650478	-1.53733
Got1	NM_010324	9.99E-05	0.658521	-1.51856	4.24E-06	0.650216	-1.53795
Sarnp	NM_025364	2.69E-05	0.648506	-1.54201	0.000108845	0.64969	-1.53919

Etf1	NM_144866	1.19E-06	0.625593	-1.59848	1.00E-05	0.647624	-1.54411
Ppp1cc	NM_013636	1.43E-06	0.653868	-1.52936	5.13E-06	0.647566	-1.54424
Stoml2	NM_023231	0.000547862	0.775697	-1.28916	3.73E-05	0.646759	-1.54617
Dpysl2	NM_009955	1.11E-05	0.574428	-1.74086	3.29E-07	0.645804	-1.54846
Acaca	NM_133360	0.00035967	0.722292	-1.38448	0.000375321	0.645462	-1.54928
Mras	NM_008624	1.37E-07	0.274646	-3.64106	6.01E-05	0.645127	-1.55008
2410002F23Rik	NM_025880	4.53E-07	0.637285	-1.56916	8.30E-06	0.644968	-1.55047
Skiv2l2	NM_028151	0.000147754	0.654651	-1.52753	0.000544107	0.643873	-1.5531
Shc2	NM_001024539	3.40E-05	0.74108	-1.34938	0.000156976	0.642593	-1.5562
Rcor2	NM_054048	9.63E-05	0.637556	-1.56849	0.000338989	0.64106	-1.55992
Mbd3	NM_013595	1.93E-06	0.686911	-1.45579	1.12E-05	0.639751	-1.56311
2900092E17Rik	NM_030240	0.000108063	0.789086	-1.26729	9.27E-05	0.639522	-1.56367
Dcun1d2	NM_001024504	0.000555167	1.33364	1.33364	8.37E-06	0.639169	-1.56453
Nup85	NM_001002929	1.81E-05	0.809793	-1.23488	0.000221377	0.637978	-1.56745
Dse	NM_172508	6.10E-06	0.615348	-1.6251	1.01E-09	0.635577	-1.57337
Ptar1	NM_028208	5.18E-05	1.42323	1.42323	1.61E-05	0.635028	-1.57473
Pcna	NM_011045	6.58E-05	0.623546	-1.60373	0.000389091	0.632661	-1.58062
Cited2	NM_010828	8.32E-10	0.549998	-1.81819	3.92E-06	0.630728	-1.58547
Slbp	NM_009193	1.18E-05	0.711608	-1.40527	6.30E-05	0.630579	-1.58585
Pecr	NM_023523	3.39E-05	0.573587	-1.74342	3.47E-05	0.629107	-1.58955
Atxn7l2	ENSMUST00000102633	4.06E-06	0.612656	-1.63224	6.58E-05	0.623558	-1.6037
Sf3b3	NM_133953	0.000477438	0.859547	-1.1634	1.75E-08	0.622643	-1.60606
Phf13	NM_172705	1.33E-05	0.587931	-1.70088	2.23E-05	0.621512	-1.60898
4930444A02Rik	NM_029037	0.000340883	0.747428	-1.33792	3.57E-06	0.621488	-1.60904
Seh1l	NM_001039088	2.70E-07	0.612987	-1.63136	4.89E-05	0.621309	-1.60951
Ctu2	NM_153775	3.90E-06	0.661763	-1.51111	9.46E-06	0.620935	-1.61047
0610007P14Rik	NM_021446	0.000293345	0.688255	-1.45295	7.52E-05	0.620656	-1.6112
Zmym1	NM_026670	1.35E-06	0.504189	-1.98338	8.73E-05	0.619847	-1.6133
Fzr1	NM_019757	1.78E-08	0.515579	-1.93957	3.13E-05	0.619019	-1.61546
Rsl1d1	NM_025546	5.06E-05	0.818133	-1.2223	1.48E-05	0.618926	-1.6157
Kctd15	ENSMUST00000032709	1.93E-05	0.615233	-1.6254	1.26E-05	0.617278	-1.62002
Emg1	NM_013536	5.91E-05	0.646328	-1.5472	0.000216538	0.61401	-1.62864
Uck2	NM_030724	2.96E-09	0.529178	-1.88972	4.65E-06	0.613524	-1.62993
Pds5a	NM_001081321	2.45E-07	0.637467	-1.56871	4.08E-08	0.613441	-1.63015
Bzw2	NM_025840	0.0001401	0.746494	-1.3396	5.64E-05	0.61285	-1.63172
Trim28	NM_011588	8.59E-05	0.728043	-1.37354	1.66E-06	0.610708	-1.63744
Kras	NM_021284	0.000223101	0.599794	-1.66724	4.33E-07	0.61025	-1.63867
Slc7a6	NM_178798	8.02E-06	0.557739	-1.79295	3.34E-06	0.60986	-1.63972
Prpf38b	NM_025845	2.54E-08	0.66482	-1.50417	6.23E-06	0.609228	-1.64142
Nup98	NM_022979	1.22E-05	0.732765	-1.36469	1.67E-06	0.609022	-1.64198
Mtmr4	NM_133215	0.000564102	0.840277	-1.19008	0.000241377	0.608411	-1.64363
Atl3	NM_146091	0.000151085	0.69775	-1.43318	8.51E-06	0.608205	-1.64418
Cstf2	NM_133196	2.81E-06	0.640341	-1.56167	1.11E-06	0.607571	-1.6459

Hnrnpd	NM_001077265	3.55E-05	0.657371	-1.52121	2.60E-06	0.607256	-1.64675
Cry2	NM_009963	1.17E-06	0.570987	-1.75135	0.000106655	0.606598	-1.64854
Qrich1	NM_001114119	1.55E-06	0.680406	-1.46971	3.15E-05	0.604684	-1.65376
Erc1	NM_053204	0.000921021	0.855569	-1.16881	2.53E-05	0.601911	-1.66137
1700029F09Rik	BC119032	0.00025254	0.581758	-1.71893	4.79E-06	0.601645	-1.66211
Ubp2l	NM_028475	2.55E-08	0.713001	-1.40252	6.14E-06	0.599645	-1.66765
Arl6ip6	NM_022989	2.93E-05	0.580651	-1.72221	2.89E-06	0.599241	-1.66878
Kirrel	NM_001170985	4.56E-10	0.46177	-2.16558	0.000327105	0.594991	-1.6807
Cul2	NM_029402	0.000925849	0.586151	-1.70604	0.000185858	0.594051	-1.68336
Gm13310	XR_032234	0.00038437	0.642093	-1.55741	0.000120416	0.593728	-1.68427
Ezh2	NM_007971	2.62E-07	0.572801	-1.74581	0.000825108	0.59333	-1.6854
Mthfd1l	NM_172308	8.53E-06	0.605042	-1.65278	3.40E-06	0.59276	-1.68702
Ctdspl2	NM_212450	0.000106234	0.630484	-1.58608	0.000124112	0.592016	-1.68914
Hist1h2be	NM_001177653	7.63E-05	0.46855	-2.13424	0.000447609	0.591989	-1.68922
Tpr	NM_133780	0.000353709	0.7248	-1.37969	2.82E-05	0.591177	-1.69154
Dact1	NM_021532	1.36E-06	0.351449	-2.84536	0.000471273	0.589662	-1.69589
Cdc25b	NM_023117	0.000146531	0.747446	-1.33789	6.84E-05	0.589044	-1.69767
Klh7	NM_026448	5.02E-07	0.559784	-1.7864	1.19E-05	0.588677	-1.69872
Gm10786	ENSMUST00000099550	0.000478311	1.8252	1.8252	0.00033915	0.588399	-1.69953
Gpn1	NM_133756	5.35E-05	0.599319	-1.66856	0.000168474	0.58739	-1.70245
BC052040	NM_001145898	0.000121438	0.655289	-1.52605	3.45E-05	0.587266	-1.70281
Whsc1	NM_001081102	3.37E-05	0.58979	-1.69552	2.53E-06	0.586088	-1.70623
Dna2	NM_177372	2.93E-10	1.66803	1.66803	8.79E-05	0.586082	-1.70625
Cdca3	NM_013538	6.33E-06	0.60498	-1.65295	4.68E-05	0.585325	-1.70845
Sfmbt2	NM_177386	4.74E-10	0.262089	-3.8155	7.88E-05	0.584204	-1.71173
2810417H13Rik	NM_026515	0.000135959	0.611076	-1.63646	0.000679095	0.583533	-1.7137
Igf2bp3	NM_023670	2.23E-06	0.547276	-1.82723	0.000115524	0.583208	-1.71465
Cdk5rap2	NM_145990	3.82E-05	0.753972	-1.32631	8.23E-05	0.582244	-1.71749
Tomm70a	NM_138599	3.63E-07	0.645532	-1.54911	4.37E-06	0.581742	-1.71897
Casp2	NM_007610	0.000474945	0.719712	-1.38945	6.01E-06	0.581396	-1.72
Rhobtb2	NM_153514	6.96E-06	0.650158	-1.53809	0.000559767	0.580543	-1.72253
Cntrob	NM_172560	0.000104348	0.773816	-1.2923	1.31E-07	0.58025	-1.72339
Hist1h3g	NM_145073	8.66E-06	0.680606	-1.46928	0.000235077	0.579247	-1.72638
Pkn2	NM_178654	0.000694316	0.711417	-1.40565	1.07E-05	0.57885	-1.72756
Nsun2	NM_145354	0.000133136	0.762589	-1.31132	1.86E-06	0.578665	-1.72812
2810030E01Rik	NM_028317	9.51E-05	0.584074	-1.71211	0.000744253	0.577786	-1.73074
Cdk2	NM_183417	1.92E-09	0.632508	-1.58101	3.18E-05	0.577528	-1.73152
Mcrs1	NM_016766	0.000106328	0.78642	-1.27159	0.000107619	0.577403	-1.73189
Vps72	NM_009336	0.000982665	0.793639	-1.26002	0.00011647	0.576789	-1.73374
Tra2b	NM_009186	1.20E-06	0.665211	-1.50328	2.36E-07	0.576778	-1.73377
Tpbg	NM_011627	0.00024653	0.766097	-1.30532	0.000638357	0.575826	-1.73664
Kpna2	NM_010655	3.91E-07	0.696478	-1.4358	2.50E-06	0.575166	-1.73863
Zfp131	NM_028245	2.86E-06	0.596452	-1.67658	7.50E-07	0.575142	-1.7387

Sfrs7	NM_146083	0.000847626	0.666419	-1.50056	0.000281426	0.574569	-1.74043
Zfp280b	NM_177475	2.71E-06	0.494645	-2.02165	6.30E-05	0.571471	-1.74987
Stil	NM_009185	0.000264623	0.687433	-1.45469	0.000910424	0.571455	-1.74992
Tdg	NM_172552	0.000981533	0.819879	-1.21969	6.00E-06	0.570287	-1.7535
Trim27	NM_009054	0.000457415	0.676638	-1.47789	3.00E-06	0.570207	-1.75375
Tfrc	NM_011638	5.45E-08	0.448057	-2.23186	0.000639232	0.569924	-1.75462
Gm11277	NM_001110555	6.96E-09	0.478502	-2.08986	0.00048994	0.569205	-1.75684
Vasp	NM_009499	1.03E-05	0.599884	-1.66699	1.49E-05	0.568277	-1.7597
Hist1h2bc	NM_023422	2.79E-08	0.48206	-2.07443	0.000389506	0.56805	-1.76041
Hist1h3d	NM_178204	3.99E-06	0.670795	-1.49077	0.000238976	0.566808	-1.76427
Hist2h3b	NM_178215	6.55E-06	0.678349	-1.47417	0.000211659	0.566585	-1.76496
Hist1h3f	NM_013548	4.41E-06	0.683372	-1.46333	0.000259536	0.565206	-1.76927
Gk5	NM_177352	1.81E-05	0.612446	-1.6328	0.000387802	0.564895	-1.77024
Pomt1	NM_145145	0.000222789	0.610572	-1.63781	8.64E-05	0.564559	-1.77129
4931414P19Rik	BC029624	5.58E-05	0.636288	-1.57162	0.000141525	0.564531	-1.77138
Slc38a2	NM_175121	4.87E-07	0.71988	-1.38912	5.26E-07	0.563664	-1.77411
Ank2	NM_178655	2.99E-08	1.47437	1.47437	1.28E-05	0.563639	-1.77418
Epb4.1l4a	NM_013512	4.39E-06	0.486661	-2.05482	6.07E-05	0.563153	-1.77572
Zfp280c	NM_153532	8.73E-05	0.672189	-1.48768	0.000168731	0.562053	-1.77919
Gm5263	XR_033865	3.34E-05	0.560405	-1.78442	6.44E-05	0.561534	-1.78084
Exosc5	NM_138586	0.000236978	0.701609	-1.4253	2.10E-07	0.561267	-1.78168
E130306D19Rik	NM_001013377	2.00E-06	0.50041	-1.99836	0.00015289	0.560356	-1.78458
1110004F10Rik	NM_019772	0.000285422	0.56607	-1.76657	3.30E-05	0.559134	-1.78848
lfrd1	NM_013562	7.88E-07	0.509856	-1.96134	3.37E-05	0.557662	-1.7932
Pif1	NM_172453	1.58E-07	0.346795	-2.88355	0.000113599	0.557618	-1.79334
Tnk2	NM_016788	8.64E-06	0.657456	-1.52101	1.06E-06	0.557322	-1.7943
Acsi3	NM_028817	3.18E-08	0.47877	-2.08869	0.000302866	0.55684	-1.79585
Tmem39b	NM_199305	0.00058054	0.833836	-1.19928	1.56E-06	0.555079	-1.80154
Jtb	NM_206924	0.000303994	0.587202	-1.70299	5.57E-06	0.553497	-1.80669
Ube2s	NM_133777	1.21E-06	0.515722	-1.93903	2.97E-06	0.552224	-1.81086
Piga	NM_011081	0.00071908	0.605684	-1.65103	3.30E-05	0.551365	-1.81368
Ube2e3	NM_009454	1.79E-05	0.484178	-2.06536	0.000259369	0.549825	-1.81876
Akap8	NM_019774	8.08E-05	0.692371	-1.44431	1.69E-05	0.549485	-1.81989
Usp36	NM_001033528	4.32E-06	0.718489	-1.39181	0.000135751	0.547242	-1.82734
Topors	NM_134097	1.30E-05	0.646514	-1.54676	7.45E-08	0.545914	-1.83179
Dbf4	NM_013726	3.17E-07	0.519062	-1.92655	4.18E-06	0.545466	-1.83329
Syde2	NM_001166064	3.94E-06	0.525199	-1.90404	1.48E-05	0.544391	-1.83691
Mett10d	NM_026197	5.34E-05	0.640274	-1.56183	0.00018288	0.544087	-1.83794
Ankrd27	NM_145633	0.000112509	0.720481	-1.38796	9.50E-07	0.543846	-1.83875
Steap2	NM_001103157	2.24E-09	0.399182	-2.50513	7.93E-05	0.543758	-1.83905
Anp32b	NM_130889	1.26E-06	0.573854	-1.7426	8.22E-06	0.542076	-1.84476
Ankrd26	NM_001081112	0.000366219	1.44383	1.44383	4.87E-05	0.542001	-1.84502
Anp32e	NM_023210	7.41E-07	0.442145	-2.2617	3.88E-05	0.539746	-1.85272

Fscn1	NM_007984	6.18E-05	0.618511	-1.61679	1.22E-06	0.537026	-1.86211
Anp32a	NM_009672	3.21E-05	0.581432	-1.71989	3.49E-05	0.536229	-1.86488
Tbl1x	NM_020601	1.05E-05	0.540233	-1.85105	0.000419666	0.535376	-1.86785
Heatr1	NM_144835	0.000433372	0.859229	-1.16383	4.37E-07	0.535311	-1.86807
Chd1l	NM_026539	9.44E-05	0.736475	-1.35782	3.73E-05	0.534617	-1.8705
Ibtk	NM_001081282	2.21E-05	0.8057	-1.24116	1.48E-06	0.533646	-1.8739
Ephb4	NM_001159571	1.71E-07	0.496331	-2.01479	2.75E-06	0.532967	-1.87629
Slc25a13	NM_015829	1.40E-06	0.617287	-1.61999	6.98E-05	0.532383	-1.87835
Agfg2	NM_178162	6.04E-08	0.546818	-1.82876	7.55E-06	0.531204	-1.88252
Vangl2	NM_033509	6.02E-06	0.64971	-1.53915	3.04E-06	0.530881	-1.88366
Sqle	NM_009270	1.08E-06	0.562114	-1.779	0.000231275	0.528043	-1.89379
F630043A04Rik	NM_198605	0.000898509	0.792383	-1.26202	0.000676098	0.52711	-1.89714
Pde4d	NM_011056	2.37E-11	0.454515	-2.20015	3.26E-07	0.524051	-1.90821
Ilf3	NM_010561	4.78E-07	0.693502	-1.44196	5.99E-07	0.52372	-1.90942
Nfya	NM_001110832	1.69E-05	0.624956	-1.60011	8.98E-05	0.523646	-1.90969
Yipf2	NM_138303	8.88E-06	1.5994	1.5994	2.91E-06	0.523408	-1.91056
Lars	NM_134137	4.16E-05	0.700842	-1.42685	5.13E-06	0.5233	-1.91095
Phf12	NM_174852	3.32E-06	0.627484	-1.59367	0.000157467	0.521362	-1.91805
Nasp	NM_016777	2.01E-05	0.639984	-1.56254	0.000117583	0.520767	-1.92024
Hcfc1	NM_008224	2.41E-08	0.545589	-1.83288	5.79E-05	0.520575	-1.92095
Zfp462	NM_172867	4.91E-09	0.383559	-2.60716	0.000361502	0.520334	-1.92184
Hist1h2bm	NM_178200	1.46E-06	0.437838	-2.28395	4.72E-05	0.520261	-1.92211
Cks2	NM_025415	0.000810046	0.436499	-2.29095	3.99E-06	0.520017	-1.92301
Hist1h2ak	NM_178183	0.000285429	0.601426	-1.66271	0.000391212	0.519968	-1.9232
Scd1	NM_009127	4.07E-10	0.404476	-2.47234	3.69E-05	0.516531	-1.93599
Bcat1	NM_001024468	1.96E-09	0.581694	-1.71912	7.88E-06	0.516424	-1.93639
Mcm10	NM_027290	0.000168786	0.724256	-1.38073	0.00022876	0.514907	-1.9421
Sfrs13a	NM_001080387	0.000176883	0.637385	-1.56891	1.47E-05	0.513627	-1.94694
Ltv1	NM_181470	0.000446957	0.678649	-1.47352	0.000402629	0.513177	-1.94864
Ppan	NM_145610	2.16E-05	0.717588	-1.39356	7.45E-06	0.512473	-1.95132
Spag7	NM_172561	0.000563642	0.681702	-1.46692	2.92E-06	0.511788	-1.95394
Rrp15	NM_026041	3.75E-05	0.636765	-1.57044	5.56E-08	0.511648	-1.95447
Dlgap5	NM_144553	3.44E-05	0.712061	-1.40437	0.000507178	0.510762	-1.95786
Ccdc14	NM_172824	9.85E-05	0.661485	-1.51175	1.45E-05	0.509792	-1.96158
Slc38a1	NM_134086	0.000101486	0.576112	-1.73577	3.45E-05	0.509551	-1.96251
Tcfap4	NM_031182	5.41E-06	0.613614	-1.62969	4.83E-05	0.508117	-1.96805
Mrps18b	NM_025878	9.62E-05	0.524077	-1.90812	5.47E-05	0.503226	-1.98718
Fam48a	NM_019995	1.00E-07	0.591867	-1.68957	3.57E-05	0.501458	-1.99419
D2Ert750e	NM_026412	0.000975656	0.722143	-1.38477	0.000952899	0.499391	-2.00244
Dennd4a	NM_001162917	3.10E-05	0.68932	-1.4507	1.57E-05	0.497278	-2.01095
C1qbp	NM_007573	4.40E-05	0.738802	-1.35354	1.73E-08	0.49396	-2.02446
Phf19	NM_028716	7.84E-07	0.48279	-2.07129	5.25E-06	0.49194	-2.03277
Zmynd19	NM_026021	0.000334971	0.702242	-1.42401	1.55E-06	0.491176	-2.03593

Sin3a	NM_011378	6.55E-08	0.488023	-2.04909	8.48E-05	0.48797	-2.04931
Hnrnpr	NM_028871	5.76E-09	0.500264	-1.99895	7.43E-06	0.486849	-2.05403
Uspl1	NM_001115153	1.07E-06	0.608795	-1.64259	2.84E-07	0.486	-2.05761
Tatdn2	NM_001033463	2.68E-05	0.549085	-1.82121	5.04E-06	0.485799	-2.05847
Exosc1	NM_025644	0.00013505	0.731731	-1.36662	6.18E-07	0.483579	-2.06791
Ddx20	NM_017397	5.88E-05	0.664253	-1.50545	0.000118814	0.482966	-2.07054
Ebf1	NM_007897	4.34E-06	0.647185	-1.54515	3.06E-05	0.482225	-2.07372
Dlc1	NM_015802	4.50E-12	0.428928	-2.3314	6.83E-06	0.480199	-2.08247
Noc3l	NM_021315	0.000234904	0.631133	-1.58445	9.64E-07	0.479413	-2.08588
Mphosph10	NM_026483	5.82E-06	0.640967	-1.56014	1.67E-06	0.47855	-2.08964
Igf2bp1	NM_009951	1.15E-06	0.557613	-1.79336	0.00020326	0.476173	-2.10008
Espl1	NM_001014976	0.000224552	0.658452	-1.51871	2.91E-05	0.476151	-2.10017
Plekhf1	NM_024413	7.34E-05	0.446888	-2.2377	8.99E-05	0.475975	-2.10095
Tpx2	NM_001141977	0.000235555	0.738345	-1.35438	8.15E-06	0.474527	-2.10736
Anln	NM_028390	0.00031155	0.740825	-1.34985	0.00012142	0.474109	-2.10922
Zmym3	NM_001177985	2.61E-07	0.374461	-2.6705	0.000541567	0.473496	-2.11195
Troap	NM_030159	4.71E-06	0.683091	-1.46393	4.62E-05	0.472383	-2.11693
Wdr43	NM_175639	1.38E-06	0.703856	-1.42075	2.77E-08	0.471865	-2.11925
Sgol2	NM_199007	9.90E-06	0.591941	-1.68936	0.000345087	0.471108	-2.12266
Syncrip	NM_019796	3.93E-05	0.61557	-1.62451	1.45E-06	0.470991	-2.12318
Wdr75	NM_028599	3.11E-08	0.572113	-1.74791	2.58E-07	0.470386	-2.12591
Fpgs	NM_010236	0.000180522	0.652644	-1.53223	2.58E-06	0.469361	-2.13056
Exosc2	NM_144886	2.65E-07	0.666855	-1.49958	2.12E-05	0.468423	-2.13482
Bend3	NM_199028	7.38E-06	0.395184	-2.53047	7.27E-05	0.466179	-2.1451
Fkbp5	NM_010220	1.07E-07	0.581077	-1.72094	1.87E-05	0.465508	-2.14819
Hmgb2	NM_008252	0.000884696	0.679555	-1.47155	0.000315231	0.465079	-2.15017
Slc29a2	NM_007854	6.59E-05	0.684501	-1.46092	2.18E-06	0.461542	-2.16665
Mboat1	NM_153546	0.000375225	0.62475	-1.60064	5.47E-05	0.461235	-2.16809
Atxn7l3	NM_001098836	4.56E-06	0.619004	-1.6155	1.78E-07	0.459602	-2.17579
Slc25a12	NM_172436	1.42E-07	0.568054	-1.7604	3.60E-05	0.459265	-2.17739
Stard4	NM_133774	0.000808354	0.684141	-1.46169	8.72E-05	0.458678	-2.18018
Ptch1	NM_008957	1.87E-09	0.337889	-2.95955	5.82E-05	0.45847	-2.18117
Qtrtd1	NM_029128	0.000179858	0.675195	-1.48105	1.15E-06	0.455663	-2.1946
1500012F01Rik	NM_001081005	0.00094708	0.830768	-1.20371	3.97E-07	0.455033	-2.19764
Pcbp4	NM_021567	3.21E-09	0.372942	-2.68138	7.53E-05	0.454927	-2.19816
Eif4b	NM_145625	2.26E-05	0.798967	-1.25162	1.15E-07	0.454767	-2.19893
Ect2	NM_007900	1.28E-06	0.59383	-1.68398	0.000158882	0.454148	-2.20192
Hells	NM_008234	1.37E-05	0.606339	-1.64924	0.000146291	0.453609	-2.20454
Tom1l1	NM_028011	4.08E-05	0.645159	-1.55001	0.000109789	0.452955	-2.20772
Kat2a	NM_001038010	0.000332744	1.20808	1.20808	1.22E-07	0.449728	-2.22357
Skp2	NM_145468	8.57E-08	0.658291	-1.51909	3.14E-07	0.449723	-2.22359
Sephs1	NM_175400	1.97E-07	0.51997	-1.92319	4.72E-07	0.449713	-2.22364
Prc1	NM_145150	4.49E-07	0.5849	-1.70969	9.14E-05	0.448608	-2.22912

B3gnt5	NM_001159407	2.96E-05	0.421543	-2.37224	0.000190832	0.446239	-2.24095
Srfbp1	NM_026040	0.000229563	0.715953	-1.39674	8.05E-06	0.438996	-2.27793
Nrm	NM_134122	5.80E-08	0.498155	-2.00741	4.23E-05	0.438523	-2.28038
Cdkn1b	NM_009875	7.24E-07	0.44707	-2.23679	1.66E-05	0.43708	-2.28791
Suv39h1	NM_011514	0.000918658	1.19533	-1.19533	6.55E-05	0.435029	-2.2987
Bysl	NM_016859	4.05E-05	0.648157	-1.54284	9.50E-07	0.434914	-2.29931
Gm12387	XR_032698	0.000363755	0.593633	-1.68454	3.89E-05	0.433042	-2.30924
Ccnb1	NM_172301	0.00067564	0.797553	-1.25384	0.000968317	0.432158	-2.31397
Prkg2	NM_008926	0.000547834	0.773121	-1.29346	4.46E-06	0.428797	-2.3321
Atad2	NM_027435	0.000128103	0.701132	-1.42627	8.69E-06	0.426236	-2.34612
Wdr77	NM_027432	2.33E-06	0.668063	-1.49686	1.23E-07	0.425274	-2.35143
Lmnbl	NM_010721	1.42E-07	0.562413	-1.77805	5.54E-06	0.424426	-2.35612
Tcof1	NM_011552	1.69E-06	0.650716	-1.53677	7.67E-07	0.421457	-2.37272
Ccne1	NM_007633	3.00E-08	0.521035	-1.91926	9.45E-06	0.420908	-2.37581
Nusap1	NM_133851	8.03E-08	0.547845	-1.82533	3.82E-05	0.419918	-2.38142
Urb2	NM_001029876	3.63E-08	0.460358	-2.17222	4.93E-07	0.419686	-2.38274
Pold2	NM_008894	0.000171422	0.669888	-1.49279	0.000175482	0.419225	-2.38536
Tsply2	NM_029836	5.90E-05	0.545121	-1.83445	1.95E-06	0.413764	-2.41684
lqgap3	NM_001033484	8.93E-05	0.745718	-1.34099	3.87E-05	0.413416	-2.41887
Cdca5	NM_026410	9.46E-05	0.683125	-1.46386	0.000117567	0.412527	-2.42408
Clcn6	NM_011929	3.94E-05	0.594668	-1.68161	2.45E-05	0.412501	-2.42424
Pprc1	NM_001081214	2.24E-05	0.599789	-1.66725	4.87E-07	0.411049	-2.4328
Dpagt1	NM_007875	1.31E-05	0.525721	-1.90215	1.25E-05	0.40849	-2.44804
Nop58	NM_018868	1.75E-06	0.575474	-1.7377	2.82E-09	0.407346	-2.45491
Enpp4	NM_199016	5.21E-05	0.636391	-1.57136	9.08E-06	0.403512	-2.47824
Snord52	NR_028527	9.22E-05	0.562151	-1.77888	1.85E-05	0.399994	-2.50004
Hist1h2ab	NM_175660	5.61E-06	0.277584	-3.60251	0.000208543	0.398838	-2.50728
Shmt1	NM_009171	3.24E-05	0.640296	-1.56178	9.73E-07	0.397696	-2.51448
Ncapd2	NM_146171	6.04E-05	0.664609	-1.50464	1.80E-06	0.392791	-2.54588
Usp1	NM_146144	0.00033386	0.558397	-1.79084	3.31E-06	0.390753	-2.55916
Cyp51	NM_020010	5.31E-05	0.559461	-1.78744	7.50E-05	0.389865	-2.56499
Vprbp	NM_001015507	3.29E-05	0.712979	-1.40257	5.11E-06	0.38862	-2.57321
Plk1	NM_011121	5.81E-09	0.431915	-2.31527	3.06E-05	0.382259	-2.61603
Wdr76	NM_030234	1.30E-07	0.642578	-1.55623	3.81E-07	0.381162	-2.62355
Kif20a	NM_001166406	5.59E-06	0.689429	-1.45048	3.71E-06	0.380769	-2.62627
Smyd5	NM_144918	0.000126854	0.624301	-1.60179	1.48E-06	0.376812	-2.65385
Ccdc102a	NM_001033533	9.28E-07	0.601124	-1.66355	2.46E-06	0.376754	-2.65425
Cbx3	NM_007624	2.94E-05	0.600804	-1.66444	4.43E-06	0.368684	-2.71235
Gjb3	NM_008126	1.87E-07	0.399143	-2.50537	3.50E-06	0.366537	-2.72824
Mthfd2	NM_008638	6.22E-07	0.484895	-2.0623	3.00E-05	0.362047	-2.76207
Asxl1	NM_001039939	3.71E-05	0.615336	-1.62513	2.03E-07	0.361797	-2.76398
Pbk	NM_023209	6.18E-06	0.493755	-2.0253	2.55E-05	0.361049	-2.76971
Snx24	NM_029394	5.56E-06	0.440807	-2.26857	1.54E-05	0.359093	-2.78479

Hist1h1a	NM_030609	3.00E-07	0.619106	-1.61523	5.20E-05	0.349901	-2.85795
E2f8	NM_001013368	1.94E-07	0.620774	-1.61089	0.000118019	0.341993	-2.92404
Oip5	NM_001042653	0.000746355	0.484021	-2.06603	5.33E-05	0.332151	-3.01068
Arhgap19	NM_027667	1.83E-06	0.636465	-1.57118	2.10E-06	0.328067	-3.04816
Trib2	NM_144551	4.23E-06	1.55995	-1.55995	7.79E-06	0.325397	-3.07317
Ddah2	NM_016765	1.97E-10	0.343448	-2.91165	1.90E-05	0.32413	-3.08518
Kif14	NM_001081258	0.000885292	0.697109	-1.4345	5.94E-06	0.323613	-3.09011
Polr3g	NM_001081176	5.34E-05	0.586453	-1.70517	7.54E-06	0.321643	-3.10904
Prr11	NM_175563	1.26E-06	0.575905	-1.7364	5.46E-06	0.309264	-3.23348
Cdca7l	NM_146040	0.000793592	0.734217	-1.36199	4.08E-07	0.308677	-3.23963
Fam60a	NM_019643	1.07E-07	0.450564	-2.21944	2.21E-07	0.307664	-3.2503
Kif4	NM_008446	6.10E-05	0.550755	-1.81569	5.61E-05	0.303607	-3.29373
Tbl2	NM_013763	7.03E-09	0.503419	-1.98642	3.77E-07	0.30173	-3.31422
Cdca7	NM_025866	1.66E-05	0.676605	-1.47797	9.50E-06	0.297877	-3.35709
D4Bwg0951e	BC030404	0.000775172	0.578783	-1.72776	1.96E-05	0.290364	-3.44395
Nop56	NM_024193	2.64E-07	0.563678	-1.77406	6.08E-08	0.287885	-3.47361
Wrb	NM_207301	3.31E-05	0.608307	-1.64391	2.27E-07	0.283942	-3.52184
Hk2	NM_013820	2.99E-06	0.440343	-2.27096	1.24E-08	0.282627	-3.53823
Fbxo5	NM_025995	7.91E-06	0.460977	-2.16931	1.26E-05	0.282168	-3.54399
Gas5	NR_002840	2.75E-05	0.703798	-1.42086	8.02E-05	0.277741	-3.60048
Dkc1	NM_001030307	4.60E-06	0.63341	-1.57876	2.41E-07	0.27729	-3.60633
Ppat	NM_172146	3.90E-06	0.607983	-1.64478	5.92E-09	0.269471	-3.71097
Cenpf	NM_001081363	2.00E-05	0.564058	-1.77287	1.15E-06	0.267342	-3.74052
Fam64a	NM_144526	9.86E-08	0.492452	-2.03066	1.71E-05	0.261779	-3.82001
Kif2c	NM_134471	5.46E-07	0.659194	-1.517	4.00E-05	0.260823	-3.83402
Racgap1	NM_012025	1.03E-07	0.499836	-2.00065	9.19E-06	0.259766	-3.84961
Myc	NM_010849	2.97E-07	0.561635	-1.78052	2.47E-07	0.249729	-4.00434
Nfib	NM_001113209	1.48E-06	0.284052	-3.52048	4.77E-06	0.209931	-4.76347

Supplementary Table 2

Gene Symbol	RefSeq	p-value(p53wt, Adr vs. p53wt, Ctr)	Ratio(p53wt, Adr vs. p53wt, Ctr)	Fold-Change(p53wt, Adr vs. p53wt, Ctr)
Vnn1	NM_011704	2.81E-08	18.8559	18.8559
Lynx1	NM_011838	2.31E-08	9.45909	9.45909
Bnc1	NM_007562	8.10E-09	9.05853	9.05853
Nudt11	NM_021431	3.34E-05	8.34066	8.34066
Icam1	NM_010493	7.84E-07	6.42156	6.42156
Fam180a	BC064033	4.23E-06	6.26339	6.26339
Klhdc1	NM_178253	7.23E-07	6.06887	6.06887
Tmem22	NM_001101483	6.54E-07	5.81847	5.81847
Car5b	NM_181315	9.33E-09	5.28407	5.28407
Slc40a1	NM_016917	1.15E-05	5.28116	5.28116
Orai2	NM_178751	1.13E-07	4.92271	4.92271
Esr2	NM_207707	8.28E-08	4.60834	4.60834
S100a7a	NM_199422	9.06E-06	4.58944	4.58944
F11r	NM_172647	5.66E-07	4.5607	4.5607
Rnf213	AK173199	2.92E-06	4.54579	4.54579
2810055F11Rik	NM_026038	9.83E-09	4.53158	4.53158
Crot	NM_023733	1.04E-08	4.32223	4.32223
Dennd2c	NM_177857	1.13E-06	4.26195	4.26195
Mreg	NM_001005423	3.48E-09	4.18771	4.18771
Pitpnc1	NM_145823	4.47E-07	4.08069	4.08069
Dusp28	NM_175118	1.99E-08	3.6653	3.6653
Cops3	NM_011991	7.73E-08	3.63408	3.63408
Areg	NM_009704	1.92E-07	3.61892	3.61892
Tcp11l2	NM_146008	2.29E-05	3.59165	3.59165
Klrg2	NM_001033171	7.56E-07	3.59121	3.59121
Cd14	NM_009841	4.05E-07	3.44966	3.44966
Gdf6	NM_013526	3.72E-05	3.42935	3.42935
Ldhb	NM_008492	3.35E-06	3.42052	3.42052
Ifi30	NM_023065	1.68E-09	3.38258	3.38258
Has3	NM_008217	6.24E-09	3.35188	3.35188
Ankrd13d	NM_026720	7.41E-07	3.33401	3.33401
Nanos1	NM_178421	2.82E-08	3.29215	3.29215
Glt8d2	NM_029102	1.30E-05	3.29111	3.29111
Gm16516	NR_027800	2.46E-09	3.26784	3.26784
Sfmbt1	NM_019460	7.86E-09	3.21874	3.21874
Fam70a	NM_172930	2.62E-05	3.15333	3.15333
Pml	NM_178087	9.17E-08	3.12	3.12
Efna1	NM_010107	9.97E-05	3.02747	3.02747
Agpat5	NM_026792	7.33E-07	3.01391	3.01391
Bmp8a	NM_007558	2.67E-07	3.00931	3.00931
Lass4	NM_026058	1.43E-07	3.0076	3.0076

Fam49a	NM_029758	0.00020255	3.00426	3.00426
Hagh	NM_024284	6.36E-09	2.99946	2.99946
Krt19	NM_008471	0.000111013	2.95405	2.95405
Pigf	NM_008838	3.67E-08	2.95093	2.95093
Nsun7	NM_027602	3.77E-08	2.9419	2.9419
Nfkbie	NM_008690	6.55E-06	2.94068	2.94068
Cdk19	NM_001168304	1.80E-08	2.93655	2.93655
C77370	DQ975302	5.45E-05	2.90278	2.90278
Tshr	NM_011648	1.98E-05	2.89045	2.89045
Itga6	NM_008397	0.000385691	2.88605	2.88605
Mmp28	NM_080453	1.92E-07	2.85814	2.85814
Ifnz	NM_197889	8.93E-06	2.85074	2.85074
4432412L15Rik	NM_028877	3.40E-06	2.83573	2.83573
2010011I20Rik	NM_025912	1.60E-05	2.81517	2.81517
Etfdh	NM_025794	2.99E-08	2.78924	2.78924
Dgat2	NM_026384	3.32E-06	2.78639	2.78639
Adssl1	NM_007421	1.64E-06	2.77489	2.77489
Cetn4	NM_145825	2.49E-05	2.76458	2.76458
Lrrc39	NM_175413	0.000111739	2.7635	2.7635
Rpe	NM_025683	8.45E-07	2.75331	2.75331
Efna3	NM_010108	2.71E-06	2.75073	2.75073
Tnfrsf23	NM_024290	3.01E-05	2.74501	2.74501
Spint1	NM_016907	1.70E-06	2.73078	2.73078
Gm13271	NM_001085528	2.55E-07	2.72636	2.72636
Cda	NM_028176	1.32E-05	2.72498	2.72498
Ypel3	NM_026875	1.57E-07	2.7152	2.7152
9030625A04Rik	BC116748	6.71E-05	2.70293	2.70293
Plcx2	NM_001134480	0.00012733	2.64458	2.64458
Slc9a2	NM_001033289	0.000182486	2.62143	2.62143
Ralgds	NM_001145835	2.67E-05	2.60394	2.60394
D330028D13Rik	NM_172727	3.74E-05	2.59065	2.59065
Crat	NM_007760	4.14E-07	2.56607	2.56607
Jup	NM_010593	0.000621924	2.54854	2.54854
Slc25a40	NM_178766	7.62E-06	2.54567	2.54567
Ern1	NM_023913	6.86E-06	2.53678	2.53678
Deb1	NM_026794	3.87E-07	2.52896	2.52896
Unc13c	NM_001081153	0.000145478	2.52378	2.52378
Tnfrsf26	NM_175649	5.58E-06	2.52159	2.52159
Klhl24	NM_029436	0.000124734	2.51974	2.51974
AK129341	BC119072	2.01E-08	2.5194	2.5194
Scn4b	NM_001013390	0.000217969	2.51746	2.51746
Rab15	NM_134050	1.60E-07	2.51602	2.51602
Pias3	NM_146135	8.06E-05	2.50665	2.50665

Acadvl	NM_017366	4.28E-07	2.50447	2.50447
Fbxo33	NM_001033156	5.74E-07	2.50363	2.50363
Thyn1	NM_144543	2.62E-06	2.49991	2.49991
Decr2	NM_011933	4.70E-05	2.48189	2.48189
Dcbld1	NM_025705	6.04E-06	2.46905	2.46905
Ntn4	NM_021320	6.73E-06	2.42785	2.42785
B630005N14Rik	NM_175312	5.11E-07	2.4112	2.4112
Abtb1	NM_030251	7.73E-06	2.39459	2.39459
Frmd8	NM_026169	9.85E-06	2.38538	2.38538
Gdf15	NM_011819	3.07E-05	2.36668	2.36668
Endod1	NM_028013	2.84E-05	2.36364	2.36364
Ifitm3	NM_025378	0.000313402	2.36301	2.36301
1810020D17Rik	NM_001177945	2.45E-05	2.3566	2.3566
Fgfbp3	NM_028263	5.19E-08	2.35353	2.35353
Armc7	NM_177778	5.93E-07	2.34872	2.34872
Sh3bgrl3	NM_080559	1.66E-07	2.34225	2.34225
Tmem184c	NM_145599	3.08E-06	2.34077	2.34077
Gm9949	ENSMUST00000067743	2.01E-07	2.34027	2.34027
2610301B20Rik	NM_026005	6.35E-07	2.33895	2.33895
Kcnj15	NM_019664	1.57E-05	2.32498	2.32498
Ppp1r12b	NM_001081307	7.09E-06	2.30822	2.30822
Ggta1	NM_010283	4.89E-07	2.30486	2.30486
Msh6	NM_010830	1.80E-05	2.3037	2.3037
Rapgef3	NM_001177810	5.85E-08	2.29865	2.29865
Antxr2	NM_133738	1.34E-05	2.29239	2.29239
Cyb561	NM_007805	2.15E-06	2.28294	2.28294
Rhbdf2	NM_172572	9.59E-06	2.28115	2.28115
Eno2	NM_013509	3.07E-07	2.27531	2.27531
Rab43	NM_001039394	1.15E-05	2.27512	2.27512
Loxl4	NM_001164311	2.76E-06	2.27342	2.27342
Esrp2	NM_176838	1.38E-05	2.27229	2.27229
Pold4	NM_027196	8.48E-05	2.27062	2.27062
Gm4979	NM_001142411	1.34E-05	2.27024	2.27024
6330416L07Rik	NM_176962	6.17E-06	2.26312	2.26312
Zcchc11	NM_175472	4.81E-05	2.26239	2.26239
Ptgr2	NM_029880	1.41E-05	2.25124	2.25124
Arhgef19	NM_172520	2.10E-05	2.25052	2.25052
Irf5	NM_012057	6.70E-06	2.24985	2.24985
Plekha7	NM_172743	6.06E-07	2.24741	2.24741
Flt3l	NM_013520	1.08E-05	2.23751	2.23751
Abcb9	NM_019875	1.97E-07	2.23672	2.23672
Ephb6	NM_001146351	4.58E-05	2.23588	2.23588
Plk1s1	NM_001033298	4.87E-05	2.23451	2.23451

Srxn1	NM_029688	1.14E-05	2.22147	2.22147
Tmbim4	NM_026617	3.33E-09	2.2207	2.2207
2310047M10Rik	NM_028005	2.90E-05	2.21745	2.21745
R74862	NR_015529	0.000189636	2.21691	2.21691
Aox1	NM_009676	4.90E-06	2.20962	2.20962
Ogfr1	NM_001081079	9.96E-06	2.20289	2.20289
Calhm2	NM_133746	1.68E-05	2.2022	2.2022
Bcam	NM_020486	1.56E-06	2.19554	2.19554
Wdr61	NM_001025375	5.58E-06	2.18023	2.18023
Bmp2	NM_007553	4.43E-05	2.17964	2.17964
Zfp219	NM_027248	4.95E-07	2.17686	2.17686
4833427G06Rik	BC048587	4.36E-06	2.17346	2.17346
Hsd17b4	NM_008292	5.93E-06	2.16899	2.16899
Eed	NM_021876	4.99E-07	2.16793	2.16793
Dpyd	NM_170778	3.27E-05	2.16762	2.16762
Pion	NM_175437	3.11E-05	2.16454	2.16454
Edem1	NM_138677	2.47E-07	2.16276	2.16276
Rapgef6	NM_175258	1.06E-05	2.15777	2.15777
Gatsl3	NM_028022	0.000340568	2.15199	2.15199
Mocs1	NM_020042	3.15E-05	2.14407	2.14407
Lrfn3	NM_175478	6.76E-05	2.14159	2.14159
Krtap3-2	NM_025720	1.40E-06	2.13783	2.13783
Slc29a3	NM_023596	1.50E-06	2.13687	2.13687
Tmem141	NM_001109993	2.39E-07	2.12963	2.12963
Lpcat3	NM_145130	2.78E-06	2.12437	2.12437
Trim21	NM_009277	1.59E-06	2.11879	2.11879
Zfp707	NM_001081065	7.27E-06	2.10995	2.10995
Cpt2	NM_009949	7.92E-05	2.10901	2.10901
Slc5a8	NM_145423	0.000206556	2.09509	2.09509
Hist1h2ac	NM_178189	1.95E-05	2.08841	2.08841
Al837181	NR_024189	3.76E-07	2.08678	2.08678
Crebl2	NM_177687	4.62E-06	2.08615	2.08615
Abcc5	NM_013790	0.000801167	2.07973	2.07973
Vwa5a	NM_172767	0.000433459	2.07588	2.07588
Ube2h	NM_009459	3.45E-05	2.07331	2.07331
Syap1	NM_025932	2.34E-07	2.0733	2.0733
Cdkl5	NM_001024624	6.31E-08	2.07075	2.07075
Erich1	NM_001034862	6.15E-05	2.06776	2.06776
1700047I17Rik1	BC049669	3.09E-05	2.06605	2.06605
Atp11c	NM_001037863	1.51E-06	2.06426	2.06426
Pla2g6	NM_016915	4.26E-07	2.0617	2.0617
Plekhg4	NM_001081333	2.11E-05	2.06077	2.06077
Rom1	NM_009073	2.47E-05	2.0555	2.0555

Sh3d20	NM_183288	1.45E-06	2.05478	2.05478
Zfp456	NM_001001186	1.77E-06	2.05338	2.05338
Galnt3	NM_015736	0.000358223	2.05232	2.05232
Oplah	NM_153122	9.27E-06	2.05009	2.05009
Jhdm1d	NM_001033430	0.000329049	2.04866	2.04866
Ppef1	NM_011147	0.000362177	2.04356	2.04356
BC005624	NM_144885	4.34E-07	2.03924	2.03924
Irak3	NM_028679	7.49E-07	2.03779	2.03779
Sft2d2	NM_145512	6.65E-07	2.037	2.037
Mtmr1	NM_016985	2.30E-07	2.03652	2.03652
Xkr8	NM_201368	6.55E-06	2.0358	2.0358
Mfsd6	NM_133829	7.34E-06	2.02308	2.02308
Nsmaf	NM_010945	2.33E-05	2.02248	2.02248
Alas1	NM_020559	7.48E-05	2.01979	2.01979
Golga7	NM_020585	4.17E-07	2.01721	2.01721
Glud1	NM_008133	9.48E-07	2.01682	2.01682
lpmk	NM_027184	8.24E-07	2.00696	2.00696
Mri1	NM_026423	2.18E-07	2.00591	2.00591
Rassf3	NM_138956	1.63E-05	2.00459	2.00459
Fgf13	NM_010200	1.00E-05	2.00264	2.00264
Slc35e3	NM_029875	0.000466215	2.00132	2.00132
Cep164	NM_001081373	2.57E-05	1.99953	1.99953
Nat9	NM_025400	3.94E-05	1.99496	1.99496
Tmem229b	NM_178745	1.68E-06	1.99348	1.99348
Leng1	NM_027203	1.96E-05	1.98949	1.98949
Rai2	NM_198409	0.00034221	1.98496	1.98496
Dusp2	NM_010090	3.76E-05	1.98456	1.98456
Upf3b	NM_026573	3.09E-05	1.97485	1.97485
Ubac1	NM_133835	1.05E-06	1.97463	1.97463
Map2k3	NM_008928	2.28E-05	1.96947	1.96947
Akr1b8	NM_008012	0.00022267	1.96126	1.96126
Cln8	NM_012000	2.08E-05	1.95544	1.95544
Dexi	NM_021428	2.32E-07	1.94879	1.94879
Nfkb2	NM_019408	3.57E-06	1.94666	1.94666
Prcp	NM_028243	9.50E-06	1.94196	1.94196
Ifi35	NM_027320	2.90E-05	1.93912	1.93912
Ccs	NM_016892	8.87E-06	1.93781	1.93781
Fitm2	NM_173397	3.75E-07	1.9318	1.9318
Gm266	NM_001033248	3.78E-05	1.93129	1.93129
Dhh	NM_007857	6.08E-07	1.92279	1.92279
Cstb	NM_007793	0.000319932	1.92128	1.92128
A530054K11Rik	NM_183146	3.48E-06	1.92048	1.92048
Ano5	NM_177694	0.000120304	1.91988	1.91988

Tnfaip2	NM_009396	0.000226929	1.91555	1.91555
Hmox1	NM_010442	0.00044855	1.91529	1.91529
Tspyl1	NM_009433	3.83E-07	1.91269	1.91269
Mafb	NM_010658	8.20E-05	1.91065	1.91065
Dnajb2	NM_001159883	6.28E-07	1.90861	1.90861
Ssx2ip	NM_138744	6.50E-07	1.90816	1.90816
Arvcf	NM_033474	5.02E-06	1.90421	1.90421
Larp6	NM_026235	3.07E-05	1.90392	1.90392
Kif13a	NM_010617	2.27E-05	1.90372	1.90372
Lgals8	NM_018886	1.94E-05	1.90254	1.90254
Spr	NM_011467	1.71E-06	1.89818	1.89818
Parg	NM_011960	5.75E-07	1.89773	1.89773
Casp7	NM_007611	1.74E-06	1.89769	1.89769
Hacl1	NM_019975	1.03E-05	1.89368	1.89368
Card10	NM_130859	0.00023344	1.89139	1.89139
Scx	NM_198885	0.000787925	1.89098	1.89098
Ttc23	NM_025905	2.85E-05	1.89092	1.89092
Fam55c	NM_001134457	0.000112267	1.8847	1.8847
Rint1	NM_177323	5.97E-05	1.88422	1.88422
Bet1l	NM_018742	2.93E-06	1.88196	1.88196
Spns1	NM_023712	4.75E-07	1.88092	1.88092
Mafk	NM_010757	4.02E-05	1.87958	1.87958
Agrn	NM_021604	7.50E-05	1.87582	1.87582
Tmem88	NM_025915	0.000468002	1.87173	1.87173
Chrd	NM_009893	0.00020919	1.86487	1.86487
Etnk1	NM_029250	1.47E-05	1.86169	1.86169
Morc4	NM_029413	9.12E-06	1.86017	1.86017
Sstr2	NM_009217	6.14E-05	1.85699	1.85699
Rab24	NM_009000	4.10E-07	1.85167	1.85167
Nek3	NM_001162947	0.000230535	1.84986	1.84986
Gm6829	XM_892769	1.29E-08	1.84896	1.84896
Mosc2	NM_133684	0.000158407	1.84202	1.84202
Pcbd1	NM_025273	0.000258984	1.8404	1.8404
Zfp423	NM_033327	5.58E-05	1.8352	1.8352
2010002N04Rik	NM_134133	6.79E-06	1.82865	1.82865
Gal3st4	NM_001033416	6.52E-05	1.82751	1.82751
Ndufb6	NM_001033305	9.47E-07	1.82481	1.82481
Fam82b	NM_025476	0.000490403	1.82316	1.82316
Stx11	NM_029075	5.80E-06	1.81989	1.81989
Ascl2	NM_008554	9.27E-06	1.81254	1.81254
Tk2	NM_021028	4.99E-05	1.80911	1.80911
Tubb2c	NM_146116	2.91E-06	1.80887	1.80887
Gpkow	NM_173747	3.51E-05	1.80652	1.80652

Hexb	NM_010422	3.12E-05	1.80206	1.80206
	2-三月 NM_145486	3.36E-05	1.80197	1.80197
Cebpa	NM_007678	6.80E-05	1.79926	1.79926
Glrx5	NM_028419	1.18E-05	1.79735	1.79735
Tspan12	NM_173007	0.000152556	1.79578	1.79578
Eml5	NM_001081191	0.000148754	1.79517	1.79517
Glrp1	NM_008132	8.00E-06	1.79263	1.79263
Leo1	NM_001039522	2.98E-07	1.79156	1.79156
Spryd4	NM_025716	0.000856664	1.7873	1.7873
Uhmk1	NM_010633	8.36E-06	1.78726	1.78726
Snx2	NM_026386	2.22E-05	1.78538	1.78538
2310057M21Rik	BC044749	3.35E-05	1.78381	1.78381
Ercc1	NM_007948	3.22E-07	1.78246	1.78246
Zadh2	NM_146090	5.24E-05	1.7802	1.7802
Rnf135	NM_028019	1.71E-05	1.77857	1.77857
Stxbp6	NM_144552	0.000163507	1.77701	1.77701
Kif16b	NM_001081133	0.000741134	1.77141	1.77141
1300014I06Rik	NM_025831	0.000269914	1.77033	1.77033
Dolk	NM_177648	1.15E-05	1.76759	1.76759
AU042651	NM_177809	5.35E-05	1.76663	1.76663
Homez	NM_183174	2.05E-05	1.76614	1.76614
Gja3	NM_016975	3.78E-05	1.76344	1.76344
Clcn2	NM_009900	2.16E-05	1.76152	1.76152
Ppp2r3c	NM_021529	0.000231908	1.7597	1.7597
Ankrd10	NR_030779	2.66E-06	1.75375	1.75375
Ank1	NM_001110783	7.47E-05	1.74763	1.74763
Krit1	NR_033173	0.000265523	1.74534	1.74534
Scamp1	NM_029153	0.000863616	1.745	1.745
Rnf215	NM_027859	3.95E-05	1.74176	1.74176
Hhex	NM_008245	0.000137321	1.74087	1.74087
Zcchc2	NM_001122676	1.63E-05	1.73218	1.73218
Emd	NM_007927	1.28E-05	1.73201	1.73201
Fam71f1	NM_207258	9.15E-07	1.73151	1.73151
Fam135a	NM_026604	6.22E-05	1.73113	1.73113
C1galt1	NM_052993	2.61E-06	1.72453	1.72453
Josd2	NM_025368	3.70E-06	1.72363	1.72363
Fbrsl1	NM_001142642	7.40E-05	1.72359	1.72359
Auh	NM_016709	0.000150509	1.72351	1.72351
Osbpl6	NM_145525	0.000186319	1.72314	1.72314
Tmem35	NM_026239	1.53E-05	1.72246	1.72246
Fam131a	BC092532	0.000218506	1.71862	1.71862
Slc12a7	NM_011390	2.45E-05	1.71816	1.71816
Mak16	NM_026453	2.60E-05	1.71094	1.71094

Irak4	NM_029926	0.000112912	1.70995	1.70995
Foxo1	NM_019739	0.000400779	1.7097	1.7097
Cyth1	NM_011180	7.78E-05	1.70792	1.70792
Nat15	NM_029090	1.09E-05	1.70762	1.70762
Gldn	NM_177350	0.000455483	1.7074	1.7074
Ube2q2	NM_180600	1.47E-05	1.7043	1.7043
Tob1	NM_009427	5.81E-07	1.70299	1.70299
Pnrc1	NM_001033225	3.12E-06	1.70292	1.70292
Sccpdh	NM_178653	0.000152326	1.69827	1.69827
Mrps31	NM_020560	5.69E-05	1.69154	1.69154
Slc9a1	NM_016981	4.16E-05	1.69147	1.69147
Ubl3	NM_011908	7.09E-07	1.68945	1.68945
Adh5	NM_007410	0.000500885	1.68894	1.68894
Naa35	NM_030153	3.09E-05	1.6888	1.6888
Bsdc1	NM_133889	3.42E-05	1.68781	1.68781
Akr1b10	NM_172398	0.000316744	1.68733	1.68733
Tspan33	NM_146173	1.44E-05	1.68604	1.68604
Dusp8	ENSMUST00000039926	0.00019519	1.683	1.683
Rhbdl2	NM_183163	0.000451834	1.68032	1.68032
Zranb1	NM_207302	2.09E-06	1.67845	1.67845
Ubr3	NM_001081548	1.06E-05	1.6774	1.6774
Lonp2	NM_025827	0.000113221	1.67643	1.67643
Tyw1	NM_001015876	6.75E-07	1.67245	1.67245
Myo18a	NM_011586	7.76E-05	1.67076	1.67076
Eif2c4	NM_153177	1.68E-05	1.66817	1.66817
Aqp11	NM_175105	5.34E-05	1.6658	1.6658
Magel2	NM_013779	8.46E-05	1.6649	1.6649
Med12l	NM_177855	6.24E-06	1.66418	1.66418
Prickle3	NM_175097	1.05E-05	1.66262	1.66262
Nudt7	NM_024437	0.000210283	1.66048	1.66048
Abr	NM_198895	1.17E-05	1.65994	1.65994
Mmp25	NM_001033339	1.79E-05	1.658	1.658
Ethe1	NM_023154	7.93E-06	1.65591	1.65591
Hmgcl	NM_008254	8.01E-06	1.65487	1.65487
Atp6v1b2	NM_007509	6.19E-06	1.65317	1.65317
Lym5	NM_001163628	7.59E-05	1.64782	1.64782
Xylt2	NM_145828	6.57E-06	1.64503	1.64503
B4galt1	NM_022305	1.02E-06	1.64424	1.64424
Mapk1ip1	NM_001045483	0.000391436	1.64276	1.64276
Ehhadh	NM_023737	0.000164474	1.64227	1.64227
Ang	NM_001161731	3.14E-05	1.64211	1.64211
Gse1	NM_198671	9.48E-06	1.63938	1.63938
0610031J06Rik	NM_020003	5.90E-05	1.63903	1.63903

Icmt	NM_133788	0.000103828	1.63642	1.63642
Gm216	BC150857	0.000361986	1.63567	1.63567
Ifitm2	NM_030694	1.85E-06	1.63125	1.63125
G930009F23Rik	AK145170	6.32E-05	1.6287	1.6287
Mrpl39	NM_017404	1.05E-06	1.62791	1.62791
Inpp1	NM_008384	0.000562843	1.62763	1.62763
C85492	NM_153540	0.000696129	1.62637	1.62637
Serpinb10	NM_198028	0.000529409	1.62207	1.62207
Rc3h1	NM_001024952	5.91E-05	1.61556	1.61556
Pgm1	NM_025700	2.50E-07	1.61293	1.61293
Vps36	NM_027338	0.000469786	1.61197	1.61197
Fam54b	BC026808	2.18E-06	1.61105	1.61105
Dsel	NM_001081316	8.93E-06	1.60729	1.60729
Rnf2	NM_011277	6.52E-07	1.60702	1.60702
Esrra	NM_007953	4.97E-05	1.60552	1.60552
Llg12	NM_145438	7.68E-05	1.60517	1.60517
Hprt	NM_013556	7.06E-05	1.60065	1.60065
Ccnc	NM_016746	0.000232878	1.59174	1.59174
Dirc2	NM_153550	3.65E-05	1.59102	1.59102
Tmem192	NM_028427	8.80E-07	1.58875	1.58875
Klhl21	NM_001033352	0.000116608	1.58858	1.58858
Ndufc2	NM_024220	0.000178357	1.58757	1.58757
Ino80b	NM_023547	9.60E-07	1.58345	1.58345
Lrp5	NM_008513	4.83E-05	1.58148	1.58148
Smpd2	NM_009213	1.99E-05	1.58088	1.58088
Dnajc18	NM_029669	0.00080912	1.57864	1.57864
Srl	NM_175347	9.18E-05	1.5784	1.5784
Strbp	NM_009261	0.00019091	1.57744	1.57744
Met	NM_008591	0.000363676	1.57688	1.57688
Slc22a23	NM_001033167	5.80E-05	1.57417	1.57417
Tmx4	NM_029148	0.000309344	1.57381	1.57381
Glis2	NM_031184	0.000146875	1.57243	1.57243
Synpo2	NM_080451	0.000303695	1.57155	1.57155
Tor2a	NM_152800	4.32E-06	1.57126	1.57126
Prr16	NM_001081224	1.86E-07	1.56986	1.56986
Fam32a	NM_026455	9.63E-06	1.56547	1.56547
Vps41	NM_172120	0.000292045	1.56126	1.56126
Vamp5	NM_016872	4.17E-05	1.56124	1.56124
Mfap3l	NM_027756	0.000474517	1.56017	1.56017
Cox8a	NM_007750	4.65E-05	1.55979	1.55979
Pla2g12a	NM_183423	5.26E-06	1.55891	1.55891
Tor1b	NM_133673	8.58E-05	1.55771	1.55771
Zfp777	NM_001081382	0.000286591	1.55759	1.55759

Gigyf2	NM_146112	1.28E-05	1.55735	1.55735
Pex13	NM_023651	9.05E-05	1.55735	1.55735
Zbtb8a	NM_028603	3.83E-07	1.55701	1.55701
Slc39a7	NM_008202	2.41E-05	1.55649	1.55649
Shisa2	NM_145463	5.36E-05	1.55479	1.55479
Hspb8	NM_030704	2.08E-05	1.55275	1.55275
Fam186b	NM_001081254	0.000340462	1.54967	1.54967
Tmem5	NM_153059	9.25E-06	1.5492	1.5492
Pip4k2b	NM_054051	0.00032142	1.5489	1.5489
Sag	NM_009118	0.000168537	1.5484	1.5484
Atg3	NM_026402	0.000209953	1.54794	1.54794
Abcb10	NM_019552	4.52E-05	1.5475	1.5475
Rab21	NM_024454	7.67E-05	1.54618	1.54618
Cox4i1	NM_009941	1.31E-05	1.54391	1.54391
Rhbdd3	NM_177370	1.10E-06	1.54165	1.54165
Hsbp1	NM_024219	0.000305514	1.54146	1.54146
Prdm11	NM_001177536	0.000165016	1.53876	1.53876
Ergic3	NM_025516	0.000100354	1.53677	1.53677
Mon2	NM_001163024	0.000217769	1.53595	1.53595
Tdrd7	NM_146142	0.00043113	1.53589	1.53589
BC017643	BC017643	3.46E-05	1.53186	1.53186
Icam5	NM_008319	1.77E-05	1.531	1.531
Nudcd2	NM_026023	9.18E-06	1.52785	1.52785
Lypla1	NM_008866	8.80E-06	1.52734	1.52734
Gas2l1	NM_030228	0.000698557	1.52704	1.52704
Ifngr1	NM_010511	2.07E-05	1.52584	1.52584
Gm13033	AK142202	6.61E-05	1.52567	1.52567
Atp6v0d1	NM_013477	0.000184511	1.52415	1.52415
Etl4	NM_001177631	9.97E-05	1.52388	1.52388
Slc25a20	NM_020520	0.000121177	1.52056	1.52056
Sec14l2	NM_144520	1.15E-05	1.51987	1.51987
Sdcbp	NM_001098227	7.17E-08	1.51898	1.51898
BC003267	NM_145591	2.78E-05	1.518	1.518
Tmem53	NM_026837	0.000114453	1.51737	1.51737
Crtc3	NM_173863	0.000725612	1.51699	1.51699
Vps28	NM_025842	2.60E-05	1.51649	1.51649
Nlrc3	NM_001081280	0.000584558	1.51639	1.51639
Jkamp	NM_024205	3.23E-05	1.51613	1.51613
Mpg	NM_010822	6.71E-05	1.51568	1.51568
Tmem20	NM_175507	3.83E-06	1.51507	1.51507
Polrmt	NM_172551	8.24E-06	1.51236	1.51236
Nradd	NM_026012	0.000468052	1.51051	1.51051
Atrn	NM_009730	0.000307157	1.50878	1.50878

Ptger2	NM_008964	0.000218141	1.50873	1.50873
D030074E01Rik	NM_177038	7.82E-06	1.50854	1.50854
Vps53	NM_026664	4.28E-06	1.50786	1.50786
Gde1	NM_019580	0.000116929	1.50757	1.50757
Adam23	NM_011780	0.000467552	1.50685	1.50685
Nudt3	NM_019837	6.04E-06	1.50368	1.50368
Chuk	NM_007700	0.000220103	1.50175	1.50175
Tbx2	NM_009324	0.000937302	1.49891	1.49891
Tjp1	NM_009386	0.000301954	1.4984	1.4984
2010007H12Rik	BC052497	2.04E-05	1.49767	1.49767
Hip1r	NM_145070	1.00E-05	1.49319	1.49319
Acads	NM_007383	0.000964218	1.49144	1.49144
Pon2	NM_183308	0.000310144	1.49083	1.49083
Phtf1	NM_013629	0.000136517	1.48847	1.48847
Rgs10	NM_026418	0.000345894	1.4884	1.4884
Disc1	NM_174854	7.07E-05	1.4878	1.4878
Bax	NM_007527	6.06E-05	1.48663	1.48663
2900052L18Rik	ENSMUST00000062283	5.00E-06	1.48472	1.48472
Lipa	NM_021460	0.000113354	1.48293	1.48293
Abl2	NM_001136104	1.43E-07	1.48083	1.48083
Anapc2	NM_175300	1.67E-05	1.48005	1.48005
A2ld1	NM_145466	0.000179255	1.47993	1.47993
Hadhb	NM_145558	4.18E-05	1.47986	1.47986
Ogfod2	NM_025671	3.39E-05	1.4781	1.4781
Itpkc	NM_181593	0.000143401	1.47732	1.47732
Ppapdc2	NM_028922	0.000184836	1.47277	1.47277
AA415398	BC076608	4.19E-05	1.4724	1.4724
Rhbdl3	NM_139228	4.98E-05	1.47205	1.47205
Mpzl1	NM_001083897	2.79E-07	1.47135	1.47135
Ccpg1	NM_001114328	0.000382636	1.47111	1.47111
Dok4	NM_053246	0.000343288	1.47032	1.47032
Rrn3	NM_001039521	8.53E-08	1.46882	1.46882
BC018507	NM_144837	0.000242783	1.46449	1.46449
Arsk	NM_029847	0.000146077	1.46235	1.46235
Tspan9	NM_175414	0.000410361	1.46065	1.46065
Glo1	NM_025374	6.13E-05	1.46045	1.46045
Ptpn1	NM_011201	0.000227532	1.45984	1.45984
Tmem25	NM_027865	9.04E-05	1.45909	1.45909
Slc25a36	NM_138756	0.000840688	1.45796	1.45796
Preb	NM_016703	9.46E-05	1.45491	1.45491
Zc3h12c	NM_001162921	0.000109016	1.44781	1.44781
Gm5785	ENSMUST00000077293	0.000481999	1.44186	1.44186
Zfp64	NM_009564	2.91E-06	1.43686	1.43686

Cobra1	NM_021393	3.14E-06	1.43621	1.43621
Tekt2	NM_011902	0.000767321	1.43514	1.43514
Hsf4	NM_011939	0.000424705	1.43418	1.43418
Tmem181a	NM_001033178	4.71E-05	1.42817	1.42817
Tysnd1	NM_027912	0.000301266	1.4266	1.4266
Cdc34	NM_177613	0.000234637	1.42319	1.42319
Unc119b	NM_175352	2.98E-05	1.42118	1.42118
Atp6v1h	NM_133826	0.000346545	1.41855	1.41855
Slc48a1	NM_026353	0.000488201	1.41714	1.41714
Prdxdd1	NM_001163454	0.000164776	1.4145	1.4145
2510009E07Rik	NM_001001881	0.000525003	1.41302	1.41302
Tmem18	NM_172049	4.21E-05	1.41117	1.41117
Rps27l	NM_026467	0.000149914	1.40938	1.40938
Bcl2l1	NM_009743	0.000234472	1.40695	1.40695
Pgm2	NM_028132	0.000281728	1.40653	1.40653
2310028O11Rik	NM_001163006	6.99E-05	1.40411	1.40411
Ero1lb	NM_026184	0.000848197	1.40068	1.40068
Kctd11	NM_153143	0.000457564	1.39907	1.39907
Hbp1	NM_153198	0.000862962	1.39865	1.39865
Mpv17l2	NM_183170	0.000621049	1.39694	1.39694
Pmpca	NM_173180	2.92E-06	1.39505	1.39505
Gna13	NM_010303	1.41E-05	1.39276	1.39276
Stxbp3a	NM_011504	0.000430396	1.39149	1.39149
Reep5	NM_007874	0.000126691	1.38899	1.38899
Llph	NM_025431	0.00012544	1.38867	1.38867
Drap1	NM_024176	0.000128966	1.38766	1.38766
Cdyl	NM_009881	5.61E-05	1.38686	1.38686
Rnaset2a	NM_001083938	5.84E-05	1.38575	1.38575
Tgfa	NM_031199	0.000806127	1.38299	1.38299
Baiap2l1	NM_025833	0.000622864	1.37933	1.37933
Cerk	NM_145475	8.93E-05	1.37932	1.37932
Htr2a	NM_172812	0.000642306	1.37591	1.37591
Pitpna	NM_008850	2.25E-05	1.36982	1.36982
Ndufa11	NM_027244	1.17E-05	1.36939	1.36939
Bcap31	NM_012060	0.000149469	1.36918	1.36918
Appl1	NM_145221	5.10E-05	1.36841	1.36841
Dynlrb1	NM_025947	6.41E-07	1.36563	1.36563
Abhd13	NM_001081119	0.000527761	1.36428	1.36428
Mapre1	NM_007896	7.83E-06	1.36236	1.36236
Rnf103	NM_009543	2.79E-05	1.35706	1.35706
Cd151	NM_009842	0.000808972	1.35357	1.35357
Grhpr	NM_080289	0.000360126	1.35185	1.35185
Bend7	NM_178663	0.00012581	1.35146	1.35146

9130401M01Rik	BC050895	0.000130012	1.34894	1.34894
Atp1b3	NM_007502	1.40E-05	1.34815	1.34815
Hebp1	NM_013546	1.79E-05	1.34738	1.34738
Atp6ap1	NM_018794	1.85E-05	1.34658	1.34658
Nog	NM_008711	0.00055909	1.34539	1.34539
Lrch1	NM_001033439	0.000954426	1.34503	1.34503
Yif1a	NM_026553	0.000263974	1.34412	1.34412
Sema4g	NM_011976	0.000805506	1.34353	1.34353
Wbp1	NM_016757	6.35E-07	1.34309	1.34309
Tpst2	NM_009419	0.000797291	1.3428	1.3428
Hk1	NM_010438	0.000174186	1.34232	1.34232
Lrrc10	AF527781	0.000621876	1.34069	1.34069
Ctsb	NM_007798	8.08E-05	1.33874	1.33874
Chmp1b	NM_024190	0.000826665	1.33765	1.33765
2210404J11Rik	NM_001039552	0.000258456	1.33694	1.33694
Gnai2	NM_008138	0.00076633	1.33584	1.33584
Prkar1a	NM_021880	3.48E-05	1.33073	1.33073
Mir34a	NR_029751	0.000553429	1.32951	1.32951
Mir687	NR_030459	3.30E-07	1.32699	1.32699
Ly6e	NM_001164036	0.00021182	1.32695	1.32695
Osbpl10	NM_148958	0.000478118	1.32492	1.32492
Tmc6	NM_145439	9.08E-07	1.31941	1.31941
Rbm45	NM_153405	0.000622578	1.31761	1.31761
D17Wsu92e	NM_001033279	5.21E-06	1.3171	1.3171
Fh1	NM_010209	0.000179484	1.31444	1.31444
Zfp3	NM_177565	0.000472663	1.31227	1.31227
Peli3	NM_172835	0.000484043	1.31181	1.31181
Ncbp2	NM_026554	0.000550334	1.30996	1.30996
Rasl12	NM_001033158	0.000598851	1.30882	1.30882
Ccdc109b	NM_025779	0.000307364	1.30879	1.30879
Dbi	NM_001037999	4.48E-05	1.30754	1.30754
Rnh1	NM_001172101	7.32E-05	1.30238	1.30238
Slc17a5	NM_172773	3.58E-05	1.302	1.302
Eif4ebp1	NM_007918	0.000784587	1.29804	1.29804
Ptk2	NM_007982	0.000330821	1.28995	1.28995
Slc10a4	NM_173403	0.000922312	1.28856	1.28856
1700055D18Rik	ENSMUST00000095105	0.000920133	1.28855	1.28855
Gna11	NM_010301	0.000775388	1.28676	1.28676
Galnt1	NM_013814	0.000208706	1.28268	1.28268
Necap2	NM_025383	4.96E-06	1.27812	1.27812
Atg16l2	NM_001111111	9.10E-05	1.27475	1.27475
AI597479	NM_133818	0.000133571	1.27467	1.27467
Fam3a	NM_025473	0.000843483	1.27425	1.27425

Nppc	NM_010933	0.000160546	1.27185	1.27185
E330017A01Rik	BC099383	0.000321575	1.27123	1.27123
Ptges2	NM_133783	0.000366663	1.26359	1.26359
Dhrs1	NM_026819	0.00059197	1.26328	1.26328
2310033P09Rik	NM_024210	0.000511076	1.26067	1.26067
Dhx32	NM_133941	0.000251901	1.25741	1.25741
Rbm33	NM_028234	0.000450597	1.25443	1.25443
Cpeb3	NM_198300	0.000839846	1.24964	1.24964
Sdccag8	NM_029756	0.000888948	1.24767	1.24767
Itpa	NM_025922	0.000447848	1.24412	1.24412
Trpc4ap	NM_001163452	0.000900075	1.24013	1.24013
Ghitm	NM_078478	0.000430178	1.23782	1.23782
Brd7	NM_012047	2.14E-05	1.23193	1.23193
St8sia2	NM_009181	0.000148657	1.22375	1.22375
Ath1	NM_145387	0.000987649	1.21872	1.21872
Olfr616	NM_147099	0.000277586	1.21831	1.21831
Nadk	NM_138671	9.25E-05	1.21086	1.21086
Mrm1	NM_145433	1.86E-06	1.20967	1.20967
Mfn1	NM_024200	0.000584141	1.20566	1.20566
Hiatl1	NM_133680	0.000835738	1.20523	1.20523
Mafg	NM_010756	0.000769079	1.20327	1.20327
Ccdc79	NM_180958	0.000293305	1.19429	1.19429
Irx5	NM_018826	0.000654348	1.19111	1.19111
Smek2	NM_134034	0.000335619	1.17275	1.17275
Fam161b	BC062132	0.000592265	1.16302	1.16302
Tpt1	NM_009429	0.000324044	1.15555	1.15555
Gm12472	ENSMUST00000105153	0.000181547	1.13832	1.13832
Sec61a2	NM_021305	0.000275217	1.12889	1.12889
Serpinb11	NM_025867	0.000976275	1.10863	1.10863
Rnf4	NM_011278	0.000295401	1.08115	1.08115
Vmn2r-ps14	NR_002888	0.000764069	0.900466	-1.11054
Adamts3	NM_177872	0.000355277	0.894338	-1.11815
LOC100044416	XR_030619	0.000761154	0.873739	-1.14451
Vmn1r170	NM_001166722	0.000471114	0.872475	-1.14617
U2af2	NM_133671	0.000139728	0.865352	-1.1556
Phex	NM_011077	0.0002862	0.864914	-1.15618
Rrp1	NM_010925	0.000212256	0.864103	-1.15727
Ccdc59	NM_025602	0.000742096	0.857179	-1.16662
Pdap1	NM_001033313	9.74E-06	0.849053	-1.17778
Snrnp70	NM_009224	0.000465628	0.846883	-1.1808
Tmem208	NM_025486	6.10E-05	0.844078	-1.18472
Sec23b	NM_019787	8.08E-05	0.843583	-1.18542
Zc3h15	NM_026934	0.000489903	0.842929	-1.18634

Atp5c1	NM_020615	6.64E-05	0.842573	-1.18684
Prr3	NR_028516	0.00018065	0.84212	-1.18748
Zcrb1	NM_026025	0.000162501	0.840015	-1.19045
Klhdc3	NM_027910	0.000722449	0.838344	-1.19283
Srpk1	NM_016795	7.41E-05	0.838057	-1.19324
Samhd1	NM_018851	0.000464767	0.833913	-1.19917
Gcsh	NM_026572	0.000911481	0.8325	-1.2012
Sfrs9	NM_025573	0.000107853	0.831129	-1.20318
Xpo5	NM_028198	1.18E-05	0.829235	-1.20593
Ndnl2	NM_023239	0.000796886	0.827819	-1.20799
Pisd	NM_177298	5.42E-05	0.827605	-1.20831
Rbm3	NM_001166409	0.000407643	0.827367	-1.20865
Sec23ip	NM_001029982	0.00015089	0.821009	-1.21801
Trmt2a	NM_008307	0.000257626	0.818556	-1.22166
Tnpo1	NM_178716	0.000294195	0.816296	-1.22505
Neu1	NM_010893	0.000341111	0.815027	-1.22695
6330416G13Rik	NM_144905	4.60E-05	0.814939	-1.22709
Ctbp1	NM_013502	6.76E-05	0.813485	-1.22928
Zfp286	NM_138949	0.00065187	0.809907	-1.23471
Gmps	NM_001033300	0.000168406	0.808564	-1.23676
Sec63	NM_153055	0.000477687	0.807997	-1.23763
Ythdf2	NM_145393	0.00043505	0.807772	-1.23797
Cnot8	NM_026949	0.000853289	0.803803	-1.24409
Nus1	NM_030250	9.34E-05	0.802901	-1.24548
Rwdd4a	NM_203507	1.42E-05	0.802633	-1.2459
Gspt1	NM_146066	2.83E-05	0.800308	-1.24952
Ipo9	NM_153774	6.87E-05	0.799653	-1.25054
Dgcr14	NM_022408	0.000351962	0.799014	-1.25154
Vars2	NM_175137	9.16E-05	0.797701	-1.2536
Zfp689	NM_175163	3.40E-05	0.795682	-1.25678
Olf1000	NM_001011695	6.63E-06	0.795462	-1.25713
Slc25a10	NM_013770	0.0008278	0.794793	-1.25819
Med8	NM_020000	0.000326679	0.793614	-1.26006
Bub3	NM_009774	0.000522715	0.792742	-1.26144
Terf2	NM_009353	2.45E-05	0.791479	-1.26346
Tbl3	NM_145396	0.000532298	0.790968	-1.26427
Cxxc1	NM_028868	0.000522344	0.789878	-1.26602
Cnot6	NM_212484	0.000281893	0.788713	-1.26789
Hnrnpul1	NM_144922	0.000250569	0.788623	-1.26803
Lsm12	NM_172947	0.000403877	0.788379	-1.26842
2410127L17Rik	NM_026120	0.000184556	0.78797	-1.26908
Rbbp7	NM_009031	9.51E-05	0.785619	-1.27288
Znhit1	NM_027318	0.000327242	0.784831	-1.27416

Suv420h1	NM_001167885	2.13E-05	0.784355	-1.27493
Zfp207	ENSMUST00000017567	0.000885371	0.784036	-1.27545
Nicn1	NM_025449	0.000359485	0.783827	-1.27579
Ercc2	NM_007949	0.000808794	0.78265	-1.27771
Pias2	NM_001164168	0.000226442	0.780739	-1.28084
Wac	NM_153085	5.34E-06	0.780297	-1.28156
Cd2ap	NM_009847	0.000438959	0.779434	-1.28298
Hddc2	NM_027168	8.61E-05	0.779337	-1.28314
Nod1	NM_172729	0.00016782	0.778167	-1.28507
Naca	NM_001113199	0.000165274	0.776413	-1.28797
Ints12	NM_027927	0.000183783	0.775461	-1.28956
Raver1	NM_027911	0.000140198	0.773849	-1.29224
Dgcr2	NM_010048	0.000648407	0.77257	-1.29438
Cct6a	NM_009838	0.000206141	0.771501	-1.29617
Gm10396	ENSMUST00000100814	0.000785912	0.770737	-1.29746
Zdhhc5	NM_144887	2.25E-05	0.769942	-1.2988
Coq5	NM_026504	0.000714485	0.769272	-1.29993
Alg11	NM_183142	0.000188851	0.76859	-1.30108
Pus7	NM_178403	9.02E-05	0.766646	-1.30438
Fbl	NM_007991	9.55E-05	0.766394	-1.30481
Pphln1	NM_146062	2.57E-05	0.766001	-1.30548
Tcp1	NM_013686	0.000221295	0.765954	-1.30556
Kcnma1	NM_010610	0.000174477	0.765941	-1.30558
Slc29a1	NM_022880	0.000143762	0.765596	-1.30617
Setd8	NM_030241	0.000222746	0.764625	-1.30783
Zfp157	NM_028130	0.000698472	0.764013	-1.30888
Ppp2r1b	NM_001034085	0.000132893	0.761497	-1.3132
Nudc	NM_010948	0.00076625	0.761223	-1.31368
Wdr74	NM_134139	0.000989088	0.76025	-1.31536
Morf4l1	NM_001039147	0.000124064	0.759314	-1.31698
Selk	NM_019979	1.04E-05	0.759036	-1.31746
Naa50	NM_028108	0.000252245	0.757134	-1.32077
Zfp184	NM_183014	9.29E-05	0.756304	-1.32222
Cdk8	NM_153599	0.000950937	0.755783	-1.32313
Gm13238	NR_033612	2.09E-05	0.755717	-1.32325
Mylk2	NM_001081044	0.000191516	0.75565	-1.32336
Fam98b	NM_026620	6.41E-05	0.754323	-1.32569
C87436	NR_027370	0.000396442	0.753794	-1.32662
Sf3a1	NM_026175	0.000327014	0.752922	-1.32816
Lrrc59	NM_133807	7.29E-05	0.75285	-1.32829
Ptges3	NM_019766	0.000178148	0.752816	-1.32834
Bap1	NM_027088	0.000469895	0.75164	-1.33042
Tsen15	NM_025677	0.00064334	0.751514	-1.33065

Sf1	NM_001110791	0.000215849	0.7505	-1.33244
Mbtd1	NM_134012	0.000400025	0.748241	-1.33647
Dullard	NM_026017	0.000190118	0.747748	-1.33735
Telo2	NM_001163661	0.000157072	0.74748	-1.33783
Ddx23	NM_001080981	5.24E-05	0.745429	-1.34151
Ikzf5	NM_175115	6.60E-05	0.744929	-1.34241
Appbp2	NM_025825	2.15E-05	0.743947	-1.34418
Slc35a4	NM_026404	9.41E-05	0.743618	-1.34478
Ruvbl2	NM_011304	0.000825966	0.743491	-1.34501
Rnf168	NM_027355	0.000631007	0.743303	-1.34535
Upf1	NM_001122829	0.000388609	0.742476	-1.34684
Hnrnpab	NM_001048061	1.64E-05	0.742296	-1.34717
Dlat	NM_145614	0.000992291	0.741284	-1.34901
Lrch3	NM_001081255	2.53E-06	0.74029	-1.35082
Abce1	NM_015751	0.00081023	0.740099	-1.35117
Gm6554	XR_031471	0.000417578	0.739941	-1.35146
Uba3	NM_011666	2.27E-05	0.739417	-1.35242
Nek7	NM_021605	0.000711073	0.738952	-1.35327
Farsa	NM_025648	4.82E-06	0.738598	-1.35392
Mrps17	NM_025450	0.000124831	0.735069	-1.36042
Ranbp1	NM_011239	0.000133058	0.73395	-1.36249
Zfp746	NM_001163475	0.000141547	0.733835	-1.3627
Prkacb	NM_011100	0.000483033	0.7337	-1.36296
Hspa8	NM_031165	2.83E-07	0.732362	-1.36545
Nars	NM_001142950	1.30E-06	0.732017	-1.36609
0610009O20Rik	NM_024179	5.03E-05	0.73154	-1.36698
Crebbp	NM_001025432	0.000672156	0.731522	-1.36701
E2f3	NM_010093	0.000172355	0.731417	-1.36721
Lonp1	NM_028782	0.000457212	0.731174	-1.36766
Pabpn1	NM_019402	1.95E-05	0.730287	-1.36932
Klhdc2	NM_027117	0.000277006	0.729949	-1.36996
lpo8	NM_001081113	0.000404875	0.729933	-1.36999
Sdad1	NM_172713	0.000805043	0.72991	-1.37003
Ap2a2	NM_007459	0.000309029	0.729427	-1.37094
Lyar	NM_025281	0.000124608	0.729311	-1.37116
Josd1	NM_028792	0.000205295	0.729235	-1.3713
Nhlrc2	NM_025811	1.40E-06	0.72921	-1.37135
Prmt5	NM_013768	8.45E-05	0.728783	-1.37215
Vkorc1l1	NM_027121	2.96E-05	0.726363	-1.37672
Cnbp	NM_013493	1.29E-05	0.725639	-1.3781
Mrps5	NM_029963	0.00082834	0.725467	-1.37842
2-九月	NM_001159719	6.09E-08	0.725251	-1.37883
Topbp1	NM_176979	1.24E-05	0.724588	-1.38009

McpH1	NM_173189	5.93E-05	0.724437	-1.38038
Timm9	NM_013896	0.000129134	0.723827	-1.38155
Sf3a2	NM_013651	9.53E-06	0.72365	-1.38188
Mepce	NM_144913	0.00018914	0.723255	-1.38264
Hdgf	NM_008231	2.83E-05	0.723061	-1.38301
Ipo11	NM_029665	0.000143271	0.722843	-1.38343
Timm10	NM_013899	0.00064774	0.721904	-1.38523
2610507B11Rik	NM_001002004	0.000764647	0.721863	-1.3853
Ncbp1	NM_001033201	0.000425884	0.720773	-1.3874
Smek1	NM_211355	3.50E-06	0.720054	-1.38878
E130303B06Rik	BC052498	0.000600294	0.719342	-1.39016
Fubp1	NM_057172	0.000203861	0.718975	-1.39087
Chchd3	NM_025336	0.000569776	0.717986	-1.39279
Zfp60	NM_009560	0.000421178	0.717729	-1.39328
Ints2	NM_027421	0.000267529	0.717463	-1.3938
Immt	NM_029673	0.000381143	0.716378	-1.39591
Ikbkap	NM_026079	1.89E-05	0.714669	-1.39925
Htra2	NM_019752	0.000791665	0.713935	-1.40069
Bre	NM_181279	1.31E-06	0.713791	-1.40097
Mrpl3	NM_053159	0.000693946	0.713729	-1.40109
Mrpl35	NM_025430	0.000162375	0.71278	-1.40296
Cbx5	NM_007626	3.77E-05	0.712066	-1.40437
Riok2	NM_025934	0.000884896	0.712039	-1.40442
Dennd4c	NM_001081014	5.27E-05	0.71162	-1.40524
Nup155	NM_133227	0.000332433	0.711588	-1.40531
Dnajc7	NM_019795	0.000520527	0.710773	-1.40692
Ranbp3	NM_027933	1.53E-06	0.710604	-1.40725
Socs6	NM_018821	9.77E-05	0.709488	-1.40947
Alkbh5	NM_172943	2.21E-05	0.709356	-1.40973
Il15ra	NM_008358	0.00028788	0.708968	-1.4105
Ncor1	NM_011308	0.000107533	0.708706	-1.41102
Pes1	NM_022889	0.000414825	0.708189	-1.41205
Acpl2	NM_153420	7.35E-05	0.707068	-1.41429
9930104L06Rik	NM_177573	0.000117741	0.706498	-1.41543
Cpsf7	NM_172302	0.000553722	0.706419	-1.41559
Cox10	NM_178379	0.000653956	0.705876	-1.41668
Ap1g1	NM_009677	0.00087096	0.704138	-1.42018
Surf6	NM_009298	0.000945154	0.703458	-1.42155
Donson	NM_021720	7.13E-05	0.702654	-1.42317
Aco1	NM_007386	1.56E-05	0.702413	-1.42366
Dut	NM_023595	0.000774537	0.701949	-1.4246
Polr2c	NM_009090	1.64E-05	0.700569	-1.42741
Rnf121	NM_029211	3.20E-05	0.700329	-1.4279

Yme1l1	NM_013771	0.000246696	0.70011	-1.42835
Rbm22	NM_025776	3.11E-05	0.69986	-1.42886
Yrdc	NM_153566	0.000174409	0.699843	-1.42889
Ctcf	NM_181322	0.000170215	0.699669	-1.42925
Nmd3	NM_133787	0.000141635	0.698783	-1.43106
Med16	NM_198107	7.55E-05	0.698346	-1.43196
Itfg2	NM_133927	0.000714624	0.698175	-1.43231
Fancl	NM_025923	2.77E-05	0.696319	-1.43612
9430015G10Rik	NM_177205	0.000123166	0.695834	-1.43712
Gm447	BC025881	2.31E-06	0.695609	-1.43759
Taf1a	NM_021466	0.000971332	0.694901	-1.43905
Slc5a7	NM_022025	0.000401339	0.69483	-1.4392
Ube2t	NM_026024	0.000671163	0.694768	-1.43933
Lym4	NM_201358	6.88E-05	0.693677	-1.44159
Casc3	NM_138660	0.000147234	0.693579	-1.4418
6330577E15Rik	NM_026377	2.52E-05	0.693574	-1.44181
Tmem188	NM_029074	0.000132083	0.692674	-1.44368
Gjc1	NM_001159382	5.62E-05	0.692189	-1.44469
Gart	NM_010256	0.000420222	0.692128	-1.44482
Vars	NM_011690	7.98E-05	0.691872	-1.44535
Mettl13	NM_144877	0.000310099	0.691023	-1.44713
Paics	NM_025939	0.000399429	0.690127	-1.44901
Ttf2	NM_001013026	0.000484596	0.689837	-1.44962
AA408296	NM_145415	4.02E-06	0.689369	-1.4506
Cdc25a	NM_007658	0.000750513	0.689336	-1.45067
Fyttd1	NM_027226	0.000120163	0.689059	-1.45125
E2f6	NM_033270	8.61E-06	0.68886	-1.45167
Ranbp2	NM_011240	0.000398387	0.688811	-1.45178
Mis12	NM_025993	0.000301143	0.687774	-1.45397
Bckdk	NM_009739	4.76E-06	0.687035	-1.45553
Tor1aip1	NM_001160018	0.000989594	0.686525	-1.45661
1700030K09Rik	NM_028170	0.000617641	0.686315	-1.45706
Pex14	NM_019781	6.66E-05	0.686242	-1.45721
Hnrnpa3	NM_053263	5.84E-06	0.685906	-1.45792
Lnp	NM_001110209	0.000291645	0.68459	-1.46073
Luc7l2	NM_138680	7.21E-07	0.684487	-1.46095
Gm71	NM_001033236	0.000145817	0.684143	-1.46168
Irak2	NM_172161	1.29E-05	0.683898	-1.46221
Zfp647	NM_001168276	0.000983213	0.683604	-1.46284
Zfp26	NM_011753	0.000365129	0.683029	-1.46407
Get4	NM_026269	1.13E-05	0.682988	-1.46416
Pthr2	NM_175004	0.000537516	0.682286	-1.46566
Smc6	NM_025695	3.39E-06	0.680245	-1.47006

Actr3	NM_023735	1.17E-06	0.680068	-1.47044
Cd3eap	NM_145822	3.63E-06	0.679926	-1.47075
Eif4a3	NM_138669	4.09E-05	0.679785	-1.47105
Ccdc6	NM_001111121	0.000677348	0.678741	-1.47332
Ruvbl1	NM_019685	0.00026478	0.67857	-1.47369
Cks1b	NM_016904	5.01E-06	0.678433	-1.47398
Dhx29	NM_172594	1.26E-05	0.678314	-1.47424
Aldh9a1	NM_019993	0.000101981	0.678081	-1.47475
Ckap5	NM_001165989	8.12E-05	0.677888	-1.47517
Prpf31	NM_027328	0.000684411	0.677544	-1.47592
Lsm6	NM_030145	0.000706444	0.676709	-1.47774
2810004N23Rik	NM_025615	2.53E-05	0.676303	-1.47863
Gin1	NM_026250	0.000464158	0.67613	-1.47901
Aifm1	NM_012019	0.000617145	0.676125	-1.47902
Atm	NM_007499	0.000317035	0.67585	-1.47962
Nt5dc1	NM_176968	6.48E-06	0.675437	-1.48052
Zfp503	NM_145459	1.18E-05	0.675384	-1.48064
Dlg3	NM_016747	0.000249828	0.675083	-1.4813
Hspa9	NM_010481	4.16E-05	0.674533	-1.48251
Mrpl19	NM_026490	0.000887231	0.671178	-1.48992
Glcci1	NM_133236	4.86E-05	0.670992	-1.49033
Camkk2	NM_145358	7.97E-05	0.67076	-1.49085
Tab2	NM_138667	2.09E-06	0.670756	-1.49086
Pcnt	NM_008787	0.000931639	0.669448	-1.49377
Snora7a	NR_028546	0.000215848	0.669309	-1.49408
Ormdl1	NM_145517	0.000259891	0.669228	-1.49426
Dclre1a	NM_018831	0.00020957	0.668876	-1.49504
Rps6kb1	NM_001114334	0.000222355	0.668417	-1.49607
Nudcd1	NM_026149	3.48E-05	0.666969	-1.49932
1110007A13Rik	BC038342	8.13E-05	0.666753	-1.49981
Wdyhv1	NM_029734	0.000428782	0.666751	-1.49981
Guk1	NM_008193	5.27E-05	0.666305	-1.50081
Spin4	NM_178753	1.04E-06	0.66513	-1.50346
Fbxo21	NM_145564	0.000196758	0.664988	-1.50379
Kif24	NM_024241	0.000312382	0.664734	-1.50436
Foxk2	NM_001080932	1.44E-07	0.664034	-1.50595
Xrcc5	NM_009533	0.000262602	0.663652	-1.50681
Timm44	NM_011592	7.90E-05	0.663344	-1.50751
2700094K13Rik	NM_001033166	0.000407258	0.662276	-1.50995
Krr1	NM_178610	8.64E-05	0.659875	-1.51544
Zmym4	NM_001114399	0.000793981	0.659173	-1.51705
Zfp39	NM_011758	1.40E-05	0.658693	-1.51816
Npat	NM_001081152	0.00042162	0.657101	-1.52184

Smndc1	NM_172429	1.60E-05	0.655171	-1.52632
Smyd4	NM_001102611	0.000336802	0.654982	-1.52676
Rsrc1	NM_025822	6.47E-05	0.654501	-1.52788
Baz1b	NM_011714	0.000129292	0.654423	-1.52806
Hlx	NM_008250	4.12E-05	0.65416	-1.52868
Ogg1	NM_010957	1.85E-05	0.652849	-1.53175
Sfrs12	NM_172592	5.16E-07	0.652745	-1.53199
Rnf219	NM_026047	0.000127783	0.652519	-1.53252
Dph1	NM_144491	0.000156813	0.651559	-1.53478
Uqcc	NM_018888	2.56E-05	0.650976	-1.53615
Brd9	NM_001024508	0.000142201	0.649476	-1.5397
Dvl2	NM_007888	5.51E-06	0.648059	-1.54307
2810453106Rik	NM_026050	1.76E-05	0.64753	-1.54433
Aste1	NM_025651	3.38E-05	0.647448	-1.54453
Brp16	NM_021555	0.000100543	0.646971	-1.54566
Med1	NM_013634	0.000804908	0.64677	-1.54615
Azin1	NM_001102458	0.000173379	0.646422	-1.54698
Ssrp1	NM_182990	8.92E-05	0.646232	-1.54743
Ssbp1	NM_212468	1.03E-05	0.645746	-1.5486
Tsr2	NM_001164578	2.55E-06	0.645472	-1.54925
Ctdp1	NM_026295	1.87E-05	0.645453	-1.5493
Tubg1	NM_134024	3.59E-06	0.645363	-1.54951
Rnps1	NM_009070	5.21E-06	0.645266	-1.54975
Dph2	NM_026344	0.000221249	0.645241	-1.54981
Gatc	NM_029645	0.000348593	0.64407	-1.55263
Dhcr24	NM_053272	0.000279489	0.643182	-1.55477
Rcl1	NM_021525	0.0003095	0.643105	-1.55496
Gemin6	NM_026053	0.000107681	0.642876	-1.55551
Cisd1	BC013522	0.000116549	0.64264	-1.55608
2410131K14Rik	BC104372	1.02E-05	0.642245	-1.55704
Kpna3	NM_008466	0.000816538	0.641996	-1.55764
Exog	NM_172456	0.00032689	0.641822	-1.55806
Nt5c3	NM_026004	0.00055638	0.641084	-1.55986
Cit	NM_007708	0.00058308	0.639519	-1.56368
Timeless	NM_001136082	0.000652415	0.639312	-1.56418
Pus7l	NM_172437	0.000155742	0.638989	-1.56497
Csrp2bp	NM_181417	8.74E-06	0.638979	-1.565
Cenpl	NM_027429	0.000813285	0.638385	-1.56645
Chd1	NM_007690	9.29E-06	0.637624	-1.56832
Pygb	NM_153781	0.000100948	0.637446	-1.56876
Wars2	NM_027462	3.74E-05	0.63722	-1.56932
Zfp111	NM_019940	0.000119716	0.636843	-1.57025
Oxa1l	NM_026936	8.19E-05	0.635697	-1.57308

Armc6	NM_133972	9.12E-06	0.635067	-1.57464
Phf6	NM_027642	0.000118613	0.634764	-1.57539
Mtf2	NM_013827	8.74E-05	0.634258	-1.57665
Nxt1	NM_001110159	8.64E-05	0.634183	-1.57683
Thoc3	NM_028597	0.000164093	0.633895	-1.57755
Rrm1	NM_009103	0.000184206	0.632675	-1.58059
Tut1	NM_197993	0.000568217	0.632376	-1.58134
A430033K04Rik	NM_183025	9.29E-05	0.631776	-1.58284
BC005561	NM_001166581	7.35E-05	0.630735	-1.58545
Nudcd3	NM_173748	1.23E-05	0.630594	-1.58581
Scamp4	NM_019575	7.66E-08	0.630556	-1.5859
Npm1	NM_008722	7.28E-05	0.630221	-1.58675
Cdkn2c	NM_007671	0.000643709	0.630195	-1.58681
Cnot2	NM_001037846	7.89E-06	0.630009	-1.58728
Wdr3	NM_175552	5.64E-06	0.629551	-1.58843
Snx8	NM_172277	4.22E-06	0.626811	-1.59538
Zfp1	NM_001037665	3.23E-06	0.626577	-1.59597
Prkaa1	NM_001013367	2.35E-05	0.625969	-1.59752
Zzz3	NM_198416	2.73E-05	0.62553	-1.59864
Utp15	NM_178918	5.80E-05	0.624544	-1.60117
Sele	NM_011345	1.11E-05	0.624243	-1.60194
Cdkn2aipnl	NM_029976	6.34E-05	0.624118	-1.60226
Pms1	NM_153556	1.72E-05	0.623669	-1.60342
Lsm11	NM_028185	0.000730307	0.62356	-1.60369
2010305A19Rik	NM_027250	0.000792496	0.622542	-1.60632
Atp2b1	NM_026482	3.64E-05	0.622482	-1.60647
Nono	NM_023144	1.39E-06	0.621564	-1.60884
Chaf1b	NM_028083	0.000684632	0.621026	-1.61024
Dcps	NM_027030	0.000888427	0.620651	-1.61121
Snhg1	AK051045	5.91E-05	0.62057	-1.61142
L3mbtl2	NM_145993	5.31E-06	0.620194	-1.6124
Zdhhc16	NM_023740	0.000172699	0.61992	-1.61311
Itch	NM_008395	9.12E-06	0.619249	-1.61486
Mnd1	NM_029797	3.10E-05	0.618711	-1.61626
Zfp142	NM_029888	0.000393034	0.618565	-1.61665
Wbscr16	NM_033572	9.99E-05	0.618414	-1.61704
Ccdc99	NM_027411	0.000325821	0.618364	-1.61717
Hmbs	NM_013551	7.18E-05	0.618338	-1.61724
Ube2c	NM_026785	0.000698704	0.618155	-1.61772
U2af1	NM_024187	0.000195624	0.617384	-1.61974
Rce1	NM_023131	0.000253636	0.617183	-1.62026
Rrp12	NM_199447	5.92E-06	0.616382	-1.62237
Dek	NM_025900	4.74E-05	0.616322	-1.62253

Dars2	NM_172644	0.000271625	0.615604	-1.62442
Cops5	NM_013715	5.40E-05	0.615568	-1.62452
Exosc8	NM_001163570	0.00051083	0.615057	-1.62587
Pusl1	NM_001033490	5.25E-07	0.614756	-1.62666
Nudt16l1	NM_025839	6.09E-06	0.614625	-1.62701
D19Bwg1357e	NM_177474	2.20E-06	0.613859	-1.62904
Clpp	NM_017393	0.000854808	0.612624	-1.63232
Utp18	NM_001013375	7.72E-05	0.612435	-1.63283
Rad51ap1	NM_009013	0.000573764	0.61231	-1.63316
Dclk1	NM_019978	3.92E-05	0.612289	-1.63322
Mylip	NM_153789	6.85E-06	0.611803	-1.63451
Frs2	NM_177798	3.62E-05	0.610752	-1.63733
Bclaf1	NM_001025392	3.57E-06	0.60975	-1.64002
9430008C03Rik	AK133696	0.000168771	0.608587	-1.64315
Eif2b4	NM_001127356	7.36E-06	0.607285	-1.64667
Utp6	NM_144826	6.02E-05	0.607228	-1.64683
Foxn2	NM_180974	2.82E-06	0.606878	-1.64778
Sytl5	NM_177704	0.00013063	0.606422	-1.64902
Tcf3	NM_001164147	1.94E-07	0.605863	-1.65054
Dis3	NM_028315	0.000415447	0.605313	-1.65204
Thop1	NM_022653	3.51E-06	0.605201	-1.65234
Rad23b	NM_009011	1.25E-05	0.604789	-1.65347
D10Wsu52e	BC003288	5.67E-06	0.604296	-1.65482
Abcb6	NM_023732	0.000199979	0.604042	-1.65552
4930503L19Rik	BC057927	1.09E-05	0.604036	-1.65553
BC003331	NM_145511	0.000189527	0.603263	-1.65765
Brd8	NM_030147	0.00023428	0.602922	-1.65859
U2af1l4	NM_170760	6.85E-05	0.602322	-1.66024
Atic	NM_026195	6.66E-05	0.60154	-1.6624
Slc25a30	NM_026232	6.12E-05	0.601513	-1.66247
Cytsb	NM_001029936	0.000134598	0.600773	-1.66452
Slc6a17	NM_172271	0.000178731	0.600143	-1.66627
Foxm1	NM_008021	5.79E-05	0.599902	-1.66694
Ppil4	NM_026141	0.00079538	0.59975	-1.66736
Grk6	NM_001038018	0.000488148	0.599434	-1.66824
Usp37	NM_176972	1.11E-05	0.598553	-1.6707
Rcc1	NM_133878	3.01E-05	0.598083	-1.67201
Shq1	NM_181590	0.000568459	0.596552	-1.6763
Xpo7	NM_023045	0.00013062	0.595508	-1.67924
Taf1	NM_001081008	0.00036529	0.593425	-1.68513
Pot1a	NM_133931	0.000575856	0.593377	-1.68527
Isy1	NM_133934	1.83E-06	0.592662	-1.6873
Rrp8	NM_025897	1.06E-06	0.592412	-1.68802

Gadd45g	NM_011817	1.77E-06	0.590847	-1.69248
Mett5d1	NM_029790	0.000111237	0.590763	-1.69272
Fam123b	NM_175179	1.10E-05	0.590345	-1.69393
Rbm39	NM_133242	3.50E-06	0.588755	-1.6985
Slc35b4	NM_021435	3.47E-06	0.587758	-1.70138
Cyp39a1	NM_018887	1.33E-05	0.5876	-1.70184
Rqcd1	NM_021383	2.06E-05	0.587311	-1.70268
Prkrir	NM_028410	2.80E-05	0.586886	-1.70391
Tmem109	NM_134142	5.01E-05	0.586722	-1.70438
Ddx49	NM_001024922	4.32E-05	0.585273	-1.7086
Ankle2	NM_027922	2.67E-05	0.585233	-1.70872
Zfp827	NM_178267	8.24E-05	0.584633	-1.71047
Fam98a	NM_133747	4.62E-08	0.584601	-1.71057
Bat1a	NM_019693	2.51E-06	0.584325	-1.71138
Morc2a	NM_001159288	4.46E-05	0.584275	-1.71152
Nup37	NM_028334	0.000124051	0.583972	-1.71241
Ccdc41	NM_029852	1.14E-06	0.58396	-1.71245
Zfp91-Cntf	NR_024093	1.21E-06	0.583671	-1.71329
Melk	NM_010790	0.000713065	0.583191	-1.7147
Ska1	NM_025581	0.000129998	0.582879	-1.71562
Zfp161	NM_009547	8.37E-07	0.582383	-1.71708
Ccdc112	NM_001160399	5.30E-05	0.580511	-1.72262
Ncapd3	NM_178113	0.000282944	0.580403	-1.72294
Zc3hav1l	NM_172467	0.000513332	0.580085	-1.72389
Gm8681	XR_032130	7.64E-06	0.579374	-1.726
Wdr59	NM_001170743	3.54E-05	0.57922	-1.72646
5730601F06Rik	NM_001082485	0.00011505	0.579105	-1.7268
Scfd1	NM_029825	4.13E-05	0.577969	-1.7302
Acbd6	NM_028250	2.97E-05	0.577081	-1.73286
Sfrs2ip	NM_028148	5.04E-06	0.577035	-1.733
Whsc2	NM_011914	5.63E-06	0.576977	-1.73317
Magi3	NM_133853	0.000209024	0.576933	-1.7333
Slc19a1	NM_031196	9.51E-05	0.575608	-1.73729
Dcp2	NM_027490	7.01E-05	0.573107	-1.74488
Naa25	NM_172722	2.06E-05	0.571382	-1.75014
Aimp2	NM_001172146	7.95E-06	0.571145	-1.75087
G3bp1	NM_013716	1.51E-05	0.570811	-1.75189
Nbn	NM_013752	8.20E-05	0.570383	-1.75321
Tk1	NM_009387	5.80E-06	0.569558	-1.75575
Sart3	NM_016926	0.000373859	0.569166	-1.75696
Sfxn1	NM_027324	2.33E-06	0.568774	-1.75817
Rfc1	NM_011258	0.000113002	0.568538	-1.7589
Ahctf1	NM_026375	3.22E-07	0.568269	-1.75973

Tsr1	NM_177325	1.49E-06	0.567252	-1.76288
Urb1	NM_029497	0.000110481	0.566894	-1.764
Cask	NM_009806	1.87E-05	0.566725	-1.76453
Polr1a	NM_009088	2.70E-06	0.564906	-1.77021
Senp1	NM_144851	0.000378406	0.564878	-1.77029
Alx1	NM_172553	4.82E-05	0.562636	-1.77735
Prkd3	NM_001171004	4.00E-05	0.562139	-1.77892
Snx7	NM_029655	1.55E-07	0.561305	-1.78156
Cpne1	NM_170588	3.88E-06	0.561	-1.78253
Ppap2a	NM_008247	0.000190051	0.560095	-1.78541
Mmgt2	NM_175002	2.64E-06	0.559875	-1.78611
Fbxl19	NM_172748	5.38E-06	0.559081	-1.78865
Heatr3	NM_172757	7.61E-06	0.556022	-1.79849
Zc3h7a	NM_145931	2.38E-06	0.555289	-1.80087
Gtpbp10	NM_153116	0.000456515	0.555013	-1.80176
Pcm1	NM_023662	1.24E-05	0.553791	-1.80574
Gar1	NM_026578	9.57E-05	0.553642	-1.80622
Zfp828	NM_181854	1.05E-08	0.553205	-1.80765
Ept1	NM_027652	2.32E-07	0.553176	-1.80774
Htatsf1	NM_028242	0.00037365	0.552985	-1.80837
Rif1	NM_175238	5.09E-05	0.550863	-1.81533
Ebna1bp2	NM_026932	9.01E-07	0.550484	-1.81658
Nav3	NM_001081035	9.67E-06	0.54985	-1.81868
Rpa2	NM_011284	0.000665095	0.547415	-1.82677
Taok2	NM_001163774	2.07E-06	0.547077	-1.8279
Tmpo	NM_001080129	8.16E-05	0.54696	-1.82829
Lpcat1	NM_145376	5.56E-05	0.546801	-1.82882
Cdk1	NM_007659	0.000720494	0.546388	-1.8302
Map2k6	NM_011943	4.23E-05	0.543849	-1.83874
Sip1	NM_025656	5.23E-05	0.543452	-1.84009
3110082117Rik	NM_028469	5.29E-08	0.540925	-1.84868
Eml1	NM_001043335	5.78E-06	0.540627	-1.8497
Gtpbp4	ENSMUST00000021574	5.63E-07	0.539991	-1.85188
Fen1	NM_007999	0.000758167	0.539782	-1.8526
Pfas	NM_001159519	1.98E-05	0.5397	-1.85288
Thg1l	NM_001080969	1.42E-05	0.539688	-1.85292
Fancd2	NM_001033244	0.000418201	0.539507	-1.85354
Irs1	NM_010570	3.68E-05	0.539433	-1.8538
Lrp8	NR_033496	4.70E-05	0.539138	-1.85481
Slc11a2	NM_001146161	3.34E-06	0.539056	-1.85509
Sass6	NM_028349	0.000915724	0.539038	-1.85516
Gas8	NM_018855	7.25E-06	0.538918	-1.85557
BC026590	BC026590	0.00051251	0.53876	-1.85611

Pds5b	NM_175310	0.000201	0.53815	-1.85822
Psmg1	NM_019537	0.000119462	0.537181	-1.86157
Nob1	NM_026277	6.38E-05	0.536147	-1.86516
Gmn	NM_020567	9.29E-05	0.534048	-1.87249
Snora65	NR_002898	0.000111787	0.533779	-1.87343
Gm13487	XR_034337	1.24E-05	0.533014	-1.87612
Ska2l	XM_890112	0.000124025	0.532363	-1.87842
Mlst8	NM_019988	1.69E-06	0.532077	-1.87943
Dkk2	NM_020265	0.000591294	0.531747	-1.88059
Mcm2	NM_008564	8.11E-05	0.529345	-1.88913
Cep135	NM_199032	0.000815738	0.529281	-1.88936
Zc4h2	NM_001003916	0.000350639	0.526985	-1.89759
Polh	NM_030715	2.22E-05	0.525984	-1.9012
Tcerg1	NM_001039474	1.05E-05	0.524178	-1.90775
Pus3	NM_023292	0.000416903	0.521477	-1.91763
Alg3	NM_145939	2.55E-05	0.521412	-1.91787
Polq	NM_029977	0.000604755	0.521302	-1.91827
Traf5	NM_011633	2.06E-05	0.520535	-1.9211
Bok	NM_016778	9.07E-06	0.520166	-1.92246
Ddx11	NM_001003919	0.000145406	0.519689	-1.92423
Adam12	NM_007400	6.55E-06	0.518981	-1.92685
Fastkd1	NM_177244	4.10E-06	0.518452	-1.92882
Zfp788	NM_023363	9.08E-06	0.516423	-1.9364
Naa15	NM_053089	4.91E-05	0.514339	-1.94424
Etaa1	NM_026576	0.000466309	0.514181	-1.94484
Fdft1	NM_010191	0.000650332	0.513362	-1.94794
Zik1	NM_009577	0.000113639	0.512902	-1.94969
Sgtb	NM_144838	0.000219638	0.512576	-1.95093
Sfrs2	NM_011358	1.36E-05	0.510535	-1.95873
Brc3	NM_001166457	3.52E-05	0.510508	-1.95883
Jmjd5	NM_029842	3.38E-07	0.510139	-1.96025
Trim59	NM_025863	4.77E-06	0.509938	-1.96102
Itgb8	NM_177290	4.26E-05	0.50943	-1.96298
Fancb	NM_001146081	0.000334671	0.509043	-1.96447
Nle1	NM_145431	3.24E-05	0.508805	-1.96539
Grwd1	NM_153419	1.85E-06	0.508182	-1.9678
Sgol1	NM_028232	0.000653488	0.507957	-1.96867
Apitd1	NM_027263	4.67E-06	0.507925	-1.9688
Hmgcs1	NM_145942	0.000730092	0.507026	-1.97229
Fam33a	NM_025377	7.65E-05	0.506801	-1.97316
Lsm14a	NM_025948	4.79E-06	0.505903	-1.97666
Pgap1	NM_001163314	0.000555954	0.505832	-1.97694
Mapk8	NM_016700	6.21E-06	0.505407	-1.9786

E330016A19Rik	BC052196	5.63E-07	0.504818	-1.98091
Bccip	NM_025392	5.20E-05	0.504373	-1.98266
Kif22	NM_145588	0.000478441	0.504083	-1.9838
Suv39h2	NM_022724	6.69E-07	0.499918	-2.00033
Arhgap5	NM_009706	7.85E-06	0.499497	-2.00201
Nop2	NM_138747	9.38E-07	0.498025	-2.00793
Mybbp1a	NM_016776	4.51E-07	0.497068	-2.0118
Ddx21	NM_019553	2.18E-06	0.496598	-2.0137
Nup54	NM_183392	8.82E-06	0.496388	-2.01455
4930547N16Rik	NM_029249	0.000403007	0.496054	-2.01591
Dsn1	NM_025853	0.000107752	0.493384	-2.02682
Mdn1	NM_001081392	1.74E-06	0.493338	-2.02701
Rpl12	BC075731	0.000181141	0.49329	-2.02721
Ifrd2	NM_025903	5.04E-05	0.491597	-2.03419
Bub1	NM_001113179	0.000366661	0.489706	-2.04204
Rpl23a	AF357367	6.84E-05	0.485908	-2.058
Gpatch4	NM_025663	3.66E-06	0.485848	-2.05826
Bcs1l	NM_025784	1.57E-05	0.483419	-2.0686
Zfp81	NM_207541	0.000304388	0.483324	-2.069
Nsmce4a	NM_001162855	5.09E-05	0.482847	-2.07105
Zfp566	NM_152814	2.22E-05	0.482519	-2.07246
Prkg1	NM_001013833	1.34E-05	0.482166	-2.07397
Lrch2	NM_001081173	9.92E-05	0.480417	-2.08153
Ttl	NM_027192	2.14E-05	0.479625	-2.08496
Pold3	NM_133692	0.000412445	0.479145	-2.08705
Farsb	NM_011811	2.39E-06	0.478618	-2.08935
Rad51c	NM_053269	0.00059056	0.477859	-2.09267
BC027231	BC027231	1.85E-06	0.474823	-2.10605
Mrpl50	NM_178603	1.49E-05	0.473749	-2.11082
Utp14a	NM_028276	7.21E-05	0.472013	-2.11858
Taf1d	BC110660	5.83E-06	0.470037	-2.12749
Erlin1	NM_145502	4.11E-05	0.469991	-2.1277
Smyd3	NM_027188	4.96E-05	0.469273	-2.13096
Lpar4	NM_175271	2.58E-05	0.469224	-2.13118
Nat10	NM_153126	2.26E-06	0.467233	-2.14026
Grem1	NM_011824	1.21E-06	0.466196	-2.14502
Tmem209	NM_178625	2.39E-05	0.463293	-2.15846
Brca1	NM_009764	0.00052718	0.462099	-2.16404
Ivns1abp	NM_054102	3.18E-05	0.461925	-2.16485
Alg8	NM_199035	4.24E-06	0.45951	-2.17623
Me2	NM_145494	0.00071457	0.459043	-2.17844
Snord14a	NR_028273	0.000443498	0.45656	-2.19029
Atad5	NM_001029856	0.000179708	0.455814	-2.19388

5730590G19Rik	NM_029835	6.46E-05	0.45576	-2.19414
Nol8	NM_001081350	8.74E-07	0.455611	-2.19486
Clspn	NM_175554	5.60E-05	0.455033	-2.19764
Nol10	NM_001008421	5.24E-07	0.454315	-2.20112
2310061I04Rik	NM_001033630	1.91E-05	0.453561	-2.20477
Kif18a	NM_139303	0.000413615	0.452564	-2.20963
Brca2	NM_001081001	2.56E-05	0.452004	-2.21237
6720463M24Rik	NM_175265	1.38E-05	0.449262	-2.22587
Snx5	NM_024225	1.57E-07	0.448089	-2.2317
Nolc1	NM_053086	5.82E-08	0.447723	-2.23352
Ttc26	NM_153600	3.25E-05	0.446633	-2.23897
Meis1	NM_010789	7.56E-05	0.446562	-2.23933
Ammecr1	NM_019496	1.26E-06	0.440708	-2.26908
Aatf	NM_019816	3.64E-07	0.440303	-2.27116
Bmpr1b	NM_007560	1.74E-05	0.439988	-2.27279
lqcb1	NM_177128	1.83E-05	0.436803	-2.28936
Tmem120b	NM_001039723	3.66E-09	0.433645	-2.30603
Mtrr	NM_172480	7.13E-06	0.43337	-2.3075
Cdt1	NM_026014	1.12E-05	0.432322	-2.31309
Mfsd2a	NM_029662	0.000383227	0.432045	-2.31457
Ttll4	NM_001014974	4.27E-07	0.429396	-2.32885
Ckap2l	NM_181589	0.000467167	0.429087	-2.33053
Haus1	NM_146089	1.78E-05	0.428707	-2.3326
9930014A18Rik	NR_030696	1.08E-05	0.428443	-2.33403
Gemin5	NM_001166669	1.06E-06	0.42839	-2.33432
Srcap	ENSMUST00000084563	5.70E-06	0.425697	-2.34909
Cdc6	NM_011799	0.000165189	0.424686	-2.35468
Mex3b	NM_175366	1.46E-05	0.424469	-2.35589
Pdgfrb	NM_001146268	8.27E-06	0.423798	-2.35961
Zfp146	NM_011980	6.45E-06	0.423575	-2.36085
Smchd1	NM_028887	3.82E-05	0.423024	-2.36393
C79407	NM_172578	0.000542888	0.421098	-2.37474
Zfx4	NM_030708	4.00E-05	0.420877	-2.37599
BC048355	NM_207161	1.07E-06	0.420576	-2.37769
1810030O07Rik	BC137660	1.62E-06	0.419916	-2.38143
Cdh11	NM_009866	1.25E-05	0.416204	-2.40267
Lyplal1	NM_146106	1.24E-07	0.414619	-2.41185
Pold1	NM_011131	0.000248059	0.413389	-2.41903
Lbr	NM_133815	4.63E-05	0.411853	-2.42805
Fibin	NM_026271	0.000402477	0.410791	-2.43433
Ttk	NM_009445	0.00014235	0.409845	-2.43995
Mecom	NM_007963	1.76E-05	0.407157	-2.45605
Cdca8	NM_026560	1.70E-05	0.403697	-2.4771

Gen1	NM_177331	0.000481777	0.40321	-2.4801
Lanc12	NM_133737	3.40E-05	0.402868	-2.4822
Pdxk	NM_172134	6.50E-07	0.402009	-2.48751
Rpp14	NM_025938	5.78E-06	0.398906	-2.50685
Plk4	NM_011495	6.54E-06	0.396836	-2.51993
2610002D18Rik	BC138271	1.93E-05	0.395914	-2.5258
Nipal1	NM_001081205	1.60E-08	0.395596	-2.52783
Figl1	NM_001163359	0.00043358	0.395089	-2.53108
Gtdc1	NM_172662	2.46E-05	0.392449	-2.5481
Tars	NM_033074	9.95E-06	0.389821	-2.56528
Uhrf1	NM_010931	2.34E-06	0.389382	-2.56817
Depdc1a	NM_001172092	5.64E-05	0.388592	-2.57339
Rrp1b	NM_028244	3.81E-05	0.387515	-2.58055
Gas2l3	NM_001033331	7.94E-05	0.384261	-2.6024
Trip13	NM_027182	5.94E-05	0.383716	-2.6061
Zeb2	NM_015753	2.19E-06	0.381739	-2.61959
Tbl1xr1	NM_030732	0.000121916	0.380704	-2.62671
Nup107	NM_134010	5.72E-05	0.380619	-2.6273
Ints7	NM_178632	0.000120569	0.366936	-2.72527
Mtbp	NM_134092	0.00012588	0.364842	-2.74091
Hist1h1b	NM_020034	2.28E-05	0.36451	-2.74341
Exo1	NM_012012	0.000371334	0.364486	-2.74359
Rpp40	NM_145938	2.65E-07	0.36444	-2.74393
Ing5	NM_025454	3.64E-07	0.364198	-2.74576
Trmt61a	NM_177374	1.75E-08	0.364085	-2.74661
Ncapg2	NM_133762	0.00071348	0.36025	-2.77585
Ercc6l	NM_146235	4.61E-05	0.359879	-2.77872
Alg2	NM_019998	1.17E-05	0.35685	-2.8023
Ccnb2	NM_007630	1.25E-05	0.356608	-2.8042
Gnl3	NM_153547	5.13E-10	0.355857	-2.81012
Kif20b	NM_183046	0.000225506	0.354484	-2.821
Npr3	NM_008728	0.000589021	0.349548	-2.86084
Wee1	NM_009516	3.62E-08	0.347323	-2.87916
Nek2	NM_010892	7.85E-05	0.344594	-2.90197
Mki67	NM_001081117	3.72E-05	0.343545	-2.91083
Zcchc8	NM_027494	3.59E-05	0.337976	-2.95879
Rabggtb	NR_028095	1.11E-07	0.337853	-2.95987
Ndufaf4	NM_026742	5.25E-06	0.328675	-3.04252
Kif11	NM_010615	0.000118703	0.322626	-3.09957
Mmp16	NM_019724	0.000153618	0.320829	-3.11693
Snord87	NR_004410	2.18E-05	0.317986	-3.1448
Edn1	NM_010104	2.94E-06	0.315611	-3.16846
Sfrs1	NM_173374	1.82E-05	0.315264	-3.17195

Casc5	NM_029617	3.22E-05	0.28874	-3.46332
Adamts6	NM_001081020	3.95E-05	0.286631	-3.48881
Polr1b	NM_009086	2.20E-07	0.286278	-3.49311
Adamts5	NM_011782	2.40E-05	0.274426	-3.64397
2810026P18Rik	BC032970	5.46E-07	0.236381	-4.23046
Nuf2	NM_023284	7.86E-05	0.215995	-4.62975
Pcdh18	NM_130448	4.29E-07	0.193581	-5.16581
Rgs4	NM_009062	0.000111195	0.190194	-5.25779

Supplementary Table 3

Gene Symbol	RefSeq	p-value(p53wt, Adr vs. p53wt, Ctr)	Ratio(p53wt, Adr vs. p53wt, Ctr)	Fold-Change(p53wt, Adr vs. p53wt, Ctr)
Them5	NM_025416	1.22E-12	21.3949	21.3949
Gpx6	NM_145451	1.45E-10	11.6978	11.6978
Krt5	NM_027011	2.93E-12	9.43466	9.43466
Plk2	NM_152804	1.53E-09	8.56309	8.56309
Dux	NM_001081954	2.09E-11	8.3839	8.3839
Dvwa	NM_026763	1.70E-10	8.07858	8.07858
4933403O03Rik	NR_033485	6.49E-10	7.89833	7.89833
Ano7	NM_207031	3.90E-11	7.71618	7.71618
Egfr	NM_207655	6.51E-12	7.25881	7.25881
Ttll6	NM_172799	2.83E-11	7.17546	7.17546
Gm5737	XM_488079	6.61E-12	6.68511	6.68511
Anxa8	NM_013473	5.04E-11	6.56138	6.56138
Fbp2	NM_007994	1.85E-08	6.52976	6.52976
Fbxo39	NM_001099688	1.10E-09	6.42974	6.42974
Apol8	NM_001081970	4.27E-12	6.42708	6.42708
Ccdc81	NM_001162979	1.32E-10	6.19776	6.19776
Npnt	NM_033525	1.10E-10	6.00453	6.00453
Casp14	NM_009809	1.01E-10	5.98641	5.98641
Gpx3	NM_001083929	2.02E-10	5.98397	5.98397
Plcd4	NM_001081456	5.40E-11	5.97477	5.97477
Eef1a2	NM_007906	1.35E-10	5.89947	5.89947
Greb1l	NM_001083628	8.45E-11	5.8202	5.8202
Svop	NM_026805	4.37E-09	5.79075	5.79075
Itga8	NM_001001309	2.56E-09	5.78685	5.78685
Matn1	NM_010769	6.47E-11	5.78534	5.78534
Chrn4	NM_148944	5.42E-08	5.70109	5.70109
Gna15	NM_010304	1.40E-13	5.68518	5.68518
Tmem40	NM_001168256	1.52E-10	5.64387	5.64387
H2-t9	NM_001177467	8.34E-09	5.62773	5.62773
Plch2	NM_175556	2.59E-10	5.47825	5.47825
Gnal	NM_010307	7.56E-12	5.38222	5.38222
Trp73	NM_011642	2.60E-09	5.16808	5.16808
Retsat	NM_026159	3.67E-11	5.13832	5.13832
Ripk4	NM_023663	1.79E-09	5.03264	5.03264
Adam8	NM_007403	2.54E-11	4.89961	4.89961
Spib	NM_019866	1.62E-08	4.80157	4.80157
Itgb2	NM_008404	1.34E-11	4.79643	4.79643
Shpk	NM_029031	1.25E-09	4.74218	4.74218
Arhgef16	NM_001112744	1.66E-09	4.72031	4.72031
Fbp1	NM_019395	5.57E-10	4.61117	4.61117
B230120H23Rik	NM_023057	1.49E-10	4.51295	4.51295

Trim29	NM_023655	7.28E-10	4.46841	4.46841
Pou4f3	NM_138945	2.17E-08	4.46799	4.46799
Parp10	NM_001163575	6.59E-10	4.45592	4.45592
Fam163b	BC147286	1.07E-09	4.39408	4.39408
Fermt1	NM_198029	4.21E-09	4.38797	4.38797
Pla2g2f	NM_012045	1.21E-09	4.38316	4.38316
Mst1	NM_008243	5.63E-08	4.36607	4.36607
Plxdc2	NM_026162	9.95E-09	4.35983	4.35983
Wnt8b	NM_011720	5.67E-10	4.35074	4.35074
Fam198b	NM_133187	1.72E-08	4.32793	4.32793
Itm2a	NM_008409	2.46E-07	4.29973	4.29973
Tbx4	NM_011536	1.26E-09	4.28192	4.28192
Plekhh2	NM_177606	1.13E-08	4.26852	4.26852
Glp1r	NM_021332	1.74E-06	4.25598	4.25598
Slc6a16	XM_355900	1.32E-10	4.24787	4.24787
Neurod1	NM_010894	2.20E-09	4.20105	4.20105
Arhgap40	NM_001145015	3.89E-10	4.19806	4.19806
Mlana	NM_029993	3.55E-08	4.17829	4.17829
Faim2	NM_028224	7.31E-10	4.15602	4.15602
Tmem184a	NM_001161548	9.53E-11	4.13418	4.13418
9030617O03Rik	BC066161	2.62E-09	4.11838	4.11838
Wnt3	NM_009521	2.96E-08	4.07111	4.07111
P2rx7	NM_011027	2.95E-10	4.0678	4.0678
Fgfr4	NM_008011	3.85E-12	4.05143	4.05143
Tec	NM_001113460	1.59E-07	4.03788	4.03788
Sbsn	NM_172205	1.36E-09	4.02684	4.02684
Slc6a13	NM_144512	3.10E-10	4.00548	4.00548
Gm10532	ENSMUST00000097524	4.75E-09	3.99362	3.99362
Podn	NM_172874	6.57E-09	3.98993	3.98993
Myo18b	NM_028901	1.44E-08	3.95794	3.95794
Slit1	NM_015748	4.09E-09	3.94309	3.94309
Pygm	NM_011224	4.59E-09	3.93983	3.93983
Galnt6	NM_001161767	2.88E-09	3.93804	3.93804
Synm	NM_201639	1.26E-10	3.91492	3.91492
Nfam1	NM_028728	1.28E-11	3.90418	3.90418
Ms4a10	NM_023529	6.42E-07	3.90414	3.90414
Psd2	NM_028707	7.93E-09	3.90383	3.90383
Fkbp10	NM_010221	2.63E-10	3.8998	3.8998
Dmrtb1	NM_019872	7.48E-09	3.8801	3.8801
Ttc28	NM_024477	2.34E-10	3.87571	3.87571
Bmp7	NM_007557	3.37E-10	3.87177	3.87177
Ces5	NM_172759	7.80E-07	3.85656	3.85656
Hsd17b1	NM_010475	6.77E-10	3.81951	3.81951

Igdcc4	NM_020043	3.89E-11	3.80454	3.80454
Ada	NM_007398	8.15E-09	3.78915	3.78915
Mmrn2	NM_153127	6.54E-07	3.77255	3.77255
Afap1l2	NM_146102	7.27E-10	3.76266	3.76266
Bin1	NM_009668	7.57E-11	3.75819	3.75819
Prox2	NM_175198	3.49E-10	3.75214	3.75214
Ankrd42	NM_028665	3.93E-11	3.74009	3.74009
Sirpa	NM_007547	3.46E-09	3.73563	3.73563
Pnmal2	NM_001099636	3.01E-10	3.73115	3.73115
H2-Eb1	NM_010382	2.44E-11	3.70824	3.70824
Anpep	NM_008486	1.34E-07	3.69316	3.69316
Sec14l3	NM_001029937	1.00E-09	3.69152	3.69152
LOC624931	ENSMUST00000099243	1.92E-07	3.67155	3.67155
Cdhr2	NM_001033364	1.74E-08	3.65977	3.65977
P2ry6	NM_183168	5.59E-09	3.61216	3.61216
Rgs14	NM_016758	1.01E-09	3.60719	3.60719
Avil	NM_009635	2.79E-11	3.57766	3.57766
Iqsec3	NM_001033354	2.83E-09	3.54504	3.54504
Phlda3	NM_013750	3.87E-11	3.51363	3.51363
Gpr75	NM_175490	1.04E-08	3.51299	3.51299
1300017J02Rik	NM_027918	4.80E-11	3.51235	3.51235
A430110N23Rik	NM_173008	3.41E-10	3.49024	3.49024
Cxcl10	NM_021274	8.47E-07	3.4876	3.4876
Des	NM_010043	6.17E-09	3.45207	3.45207
Padi3	NM_011060	5.49E-08	3.44497	3.44497
Creb3l1	NM_011957	3.74E-09	3.42775	3.42775
Pisd-ps1	NR_003517	4.16E-08	3.42603	3.42603
Myo7a	NM_008663	4.75E-10	3.39803	3.39803
Unc45b	NM_178680	6.95E-09	3.3866	3.3866
LOC625240	ENSMUST00000110576	4.86E-07	3.38041	3.38041
Siglec1	NM_011426	6.45E-10	3.37971	3.37971
Tuft1	NM_011656	6.93E-09	3.37545	3.37545
Begain	NM_001163175	1.30E-07	3.36923	3.36923
Tek	NM_013690	1.36E-09	3.36158	3.36158
Npr1	NM_008727	1.48E-08	3.35873	3.35873
Plk5	NM_183152	1.35E-09	3.35626	3.35626
Plekhg1	NM_001033253	5.35E-07	3.35057	3.35057
Tcn2	NM_015749	1.23E-08	3.30214	3.30214
Akap2	ENSMUST00000107600	9.38E-09	3.26443	3.26443
Cpb1	NM_029706	1.36E-09	3.25872	3.25872
Il20rb	NM_001033543	6.44E-10	3.23739	3.23739
2210023G05Rik	NM_197999	6.84E-08	3.22648	3.22648
Rhpn2	NM_027897	1.25E-09	3.20518	3.20518

Fbln2	NM_007992	1.07E-08	3.19452	3.19452
Angptl2	NM_011923	1.79E-08	3.1898	3.1898
Efnb2	NM_010111	1.75E-07	3.16341	3.16341
Gm3994	ENSMUST00000098805	3.77E-07	3.15176	3.15176
Evpl	NM_025276	1.80E-09	3.13973	3.13973
Pitpnm2	NM_011256	4.29E-10	3.12846	3.12846
Aldh1l1	NM_027406	9.13E-11	3.12756	3.12756
Coro6	NM_139128	1.06E-07	3.12073	3.12073
Tmem150a	NM_144916	1.19E-07	3.11728	3.11728
Neb	NM_010889	5.85E-11	3.11584	3.11584
Mesp2	NM_008589	2.32E-07	3.09362	3.09362
Gm7241	XM_987328	2.34E-08	3.08514	3.08514
Hmcn2	ENSMUST00000074390	7.60E-11	3.08078	3.08078
Slco2b1	NM_175316	3.89E-09	3.0683	3.0683
Sez6	NM_021286	3.13E-08	3.064	3.064
Vdr	NM_009504	3.27E-09	3.05863	3.05863
Hr	NM_021877	2.22E-10	3.0536	3.0536
Rap1gap2	NM_001015046	1.52E-09	3.04226	3.04226
1810041L15Rik	NM_001163145	3.18E-07	3.03702	3.03702
Gm10679	ENSMUST00000098806	4.12E-07	3.02933	3.02933
Celsr1	NM_009886	2.16E-10	3.02171	3.02171
Rpl31	BC092139	3.17E-07	3.01986	3.01986
BC021614	BC034269	1.09E-08	3.01773	3.01773
Padi2	NM_008812	5.25E-11	3.00616	3.00616
Gaa	NM_008064	6.97E-09	2.99758	2.99758
Slc7a4	NM_144852	3.01E-08	2.99621	2.99621
Sfi1	NM_030207	2.72E-09	2.99326	2.99326
5330417C22Rik	NM_001033304	1.01E-09	2.98213	2.98213
Vwce	NM_027913	7.10E-08	2.98061	2.98061
Atp2b4	NM_001167949	6.16E-09	2.95808	2.95808
Tmem48	NM_028355	6.87E-10	2.94605	2.94605
Slc5a4a	NM_133184	2.06E-08	2.93585	2.93585
C4b	NM_009780	2.09E-07	2.93245	2.93245
Ptk2b	NM_001162365	2.03E-09	2.91148	2.91148
Ccdc125	NM_183115	7.90E-08	2.90838	2.90838
Rhbg	NM_021375	2.96E-08	2.87706	2.87706
Pvrl4	NM_027893	4.90E-10	2.87634	2.87634
Got1l1	NM_029674	1.48E-08	2.85633	2.85633
Tmc8	NM_181856	1.60E-08	2.85509	2.85509
D630023F18Rik	BC137870	2.58E-08	2.85151	2.85151
Plekhb2	NM_145516	5.26E-10	2.85106	2.85106
Lgals3bp	NM_011150	5.19E-07	2.84472	2.84472
Gm5077	NM_173864	2.62E-08	2.84379	2.84379

Tmem130	NM_177735	4.34E-09	2.84368	2.84368
Krt15	NM_008469	5.18E-09	2.82949	2.82949
Mir200b	NR_029587	1.20E-07	2.82819	2.82819
Prkd2	NM_178900	4.96E-07	2.82518	2.82518
Rsph6a	NM_031255	4.23E-07	2.82092	2.82092
Cyp2c44	NM_001001446	4.07E-09	2.81808	2.81808
Dpep3	NM_027960	4.61E-09	2.81735	2.81735
Sgcb	NM_011890	1.16E-07	2.80521	2.80521
Micall2	NM_174850	8.65E-09	2.8001	2.8001
1200009I06Rik	NM_028807	6.14E-08	2.79534	2.79534
Art4	NM_026639	5.06E-08	2.79471	2.79471
Sfrs13b	NM_177774	3.40E-09	2.78512	2.78512
Myo15b	ENSMUST00000093911	3.14E-09	2.78394	2.78394
Pdzd7	BC147399	1.87E-07	2.78002	2.78002
4930550C14Rik	BC115639	2.59E-07	2.7724	2.7724
Adamts2	NM_175643	4.30E-09	2.76921	2.76921
Slc5a11	NM_146198	1.04E-10	2.76517	2.76517
Mvp	NM_080638	1.59E-07	2.76289	2.76289
Nrarp	NM_025980	7.66E-06	2.76143	2.76143
Sec16b	NM_033354	6.63E-08	2.75945	2.75945
Ccdc135	NM_001042715	4.77E-08	2.75681	2.75681
Fermt3	NM_153795	1.04E-08	2.75323	2.75323
Slc5a1	NM_019810	5.52E-08	2.74853	2.74853
Arhgap28	NM_172964	1.44E-07	2.74837	2.74837
Angpt2	NM_007426	3.93E-08	2.74602	2.74602
Ltbp2	NM_013589	1.29E-06	2.7363	2.7363
9330129D05Rik	NM_178799	1.67E-05	2.73444	2.73444
Usp44	NM_183199	8.90E-10	2.72973	2.72973
C4a	NM_011413	2.63E-07	2.72301	2.72301
Ldb3	NM_001039074	4.61E-10	2.7158	2.7158
Zfp397os	NM_001080810	2.39E-07	2.71532	2.71532
Slc36a2	NM_153170	3.48E-07	2.70556	2.70556
Adcy7	NM_007406	1.33E-08	2.70518	2.70518
Sdc4	NM_011521	5.39E-08	2.70384	2.70384
Sord	NM_146126	2.99E-10	2.69669	2.69669
Asprv1	NM_026414	4.08E-09	2.69598	2.69598
Mcam	NM_023061	1.06E-08	2.68751	2.68751
Pcgf3	NM_172716	1.41E-08	2.67982	2.67982
1700024J04Rik	AK006305	2.29E-07	2.67966	2.67966
Apba1	NM_177034	1.40E-08	2.67692	2.67692
Pdzrn3	NM_018884	9.82E-07	2.67563	2.67563
Atg9b	NM_001002897	8.71E-10	2.67482	2.67482
Rnf144b	NM_146042	9.39E-07	2.67139	2.67139

Cbln2	NM_172633	3.66E-09	2.67063	2.67063
Msln1	NM_177822	6.13E-08	2.66528	2.66528
Pixna1	NM_008881	1.30E-10	2.66328	2.66328
Apba2	NM_007461	1.59E-09	2.65931	2.65931
Arntl2	NM_172309	5.20E-08	2.65379	2.65379
Alad	NM_008525	1.33E-08	2.64083	2.64083
Nr3c1	NM_008173	1.31E-08	2.63412	2.63412
Slco4a1	NM_148933	4.89E-11	2.62569	2.62569
Pfkfb4	NM_173019	1.79E-09	2.61261	2.61261
Snx20	NM_027840	1.47E-07	2.61166	2.61166
Kif18b	NM_197959	1.68E-09	2.60794	2.60794
Rhbd11	NM_144816	3.90E-09	2.60192	2.60192
Jph2	NM_021566	2.85E-10	2.60148	2.60148
Slmap	NM_032008	1.96E-07	2.58522	2.58522
Ankrd56	NM_175270	0.000601088	2.58362	2.58362
Tkt11	NM_031379	2.47E-07	2.58353	2.58353
Dok1	NM_010070	1.61E-05	2.55544	2.55544
Nfatc2	NM_010899	1.15E-09	2.55371	2.55371
E230016K23Rik	ENSMUST00000063354	5.95E-07	2.55082	2.55082
Nudt18	NM_153136	1.70E-05	2.54317	2.54317
Mir200a	NR_029723	1.19E-07	2.54246	2.54246
Irgm2	NM_019440	1.46E-06	2.54054	2.54054
Gm221	ENSMUST00000019901	5.68E-07	2.5377	2.5377
Agbl5	NM_001048192	1.62E-10	2.53506	2.53506
Hsdl2	NM_024255	9.27E-08	2.52843	2.52843
Tarsl2	NM_172310	2.02E-08	2.51937	2.51937
Dlg5	NM_001163513	1.67E-09	2.51883	2.51883
D19Ertd652e	BC107403	7.95E-07	2.51868	2.51868
Cdkn2b	NM_007670	2.19E-10	2.5172	2.5172
Cbfa2t3	NM_009824	2.27E-08	2.50877	2.50877
Chd5	NM_001081376	2.11E-09	2.50327	2.50327
Ssh2	ENSMUST00000037912	2.05E-05	2.50195	2.50195
Cald1	NM_145575	1.28E-07	2.49224	2.49224
Wbp2nl	NM_029066	6.84E-10	2.48969	2.48969
Fam35a	NM_029389	2.75E-07	2.48968	2.48968
Hey2	NM_013904	1.76E-09	2.48707	2.48707
St3gal5	NM_011375	2.49E-08	2.48637	2.48637
Pak3	NM_008778	6.42E-11	2.48613	2.48613
Txlnb	NM_138628	1.98E-10	2.48324	2.48324
Cd300lf	NM_001169153	4.03E-06	2.4819	2.4819
Fez1	NM_183171	1.51E-06	2.48108	2.48108
Slc25a17	NM_011399	2.24E-06	2.47554	2.47554
Zkscan16	NM_001099323	1.71E-07	2.46905	2.46905

Papln	NM_130887	1.14E-07	2.46898	2.46898
Fat2	NM_001029988	1.04E-08	2.46644	2.46644
Repin1	NM_001079901	1.34E-08	2.46099	2.46099
Dgkz	NM_001166597	7.75E-09	2.46028	2.46028
Slc1a1	NM_009199	2.51E-09	2.45645	2.45645
Masp2	NM_001003893	1.99E-11	2.4503	2.4503
Upk1b	NM_178924	5.99E-06	2.44882	2.44882
Nubp1	NM_011955	5.55E-07	2.44712	2.44712
Car12	NM_178396	8.39E-07	2.44507	2.44507
Hormad1	NM_026489	1.16E-05	2.44365	2.44365
Acaa1b	NM_146230	5.08E-06	2.43793	2.43793
Slc5a3	NM_017391	5.58E-07	2.43713	2.43713
Stat1	NM_009283	1.84E-07	2.42829	2.42829
Ccdc88b	NM_001081291	1.73E-07	2.42674	2.42674
Nhej1	NM_029342	1.36E-06	2.41472	2.41472
Atp9a	NM_015731	5.09E-09	2.41398	2.41398
Fer1l4	NM_001136556	3.91E-08	2.41311	2.41311
Ell3	NM_145973	4.25E-10	2.4121	2.4121
Trio	NM_001081302	7.54E-08	2.40683	2.40683
Ndst1	NM_008306	7.60E-11	2.4067	2.4067
Efemp1	NM_146015	2.44E-05	2.40235	2.40235
9830001H06Rik	NM_001164663	6.94E-08	2.3958	2.3958
Cdcp1	NM_133974	3.24E-06	2.39359	2.39359
E130112L23Rik	NM_198249	3.78E-07	2.39178	2.39178
Fam125b	NM_175184	1.60E-05	2.39174	2.39174
Tert	NM_009354	1.49E-08	2.38361	2.38361
Tmprss13	NM_001013373	1.70E-06	2.37452	2.37452
Pld1	NM_001164056	1.76E-08	2.37126	2.37126
Aim1	NM_172393	5.72E-08	2.36281	2.36281
Stox2	NM_001114311	1.13E-05	2.36127	2.36127
Gdpd5	NM_201352	1.63E-08	2.35921	2.35921
Zfp362	NM_001081098	1.32E-09	2.35828	2.35828
Rbck1	NM_019705	1.61E-05	2.3534	2.3534
Nrp1	NM_008737	2.76E-07	2.35259	2.35259
Smox	NM_001177833	1.75E-08	2.35084	2.35084
Cacng1	NM_007582	3.81E-08	2.34828	2.34828
Prr15l	NM_146026	1.05E-06	2.34637	2.34637
C1s	NM_144938	1.69E-06	2.34397	2.34397
Arap1	NM_001040111	1.16E-09	2.34151	2.34151
Tmprss6	NM_027902	3.56E-08	2.34037	2.34037
Nudt14	NM_025399	2.77E-07	2.33414	2.33414
Zbp1	NM_021394	1.83E-10	2.32881	2.32881
Sepn1	NM_029100	7.86E-11	2.32492	2.32492

Pcyox1l	NM_172832	2.22E-09	2.32336	2.32336
Ttpal	NM_029512	0.000137076	2.31743	2.31743
Dll1	NM_007865	2.43E-08	2.31627	2.31627
Cyld	NM_001128169	0.000131801	2.31598	2.31598
Chrna4	NM_015730	3.28E-07	2.31505	2.31505
Arl8a	NM_026823	3.62E-06	2.30833	2.30833
Noxo1	NM_027988	8.19E-08	2.30723	2.30723
Oprk1	NM_011011	1.92E-05	2.30053	2.30053
F5	NM_007976	2.69E-08	2.29601	2.29601
Ankrd34b	NM_175455	4.05E-07	2.29479	2.29479
Mpp4	NM_001164682	2.30E-07	2.29471	2.29471
Rspo4	NM_001040689	5.78E-05	2.29393	2.29393
Rasa3	NM_009025	5.58E-05	2.2939	2.2939
C1rb	NM_001113356	2.90E-08	2.29038	2.29038
Tas1r1	NM_031867	2.02E-08	2.2879	2.2879
Rab11fip1	NM_001080813	3.87E-08	2.28789	2.28789
Axl	NM_009465	9.30E-10	2.28371	2.28371
Id2	NM_010496	1.43E-08	2.2777	2.2777
Gm11545	NM_001105561	5.66E-05	2.26913	2.26913
Ptk7	NM_175168	3.91E-08	2.26899	2.26899
2610034B18Rik	BC031379	2.79E-06	2.26359	2.26359
Mcm3ap	NM_019434	2.90E-06	2.26003	2.26003
6430531B16Rik	BC145730	0.000135942	2.25769	2.25769
Prss34	NM_178372	7.26E-07	2.25444	2.25444
Sap30bp	NM_020483	5.60E-05	2.25361	2.25361
Mlxipl	NM_021455	1.72E-08	2.25183	2.25183
Foxn1	NM_008238	2.29E-09	2.24913	2.24913
Palm2	NM_172868	2.53E-08	2.24372	2.24372
Gas2l2	NM_001013759	7.62E-07	2.23956	2.23956
Camsap1	NM_001115076	6.60E-08	2.23818	2.23818
Sgca	NM_009161	5.57E-08	2.23238	2.23238
Myl2	NM_010861	5.04E-11	2.23203	2.23203
Vwa2	NM_172840	7.83E-08	2.22676	2.22676
Pkd1l2	NM_029686	9.04E-08	2.22186	2.22186
Nomo1	NM_153057	1.18E-10	2.22121	2.22121
Qrich2	NM_001033267	1.19E-07	2.22014	2.22014
Smtnl1	NM_024230	3.46E-08	2.2166	2.2166
Gm10035	NM_001081471	3.74E-07	2.21523	2.21523
Al314831	NR_015462	7.84E-08	2.21126	2.21126
Rassf10	NM_175279	4.30E-07	2.21038	2.21038
Astl	NM_172539	5.75E-07	2.20285	2.20285
Lmo1	NM_057173	1.09E-06	2.20229	2.20229
Ece1	NM_199307	2.93E-07	2.20193	2.20193

2410076I21Rik	NM_028598	2.04E-07	2.20124	2.20124
2310067B10Rik	NM_028014	2.44E-07	2.19931	2.19931
Zap70	NM_009539	1.76E-09	2.19409	2.19409
Pdrg1	NM_178939	1.77E-06	2.18971	2.18971
Wnt4	NM_009523	4.66E-09	2.18611	2.18611
Traf3ip2	NM_134000	7.44E-09	2.1839	2.1839
Gpr132	NM_019925	3.12E-07	2.18221	2.18221
Htr4	NM_008313	5.05E-06	2.17835	2.17835
Art3	NM_181728	1.17E-06	2.17562	2.17562
Ust	NM_177387	3.22E-06	2.17393	2.17393
Ppp2r2b	NM_028392	5.41E-08	2.17328	2.17328
Kcnp3	NM_019789	1.46E-06	2.17236	2.17236
Fbxw4	NM_013907	4.41E-07	2.16943	2.16943
Rgl1	NM_016846	9.33E-07	2.16687	2.16687
Gm12569	ENSMUST00000074198	7.20E-06	2.16551	2.16551
Zfp688	NM_026999	2.37E-08	2.15616	2.15616
Zbtb7c	NM_145356	3.68E-07	2.15603	2.15603
Prkag1	NM_016781	3.48E-06	2.15174	2.15174
Rab31	NM_133685	2.96E-09	2.15121	2.15121
Dusp13	NM_001007268	1.03E-07	2.14912	2.14912
6330503K22Rik	NM_182995	3.51E-06	2.14772	2.14772
2310038E17Rik	BC117742	4.10E-07	2.14208	2.14208
Sh2b1	NM_011363	7.95E-10	2.13975	2.13975
Pou4f1	NM_011143	2.11E-05	2.13441	2.13441
Psmb9	NM_013585	2.71E-06	2.13128	2.13128
Itgae	NM_008399	2.08E-08	2.12451	2.12451
Susd4	NM_144796	7.87E-08	2.12414	2.12414
Plp	NM_026385	1.62E-06	2.12373	2.12373
BC034090	AK129406	1.05E-07	2.12357	2.12357
Mosc1	NM_001081361	3.22E-06	2.12271	2.12271
2310057J16Rik	NM_001163749	2.39E-07	2.12038	2.12038
Cpne7	NM_170684	1.60E-08	2.1196	2.1196
Lrrc32	NM_001113379	4.81E-06	2.11097	2.11097
Hoxc13	NM_010464	2.30E-05	2.11073	2.11073
Slc34a3	NM_080854	4.38E-07	2.10819	2.10819
Clec4g	NM_029465	2.84E-07	2.10758	2.10758
Xirp1	NM_011724	8.96E-07	2.10669	2.10669
Slc39a13	NM_026721	1.27E-07	2.10214	2.10214
Dsc3	NM_007882	4.45E-06	2.09944	2.09944
Fam83f	NM_145986	1.28E-06	2.09888	2.09888
BC026585	NM_001033284	4.54E-07	2.09698	2.09698
Ppl	NM_008909	1.48E-09	2.09476	2.09476
Ldoc1l	NM_177630	6.95E-05	2.09226	2.09226

Frmpd1	NM_001081172	5.82E-08	2.08956	2.08956
Fam47e	NM_001033478	2.47E-06	2.08627	2.08627
Gatm	NM_025961	3.57E-06	2.08569	2.08569
Trim56	NM_201373	2.66E-08	2.08507	2.08507
Rnf144a	NM_001081977	4.66E-08	2.08466	2.08466
Rec8	NM_020002	6.00E-09	2.08424	2.08424
Micall1	NM_177461	4.91E-07	2.08178	2.08178
Garnl3	NM_178888	7.22E-08	2.08035	2.08035
Asb10	NM_080444	2.83E-06	2.07791	2.07791
Pgbd5	NM_171824	1.25E-05	2.0767	2.0767
Trim62	NM_178110	2.54E-07	2.0744	2.0744
Mdga1	NM_001081160	2.47E-08	2.07285	2.07285
Figf	NM_010216	1.20E-05	2.07275	2.07275
Amotl1	NM_001081395	1.68E-08	2.07187	2.07187
Dnahc17	NM_001167746	9.04E-06	2.06938	2.06938
Rapgef1	NM_001080925	4.43E-07	2.0657	2.0657
Fam115a	BC031718	3.13E-07	2.063	2.063
Grlf1	NM_172739	5.36E-07	2.06164	2.06164
Vwa3b	XR_032810	5.03E-07	2.05983	2.05983
Vgf	NM_001039385	6.81E-08	2.05085	2.05085
Wdr52	NM_001033247	5.69E-08	2.05075	2.05075
Cacna2d2	NM_001174047	7.77E-07	2.04995	2.04995
Scube1	NM_022723	8.22E-07	2.04976	2.04976
Krt13	NM_010662	3.86E-07	2.04959	2.04959
Fam195b	NM_001033231	9.55E-07	2.04915	2.04915
Ngef	NM_001111314	3.35E-08	2.04895	2.04895
Taok3	NM_001081308	1.59E-06	2.03901	2.03901
Timm8a2	NM_001037744	1.76E-05	2.03882	2.03882
Dnahc2	NM_001081330	9.64E-09	2.03743	2.03743
Tmed4	NM_134020	3.41E-05	2.03673	2.03673
Zfp28	NM_175247	1.72E-05	2.03658	2.03658
Asphd2	NM_028386	4.22E-07	2.03586	2.03586
Abhd2	NM_018811	1.97E-07	2.03525	2.03525
Ppp1r16b	NM_153089	1.74E-07	2.03348	2.03348
Foxj2	NM_021899	3.28E-07	2.03333	2.03333
Fech	NM_007998	1.04E-05	2.03129	2.03129
4632415K11Rik	BC030874	4.68E-08	2.02851	2.02851
Pla2g4b	NM_145378	7.51E-09	2.02678	2.02678
Lcat	NM_008490	6.72E-06	2.02532	2.02532
4930590J08Rik	NM_198668	4.63E-09	2.0218	2.0218
Hyal3	NM_178020	1.39E-05	2.02164	2.02164
Kif21b	NM_001039472	1.65E-09	2.02113	2.02113
4933429F08Rik	NM_177828	1.11E-06	2.0186	2.0186

Glb1l2	NM_153803	1.20E-06	2.01832	2.01832
Rab17	NM_008998	1.05E-06	2.01687	2.01687
Sfrp2	NM_009144	3.31E-07	2.01099	2.01099
Ap1m2	NM_001110300	1.59E-08	2.00787	2.00787
Ttc22	NM_177667	5.30E-06	2.00754	2.00754
Serpine1	NM_008871	2.06E-08	2.00707	2.00707
Cog7	NM_001033318	1.85E-09	2.0067	2.0067
Dnahc10	NM_019536	8.56E-08	1.99919	1.99919
Arhgap23	NM_021493	5.46E-07	1.99875	1.99875
Ush1c	NM_153677	1.09E-07	1.99677	1.99677
Mybpc2	NM_146189	7.87E-07	1.99503	1.99503
Fam83g	NM_178618	1.69E-05	1.99461	1.99461
Fa2h	NM_178086	8.05E-05	1.99458	1.99458
Jun	NM_010591	2.09E-06	1.99273	1.99273
Usp2	NM_198092	4.96E-07	1.98842	1.98842
Hspa12a	NM_175199	8.79E-08	1.98781	1.98781
Emp3	NM_010129	2.49E-06	1.98415	1.98415
Rasl11a	NM_026864	1.20E-08	1.98412	1.98412
Arhgap10	ENSMUST00000076316	1.42E-06	1.98199	1.98199
Oma1	NM_025909	1.53E-05	1.98156	1.98156
Megf6	NM_001162977	2.14E-05	1.97711	1.97711
Asb7	NR_003961	0.000254601	1.97653	1.97653
Klhl30	NM_027551	2.07E-06	1.97328	1.97328
Gm4469	XM_001480057	7.48E-06	1.97211	1.97211
Slc12a8	NM_134251	1.02E-06	1.97091	1.97091
Plbd1	NM_025806	3.23E-06	1.96921	1.96921
Unc5a	NM_153131	1.56E-06	1.96846	1.96846
Gm7059	XR_031115	0.00026039	1.96805	1.96805
Fgd5	NM_172731	1.67E-09	1.96756	1.96756
Dpy19l3	NM_178704	5.42E-07	1.96676	1.96676
Kcnab2	NM_010598	5.06E-07	1.96667	1.96667
Gulo	NM_178747	8.31E-06	1.96597	1.96597
Cyr61	NM_010516	9.18E-09	1.96504	1.96504
Zhx3	NM_177263	7.50E-08	1.96367	1.96367
Rbp2	NM_009034	3.28E-05	1.96262	1.96262
Cnga3	NM_009918	1.11E-08	1.96051	1.96051
Dscam1	NM_001081270	1.24E-05	1.95957	1.95957
3110062M04Rik	NM_199145	1.20E-08	1.95411	1.95411
Tgfbr3	NM_011578	8.74E-07	1.95391	1.95391
Fbf1	NM_172571	3.57E-07	1.95322	1.95322
Myot	NM_001033621	1.24E-06	1.95308	1.95308
Tnfaip6	NM_009398	6.74E-06	1.95228	1.95228
Hmga2	NM_010441	1.81E-05	1.9521	1.9521

Wdr86	NM_001081441	6.91E-05	1.94923	1.94923
Obscn	NM_199152	1.33E-08	1.94792	1.94792
Dnm1	NM_010065	2.21E-08	1.94498	1.94498
Acer1	NM_175731	9.43E-07	1.94458	1.94458
Golga7b	NM_001141983	9.59E-06	1.94372	1.94372
Gm10863	ENSMUST00000100455	1.55E-05	1.94254	1.94254
Ly6a	NM_010738	0.000911172	1.94214	1.94214
Soat2	NM_146064	1.22E-05	1.93888	1.93888
Csnk1g1	NM_173185	2.16E-08	1.93789	1.93789
Fam38a	NM_001037298	1.86E-07	1.93667	1.93667
Cd44	NM_009851	5.60E-08	1.93493	1.93493
Robo3	NM_001164767	2.19E-06	1.93299	1.93299
Ednra	NM_010332	4.28E-05	1.93203	1.93203
Arhgef17	NM_001081116	3.91E-08	1.93011	1.93011
Itga2	NM_008396	8.52E-08	1.92607	1.92607
Sec24b	NM_207209	9.11E-07	1.9253	1.9253
Gm4840	XM_911153	6.08E-08	1.92338	1.92338
Nkx6-2	NR_027857	3.75E-05	1.92326	1.92326
Cnst	NM_146105	6.29E-08	1.92268	1.92268
Rnf123	NM_032543	3.63E-05	1.92042	1.92042
Cxcl16	NM_023158	1.72E-09	1.91985	1.91985
Ctxn1	NM_183315	7.40E-10	1.9192	1.9192
Lace1	NM_145743	9.45E-05	1.91791	1.91791
4930451C15Rik	NM_029053	4.97E-09	1.91778	1.91778
Klhl29	NM_001164493	6.22E-08	1.9176	1.9176
Il15	NM_008357	1.85E-07	1.91741	1.91741
Adcy6	NM_007405	1.34E-07	1.91588	1.91588
Apc2	NM_011789	1.88E-07	1.91487	1.91487
Pnkd	NM_001039509	1.11E-06	1.91431	1.91431
Spsb1	NM_029035	1.30E-06	1.91339	1.91339
Limch1	NM_001001980	9.40E-07	1.91075	1.91075
Kcp	NM_001029985	2.02E-06	1.90993	1.90993
Bbs7	NM_027810	5.24E-06	1.90983	1.90983
Slc24a1	NM_144813	5.19E-07	1.90916	1.90916
Vgll4	NM_177683	2.84E-05	1.90814	1.90814
Pdcd6ip	NM_001164677	3.99E-08	1.90715	1.90715
Dab2ip	NM_001114124	8.41E-06	1.90216	1.90216
Phyhip	NM_145981	4.96E-06	1.9013	1.9013
Itpr1p	NM_001001738	4.09E-06	1.9	1.9
Tns1	NM_027884	2.45E-07	1.89766	1.89766
Hpca	NM_010471	4.65E-08	1.89566	1.89566
Apeh	NM_146226	3.55E-08	1.89546	1.89546
Tubgcp3	NM_198031	8.49E-06	1.89515	1.89515

Pfkm	NM_001163487	4.32E-08	1.89482	1.89482
Tmem184b	NM_172608	5.20E-07	1.8947	1.8947
BC057022	BC057022	7.04E-07	1.89309	1.89309
Mfap2	NM_008546	8.27E-06	1.89272	1.89272
Ncor2	NM_011424	3.60E-07	1.89097	1.89097
Pik3r5	NM_177320	5.68E-06	1.89095	1.89095
Efna5	NM_207654	3.26E-06	1.88677	1.88677
Tnfsf4	NM_009452	5.29E-06	1.88658	1.88658
Tcfap2e	NM_198960	8.41E-05	1.88306	1.88306
Prss42	NM_153099	3.09E-06	1.88292	1.88292
Ces2	NM_145603	1.78E-07	1.88267	1.88267
Rbm17	NM_152824	3.09E-07	1.87966	1.87966
Slc22a14	NM_001037749	9.06E-05	1.87847	1.87847
Clic6	NM_172469	0.000543758	1.87596	1.87596
Plcl2	NM_013880	8.32E-06	1.86823	1.86823
Stard10	NM_019990	1.38E-06	1.86634	1.86634
Unc13d	NM_001009573	4.89E-07	1.86265	1.86265
Txndc2	NM_001146002	3.00E-06	1.86244	1.86244
Dhrs11	NM_177564	9.20E-07	1.86216	1.86216
Wscd1	NM_177618	3.47E-06	1.86171	1.86171
Casd1	NM_145398	1.23E-05	1.85903	1.85903
Slc22a18	NM_001042760	3.77E-06	1.85872	1.85872
Bgn	NM_007542	6.21E-06	1.85839	1.85839
Sgsm3	NM_134091	1.62E-05	1.85815	1.85815
Xaf1	NM_001037713	2.30E-07	1.85738	1.85738
Eps8	NM_007945	3.13E-06	1.85713	1.85713
Eid2b	NM_001177427	9.25E-05	1.8565	1.8565
Aox4	NM_023631	1.44E-08	1.85475	1.85475
Ddx59	NM_026500	2.16E-05	1.8522	1.8522
Mmp2	NM_008610	1.28E-06	1.85077	1.85077
Trim47	NM_172570	2.17E-06	1.8505	1.8505
Dnaic1	NM_175138	5.80E-08	1.8505	1.8505
Card11	NM_175362	2.12E-05	1.84976	1.84976
Naglu	NM_013792	0.000248745	1.84929	1.84929
Ppcdc	NM_176831	1.64E-07	1.84809	1.84809
Cpxm1	NM_019696	9.43E-05	1.84637	1.84637
C530005A16Rik	NR_029450	1.73E-06	1.84354	1.84354
Taco1	NM_027346	5.84E-05	1.84353	1.84353
Ttc39a	NM_153392	7.40E-09	1.84311	1.84311
Cdh3	NM_001037809	1.80E-05	1.84193	1.84193
Serpina3n	NM_009252	1.03E-07	1.84162	1.84162
Apbb2	NM_009686	2.67E-06	1.84052	1.84052
Chchd5	NM_025395	0.000901232	1.84044	1.84044

Chst11	NM_021439	7.40E-06	1.83982	1.83982
Tmprss3	NM_001163776	1.17E-07	1.83928	1.83928
Hipk3	NM_010434	6.48E-07	1.83673	1.83673
Fndc1	NM_001081416	4.93E-08	1.83568	1.83568
Rabgef1	NM_019983	1.33E-06	1.83558	1.83558
Col7a1	NM_007738	2.71E-08	1.83459	1.83459
Trpc1	NM_011643	3.96E-07	1.83431	1.83431
Gm52	NM_001013751	1.02E-06	1.82937	1.82937
Nod2	NM_145857	2.65E-06	1.82849	1.82849
Trpm1	NM_001039104	8.40E-07	1.82776	1.82776
Best1	NM_011913	1.90E-09	1.82771	1.82771
Dmrtc1c	NM_001142691	7.37E-06	1.82736	1.82736
Tmem132c	NM_175432	7.02E-08	1.82729	1.82729
Kremen2	NM_028416	0.000110163	1.82685	1.82685
Cd320	NM_019421	1.05E-07	1.82671	1.82671
Mc5r	NM_013596	1.49E-05	1.82652	1.82652
Fam168a	BC079886	8.55E-06	1.82587	1.82587
2010001M09Rik	NM_027222	7.80E-06	1.825	1.825
Apol10b	NM_177820	1.90E-08	1.82421	1.82421
3110040M04Rik	AK014162	7.76E-07	1.82382	1.82382
Fuz	NM_027376	1.89E-08	1.82371	1.82371
Vgll3	NM_028572	7.90E-05	1.82311	1.82311
Scrn3	NM_029022	1.36E-07	1.82143	1.82143
Twsg1	NM_023053	1.58E-07	1.82136	1.82136
Otog	NM_013624	8.31E-06	1.82122	1.82122
Cpox	NM_007757	2.70E-05	1.81973	1.81973
Mdm1	NM_001162904	3.41E-07	1.81864	1.81864
Hydin	NM_172916	3.11E-08	1.81769	1.81769
Clpb	NM_009191	7.76E-07	1.81613	1.81613
Pacsin1	NM_011861	2.88E-07	1.81231	1.81231
Itga4	NM_010576	1.31E-05	1.81193	1.81193
Antxr1	NM_054041	1.17E-05	1.81185	1.81185
Plxnd1	NM_026376	4.01E-06	1.81137	1.81137
Eppk1	NM_144848	5.35E-05	1.81119	1.81119
Hic1	NM_010430	5.92E-06	1.81099	1.81099
Serpinf1	NM_011340	1.77E-06	1.80935	1.80935
P2rx5	NM_033321	9.53E-09	1.80883	1.80883
Sgpp1	NM_030750	1.10E-06	1.8086	1.8086
Plcb4	NM_013829	1.32E-07	1.80713	1.80713
Pla2g2c	NM_008868	8.78E-05	1.80615	1.80615
Rpgrip1l	NM_173431	2.18E-06	1.80614	1.80614
Gca	NM_145523	7.51E-06	1.80557	1.80557
St3gal3	NM_009176	1.46E-05	1.80525	1.80525

Cnn1	NM_009922	4.19E-06	1.80496	1.80496
Lefty1	NM_010094	1.28E-05	1.80426	1.80426
Lrrfip1	NM_008515	2.54E-08	1.80307	1.80307
Olfm1	NM_019498	1.85E-08	1.80301	1.80301
Parm1	NM_145562	9.18E-07	1.80295	1.80295
Mbnl2	NM_175341	3.22E-06	1.80221	1.80221
Crtc1	NM_001004062	8.50E-08	1.80204	1.80204
Map3k14	NM_016896	1.22E-07	1.80021	1.80021
A430089I19Rik	NM_177913	4.87E-05	1.80013	1.80013
Ppp1r13b	NM_011625	7.73E-05	1.79732	1.79732
Ryr1	NM_009109	4.68E-08	1.7972	1.7972
Mmel1	NM_013783	1.03E-05	1.79717	1.79717
Ccdc155	NM_201374	5.77E-08	1.79665	1.79665
Necab3	NM_021546	8.87E-06	1.79482	1.79482
G730007D18Rik	AK144596	2.02E-05	1.79432	1.79432
Kndc1	NM_177261	1.95E-06	1.79269	1.79269
Lama3	NM_010680	6.98E-08	1.79194	1.79194
Man2b2	NM_008550	9.34E-08	1.79025	1.79025
H19	NR_001592	3.64E-06	1.79001	1.79001
Svil	NM_153153	8.09E-09	1.78716	1.78716
Mastl	ENSMUST00000028119	3.23E-05	1.78711	1.78711
Lrrc28	NM_175124	4.76E-06	1.78596	1.78596
Lrp1	NM_008512	1.38E-07	1.78569	1.78569
Lgr6	NM_001033409	2.56E-05	1.78544	1.78544
Ptprn	NM_008985	1.50E-06	1.78525	1.78525
BC066135	NM_173031	4.38E-06	1.78447	1.78447
Npc1l1	NM_207242	1.26E-07	1.78334	1.78334
Phf1	NM_009343	1.32E-06	1.78315	1.78315
Srgap3	NM_080448	0.000659081	1.7828	1.7828
Grm2	NM_001160353	2.24E-05	1.78156	1.78156
Fat1	NM_001081286	2.73E-06	1.77859	1.77859
Kcnt1	NM_175462	8.54E-06	1.77646	1.77646
Tead3	NM_001098226	2.02E-06	1.77495	1.77495
Vamp2	NM_009497	2.20E-06	1.77389	1.77389
Syne1	NM_001079686	2.77E-08	1.77132	1.77132
Sipa1l3	NM_001081028	1.89E-07	1.77127	1.77127
Srgap2	NM_001081011	2.83E-06	1.77081	1.77081
Fam126a	NM_053090	3.87E-08	1.77012	1.77012
Map4k1	NM_008279	3.22E-07	1.7699	1.7699
Cyp4f14	NM_022434	5.37E-05	1.76978	1.76978
Haus2	NM_025475	0.000137386	1.76936	1.76936
Pde2a	NM_001143848	2.42E-07	1.76894	1.76894
Ttll10	NM_029264	2.87E-07	1.76781	1.76781

Selplg	NM_009151	2.44E-06	1.76553	1.76553
2410124H12Rik	ENSMUST00000054592	3.62E-05	1.76548	1.76548
Gm10856	ENSMUST00000100431	5.11E-05	1.76483	1.76483
Loxl3	NM_013586	3.33E-06	1.7644	1.7644
Inf2	NM_198411	4.53E-07	1.76432	1.76432
Hspb2	NM_024441	8.73E-05	1.76401	1.76401
Cyp46a1	NM_010010	2.59E-07	1.76356	1.76356
Kcnn3	NM_080466	5.84E-06	1.76328	1.76328
Gm4779	ENSMUST00000056225	0.000241255	1.76137	1.76137
Polr2b	NM_153798	6.29E-09	1.76102	1.76102
St6galnac4	NM_011373	4.51E-06	1.76101	1.76101
Slc38a7	NM_172758	5.73E-06	1.76018	1.76018
Calr4	NM_001033226	1.94E-07	1.75921	1.75921
Hhip1	NM_001044380	3.61E-06	1.75919	1.75919
Pkd1	NM_013630	7.24E-06	1.75828	1.75828
Jakmip3	NM_028708	3.20E-05	1.75758	1.75758
Duoxa2	NM_025777	5.67E-06	1.75692	1.75692
Prkce	NM_011104	4.50E-06	1.75631	1.75631
Cd300a	NM_170758	2.12E-08	1.75267	1.75267
Rev1	NM_019570	8.21E-06	1.75235	1.75235
Clec16a	NM_177562	7.91E-06	1.75194	1.75194
Spag4	NM_139151	1.60E-05	1.75186	1.75186
6430548M08Rik	NM_172286	9.93E-09	1.75099	1.75099
Clca5	NM_178697	1.01E-06	1.7498	1.7498
Gnaz	NM_010311	4.84E-05	1.74857	1.74857
Als2	NM_028717	2.12E-05	1.7467	1.7467
Lztr1	NM_025808	1.60E-06	1.74605	1.74605
Zmat3	NM_009517	1.17E-05	1.74499	1.74499
Cebpb	NM_009883	3.54E-06	1.74474	1.74474
2410089E03Rik	NM_001162906	1.92E-06	1.74467	1.74467
D730001G18Rik	NR_027836	7.66E-07	1.74401	1.74401
Ankrd13a	NM_026718	0.000106546	1.74185	1.74185
Xrcc1	NM_009532	2.71E-09	1.74049	1.74049
Ptpn7	NM_177081	1.49E-05	1.73931	1.73931
Vipr1	NM_011703	4.60E-07	1.73577	1.73577
Nfasc	NM_182716	2.25E-06	1.73534	1.73534
Cdon	NM_021339	3.53E-06	1.73384	1.73384
Trim71	NM_001042503	2.25E-06	1.73352	1.73352
Ncan	NM_007789	5.59E-07	1.73312	1.73312
Mfge8	NM_008594	2.39E-06	1.73133	1.73133
Tgfbr1	NM_009370	2.43E-07	1.73029	1.73029
Cobll1	NM_177025	2.54E-07	1.72967	1.72967
Pla2g4a	NM_008869	0.000126054	1.72934	1.72934

Eya2	NM_010165	2.76E-06	1.72906	1.72906
Fbxo47	NM_001081435	2.86E-06	1.72852	1.72852
Hs2st1	NM_011828	2.02E-05	1.72712	1.72712
Palm	NM_023128	1.78E-06	1.72525	1.72525
Spatc1	NM_028852	1.20E-05	1.7248	1.7248
Prkcb	NM_008855	2.94E-07	1.72462	1.72462
Inca1	NM_213729	1.62E-05	1.72447	1.72447
Trf	NM_133977	1.25E-07	1.72414	1.72414
Moxd1	NM_021509	8.98E-06	1.72361	1.72361
Nos2	NM_010927	1.14E-06	1.72284	1.72284
Tub	NM_021885	1.78E-05	1.72272	1.72272
Cdc23	NM_178347	5.26E-06	1.72268	1.72268
Sema4d	NM_013660	6.01E-07	1.72227	1.72227
Wdr25	NM_177602	3.46E-05	1.72186	1.72186
Duxbl	NM_183389	2.97E-05	1.72124	1.72124
Zfp167	NM_001177505	0.000782323	1.72108	1.72108
Poll	NM_020032	7.10E-07	1.72053	1.72053
Olfr1410	NM_146491	3.59E-05	1.71883	1.71883
Fstl3	NM_031380	4.62E-07	1.7185	1.7185
Jak3	NM_010589	7.17E-08	1.71831	1.71831
Eya4	NM_010167	1.46E-07	1.71738	1.71738
1700013B16Rik	NM_028157	1.42E-06	1.71699	1.71699
Bicc1	NM_031397	7.47E-07	1.7162	1.7162
Mpp2	NM_016695	1.02E-05	1.71614	1.71614
Ak3	NM_021299	7.70E-06	1.71313	1.71313
Prss39	NM_009355	1.11E-05	1.71272	1.71272
Caps2	NM_178278	6.02E-05	1.71255	1.71255
1700016M24Rik	BC111897	1.23E-07	1.71179	1.71179
Upf2	NM_001081132	0.000236462	1.7109	1.7109
Ache	NM_009599	9.28E-05	1.71059	1.71059
Pde4a	NM_183408	2.24E-05	1.70999	1.70999
Gstm7	NM_026672	1.64E-06	1.70922	1.70922
Gm5488	XM_001480385	0.000224721	1.70921	1.70921
Lamb3	NM_008484	1.11E-08	1.70917	1.70917
Fam83a	NM_173862	1.91E-05	1.7084	1.7084
Ttc7	NM_028639	2.82E-07	1.70763	1.70763
Rtn4ip1	NM_130892	2.36E-06	1.70634	1.70634
Bag4	NM_026121	5.16E-09	1.70619	1.70619
Zfp692	NM_182996	1.49E-06	1.70509	1.70509
Raver2	NM_183024	2.24E-06	1.70382	1.70382
Ninl	NM_207204	1.43E-06	1.70368	1.70368
Smad3	NM_016769	1.76E-06	1.70008	1.70008
8430419L09Rik	NM_028982	4.66E-07	1.6999	1.6999

Gm5301	XM_621704	1.15E-06	1.69777	1.69777
Pwp2	NM_029546	4.52E-07	1.69761	1.69761
Shank2	ENSMUST00000105902	9.84E-05	1.69679	1.69679
Catsperg1	NM_001164658	8.13E-05	1.69599	1.69599
Bai3	NM_175642	8.49E-05	1.69537	1.69537
Hecw2	NM_001001883	9.32E-05	1.69494	1.69494
Gramd1b	NM_172768	7.72E-05	1.69446	1.69446
Plekho2	NM_153119	1.76E-06	1.69307	1.69307
Mtus2	NM_029920	1.69E-08	1.6924	1.6924
Flt4	NM_008029	9.68E-06	1.69107	1.69107
Pls1	NM_001033210	1.99E-06	1.69017	1.69017
Gm1467	XM_357906	4.37E-05	1.69016	1.69016
Nodal	NM_013611	3.88E-06	1.68978	1.68978
Capn3	NM_007601	6.62E-09	1.68898	1.68898
Ets1	NM_011808	3.52E-07	1.68799	1.68799
Apob	NM_009693	5.81E-08	1.68714	1.68714
1190002A17Rik	NM_001033874	3.94E-06	1.68507	1.68507
Zscan29	NM_178889	3.32E-05	1.68435	1.68435
Lamc3	NM_011836	2.42E-05	1.68382	1.68382
Bik	NM_007546	6.56E-06	1.68288	1.68288
Tdrd9	NM_029056	4.24E-05	1.68149	1.68149
Cspg4	NM_139001	0.000274113	1.67969	1.67969
Nceh1	NM_178772	7.11E-05	1.6752	1.6752
BC005764	NR_033210	1.27E-05	1.67367	1.67367
Slc18a3	NM_021712	0.000631122	1.67341	1.67341
Invs	NM_010569	3.65E-06	1.67242	1.67242
Usp40	NM_001033291	3.13E-06	1.6716	1.6716
Pgf	NM_008827	4.72E-05	1.67077	1.67077
Rab11fip3	NM_001162869	1.12E-06	1.67025	1.67025
Pkd2l2	NM_016927	0.000244831	1.66955	1.66955
Tex21	NM_019784	1.02E-05	1.66951	1.66951
Gm9909	ENSMUST00000054120	5.90E-05	1.66912	1.66912
Pld4	NM_178911	2.57E-08	1.66898	1.66898
Foxn4	NM_148935	4.95E-07	1.66837	1.66837
Crhr2	NM_009953	2.45E-06	1.66828	1.66828
1700024P16Rik	NM_001162980	3.27E-06	1.66204	1.66204
Ccdc64	NM_001080808	7.65E-07	1.66191	1.66191
Myh7	NM_080728	5.78E-07	1.66127	1.66127
Il4ra	NM_001008700	1.68E-07	1.66085	1.66085
Sh2b2	NM_018825	1.12E-06	1.66073	1.66073
Bmp1	NR_033241	0.000159229	1.66054	1.66054
Glis1	NM_147221	7.96E-06	1.6603	1.6603
Nlrp14	NM_001002894	1.30E-06	1.65977	1.65977

Hapln3	NM_178255	9.08E-06	1.65755	1.65755
Fmnl3	NM_011711	2.79E-07	1.65669	1.65669
Mgmt	NM_008598	2.48E-05	1.65644	1.65644
Klhl5	NM_175174	5.05E-07	1.65616	1.65616
Trappc10	NM_001081055	1.01E-05	1.64959	1.64959
Fam20c	NM_030565	2.36E-06	1.64824	1.64824
Itgav	NM_008402	7.47E-08	1.6482	1.6482
Myo5c	NM_001081322	2.87E-06	1.64799	1.64799
Slc2a5	NM_019741	1.88E-05	1.64714	1.64714
Mrps6	NM_080456	2.58E-05	1.64594	1.64594
Spata21	NM_177867	7.01E-07	1.64243	1.64243
Glrb	NM_010298	7.16E-05	1.64222	1.64222
Snrk	NM_133741	2.77E-07	1.64148	1.64148
Iqsec1	NM_001134384	4.06E-06	1.64136	1.64136
Prmt2	NM_133182	7.39E-06	1.64113	1.64113
Map3k7	NM_009316	3.36E-07	1.63966	1.63966
Snx25	NM_207213	2.44E-05	1.63911	1.63911
Arfgap3	NM_025445	0.000452425	1.63897	1.63897
Mlycd	NM_019966	0.000242822	1.63766	1.63766
Lhfp12	NM_172589	0.000190609	1.63658	1.63658
Fam65a	NM_001081241	1.14E-05	1.63648	1.63648
Traf3	NM_011632	3.66E-05	1.63152	1.63152
Bbs4	NM_175325	3.13E-05	1.63104	1.63104
Rabgap1	NM_146121	6.14E-06	1.62976	1.62976
	5-三月 NM_027314	9.70E-05	1.62963	1.62963
Gm4782	XR_032186	9.02E-07	1.62931	1.62931
2310033E01Rik	BC139039	5.77E-07	1.62826	1.62826
Gyg	NM_013755	2.22E-05	1.62824	1.62824
Epb4.1l4b	NM_019427	0.000150434	1.62748	1.62748
Chl1	NM_007697	6.26E-07	1.62533	1.62533
Gpr87	NM_032399	7.88E-05	1.62516	1.62516
Kremen1	NM_032396	9.57E-07	1.62334	1.62334
Thoc6	NM_001008425	0.000230033	1.6227	1.6227
Doc2g	NM_021791	3.26E-06	1.62078	1.62078
Mapk8ip3	NM_013931	1.26E-06	1.62044	1.62044
Elmo3	NM_172760	1.28E-05	1.6199	1.6199
Qsox1	NM_001024945	1.89E-05	1.61911	1.61911
Nphp4	NM_153424	3.01E-06	1.61842	1.61842
Gipc3	NM_148951	6.80E-05	1.61764	1.61764
Gm10768	NR_033472	0.000217214	1.61722	1.61722
Thra	NM_178060	1.39E-07	1.61642	1.61642
Catsperg2	NM_029714	8.01E-06	1.61642	1.61642
Slc22a20	NM_198650	3.08E-05	1.61298	1.61298

Ppp1r3c	NM_016854	9.54E-05	1.61095	1.61095
Pkp3	NM_019762	5.25E-06	1.60984	1.60984
Hgsnat	NM_029884	7.71E-11	1.60983	1.60983
Fam113a	NM_178762	6.54E-05	1.608	1.608
Adcyap1r1	NM_007407	1.18E-05	1.60686	1.60686
Cul9	NM_001081335	8.58E-08	1.60568	1.60568
Ptpru	NM_001083119	2.21E-07	1.60531	1.60531
E330020D12Rik	NM_001177359	2.18E-06	1.60437	1.60437
Disp1	NM_026866	0.00014303	1.60424	1.60424
Zfp809	NM_172763	0.000790554	1.60417	1.60417
Gpc1	NM_016696	0.00044049	1.60387	1.60387
Nfatc1	NM_001164109	1.93E-06	1.60355	1.60355
Impdh1	NM_011829	1.03E-07	1.60334	1.60334
Phc2	NM_018774	3.01E-06	1.60197	1.60197
Cnm2	NM_033569	1.41E-05	1.60158	1.60158
Birc7	NM_001163247	3.83E-07	1.60118	1.60118
Plcg1	NM_021280	0.000176232	1.59835	1.59835
Clip4	NM_030179	8.84E-05	1.59822	1.59822
Mthfsd	NM_172761	2.22E-07	1.59746	1.59746
Camk2b	NM_007595	1.87E-08	1.59729	1.59729
Abo	NM_030718	1.35E-07	1.59653	1.59653
4930572J05Rik	NM_198607	0.00054857	1.59613	1.59613
Gm5134	NM_198635	2.14E-05	1.59558	1.59558
Atmin	NM_177700	1.50E-07	1.59534	1.59534
Fam13a	NM_153574	8.27E-06	1.59525	1.59525
Col1a1	NM_007742	4.62E-05	1.59512	1.59512
Epb4.2	NM_013513	1.45E-07	1.59476	1.59476
Kif15	NM_010620	0.000979437	1.59418	1.59418
Lat	NM_010689	0.000477439	1.59357	1.59357
Ksr1	NM_013571	2.58E-08	1.5932	1.5932
Zfp498	NM_001081431	7.37E-06	1.592	1.592
Gria4	NM_019691	1.56E-05	1.59199	1.59199
Sec24a	NM_175255	0.000312806	1.59189	1.59189
Pla2g2e	NM_012044	6.96E-08	1.59165	1.59165
Jag1	NM_013822	7.21E-05	1.59052	1.59052
Nt5dc3	NM_175331	4.51E-05	1.59013	1.59013
Gsto2	NM_026619	3.44E-07	1.5899	1.5899
Bglap2	NM_001032298	3.45E-05	1.58933	1.58933
Nr1i2	NM_010936	1.36E-05	1.58849	1.58849
Gsto1	NM_010362	3.26E-05	1.5878	1.5878
Afmid	NM_027827	1.34E-07	1.58719	1.58719
Anks1	NM_181413	1.63E-06	1.58679	1.58679
Btbd12	NM_177472	7.35E-06	1.58593	1.58593

Cuedc1	NM_198013	0.000652068	1.58572	1.58572
Plb1	NM_001081407	0.000177932	1.58503	1.58503
4930591A17Rik	ENSMUST00000041998	0.000103986	1.58494	1.58494
Timp3	NM_011595	3.00E-07	1.58472	1.58472
Rgs5	NM_009063	1.07E-05	1.5838	1.5838
Wdr81	NM_138950	2.55E-05	1.58086	1.58086
Tom1l2	NM_153080	3.53E-09	1.5799	1.5799
Ubash3b	NM_176860	8.21E-06	1.57922	1.57922
Nt5c2	NR_028353	0.000218729	1.57759	1.57759
D930015E06Rik	NM_172681	2.60E-05	1.57721	1.57721
Stx2	NM_007941	3.04E-05	1.57668	1.57668
Ski	NM_011385	4.13E-06	1.57506	1.57506
Unc5b	NM_029770	6.49E-06	1.57498	1.57498
Rab44	NM_001002786	2.28E-06	1.57495	1.57495
Plec	NM_201391	1.92E-05	1.57179	1.57179
Aqp6	NM_175087	4.84E-05	1.57169	1.57169
Pdzd2	NM_001081064	0.000225472	1.56994	1.56994
H6pd	NM_173371	5.30E-06	1.56824	1.56824
Cenpm	NM_025639	0.000253016	1.56725	1.56725
Gm13040	NM_001113736	0.000813243	1.5665	1.5665
Sema6a	NM_018744	1.09E-05	1.56579	1.56579
Cd7	NM_009854	0.000177134	1.56489	1.56489
Ephb2	NM_010142	8.46E-07	1.56425	1.56425
Haus6	NM_173400	0.000435455	1.56416	1.56416
Fam105a	BC052328	4.31E-05	1.5635	1.5635
Th	NM_009377	4.38E-05	1.56293	1.56293
Acot11	NM_025590	1.55E-05	1.56104	1.56104
Stk38l	NM_172734	0.000561062	1.56033	1.56033
Ccdc163	NM_026714	0.000270737	1.55996	1.55996
Ppm1n	NM_177691	0.000337324	1.55884	1.55884
Rnf41	NM_001164237	2.41E-06	1.55819	1.55819
Pacs1	NM_153129	0.000173105	1.55801	1.55801
Gbf1	NM_178930	3.04E-06	1.55762	1.55762
Rad9b	NM_144912	0.000780036	1.55628	1.55628
Thumpd2	NM_028138	3.42E-06	1.55536	1.55536
Sema6b	NM_013662	3.42E-05	1.55531	1.55531
Idh1	NM_010497	4.16E-05	1.55508	1.55508
Dopey2	NM_027293	7.85E-07	1.55385	1.55385
Mast4	NM_175171	2.22E-06	1.55377	1.55377
Piwil1	NM_021311	1.16E-05	1.55372	1.55372
Myo1e	NM_181072	0.000575235	1.55226	1.55226
Sp140	NM_001013817	0.000131024	1.55104	1.55104
Gipc2	NM_016867	0.000132233	1.55056	1.55056

Capn12	NM_001110807	1.03E-06	1.5497	1.5497
Ppp5c	NM_011155	1.44E-06	1.54912	1.54912
Pdlim3	NM_016798	7.20E-06	1.54905	1.54905
Mtss1l	NM_198625	5.80E-05	1.54863	1.54863
Otof	NM_031875	8.94E-06	1.54737	1.54737
C330024D21Rik	NR_015582	0.000205879	1.54369	1.54369
Bmpr2	NM_007561	0.000253007	1.54357	1.54357
Zmpste24	NM_172700	0.00010933	1.54105	1.54105
Gramd4	NM_172611	3.84E-06	1.54028	1.54028
Mfsd7b	NM_001081259	0.000114987	1.53975	1.53975
Afap1l1	NM_178928	5.36E-05	1.53751	1.53751
Sin3b	NM_009188	1.48E-06	1.5374	1.5374
Ftsjd2	NM_028791	0.000743679	1.53739	1.53739
Gm4005	XM_001476146	8.83E-06	1.53687	1.53687
Tmem132a	NM_133804	1.13E-05	1.53646	1.53646
Wnt3a	NM_009522	6.71E-05	1.5354	1.5354
Gypa	NM_010369	1.75E-05	1.53531	1.53531
Cyp19a1	NM_007810	3.72E-05	1.53512	1.53512
BC011248	NM_144857	3.80E-06	1.53398	1.53398
D730039F16Rik	BC021771	1.52E-07	1.53325	1.53325
Eif2ak1	NM_013557	4.68E-07	1.53237	1.53237
Gstm6	NM_008184	7.56E-05	1.53153	1.53153
Acad10	NM_028037	2.69E-06	1.53135	1.53135
Tmem131	NM_018872	9.52E-05	1.53013	1.53013
BC067074	ENSMUST00000078163	2.06E-05	1.53011	1.53011
Atl1	NM_178628	0.000323448	1.53	1.53
Fbxo28	NM_175127	0.000984385	1.52927	1.52927
Stox1	NM_001033260	0.000240681	1.52857	1.52857
Elovl1	NM_019422	0.000772215	1.52679	1.52679
Dvl3	NM_007889	3.16E-07	1.52664	1.52664
Git2	NM_019834	9.95E-05	1.52541	1.52541
Ttc38	NM_001033337	0.000134638	1.52491	1.52491
Gnb1l	NM_023120	1.86E-06	1.52339	1.52339
Ccdc151	NM_001163787	0.00057169	1.52322	1.52322
Pde11a	NM_001081033	2.99E-06	1.52278	1.52278
Utp20	NM_175158	0.000429168	1.52276	1.52276
Ttc17	NM_183106	1.27E-05	1.5225	1.5225
Trp53inp2	NM_178111	6.86E-05	1.5225	1.5225
Mup2	NM_001045550	5.26E-08	1.52166	1.52166
Arntl	NM_007489	9.33E-06	1.52148	1.52148
Hepacam	NM_175189	0.00019118	1.52004	1.52004
Crygf	NM_027010	0.000531694	1.51946	1.51946
Ccna1	NM_007628	9.27E-06	1.51941	1.51941

Prdm16	NM_027504	9.56E-07	1.51929	1.51929
Sec31b	NM_001033343	0.000147523	1.51544	1.51544
Csf1	NM_007778	4.44E-07	1.5146	1.5146
Ltf	NM_008522	6.99E-05	1.51452	1.51452
Rnasek	NM_173742	4.30E-06	1.51418	1.51418
Mknk2	NM_021462	6.58E-06	1.51407	1.51407
Hdgfrp3	NM_013886	5.10E-05	1.51405	1.51405
Mia2	NM_177321	0.000855892	1.51261	1.51261
Clip1	NM_019765	5.17E-07	1.51145	1.51145
Chst15	NM_029935	3.27E-05	1.51005	1.51005
Crocc	NM_172122	1.02E-06	1.50978	1.50978
Cpn1	NM_030703	0.000238895	1.50711	1.50711
Edc4	NM_181594	0.000281567	1.50654	1.50654
Inpp5d	NM_010566	2.25E-07	1.50634	1.50634
Mfap4	NM_029568	0.000279259	1.50627	1.50627
Usp50	NM_029163	1.71E-05	1.50575	1.50575
Selp	NM_011347	0.00011697	1.50527	1.50527
1700048O20Rik	NR_033553	0.000834956	1.50512	1.50512
9530053A07Rik	NM_001164655	3.49E-05	1.50512	1.50512
Zer1	NM_178694	0.000130447	1.5045	1.5045
Cav2	NM_016900	0.000101835	1.50431	1.50431
Nmt1	NM_008707	2.04E-07	1.50408	1.50408
Dhx35	ENSMUST00000029186	6.76E-06	1.50341	1.50341
Zfp74	NM_178384	0.000122692	1.50334	1.50334
Pdgfra	NM_011058	0.00011681	1.50268	1.50268
Pik3cb	NM_029094	1.74E-06	1.50264	1.50264
Epb4.111	NM_013510	8.30E-05	1.50261	1.50261
Rere	NM_001085492	2.43E-05	1.50208	1.50208
9030409G11Rik	NM_144531	1.79E-05	1.50155	1.50155
Mef2a	NM_001033713	5.98E-06	1.50144	1.50144
Pnpla1	NM_001034885	0.000111193	1.50144	1.50144
Cic	NM_027882	1.68E-05	1.50134	1.50134
Klhl10	NM_025727	0.00011246	1.50119	1.50119
Coq2	NM_027978	4.02E-05	1.5008	1.5008
Myh14	NM_028021	1.45E-05	1.50026	1.50026
Pbx4	NM_001024954	0.000993056	1.50008	1.50008
Sesn1	NM_001162908	6.70E-05	1.49994	1.49994
Sync	NM_023485	0.000661786	1.49935	1.49935
lqcg	NM_178378	7.87E-06	1.49856	1.49856
Hes6	NM_019479	2.20E-07	1.49814	1.49814
Dnajb4	NM_025926	0.000957901	1.49793	1.49793
Vwf	NM_011708	3.78E-06	1.49784	1.49784
4933409K07Rik	NR_033123	1.44E-05	1.49645	1.49645

Nxn	NM_008750	8.20E-06	1.49602	1.49602
Fam149b	NM_172379	8.43E-05	1.49594	1.49594
Nedd9	NM_001111324	0.000215373	1.49573	1.49573
Ctnnd2	NM_008729	9.28E-06	1.49555	1.49555
Mad1l1	NM_010752	3.59E-06	1.49407	1.49407
Gpat2	NM_001081089	4.44E-05	1.49294	1.49294
Ankrd23	NM_153502	0.000253169	1.49242	1.49242
Fam120a	NM_001033268	2.33E-08	1.49197	1.49197
Katnal1	NM_153572	0.000420264	1.49145	1.49145
Rcan1	NM_001081549	0.000259625	1.48744	1.48744
Uckl1	NM_026765	0.000708328	1.48722	1.48722
Ccdc64b	NM_153784	2.66E-07	1.48656	1.48656
Slc27a4	NM_011989	3.33E-05	1.48653	1.48653
Cldn18	NM_019815	1.10E-05	1.48542	1.48542
Fam78a	BC137951	0.000205245	1.485	1.485
Nrip2	NM_021717	4.86E-06	1.48477	1.48477
Hlcs	NM_139145	0.000168375	1.48431	1.48431
Pkn3	NM_153805	2.32E-05	1.48424	1.48424
Kdm1b	NM_172262	0.000123094	1.48354	1.48354
Rsu1	NM_009105	5.39E-05	1.48335	1.48335
Gm1661	NM_001145637	5.56E-06	1.48315	1.48315
Obfc2b	NM_027257	6.81E-07	1.48296	1.48296
Tecpr2	NM_001081057	3.09E-06	1.48246	1.48246
Ret	NM_001080780	2.39E-06	1.48215	1.48215
Cxcl14	NM_019568	0.000341872	1.48205	1.48205
Mgat5b	NM_172948	7.18E-05	1.48061	1.48061
Plxb1	NM_172775	5.30E-05	1.48003	1.48003
Mtmr10	NM_172742	7.49E-05	1.47911	1.47911
Traf1	NM_009421	6.32E-05	1.47862	1.47862
Ankrd13b	NM_172945	3.31E-06	1.47805	1.47805
6230409E13Rik	NM_175234	0.000176713	1.47697	1.47697
Synj1	NM_001045515	0.000216757	1.47467	1.47467
Fam129c	NM_001166213	2.70E-05	1.474	1.474
Csgalnact2	NM_030165	3.14E-06	1.47359	1.47359
Nudt5	NM_016918	0.000959518	1.47342	1.47342
Ky	NM_024291	1.02E-05	1.4734	1.4734
Ptprs	NM_011218	3.96E-06	1.47337	1.47337
Snx19	NM_028874	0.000437944	1.47337	1.47337
Kcnp2	NM_145703	0.000220711	1.47327	1.47327
Zfand2a	NM_133349	0.000219625	1.47325	1.47325
Ick	NM_019987	0.000275063	1.47247	1.47247
Atad3a	NM_179203	3.04E-06	1.47192	1.47192
Abhd6	NM_025341	0.000170534	1.47134	1.47134

Stk10	NM_009288	1.24E-05	1.47093	1.47093
Mthfd1	NM_138745	1.21E-06	1.46998	1.46998
Slc7a8	NM_016972	1.28E-05	1.46947	1.46947
Gm5887	NM_001034903	9.95E-05	1.46835	1.46835
Wipi1	NM_145940	0.000436529	1.46827	1.46827
Acsbg2	NM_001039114	0.000372262	1.46769	1.46769
Rnf166	NM_001033142	0.000159604	1.46683	1.46683
Dysf	NM_021469	1.03E-06	1.46608	1.46608
Slc2a10	NM_130451	0.000272768	1.46587	1.46587
Mst1r	NM_009074	0.000244727	1.46573	1.46573
Tmem211	NM_001033428	0.000833875	1.46506	1.46506
Scmh1	NM_013883	0.000100738	1.46468	1.46468
Zhx2	NM_199449	0.000869915	1.46425	1.46425
Ddx56	NM_026538	0.000501868	1.46284	1.46284
Rbm34	NM_172762	3.63E-05	1.46278	1.46278
Cacna1e	NM_009782	1.92E-05	1.46218	1.46218
Tmem8c	NM_025376	0.000541826	1.46089	1.46089
Rfx6	NM_001159389	0.000133482	1.46069	1.46069
Plk2	NM_026163	0.000916895	1.46069	1.46069
Nsf	NM_008740	7.60E-06	1.45921	1.45921
Trpa1	NM_177781	5.40E-05	1.45909	1.45909
Kcnb1	NM_008420	0.000435391	1.45908	1.45908
Ogdhl	NM_001081130	9.26E-05	1.45884	1.45884
Mobkl2a	NM_172457	2.49E-05	1.45823	1.45823
5930434B04Rik	NM_029862	1.66E-05	1.45803	1.45803
Tmem90a	NM_001033334	0.000460576	1.45792	1.45792
Bhlha15	NM_010800	0.000100554	1.45686	1.45686
Wnk2	NM_029361	6.75E-05	1.45605	1.45605
Pcsk6	NM_011048	0.000180292	1.45547	1.45547
Dnm2	NM_001039520	5.92E-06	1.45452	1.45452
Dok3	NM_013739	1.52E-05	1.45342	1.45342
Mapk13	NM_011950	0.000133328	1.45311	1.45311
Igf2r	NM_010515	2.56E-05	1.45214	1.45214
Trpv2	NM_011706	3.51E-05	1.45174	1.45174
Dak	NM_145496	3.67E-06	1.4516	1.4516
Ergic1	NM_026170	1.04E-05	1.45089	1.45089
Tmc3	NM_177695	0.000140655	1.45037	1.45037
Fam13c	NM_024244	4.27E-07	1.45017	1.45017
Arhgap21	NM_001128084	0.000724512	1.44802	1.44802
Large	NM_010687	7.22E-05	1.44693	1.44693
4933430117Rik	BC116650	4.11E-05	1.4469	1.4469
Ccdc73	NM_177600	0.000871237	1.44671	1.44671
Stra6	NM_009291	8.20E-05	1.44542	1.44542

Arhgef9	NM_001033329	2.79E-06	1.44513	1.44513
Gtf2e1	NM_028812	1.69E-05	1.44414	1.44414
Ptpn21	NM_011877	3.78E-05	1.44397	1.44397
Ifngr2	NM_008338	0.000142634	1.44292	1.44292
Flot2	NM_008028	0.000906657	1.4422	1.4422
Sympk	NM_026605	1.72E-07	1.44129	1.44129
Hspg2	NM_008305	2.72E-05	1.44049	1.44049
Ndn	NM_010882	0.000240664	1.44011	1.44011
4933407H18Rik	NM_001081101	0.000149561	1.439	1.439
BC057079	NM_001081184	0.000147643	1.43867	1.43867
Tacc2	NM_001004468	0.000153695	1.43864	1.43864
Agap3	NM_139153	7.36E-06	1.43728	1.43728
Folr2	NM_008035	9.55E-05	1.43711	1.43711
Mir93	NR_029749	8.14E-05	1.43652	1.43652
Fam184a	NM_001081428	2.09E-05	1.43601	1.43601
Mark4	NM_172279	1.23E-05	1.43572	1.43572
Msrp3	NM_177092	8.13E-05	1.43441	1.43441
Fam132a	NM_026125	0.000313604	1.43402	1.43402
Rbm20	NM_001170847	1.67E-06	1.43368	1.43368
Man2a1	NM_008549	0.000193071	1.43321	1.43321
Cyth3	NM_011182	4.07E-05	1.43319	1.43319
Capzb	NM_001037761	5.78E-06	1.43314	1.43314
Taf6	NM_009315	1.52E-05	1.43237	1.43237
Clstn3	NM_153508	4.20E-05	1.43153	1.43153
Sh3bp5	NM_011894	1.01E-05	1.43115	1.43115
Camk2a	NM_177407	1.33E-05	1.43022	1.43022
Rad51	NM_011234	2.19E-06	1.4293	1.4293
Nprl3	NM_181569	1.12E-05	1.42911	1.42911
Slc9a3r2	NM_023055	0.000500987	1.42787	1.42787
Drp2	NM_010078	1.03E-06	1.42744	1.42744
Smad9	NM_019483	0.000679026	1.4268	1.4268
Parp11	NM_181402	0.000156746	1.42676	1.42676
Zfp385c	NM_177790	0.000163102	1.42587	1.42587
Gm15800	BC051044	3.43E-05	1.42553	1.42553
Bai1	NM_174991	9.91E-05	1.42488	1.42488
Mbnl1	NM_020007	8.58E-05	1.42387	1.42387
Arpp21	NM_033264	1.09E-06	1.42301	1.42301
Glce	NM_033320	3.51E-05	1.42176	1.42176
Letm1	NM_019694	0.000159364	1.42144	1.42144
Lmod1	NM_053106	3.20E-05	1.42106	1.42106
Nos1	NM_008712	9.66E-05	1.42023	1.42023
6230427J02Rik	NM_026597	0.000442125	1.41914	1.41914
Itga10	NM_001081053	0.000547574	1.41914	1.41914

Clcn7	NM_011930	0.000937454	1.41909	1.41909
Prmt8	NM_201371	0.000694539	1.41854	1.41854
Rab11fip5	NM_001003955	0.000682931	1.41827	1.41827
Sec14l4	NM_146013	1.38E-06	1.41751	1.41751
Cyp2f2	NM_007817	1.73E-06	1.41484	1.41484
Cd82	NM_007656	0.000914511	1.41471	1.41471
Cdan1	NM_026891	2.42E-05	1.41406	1.41406
Hnf4a	NM_008261	0.000238344	1.41404	1.41404
Slc12a5	NM_020333	2.97E-05	1.4134	1.4134
Fam114a1	NM_026667	0.000805764	1.41152	1.41152
Wdr93	NM_001037927	0.000134287	1.41134	1.41134
Pak2	NM_177326	3.25E-05	1.41088	1.41088
Hebp2	NM_019487	0.000304906	1.41074	1.41074
6330578E17Rik	NM_198006	1.73E-05	1.41026	1.41026
Akr7a5	NM_025337	7.47E-05	1.40997	1.40997
Atp13a1	NM_133224	1.53E-05	1.40938	1.40938
Cldn6	NM_018777	0.000149485	1.40925	1.40925
Scnn1b	NM_011325	0.000448963	1.40821	1.40821
Hexdc	NM_001146073	0.000218445	1.40777	1.40777
Rffl	NM_001164570	0.000341794	1.40772	1.40772
Fsip1	NM_027759	2.47E-05	1.40727	1.40727
Greb1	NM_015764	5.91E-05	1.40701	1.40701
Rgs9	NM_011268	0.000180921	1.40679	1.40679
Tmem38a	NM_144534	5.25E-06	1.40658	1.40658
Ap3s2	NM_009682	8.54E-05	1.40649	1.40649
Cdkl1	NM_183294	2.49E-06	1.40647	1.40647
Smurf1	NM_001038627	0.000155059	1.40494	1.40494
Tyrp1	NM_031202	4.31E-05	1.404	1.404
Prss50	NM_146227	0.000319462	1.40384	1.40384
Rfng	NM_009053	0.00063725	1.40366	1.40366
Sel1l	NM_001039089	2.50E-05	1.40332	1.40332
Cul4a	NM_146207	5.05E-05	1.40328	1.40328
Ntng2	NM_133501	0.000238404	1.40226	1.40226
Nhs	NM_001081052	6.19E-05	1.40177	1.40177
Smg6	NM_001002764	2.11E-05	1.40057	1.40057
Inpp5f	NM_178641	1.57E-07	1.40041	1.40041
9930013L23Rik	NM_030728	4.15E-05	1.40005	1.40005
Gm1027	NM_001126487	9.10E-06	1.39993	1.39993
Man1a2	NM_010763	0.000239799	1.39959	1.39959
Gpnmb	NM_053110	0.00017111	1.39894	1.39894
Ltbr	NM_010736	0.000437675	1.39878	1.39878
Espn	NM_207687	2.71E-05	1.39878	1.39878
Alkbh3	NM_026944	0.000753963	1.39807	1.39807

Trim66	NM_001170912	3.76E-06	1.39712	1.39712
E130309D14Rik	BC150886	0.000144272	1.39607	1.39607
Adck2	NM_178873	0.000674203	1.39556	1.39556
Card14	NM_130886	1.44E-05	1.3954	1.3954
Cd177	NM_026862	4.75E-07	1.39528	1.39528
Fry	NM_172887	2.25E-05	1.39487	1.39487
Ankrd46	NM_175134	0.000470479	1.39486	1.39486
Spats2l	NM_144882	9.07E-05	1.39424	1.39424
Cep110	NM_012018	0.000113484	1.39404	1.39404
Kcnd1	NM_008423	7.81E-05	1.39374	1.39374
Sik3	NM_027498	6.27E-05	1.39345	1.39345
6030458C11Rik	NM_029998	0.000914024	1.39218	1.39218
Polr2a	NM_009089	3.67E-05	1.38946	1.38946
Slc5a2	NM_133254	5.79E-06	1.38936	1.38936
Scrib	NM_134089	7.08E-07	1.38884	1.38884
Fbn1	NM_007993	0.000108293	1.38859	1.38859
Wls	NM_026582	0.000144542	1.38721	1.38721
2310046O06Rik	NM_001166364	0.000809096	1.38685	1.38685
Mup7	NM_001134675	6.74E-06	1.38662	1.38662
Slc39a4	NM_028064	0.000391126	1.38654	1.38654
Inpp1	NM_010567	0.000503182	1.38539	1.38539
Fam3b	NM_020622	0.000545401	1.3842	1.3842
Ttc7b	NM_001033213	0.000518354	1.38362	1.38362
Cln6	NM_001033175	8.94E-06	1.38353	1.38353
Araf	NM_009703	0.000168675	1.3834	1.3834
Ppfibp2	NM_008905	4.41E-05	1.38336	1.38336
Ppp2r5a	NM_144880	0.000138373	1.38328	1.38328
Tmem63a	NM_144794	6.05E-05	1.3831	1.3831
Shroom3	NM_015756	9.83E-06	1.383	1.383
Krt36	NM_001174099	3.09E-05	1.38247	1.38247
Arc	NM_018790	8.63E-05	1.38233	1.38233
Map3k15	NM_001163085	7.32E-07	1.38231	1.38231
Man1c1	NM_207237	0.000169737	1.38199	1.38199
Dmwd	NM_010058	1.84E-05	1.38141	1.38141
Smarcc2	NM_001114097	1.54E-05	1.38063	1.38063
Cd274	NM_021893	0.000134518	1.37877	1.37877
Ints1	NM_026748	0.000103682	1.37693	1.37693
Abcc9	NM_021041	1.28E-05	1.37563	1.37563
Arg2	NM_009705	0.000353569	1.37544	1.37544
Extl1	NM_019578	3.48E-05	1.37514	1.37514
Spag16	NM_029160	3.54E-05	1.37412	1.37412
Rasal3	NM_178785	3.67E-06	1.37358	1.37358
Ccdc113	NM_172914	9.45E-05	1.37325	1.37325

Cxx1a	NM_024170	0.000215594	1.37303	1.37303
BC049715	NM_178776	0.000325674	1.37253	1.37253
2310028H24Rik	NM_001159583	0.000101048	1.37204	1.37204
Odf2	NM_001113213	0.000167855	1.37185	1.37185
Dlec1	NM_177117	0.000109042	1.37013	1.37013
Atp6v0e2	NM_133764	0.000101086	1.37002	1.37002
Kif1a	NM_008440	1.85E-05	1.36956	1.36956
A630001O12Rik	ENSMUST00000098306	0.000383911	1.3692	1.3692
Fam161a	NM_028672	5.65E-05	1.36892	1.36892
Recql4	NM_058214	3.32E-06	1.36881	1.36881
Prodh2	NM_019546	0.000169426	1.36881	1.36881
Evl	NM_001163394	4.40E-06	1.36802	1.36802
Pycard	NM_023258	0.000462563	1.36787	1.36787
Cd40	NR_027852	0.000977086	1.36737	1.36737
Ccdc97	NM_028771	3.89E-06	1.36666	1.36666
4932425I24Rik	NM_001081025	4.32E-06	1.36656	1.36656
Dennd2a	NM_172477	1.10E-05	1.36605	1.36605
Epb4.1I3	NM_013813	3.06E-05	1.3655	1.3655
Npas3	NM_013780	1.49E-06	1.36469	1.36469
Pmepa1	NM_022995	1.40E-05	1.36441	1.36441
Phf3	NM_001081080	0.000698814	1.36312	1.36312
Rfx4	NM_001024918	1.11E-05	1.36274	1.36274
Fzd6	NM_008056	9.61E-08	1.36191	1.36191
Nfix	NM_001081981	0.000396146	1.36172	1.36172
Cpeb2	NM_175937	1.51E-05	1.36027	1.36027
Dck	NM_007832	0.00013571	1.35907	1.35907
Mb	NM_013593	0.000402536	1.35858	1.35858
Pkdcc	NM_134117	0.000411256	1.35841	1.35841
C330006K01Rik	NM_172725	3.53E-05	1.35798	1.35798
Col16a1	NM_028266	0.000122546	1.35767	1.35767
Iqgap1	NM_016721	3.13E-05	1.35696	1.35696
Papola	NM_011112	4.04E-08	1.35674	1.35674
Gsn	NM_146120	1.13E-05	1.35655	1.35655
Vps33a	NM_029929	1.65E-06	1.35564	1.35564
Al428936	NM_153577	1.36E-05	1.35443	1.35443
Rab11a	NM_017382	0.000469715	1.35429	1.35429
Ttc16	NM_177384	1.13E-06	1.35416	1.35416
Sos2	NM_001135559	0.000811624	1.3526	1.3526
Stard9	ENSMUST00000099504	0.000145465	1.35165	1.35165
Fam20a	NM_153782	6.35E-05	1.35087	1.35087
Ccdc55	NM_001012309	0.00051357	1.35075	1.35075
Nkx3-1	NM_010921	2.38E-05	1.34848	1.34848
Ythdc1	NM_177680	1.09E-05	1.34782	1.34782

Ralgsps1	NM_175211	1.07E-06	1.34767	1.34767
Dnajb1	NM_018808	0.000522589	1.34734	1.34734
Hdac6	NM_010413	3.68E-05	1.34654	1.34654
Utrn	NM_011682	0.00017264	1.34606	1.34606
Ctr9	NM_009431	5.96E-05	1.3457	1.3457
Kif3b	NM_008444	7.28E-05	1.34433	1.34433
Gm505	BC158088	5.42E-06	1.34385	1.34385
1700028K03Rik	NM_182745	0.000533987	1.34318	1.34318
Nefh	NM_010904	0.000456254	1.34262	1.34262
Fgfr1	NM_010206	1.22E-06	1.34212	1.34212
Acan	NM_007424	9.27E-08	1.34183	1.34183
Tsnax	NM_016909	0.000523966	1.3417	1.3417
Myh11	NM_013607	1.44E-05	1.34139	1.34139
Prrx2	NM_009116	0.000153282	1.34126	1.34126
Tanc1	NM_198294	2.40E-05	1.34117	1.34117
Lrsam1	NM_199302	0.000908253	1.33935	1.33935
Atxn1	NM_009124	0.000108132	1.33818	1.33818
Mcl1	NM_008562	5.33E-07	1.3372	1.3372
Fam81a	BC025646	2.88E-05	1.33638	1.33638
Tbc1d9b	NM_029745	0.000292937	1.33581	1.33581
1110012D08Rik	ENSMUST00000051011	0.000472925	1.33468	1.33468
AU040320	NM_001035526	0.000843594	1.33389	1.33389
Grik5	NM_008168	4.59E-05	1.33285	1.33285
Gfra4	NM_020014	0.000317708	1.33285	1.33285
Rusc2	NM_001037709	0.000201361	1.33282	1.33282
Ccdc150	NM_030025	1.05E-05	1.33208	1.33208
5133401N09Rik	NM_198004	8.31E-05	1.33126	1.33126
Mink1	NM_001045959	3.33E-05	1.33093	1.33093
Tcfcp2	NM_033476	0.000266602	1.33047	1.33047
Rnmtl1	NM_183263	0.000612273	1.33034	1.33034
Nsun3	NM_178925	0.000945948	1.32873	1.32873
2310021P13Rik	BC151046	3.94E-05	1.32807	1.32807
Abca2	NM_007379	1.35E-05	1.32785	1.32785
	5-九月 NM_213614	0.000825302	1.3273	1.3273
Chit1	NM_027979	1.43E-05	1.32715	1.32715
Adck5	NM_172960	0.000132366	1.32502	1.32502
Abi1	NM_001077190	2.69E-05	1.3249	1.3249
Wscd2	NM_177292	0.000300871	1.32443	1.32443
Gbp3	NM_018734	0.000904916	1.32441	1.32441
Fam101b	NM_029658	0.000656371	1.32397	1.32397
Mlf2	NM_145385	0.000411954	1.32376	1.32376
Mbd6	NM_033072	0.00041064	1.32289	1.32289
Cars	NM_013742	0.000104134	1.32273	1.32273

Hs1bp3	NM_021429	8.87E-05	1.32106	1.32106
Pkn1	NM_177262	1.49E-06	1.321	1.321
Kalrn	NM_177357	8.41E-05	1.32054	1.32054
Herpud2	NM_020586	0.000238788	1.32017	1.32017
Cpeb4	NM_026252	0.000136676	1.31951	1.31951
Cngb1	BC045114	2.54E-05	1.31935	1.31935
Stard13	NM_001163493	0.000461578	1.31894	1.31894
Osmr	NM_011019	0.000132477	1.31826	1.31826
Hdgfl1	NM_008232	0.000386052	1.31806	1.31806
Dnttip1	NM_133763	7.55E-05	1.31792	1.31792
Dffa	NM_001025296	5.77E-06	1.3177	1.3177
Gm10324	NM_001177832	2.22E-05	1.31753	1.31753
Epb4.1I5	NM_145506	0.000318382	1.31678	1.31678
Chga	NM_007693	0.000733486	1.31647	1.31647
Phf2	NM_011078	2.05E-05	1.31575	1.31575
Tex2	NM_198292	0.000103539	1.31536	1.31536
Spock2	NM_052994	6.80E-05	1.31458	1.31458
Slc39a14	NM_001135151	0.000387316	1.31334	1.31334
Ptdss2	NM_013782	0.000588642	1.31261	1.31261
Tgfbr2	NM_009371	9.32E-05	1.31213	1.31213
Ass1	NM_007494	0.000566911	1.31069	1.31069
N4bp1	NM_030563	1.83E-06	1.31028	1.31028
Plcd3	NM_152813	0.000990896	1.30846	1.30846
2310003H01Rik	NM_027980	0.000251105	1.30636	1.30636
Zfp324	NM_178732	0.000254104	1.30615	1.30615
Rela	NM_009045	0.000516211	1.30599	1.30599
Fuk	NM_172283	0.000218473	1.30463	1.30463
Hemk1	NM_133984	5.51E-06	1.30419	1.30419
Sel1I3	NM_172710	8.84E-05	1.303	1.303
Psap	NM_001146120	1.31E-05	1.30267	1.30267
Tmem110	NM_028839	0.000411714	1.30219	1.30219
Gm6310	XM_886739	0.000436033	1.30205	1.30205
Ccdc117	NM_134033	6.45E-05	1.30119	1.30119
Nmral1	NM_026393	0.00038574	1.29943	1.29943
Zmynd8	NM_027230	0.000482747	1.29935	1.29935
Cyp4f40	NM_001101588	0.000237797	1.29803	1.29803
Rbm9	NM_053104	2.97E-05	1.29739	1.29739
Zfp839	NM_028365	4.29E-05	1.29734	1.29734
Fbxo41	NM_001001160	0.000988582	1.29704	1.29704
Cabyr	NM_027687	0.000119645	1.29654	1.29654
Ttc19	NM_028360	0.000667055	1.29626	1.29626
Lamb1-1	NM_008482	8.91E-05	1.29442	1.29442
Col5a1	NM_015734	5.48E-05	1.29432	1.29432

Gba2	NM_172692	0.000685287	1.29412	1.29412
Smap2	NM_133716	0.000271307	1.2937	1.2937
Ube2i	NM_011665	3.10E-05	1.29263	1.29263
Nbas	NM_027706	0.000447375	1.29237	1.29237
B230208H17Rik	NM_001024616	0.000795449	1.29038	1.29038
Ncf2	NM_010877	0.000725737	1.28897	1.28897
Sfrs8	NM_172276	1.62E-05	1.28778	1.28778
Lars2	NM_153168	0.000528568	1.28756	1.28756
Ttll12	NM_183017	0.000812334	1.28662	1.28662
Adrbk2	NM_177078	0.000148581	1.28619	1.28619
Samd8	NM_026283	0.000135066	1.28525	1.28525
Farp1	NM_134082	0.000534019	1.28369	1.28369
Mapkap1	NM_177345	0.000435979	1.28332	1.28332
Rnf126	NM_144528	0.000204315	1.28316	1.28316
BC060267	BC060267	9.37E-05	1.28313	1.28313
Tex261	NM_009357	0.000263728	1.28224	1.28224
Polr3d	NM_025945	8.51E-05	1.28189	1.28189
Slc24a6	NM_133221	0.000531978	1.28099	1.28099
Canx	NM_007597	0.000385359	1.2801	1.2801
Zc3h6	NM_178404	0.000430728	1.27973	1.27973
1300001I01Rik	BC072573	0.000330774	1.27912	1.27912
Adam22	NM_001007220	0.000930572	1.27864	1.27864
Xpnpep2	NM_133213	0.000326254	1.27849	1.27849
Dmkn	NM_001166173	4.91E-06	1.2784	1.2784
Ap3m2	NM_001122820	0.000148857	1.27683	1.27683
Pigq	NM_011822	4.54E-05	1.27648	1.27648
Csrp1	NM_007791	5.77E-05	1.27643	1.27643
Cdkl3	NM_153785	0.000899249	1.27635	1.27635
Slitrk5	NM_198865	0.000704539	1.27613	1.27613
Mta1	NM_054081	6.28E-05	1.27564	1.27564
2010015L04Rik	NM_177674	3.30E-05	1.27536	1.27536
Phf7	NM_027949	0.000520447	1.27516	1.27516
Xpc	NM_009531	6.16E-05	1.27439	1.27439
Dstn	NM_019771	2.96E-05	1.27436	1.27436
Stat5a	NM_011488	0.000180039	1.27423	1.27423
Rcbtb1	NM_027764	0.000461433	1.27384	1.27384
Szt2	NM_198170	0.000135325	1.27291	1.27291
Phldb1	NM_153537	9.44E-07	1.26994	1.26994
Stab1	NM_138672	0.000719335	1.26978	1.26978
Rltpr	NM_001033320	0.000652673	1.26911	1.26911
Slc2a7	NM_001085529	0.000246543	1.2685	1.2685
Ccdc67	NM_181816	0.00013004	1.26815	1.26815
Pamr1	NM_173749	7.59E-05	1.2676	1.2676

Anapc16	NM_025514	0.000888045	1.26672	1.26672
Vps24	NM_025783	0.000174299	1.26661	1.26661
Adcy3	NM_001159537	0.000130385	1.26631	1.26631
Gm16515	NM_025294	0.000572534	1.26566	1.26566
Stat5b	NM_001113563	5.62E-05	1.26469	1.26469
E030019B06Rik	BC116882	9.52E-05	1.26356	1.26356
Galnt9	NM_198306	0.000229155	1.26307	1.26307
Dctn4	NM_026302	0.000996875	1.26001	1.26001
Trrap	NM_001081362	0.000371787	1.25977	1.25977
Plxna3	NM_008883	1.38E-05	1.25938	1.25938
Aprt	NM_009698	3.73E-05	1.25927	1.25927
Grina	NM_023168	4.66E-06	1.25846	1.25846
Tm7sf3	NM_026281	0.000973247	1.25766	1.25766
Tsc2	NM_011647	7.76E-06	1.25652	1.25652
Sorbs1	NM_178362	0.000391334	1.25544	1.25544
Spn	NM_009259	5.48E-05	1.25537	1.25537
Nlk	NM_008702	0.000618031	1.25511	1.25511
Pclo	NM_011995	4.25E-06	1.25467	1.25467
Mical2	NM_177282	0.00014967	1.25219	1.25219
BC037034	NM_153161	0.000567548	1.25127	1.25127
Dci	NM_010023	0.000111566	1.24991	1.24991
Gtf2ird2	NM_053266	0.000122551	1.24858	1.24858
Zfp536	NM_172385	5.39E-05	1.24823	1.24823
Sgsh	NM_018822	9.26E-05	1.24725	1.24725
Peli2	NM_033602	0.000459638	1.24464	1.24464
6720456H20Rik	NM_172600	0.000853688	1.24416	1.24416
Anub1	NM_001081317	0.000240538	1.24193	1.24193
5830477G23Rik	ENSMUST00000115745	0.00022399	1.24112	1.24112
Apc	NM_007462	0.00063224	1.24057	1.24057
Spns2	NM_153060	0.00060681	1.23992	1.23992
Ano2	NM_153589	0.000991773	1.23961	1.23961
Sorbs3	NM_011366	0.000275763	1.23738	1.23738
E2f1	NM_007891	0.00039192	1.23659	1.23659
Fam168b	NM_001160235	0.000159675	1.23437	1.23437
Smad1	NM_008539	0.000165979	1.23361	1.23361
Prrc1	NM_028447	2.73E-05	1.23246	1.23246
Ptp4a1	NM_011200	0.000308255	1.2323	1.2323
Samd5	NM_177271	0.00047895	1.2321	1.2321
Lhpp	NM_029609	0.000783225	1.22779	1.22779
Pof1b	NM_181579	0.000174191	1.22401	1.22401
Gm600	ENSMUST00000079469	0.000337682	1.2239	1.2239
Acp1	NM_001110239	0.000419134	1.223	1.223
Grip1	NM_028736	0.000236534	1.22026	1.22026

Dhx16	NM_026987	0.000124809	1.2183	1.2183
Mkl2	NM_153588	4.45E-05	1.21799	1.21799
Ppp1r14b	NM_008889	0.000149704	1.21749	1.21749
Abtb2	NM_178890	0.000559553	1.21716	1.21716
Znf512b	NM_001164597	2.93E-05	1.21564	1.21564
Acox1	NM_015729	3.15E-05	1.21317	1.21317
Gcap14	NM_027045	5.06E-05	1.21171	1.21171
Dot1l	NM_199322	0.000934305	1.21162	1.21162
A330021E22Rik	BC062906	0.000217813	1.20846	1.20846
Ddx1	NM_134040	0.000836982	1.20722	1.20722
Adamts17	NM_001033877	0.000491024	1.20429	1.20429
Zdhhc4	NM_028379	6.50E-05	1.20374	1.20374
Pcbd2	NM_028281	5.07E-05	1.20308	1.20308
Trim37	NM_197987	0.000460017	1.20002	1.20002
Usp19	NM_027804	0.000802393	1.19937	1.19937
Lzts2	NM_145503	0.00084693	1.19832	1.19832
Srcin1	NM_018873	0.000561505	1.19748	1.19748
Srgap1	NM_001081037	0.000989974	1.19597	1.19597
Accn1	NM_001034013	0.000584797	1.19486	1.19486
Bud13	NM_146000	4.19E-06	1.19386	1.19386
Rogdi	NM_133185	0.000177677	1.19348	1.19348
Dcaf7	NM_027946	0.000549549	1.19229	1.19229
Arhgef5	NM_133674	0.000270051	1.18988	1.18988
Gabpb1	NM_207669	0.000985258	1.18928	1.18928
Grn	NM_008175	0.000225687	1.18684	1.18684
Pde4b	NM_019840	0.000827908	1.18522	1.18522
Pacsin2	NM_011862	0.000513952	1.18516	1.18516
Grhl1	NM_001161406	0.000110786	1.18454	1.18454
Zc3h4	NM_198631	0.000111555	1.18129	1.18129
Acat2	NM_009338	0.000455514	1.17029	1.17029
Arhgef7	NM_001113518	0.000521826	1.1701	1.1701
Cnksr3	NM_172546	0.000270641	1.164	1.164
Tube1	NM_028006	0.000177197	1.15132	1.15132
Msh4	NM_031870	0.000273731	1.14554	1.14554
D18Ert653e	BC096371	0.000683587	1.14421	1.14421
Ppp1r10	NM_001163818	0.000172909	1.08631	1.08631
Gm9928	ENSMUST00000066625	0.000672546	0.925159	-1.0809
Actg1	NM_009609	0.000999215	0.903449	-1.10687
Slc25a5	NM_007451	0.000605208	0.892365	-1.12062
Cct2	NM_007636	3.79E-05	0.890482	-1.12299
Msl1	NM_028722	0.000371497	0.889401	-1.12435
Rfwd3	NM_146218	0.000552864	0.879723	-1.13672
Grinl1a	NM_178602	0.000608386	0.879131	-1.13749

1500035H01Rik	NM_023831	0.000735179	0.877966	-1.139
Stub1	NM_019719	0.000204922	0.870391	-1.14891
Zfp7	NM_145916	0.00083167	0.868977	-1.15078
Add3	NM_001164099	0.000757646	0.868108	-1.15193
Cul5	NM_027807	0.000555821	0.866352	-1.15426
Atp6v0c	NM_009729	0.000175922	0.865353	-1.1556
Arl4a	NM_001039515	0.000727449	0.863778	-1.1577
Plagl2	NM_018807	0.000490679	0.862197	-1.15983
Gm9902	ENSMUST00000065610	0.000967589	0.859803	-1.16306
Ppwd1	NM_172807	0.000384582	0.859607	-1.16332
Hdac1	NM_008228	5.22E-05	0.859581	-1.16336
Aifm2	NM_001039194	0.000890825	0.859325	-1.1637
Fyn	NM_001122893	0.000660819	0.856974	-1.1669
LOC100047053	ENSMUST00000103377	0.000680965	0.856236	-1.1679
Sipa1l2	NM_001081337	8.90E-05	0.85553	-1.16887
Lrp10	NM_022993	0.000366791	0.853297	-1.17192
Hipk1	NM_010432	0.000153036	0.852819	-1.17258
Nub1	NM_016736	0.000768215	0.851398	-1.17454
Psmc6	NM_025550	0.000944571	0.851063	-1.175
Set	NM_023871	0.000265073	0.847667	-1.17971
H2-Ke6	NM_013543	0.000329136	0.847452	-1.18001
Xylt1	NM_175645	6.98E-05	0.845878	-1.1822
Rnf20	NM_001163263	5.40E-05	0.844764	-1.18376
Xpot	NM_001081056	0.000769798	0.844587	-1.18401
Cyc1	NM_025567	0.000960857	0.840563	-1.18968
Adnp	NM_009628	8.67E-05	0.840438	-1.18986
Hsp90b1	NM_011631	0.000264101	0.840434	-1.18986
Ide	NM_031156	0.000609521	0.840198	-1.1902
Ppp2r3a	NM_001161362	0.000196019	0.839686	-1.19092
Timm50	NM_025616	0.000378627	0.839127	-1.19171
Pttg1	NM_013917	0.000231907	0.838007	-1.19331
Nf2	NM_010898	6.91E-05	0.837497	-1.19403
Ywhag	NM_018871	0.000667123	0.837226	-1.19442
Cds2	NM_138651	0.00031172	0.837157	-1.19452
Helb	NM_080446	0.00033682	0.836912	-1.19487
Cbfa2t2	NM_172860	0.00022751	0.835413	-1.19701
1600021P15Rik	NM_177718	0.00046881	0.835091	-1.19747
Igsf1	NM_177591	0.000888542	0.833779	-1.19936
Mapk1	NM_011949	8.33E-05	0.833525	-1.19972
Dhx15	NM_007839	0.000458347	0.832397	-1.20135
Unc45a	NM_133952	0.00085398	0.831981	-1.20195
Kdm4a	NM_001161823	0.000936086	0.831053	-1.20329
Tmem183a	NM_020588	0.000846079	0.830584	-1.20397

Ncoa4	NM_001033988	0.000331263	0.830242	-1.20447
Ng23	NM_023893	0.000135705	0.829865	-1.20502
Gm4157	XR_034250	0.000515531	0.829859	-1.20502
Tmem30b	NM_178715	0.00050539	0.829112	-1.20611
Thrap3	NM_146153	3.89E-05	0.828719	-1.20668
Baz2a	NM_054078	0.000787115	0.828622	-1.20682
Polg	NM_017462	0.000630946	0.827219	-1.20887
Golph3	NM_025673	0.000244261	0.825704	-1.21109
Mir543	NR_030261	0.000127804	0.825278	-1.21171
Ubxn2a	NM_145441	0.000540164	0.825123	-1.21194
Scyl1	NM_023912	6.46E-05	0.824443	-1.21294
Rims2	NM_053271	0.000970365	0.823634	-1.21413
Chrna7	NM_007390	0.000414246	0.823354	-1.21454
1600027N09Rik	NM_028479	0.000617153	0.823301	-1.21462
Psm4	NM_008951	6.73E-05	0.822648	-1.21559
Hectd2	NM_001163471	0.000928217	0.822626	-1.21562
Kbtbd2	NM_145958	7.49E-05	0.82246	-1.21587
Ncl	NM_010880	0.000120334	0.821111	-1.21786
Plekha8	NM_001164361	0.000334132	0.820145	-1.2193
Ncaph2	NM_001115132	3.84E-05	0.819864	-1.21971
Glg1	NM_009149	0.000204795	0.81974	-1.2199
Tuba1c	NM_009448	6.55E-05	0.81947	-1.2203
Ube2z	NM_172300	0.000178595	0.818644	-1.22153
Olf825	NM_146677	0.000637703	0.81774	-1.22288
Dock6	NM_177030	0.000140848	0.817735	-1.22289
Tufm	NM_172745	5.41E-05	0.817651	-1.22302
Birc6	NM_007566	0.000729305	0.817584	-1.22312
Dcakd	NM_026551	0.000294306	0.817529	-1.2232
Clk2	NM_007712	0.000407188	0.816584	-1.22461
Samd4b	NM_175021	9.63E-05	0.815343	-1.22648
Hspa5	NM_022310	3.63E-05	0.815117	-1.22682
Capza2	NM_007604	1.69E-06	0.814778	-1.22733
Fastkd5	NM_198176	0.000161907	0.814104	-1.22834
Ccdc136	NM_145574	0.000375518	0.814067	-1.2284
Mir669a-2	NR_030470	0.000317804	0.813676	-1.22899
Itgb7	NM_013566	0.000566547	0.813524	-1.22922
Rex2	NM_009051	8.58E-05	0.813303	-1.22955
Cfl2	NM_007688	0.000100647	0.81295	-1.23009
Hnrnp1	NM_177301	8.78E-05	0.812049	-1.23145
Mapk8ip1	NM_011162	0.000134282	0.811852	-1.23175
Bst1	NM_009763	0.000389698	0.811593	-1.23215
Tradd	NM_001033161	0.00032365	0.810271	-1.23416
Sema5b	NM_013661	0.000428131	0.809928	-1.23468

Ankzf1	NM_026187	0.000792666	0.809511	-1.23531
Arpc1b	NM_023142	4.09E-05	0.809412	-1.23546
Snord55	NR_030704	0.000744803	0.809411	-1.23547
Lrriq4	NM_026668	0.00060234	0.808661	-1.23661
Daxx	NM_007829	7.72E-05	0.808181	-1.23735
Kdm5c	NM_013668	0.000195634	0.806766	-1.23952
Gm7108	XR_031824	0.000582637	0.806476	-1.23996
Ltbp1	NM_019919	0.000155333	0.804921	-1.24236
Krtcap3	NM_027221	0.000209916	0.804321	-1.24329
Evc	NM_021292	0.000326402	0.803577	-1.24444
Capza1	NM_009797	0.000160167	0.803568	-1.24445
Lrtm2	NM_172492	0.000351696	0.803518	-1.24453
Msi1	NM_008629	8.04E-06	0.803309	-1.24485
1110020G09Rik	NM_001085410	0.000999134	0.803168	-1.24507
Ezh1	NM_007970	4.30E-05	0.803012	-1.24531
Fndc3b	NM_173182	0.000119252	0.802724	-1.24576
Srrm1	NM_016799	0.000918488	0.802393	-1.24627
Kdelr1	NM_133950	1.72E-05	0.802058	-1.24679
Paqr8	NM_028829	0.000229231	0.80188	-1.24707
Tmco4	NM_029857	0.00077673	0.801634	-1.24745
1700037H04Rik	BC071212	0.000722413	0.801214	-1.24811
Pgc	NM_025973	0.000783882	0.800893	-1.24861
Pola2	NM_008893	0.000124039	0.800587	-1.24908
Supt6h	NM_009297	3.74E-07	0.800458	-1.24928
Shank1	NM_001034115	0.000141884	0.800258	-1.2496
Top2a	NM_011623	0.000617622	0.800177	-1.24972
	6-三月 NM_172606	0.00014677	0.79973	-1.25042
Slfn8	NM_181545	0.000810612	0.799549	-1.25071
Oaz1	NM_008753	0.000251677	0.799076	-1.25145
4631416L12Rik	NM_001081295	0.000489399	0.798906	-1.25171
Dcaf8	NM_153555	0.000275803	0.798556	-1.25226
Fnbp1l	NM_001114665	0.000323172	0.797301	-1.25423
4933439F18Rik	NM_025757	0.000151276	0.796552	-1.25541
Gigyf1	NM_031408	0.000202008	0.796003	-1.25628
Srrt	NM_031405	6.36E-05	0.795998	-1.25628
Uhrf1bp1	NM_001080769	0.000238837	0.794846	-1.25811
Thbs1	NM_011580	0.000154054	0.794608	-1.25848
Mettl2	NM_172567	0.000299703	0.794545	-1.25858
Camta1	NM_001081557	0.000522123	0.79407	-1.25934
Gpx4	NM_008162	0.00036002	0.793394	-1.26041
Bat5	NM_178592	0.000301413	0.793066	-1.26093
Crebzf	NM_145151	0.000145074	0.793057	-1.26094
Psmc4	NM_011874	0.000170075	0.791932	-1.26273

Il17rd	NM_134437	3.32E-05	0.791429	-1.26354
Arrdc2	NM_027560	0.000319894	0.790326	-1.2653
Tpd52	NM_009412	0.000174388	0.789245	-1.26703
Aldh3a2	NM_007437	0.00020969	0.789114	-1.26724
Eif6	NM_010579	8.88E-06	0.78898	-1.26746
Lcn5	NM_007947	5.03E-06	0.788358	-1.26846
Keap1	NM_016679	0.00090257	0.788113	-1.26885
Arglu1	NM_176849	0.000469716	0.787453	-1.26992
Slc38a4	NM_027052	0.000198949	0.78733	-1.27011
Gm2509	XR_031402	0.00047469	0.786405	-1.27161
Ttn	NM_011652	3.63E-05	0.786229	-1.27189
Taf8	NM_022015	0.000348542	0.785667	-1.2728
Paxip1	NM_018878	4.74E-05	0.785467	-1.27313
Zc3hc1	NM_172735	0.00017731	0.784734	-1.27432
1110008J03Rik	BC021365	0.000161255	0.784375	-1.2749
Mxi1	NM_010847	0.000335992	0.783986	-1.27553
Top1	NM_009408	0.000603443	0.783783	-1.27586
Pdcd5	NM_019746	0.00085564	0.783709	-1.27598
Lipc	NM_008280	0.000275843	0.783583	-1.27619
Hal	NM_010401	1.99E-05	0.783497	-1.27633
Tdp2	NM_019551	0.000437699	0.783222	-1.27678
Rnf13	NM_001113413	0.000995739	0.782967	-1.27719
Sv2c	NM_029210	0.000308274	0.782421	-1.27808
Efhd2	NM_025994	0.000254305	0.781934	-1.27888
Shoc2	NM_019658	0.000179017	0.781376	-1.27979
Adam9	NM_007404	5.29E-05	0.781056	-1.28032
Scfd2	NM_001114660	0.000130413	0.781021	-1.28037
Mcf2l	NM_178076	0.000423012	0.780577	-1.2811
Dennd4b	NM_201407	0.000493783	0.779423	-1.283
Tep1	NM_009351	0.000349614	0.77938	-1.28307
Hist1h4i	NM_175656	0.000128585	0.7784	-1.28469
Armc8	NM_028768	0.000543687	0.778392	-1.2847
Calm3	NM_007590	0.000548953	0.778073	-1.28523
Hmg1l1	NM_001111282	3.62E-05	0.777704	-1.28584
Tmtc4	NM_028651	0.000291445	0.77705	-1.28692
Ets2	NM_011809	0.000305502	0.776931	-1.28712
AA388235	NR_033305	7.89E-05	0.776771	-1.28738
1700029I01Rik	NM_027285	4.52E-05	0.776281	-1.28819
Smyd1	NM_001160127	0.000746472	0.776186	-1.28835
Abi3	NM_025659	0.000499062	0.775607	-1.28931
Cirh1a	NM_011574	0.00010453	0.774856	-1.29056
Asf1b	NM_024184	0.000124244	0.774751	-1.29074
Sdr39u1	NM_001082975	0.000112152	0.774691	-1.29084

Il27ra	NM_016671	2.93E-05	0.774632	-1.29094
Mapk12	NM_013871	0.00065627	0.774074	-1.29187
Gm8615	NR_028061	5.53E-05	0.773967	-1.29204
Ufc1	NM_025388	0.000863394	0.773835	-1.29227
Tex14	NM_031386	2.02E-05	0.773739	-1.29243
Me1	NM_008615	0.000102847	0.773552	-1.29274
Spsb2	NM_013539	0.000757412	0.773438	-1.29293
Cdyl2	NM_029441	0.000442145	0.773074	-1.29354
	10-九月 NM_001024911	3.19E-05	0.772937	-1.29377
Arhgdia	NM_133796	2.41E-05	0.772784	-1.29402
Git1	NM_001004144	0.000560671	0.772572	-1.29438
Csnk1a1	NM_146087	6.37E-05	0.772545	-1.29442
Cxadr	NM_009988	1.06E-05	0.77231	-1.29482
Kif2a	NM_008442	0.000995283	0.772222	-1.29496
Ece2	NM_139293	0.00094216	0.771918	-1.29548
Nfyc	NM_008692	0.000993321	0.771163	-1.29674
Nfkbib	NM_010908	5.56E-06	0.770886	-1.29721
Psmb5	NM_011186	0.000948019	0.770723	-1.29748
Stk30	NM_011973	3.01E-05	0.77052	-1.29782
Sos1	NM_009231	0.000267379	0.770353	-1.29811
Fmn1	NM_010230	0.000830168	0.770173	-1.29841
Tmem145	NM_183311	0.000107865	0.770095	-1.29854
Idi1	NM_145360	0.000295844	0.770019	-1.29867
Kcmf1	NM_019715	0.000166807	0.769861	-1.29894
Spred3	NM_182927	0.000336584	0.768983	-1.30042
Serpini1	NM_009250	0.000149457	0.768764	-1.30079
Psmd13	NM_011875	0.000555847	0.768418	-1.30138
Rbm10	NM_145627	0.000861145	0.768409	-1.30139
4930402H24Rik	BC052447	0.000218843	0.768109	-1.3019
Cabin1	NM_172549	0.000169235	0.76788	-1.30229
Imp4	NM_178601	0.000464245	0.767427	-1.30306
Spast	NM_001162870	0.000324648	0.766998	-1.30379
Vill	NM_001164567	0.000478113	0.766752	-1.3042
Plin2	NM_007408	0.000264343	0.766611	-1.30444
Hnrnpul2	NM_001081196	0.000437964	0.766567	-1.30452
Adprh	NM_007414	0.000297583	0.766115	-1.30529
Ssr2	NM_025448	0.000108328	0.765825	-1.30578
Spred2	NM_033523	5.37E-05	0.765725	-1.30595
Cnot3	NM_146176	0.000202389	0.76558	-1.3062
Dhx37	NM_203319	0.000106956	0.7654	-1.30651
Scn3a	NM_018732	0.000203111	0.765267	-1.30673
Ino80d	NM_001114609	9.41E-05	0.765134	-1.30696
Rassf8	NM_027760	0.000850245	0.765125	-1.30698

Gmpr2	NM_177992	6.51E-05	0.764791	-1.30755
Mrfap1	NM_026242	0.000109054	0.764479	-1.30808
Tmem39a	NM_026407	0.000161208	0.76426	-1.30846
Hook2	NM_133255	0.000226669	0.764194	-1.30857
Krt18	NM_010664	0.000385819	0.764082	-1.30876
Aldh1l2	NM_153543	2.30E-05	0.763885	-1.3091
Dtx2	NM_023742	5.76E-05	0.76351	-1.30974
Abcb7	NM_009592	5.00E-05	0.763228	-1.31022
Ptov1	NM_133949	0.000256149	0.763196	-1.31028
Ppp1r15a	NM_008654	8.04E-05	0.763138	-1.31038
Cotl1	NM_028071	0.000638633	0.762975	-1.31066
Ddx46	NM_145975	0.000671881	0.762959	-1.31069
Gsta3	NM_001077353	0.000730072	0.762717	-1.3111
Gbp1	NM_010259	0.000634262	0.76242	-1.31161
Gm13251	NM_001085522	1.20E-05	0.762038	-1.31227
Ambra1	NM_172669	0.000205599	0.761988	-1.31236
Ppp2r5b	NM_198168	2.29E-05	0.761577	-1.31307
Atxn2l	NM_183020	2.42E-06	0.761303	-1.31354
Tmem143	NM_144801	0.000337525	0.761002	-1.31406
Qdpr	NM_024236	0.000432337	0.760792	-1.31442
Maz	NM_010772	0.000296818	0.760703	-1.31457
Dhx8	NM_144831	0.000306081	0.760632	-1.3147
Gm5666	XR_034009	0.000760599	0.760443	-1.31502
Kdr	NM_010612	0.000317346	0.760083	-1.31565
Igsf3	NM_207205	0.000228762	0.759934	-1.3159
Mtmr3	NM_028860	0.000113949	0.759786	-1.31616
Fhod3	NM_175276	0.000412787	0.759397	-1.31683
Ngfrap1	NM_009750	0.000227994	0.759276	-1.31704
Arih2	NM_011790	0.000491778	0.758976	-1.31756
Zfp532	NM_207255	0.000570398	0.758965	-1.31758
Rundc3a	NM_016759	0.000846261	0.7589	-1.3177
Apex2	NM_029943	0.000109495	0.758821	-1.31783
Amt	NM_001013814	0.000284997	0.758327	-1.31869
Tbc1d9	NM_001111304	0.000145941	0.758265	-1.3188
Tex264	NM_011573	0.0001439	0.758225	-1.31887
Psma6	NM_011968	0.00071335	0.758104	-1.31908
Cchcr1	NM_146248	9.86E-05	0.758022	-1.31922
Acta1	NM_009606	0.000272677	0.758012	-1.31924
Iars	NM_172015	3.55E-05	0.757787	-1.31963
Shroom4	NM_001040459	0.00065121	0.757509	-1.32012
Arhgef11	NM_001003912	8.35E-06	0.757478	-1.32017
Arhgap8	NM_001164627	7.08E-06	0.75693	-1.32113
Actn3	NM_013456	8.39E-06	0.756857	-1.32125

Cbx8	NM_013926	0.000845669	0.756619	-1.32167
Tmx3	NM_198295	0.000295048	0.756497	-1.32188
Timm13	NM_013895	0.000853004	0.756475	-1.32192
Spnb2	NM_175836	7.24E-05	0.756372	-1.3221
Mll2	NM_001033276	2.03E-05	0.755669	-1.32333
Tcfe3	NM_172472	0.00070667	0.755553	-1.32353
Atp2a3	NM_016745	0.000281883	0.755132	-1.32427
Twf1	NM_008971	1.11E-05	0.755067	-1.32439
Rara	NM_001177302	3.45E-07	0.754976	-1.32455
Msrb2	NM_029619	4.49E-05	0.754945	-1.3246
4933424B01Rik	NM_138757	0.000945839	0.754755	-1.32493
Cbl	NM_007619	3.14E-05	0.754445	-1.32548
Slc15a4	NM_133895	8.06E-05	0.754167	-1.32597
Serp1	NM_030685	8.70E-06	0.753784	-1.32664
Lag3	NM_008479	8.91E-05	0.753748	-1.3267
Prss16	NM_019429	0.000346026	0.753658	-1.32686
Sh2d4b	NM_177816	9.94E-05	0.753518	-1.32711
Trim44	NM_020267	6.87E-06	0.753275	-1.32754
Tnfrsf1b	NM_011610	6.10E-05	0.753158	-1.32774
Sphk2	NM_020011	0.000820071	0.752818	-1.32834
Gm16505	XM_001472218	0.000499945	0.752497	-1.32891
Haus4	NM_145462	0.000610544	0.752435	-1.32902
Pdzk1	NM_021517	9.22E-05	0.752434	-1.32902
Zfp318	NM_207671	0.00047275	0.752421	-1.32904
Cnpy2	NM_019953	0.000179241	0.751732	-1.33026
Brd2	NM_001025387	0.000142781	0.751707	-1.33031
Shf	NM_001013829	0.000128297	0.751606	-1.33048
Kank2	NM_145611	0.000218682	0.751545	-1.33059
Nfil3	NM_017373	0.000684515	0.75123	-1.33115
Ccdc61	NM_001033314	0.000225014	0.750642	-1.33219
Sv2a	NM_022030	0.000467031	0.750445	-1.33254
Bex1	NM_009052	0.000828697	0.750214	-1.33295
6030445D17Rik	ENSMUST00000084593	1.31E-05	0.750173	-1.33303
Bach1	NM_007520	0.000250442	0.750136	-1.33309
Casq1	NM_009813	0.00064902	0.750124	-1.33311
Calca	NM_007587	0.000489364	0.749808	-1.33367
Rab3ip	NM_001003950	0.00010123	0.749515	-1.3342
Rassf1	NM_019713	0.000616519	0.749508	-1.33421
Mto1	NM_026658	4.94E-05	0.748601	-1.33582
Slc35b2	NM_028662	0.000971889	0.748537	-1.33594
Rfwd2	NM_011931	0.000730619	0.748322	-1.33632
Trmt6	NM_175113	0.000242941	0.747821	-1.33722
Rab5b	NM_177411	0.000199949	0.74775	-1.33734

Erc2	NM_177814	1.98E-05	0.747699	-1.33744
BC005537	NM_024473	1.15E-05	0.747581	-1.33765
Fam178b	NM_201365	0.000699615	0.747297	-1.33816
Rtn3	NM_001003934	6.08E-05	0.746455	-1.33966
Ptms	NM_026988	5.63E-06	0.746327	-1.33999
Psmid7	NM_010817	9.29E-05	0.746248	-1.34004
Aire	NM_009646	0.000154965	0.746161	-1.34019
Cd2bp2	NM_027353	0.000280096	0.7461	-1.3403
BC023829	NM_001033328	0.000321761	0.746076	-1.34035
Ryk	NM_013649	4.00E-05	0.746003	-1.34048
Lig1	NM_001083188	0.000182888	0.745868	-1.34072
Ccny	NM_026484	0.000636401	0.745254	-1.34183
Arhgap9	NM_146011	9.73E-05	0.745056	-1.34218
Boll	NM_029267	0.000104692	0.744814	-1.34262
Atp10d	NM_153389	0.000302108	0.74479	-1.34266
Dtna	NM_207650	2.48E-05	0.744709	-1.34281
5930416119Rik	NR_027360	0.000728793	0.744431	-1.34331
Zfp553	NM_146201	6.85E-05	0.744317	-1.34351
Mtap7d3	NM_177293	0.000612552	0.744243	-1.34365
Arhgap33	NM_178252	0.000452336	0.744166	-1.34379
Dtl	NM_029766	3.38E-06	0.744006	-1.34408
Itgb1	NM_010578	9.00E-06	0.743647	-1.34472
Gnptab	NM_001004164	2.22E-05	0.743527	-1.34494
Coro2b	NM_175484	7.79E-05	0.743443	-1.34509
Foxp4	NM_001110824	0.000358165	0.743381	-1.34521
Lrch4	NM_146164	1.23E-05	0.742754	-1.34634
Eif2ak3	BC054809	7.46E-05	0.742611	-1.3466
Incenp	NM_016692	8.71E-06	0.742544	-1.34672
Vsig2	NM_020518	0.00012256	0.742482	-1.34683
Zfp341	NM_199304	0.000946353	0.742368	-1.34704
Fam40a	NM_153563	4.25E-06	0.742242	-1.34727
H2-Q7	NM_010394	0.0005886	0.741917	-1.34786
Gm9068	XR_033560	0.000899461	0.74175	-1.34816
Cux1	NM_009986	5.13E-05	0.741371	-1.34885
Fbn2	NM_010181	5.16E-05	0.741284	-1.34901
Gpr149	BC119599	0.000411735	0.740936	-1.34964
Abl1	NM_001112703	0.000208952	0.740874	-1.34976
Ppp1cb	NM_172707	1.28E-05	0.740764	-1.34996
Rars	NM_025936	0.00023842	0.740528	-1.35039
Cbln3	NM_019820	2.83E-05	0.74049	-1.35046
Ube2r2	NM_026275	8.78E-05	0.7404	-1.35062
Rps6ka4	NM_019924	9.03E-05	0.740375	-1.35067
Rnf122	NM_175136	0.000793454	0.740354	-1.3507

Prickle2	NM_001134461	0.000912323	0.740254	-1.35089
Stk39	NM_016866	0.000699511	0.739999	-1.35135
Zfp622	NM_144523	0.00015901	0.739922	-1.35149
Phka1	NM_008832	0.00042552	0.73976	-1.35179
Qser1	NM_001123327	0.00088732	0.738909	-1.35335
Usp39	NM_138592	0.000116061	0.738671	-1.35378
Dcaf11	NM_133734	0.000519072	0.738343	-1.35438
Dusp1	NM_013642	0.000126814	0.738184	-1.35468
Pgrmc1	NM_016783	0.0006294	0.737866	-1.35526
Dnajc2	NM_009584	0.000243171	0.737569	-1.3558
Gm4795	XM_910044	7.85E-05	0.737055	-1.35675
Sbf2	NM_177324	0.000340229	0.736882	-1.35707
Pwwp2b	NM_001098636	0.00015973	0.736764	-1.35729
Gnb5	NM_138719	0.000303881	0.736381	-1.35799
Zfp292	NM_013889	0.000138022	0.73633	-1.35809
1700049E17Rik1	ENSMUST00000100701	5.05E-07	0.7362	-1.35833
Myh13	NM_001081250	7.96E-05	0.735433	-1.35974
Unkl	NM_028789	7.04E-05	0.735066	-1.36042
Cacng4	NM_019431	6.12E-05	0.734857	-1.36081
Lrig1	NM_008377	4.77E-05	0.733936	-1.36252
Trib3	NM_175093	9.76E-05	0.733676	-1.363
Dnd1	NM_173383	0.000817307	0.733612	-1.36312
Gm13819	XR_033041	2.83E-05	0.733318	-1.36367
Bard1	NM_007525	0.000745771	0.733051	-1.36416
Ppargc1b	NM_133249	0.000454366	0.732757	-1.36471
Bri3bp	NM_029752	6.32E-05	0.732744	-1.36473
Asb13	NM_178283	5.39E-05	0.732491	-1.36521
Fut8	NM_016893	0.000434187	0.732305	-1.36555
Gm15770	XR_034208	0.000408302	0.731431	-1.36718
Pank1	NM_023792	0.000240345	0.731164	-1.36768
Mpp3	NM_007863	0.000567179	0.730839	-1.36829
1810029B16Rik	BC016246	0.000394529	0.730184	-1.36952
Myl7	NM_022879	0.000206761	0.729818	-1.3702
Phactr4	NM_175306	0.000866953	0.729662	-1.3705
Gm8587	XM_990056	0.000458711	0.729599	-1.37062
Atg2a	NM_194348	0.000163849	0.728945	-1.37185
Ppp2r5e	NM_012024	0.0007544	0.728598	-1.3725
Ripk1	NM_009068	0.00019311	0.72857	-1.37255
Fam84b	NM_001162926	0.000664734	0.72834	-1.37298
Myo1c	NM_008659	5.72E-06	0.72821	-1.37323
Tspo	NM_009775	0.000715916	0.72813	-1.37338
Naf1	NM_001163564	2.62E-05	0.72788	-1.37385
Pou2f1	NM_011137	9.08E-05	0.727261	-1.37502

Clmn	NM_053155	0.000130092	0.727028	-1.37546
Cdo1	NM_033037	5.28E-05	0.726967	-1.37558
Khdrbs3	BC057577	0.00018691	0.726636	-1.37621
Nacc1	NM_025788	1.31E-05	0.726533	-1.3764
Gtsf1	NM_028797	8.95E-07	0.726086	-1.37725
Fgd4	NM_139232	4.14E-07	0.726038	-1.37734
Slmo1	NM_144867	0.000132782	0.725663	-1.37805
Fhl1	NM_001077361	0.000143821	0.725412	-1.37853
Tjp2	NM_011597	7.26E-07	0.72538	-1.37859
Ankmy2	NM_146033	4.45E-05	0.72497	-1.37937
Dlg1	NM_007862	0.000834167	0.724631	-1.38001
Csrp2	NM_007792	8.31E-06	0.724521	-1.38022
Zfp568	NM_001167872	2.37E-05	0.723313	-1.38253
Gm4881	XM_992867	4.28E-05	0.723306	-1.38254
Pcgf6	NM_027654	0.000305339	0.723295	-1.38256
BC048403	BC065058	0.000395488	0.723066	-1.383
Rp2h	NM_133669	0.000120138	0.722993	-1.38314
Ing1	NM_011919	0.000334657	0.722944	-1.38323
Atn1	NM_007881	0.000141949	0.722642	-1.38381
Ing3	NM_023626	1.67E-05	0.722185	-1.38469
Camk2d	NM_001025439	6.46E-06	0.722177	-1.3847
Nova1	NM_021361	0.000172014	0.7221	-1.38485
Mkrn1	NM_018810	1.62E-07	0.72209	-1.38487
Brpf3	NM_001081315	4.33E-05	0.721862	-1.38531
Pcnx	NM_018814	0.000496829	0.721744	-1.38553
Camk1d	NM_177343	1.81E-05	0.721632	-1.38575
Eif4e2	NM_001039169	1.06E-05	0.72126	-1.38646
R3hdm1	NM_181750	0.000101633	0.721197	-1.38658
Slc7a1	NM_007513	5.39E-05	0.721164	-1.38665
Nefm	NM_008691	0.000281178	0.720317	-1.38828
Rbm27	NM_172626	0.000213086	0.720288	-1.38833
H2-K1	NM_001001892	0.000147991	0.720216	-1.38847
Nup62cl	NM_001081668	3.20E-05	0.720211	-1.38848
Fzd4	NM_008055	0.000628274	0.720058	-1.38878
Setd5	NM_028385	0.000971112	0.719793	-1.38929
Hist1h4h	NM_153173	0.000172618	0.719715	-1.38944
Fam108b	NM_146096	3.11E-05	0.719467	-1.38992
Vps26a	NM_133672	0.000282154	0.719319	-1.3902
Stat6	NM_009284	6.09E-07	0.719161	-1.39051
H2-D1	NM_010380	8.70E-05	0.718906	-1.391
Hapln4	NM_177900	3.24E-06	0.718731	-1.39134
Wdr45	NM_172372	0.000107637	0.718696	-1.39141
Nags	NM_178053	0.000870011	0.718486	-1.39182

Ctsa	NM_008906	2.78E-06	0.718455	-1.39187
Adamts8	NM_013906	0.000169719	0.718362	-1.39206
Aym1	NM_001012726	0.000626382	0.717953	-1.39285
Snora73b	NR_028513	7.92E-05	0.717874	-1.393
Pxdn	NM_181395	0.00018911	0.717813	-1.39312
Brd4	NM_020508	0.000687023	0.717684	-1.39337
Gm4924	DQ459435	0.000384179	0.717553	-1.39363
Fxr2	NM_011814	2.66E-05	0.717457	-1.39381
Tpm1	NM_001164248	6.69E-05	0.717312	-1.39409
H2afx	NM_010436	3.08E-05	0.716887	-1.39492
Trip12	NM_133975	2.19E-06	0.716793	-1.3951
Prcc	NM_033573	1.27E-06	0.716169	-1.39632
AU015836	NR_028320	6.61E-05	0.716072	-1.39651
5730419I09Rik	NM_029081	6.94E-05	0.715676	-1.39728
P2rx2	NM_153400	1.29E-06	0.715632	-1.39737
Stk17b	NM_133810	0.000504425	0.715573	-1.39748
Pcolce2	NM_029620	6.89E-05	0.715569	-1.39749
Flrt3	NM_001172160	0.000293533	0.715298	-1.39802
Plk3	NM_013807	5.95E-05	0.715126	-1.39836
Sdhd	NM_023374	0.000151012	0.715003	-1.3986
Mt3	NM_013603	0.000495361	0.714718	-1.39915
Cuta	NM_026307	1.14E-05	0.714604	-1.39938
Epb4.1l2	NM_013511	9.95E-07	0.714373	-1.39983
	7-九月 NM_009859	0.000381423	0.714169	-1.40023
Lphn1	NM_181039	1.65E-05	0.713955	-1.40065
Trnt1	NM_027296	0.000667691	0.713927	-1.4007
Tmem102	NM_001033433	0.000616348	0.713629	-1.40129
Syngn3	NM_011522	6.63E-05	0.713438	-1.40166
Ddr2	NM_022563	6.81E-05	0.713353	-1.40183
5430407P10Rik	NM_001159657	1.35E-05	0.712722	-1.40307
Gata2	NM_008090	0.000352321	0.712558	-1.4034
Slc44a1	NM_133891	2.51E-07	0.712495	-1.40352
Fndc4	NM_022424	6.48E-05	0.71197	-1.40455
Olfr161	ENSMUST00000061541	4.20E-05	0.711788	-1.40491
Epdr1	NM_134065	0.000220678	0.71175	-1.40499
Tmem55b	NM_001033271	3.83E-05	0.711592	-1.4053
Lrmp	NM_008511	0.000501219	0.71159	-1.4053
Kcnk1	NM_008430	0.000605519	0.711502	-1.40548
Phf16	NM_199317	1.65E-06	0.7113	-1.40588
D10Ertd610e	NM_028027	9.96E-05	0.711245	-1.40599
Rilpl2	NM_030259	0.000298238	0.71117	-1.40613
Zdhhc18	NM_001017968	8.90E-07	0.710914	-1.40664
Lmbrd2	NM_177178	0.000123283	0.710765	-1.40694

Plekhh1	NM_181073	0.00037629	0.710654	-1.40715
Rasgrp4	NM_001174155	6.90E-07	0.70987	-1.40871
Sfrs15	NM_178923	1.95E-05	0.709496	-1.40945
Mpdu1	NM_011900	0.000256115	0.709494	-1.40945
Ctdsp1	NM_153088	0.000280694	0.709478	-1.40949
Gbp4	NM_008620	1.76E-05	0.709208	-1.41002
Bpnt1	NM_011794	2.12E-05	0.709122	-1.41019
Srpk2	NM_009274	0.000129883	0.708962	-1.41051
Tmem138	NM_028411	0.000162905	0.708643	-1.41115
Calm2	NM_007589	8.36E-06	0.7085	-1.41143
Oxsr1	NM_133985	2.51E-05	0.707563	-1.4133
Eif3g	NM_016876	0.000115139	0.707187	-1.41405
Ube2d2	NM_019912	2.74E-06	0.707148	-1.41413
Hist2h4	NM_033596	9.99E-05	0.7071	-1.41423
7420416P09Rik	NM_001168588	0.000973615	0.706626	-1.41518
Rpusd4	NM_028040	8.30E-05	0.706444	-1.41554
Ccdc85a	NM_181577	0.000130278	0.706427	-1.41558
Lonrf1	NM_001081150	0.000569614	0.706369	-1.41569
Mtf1	NM_008636	0.000126443	0.70636	-1.41571
Adap1	NM_172723	6.82E-06	0.706347	-1.41573
Al846148	NM_001033139	2.27E-07	0.706029	-1.41637
Foxr1	NM_001033469	8.80E-05	0.706004	-1.41642
Rnf44	NR_027395	4.59E-05	0.705991	-1.41645
Bak1	NM_007523	0.00051555	0.70573	-1.41697
Zcchc18	NM_001035510	0.000159442	0.705562	-1.41731
Usp48	NM_130879	0.00067385	0.70548	-1.41747
Phospho1	NM_153104	0.000150773	0.705359	-1.41772
Pfice1	NM_019588	0.000825892	0.704992	-1.41846
Rel	NM_009044	1.52E-05	0.704857	-1.41873
Ddx26b	NM_172779	0.000450377	0.704723	-1.419
Arhgap30	NM_001005508	0.000564238	0.704502	-1.41944
Cyb5b	NM_025558	7.42E-07	0.704442	-1.41956
Prune2	NM_181348	2.97E-08	0.704429	-1.41959
Dnaja2	NM_019794	5.87E-05	0.70427	-1.41991
Arl5c	NM_207231	0.000109866	0.704205	-1.42004
Aes	NM_010347	0.000971068	0.703972	-1.42051
1810013L24Rik	NM_001081400	0.000295946	0.703602	-1.42126
Efha2	NM_030110	2.27E-06	0.703497	-1.42147
Egln1	NM_053207	0.000225695	0.702838	-1.4228
Gdi1	NM_010273	0.000321432	0.702777	-1.42293
Zbtb11	NM_173026	3.78E-06	0.70267	-1.42314
Plekhh3	NM_153804	3.96E-05	0.702604	-1.42328
Rnf217	NM_001146349	0.000297872	0.702531	-1.42342

Znfx1	NM_001033196	7.60E-06	0.702483	-1.42352
Mvd	NM_138656	8.65E-06	0.702413	-1.42366
Mapk6	NM_015806	0.000435713	0.70227	-1.42395
Zfp217	NM_001033299	1.11E-05	0.702238	-1.42402
Cpt1b	NM_009948	0.000239856	0.702153	-1.42419
Alms1	NM_145223	0.000167239	0.701936	-1.42463
Ncoa7	NM_172495	0.000110089	0.701707	-1.4251
Ppp2r2a	NM_028032	8.94E-06	0.701659	-1.42519
Foxp1	NM_053202	7.45E-07	0.70156	-1.42539
Rnf220	NM_025739	0.000152352	0.70152	-1.42548
Cdc42ep4	NM_020006	0.000468443	0.701355	-1.42581
Rln3	NM_173184	2.28E-05	0.701331	-1.42586
Sc5d	NM_172769	5.11E-06	0.701272	-1.42598
Ppp3r1	NM_024459	0.000270516	0.700864	-1.42681
Cpt1a	NM_013495	2.92E-05	0.700846	-1.42685
Sort1	NM_019972	5.12E-06	0.700834	-1.42687
Yipf5	NM_023311	0.000372287	0.700664	-1.42722
Galk1	NM_016905	3.14E-05	0.700235	-1.42809
Ssh1	NM_198109	2.48E-05	0.699838	-1.4289
Tmem79	NM_024246	9.99E-05	0.699789	-1.429
Pdpf	NM_025598	0.000101242	0.699586	-1.42942
Arf6	NM_007481	5.30E-06	0.699575	-1.42944
Myo9a	NM_173018	6.44E-05	0.699425	-1.42975
1700061G19Rik	BC116283	3.42E-05	0.699237	-1.43013
Ncoa3	NM_008679	8.30E-07	0.699074	-1.43046
Dgat1	NM_010046	2.26E-05	0.699022	-1.43057
Polr1c	NM_009085	0.000732161	0.698753	-1.43112
Fryl	NM_177136	3.85E-05	0.698476	-1.43169
Depdc6	NM_001037937	1.49E-08	0.698279	-1.43209
Fkbp11	NM_024169	1.12E-05	0.698203	-1.43225
Cd99l2	NM_138309	6.37E-06	0.697918	-1.43283
Slc20a1	NM_015747	4.58E-07	0.697834	-1.43301
Cidea	NM_007702	0.000168441	0.697747	-1.43318
Gng2	NM_010315	4.07E-06	0.697682	-1.43332
Osgep	NM_133676	1.71E-06	0.69734	-1.43402
Leprot1	NM_026609	0.000974865	0.696675	-1.43539
Adhfe1	NM_175236	0.000889128	0.69628	-1.4362
Tmem194	NM_001113211	0.00047267	0.696025	-1.43673
Hist2h2aa1	NM_013549	1.16E-06	0.69585	-1.43709
Pfkfb3	NM_001177753	7.65E-05	0.695686	-1.43743
Lmo4	NM_010723	6.47E-07	0.695686	-1.43743
Hlf	NM_172563	5.28E-06	0.695638	-1.43753
Dazap2	NM_011873	0.000296217	0.69557	-1.43767

Stmn1	NM_019641	1.65E-05	0.694773	-1.43932
1700016D06Rik	AY026045	0.000134021	0.694043	-1.44083
Atxn7	NM_139227	9.34E-06	0.693927	-1.44107
Adam19	NM_009616	6.01E-06	0.6939	-1.44113
Exoc5	NM_207214	0.000102384	0.69371	-1.44152
Proca1	NM_001045516	0.000111154	0.693386	-1.4422
Zfp444	NM_001146024	1.30E-05	0.693354	-1.44226
Sephs2	NM_009266	0.000185545	0.693323	-1.44233
Cpne9	NM_170673	4.43E-06	0.693014	-1.44297
Mme	NM_008604	0.000419637	0.69297	-1.44306
Hnrpll	NM_144802	2.03E-05	0.692779	-1.44346
Taf5	NM_177342	2.06E-05	0.692768	-1.44348
Itgb3	NM_016780	0.000566685	0.692639	-1.44375
C530028O21Rik	NM_175696	2.69E-06	0.69186	-1.44538
Spire1	NM_194355	2.77E-06	0.691406	-1.44633
Nfatc2ip	NM_010900	2.64E-06	0.691317	-1.44651
Ank	NM_020332	1.76E-05	0.691308	-1.44653
Loxl2	NM_033325	0.000122266	0.691211	-1.44674
Al848100	NM_172645	4.69E-05	0.690575	-1.44807
Rbm26	NM_134077	0.000854329	0.690454	-1.44832
Akap12	NM_031185	3.14E-05	0.690253	-1.44874
Tapbp	NM_001025313	7.83E-05	0.690195	-1.44887
Dnahc8	NM_013811	4.97E-05	0.69019	-1.44888
Abhd10	NM_172511	8.26E-05	0.69017	-1.44892
Tbc1d25	NM_172478	0.000871634	0.690167	-1.44892
Dapk3	NM_007828	0.000491353	0.689888	-1.44951
Gm9900	ENSMUST00000065533	3.73E-06	0.689689	-1.44993
Zfp2	NM_001044697	0.000173737	0.689311	-1.45072
Fbxo17	NM_015796	1.36E-05	0.688994	-1.45139
Aspg	NM_001081169	0.000111722	0.68893	-1.45153
Fgf5	NM_010203	0.000102597	0.68889	-1.45161
Nxph4	NM_183297	7.37E-05	0.688843	-1.45171
Fnbp1	NM_001177648	0.000208562	0.688226	-1.45301
Lig3	NM_010716	2.22E-06	0.688201	-1.45306
Tnfaip8	NM_134131	6.79E-05	0.688188	-1.45309
Rpl22l1	NM_026517	0.000215268	0.687975	-1.45354
Npc1	NM_008720	0.000498897	0.687918	-1.45366
Hopx	NM_175606	5.81E-05	0.687699	-1.45412
Kcnab3	NM_010599	1.85E-05	0.687587	-1.45436
Calcoco2	NM_029755	0.00015902	0.68739	-1.45478
Cdk12	BC057057	0.000569405	0.687257	-1.45506
Nlgn3	NM_172932	0.000805128	0.686882	-1.45585
A230050P20Rik	NM_175687	4.02E-05	0.686816	-1.45599

Bhlhe40	NM_011498	8.19E-05	0.686813	-1.456
Rfx3	NM_011265	0.000271646	0.686497	-1.45667
Aurkc	NM_001080966	5.39E-05	0.686367	-1.45695
Ctdsp2	NM_146012	0.000156055	0.686268	-1.45716
Usp9x	NM_009481	5.44E-05	0.686216	-1.45727
Wwc1	NM_170779	2.40E-05	0.686195	-1.45731
Tm4sf5	NM_029360	0.000614116	0.685841	-1.45806
Tprn	NM_175286	0.000243563	0.685816	-1.45812
Ddx31	NM_001033294	5.34E-05	0.685551	-1.45868
Creld1	NM_133930	6.53E-05	0.685137	-1.45956
Suz12	NM_199196	1.54E-05	0.684848	-1.46018
Rictor	NM_030168	0.000529882	0.684743	-1.4604
Slc6a7	NM_201353	3.16E-05	0.684541	-1.46083
Ccdc123	NM_028120	1.07E-05	0.684153	-1.46166
Bmp2k	NM_080708	0.000199574	0.683967	-1.46206
Hist2h2ab	NM_178213	2.19E-07	0.683618	-1.46281
Mapk8ip2	NM_021921	3.52E-05	0.683609	-1.46282
Asns	NM_012055	1.74E-06	0.683546	-1.46296
A2m	NM_175628	3.55E-05	0.683311	-1.46346
Slc19a3	NM_030556	4.83E-05	0.683066	-1.46399
Eif2c1	NM_153403	1.76E-06	0.68241	-1.46539
Ahsa1	NM_146036	1.01E-05	0.682069	-1.46613
Gm7367	NR_003376	0.000261772	0.68184	-1.46662
Tiparp	NM_178892	0.000639328	0.681559	-1.46722
Ubxn7	NM_177633	3.41E-05	0.681263	-1.46786
Tram2	NM_133252	0.000337718	0.681167	-1.46807
Rhou	NM_133955	3.96E-06	0.680665	-1.46915
Hist4h4	NM_175652	5.61E-06	0.680632	-1.46922
Ogt	NM_139144	0.000826098	0.68033	-1.46988
Mtap7d1	NM_144941	3.64E-05	0.680096	-1.47038
Mtap9	NM_001081230	0.000639327	0.679762	-1.4711
Cpne5	NM_153166	1.83E-05	0.679613	-1.47142
Lmln	NM_172823	8.92E-06	0.679604	-1.47145
Igfbp2	NM_008342	4.78E-07	0.679558	-1.47154
Map3k1	NM_011945	1.59E-05	0.679327	-1.47204
M6pr	NM_010749	3.44E-06	0.679225	-1.47227
Timm23	NM_016897	4.89E-06	0.679157	-1.47241
Ldoc1	NM_001018087	4.14E-05	0.679058	-1.47263
Nsd1	NM_008739	0.000184329	0.678883	-1.47301
Dnaja1	NM_008298	0.000325376	0.678747	-1.4733
Dtx1	NM_008052	0.000128366	0.678327	-1.47422
Aff4	NM_033565	0.000163493	0.678151	-1.4746
Fam160b1	NM_145505	0.000291909	0.677736	-1.4755

Dnase2a	NM_010062	1.36E-07	0.677501	-1.47601
Ccdc114	NM_001033243	0.000120605	0.677114	-1.47686
Clock	NM_007715	0.000142907	0.677108	-1.47687
Peg3	NM_008817	2.12E-06	0.677005	-1.47709
Phf20	NM_172674	0.000209481	0.676709	-1.47774
Slc25a1	NM_153150	9.46E-07	0.676341	-1.47854
Gna14	NM_008137	0.000451591	0.676303	-1.47863
Mrpl40	NM_010922	0.00031109	0.675834	-1.47965
Pak4	NM_027470	3.74E-06	0.675601	-1.48016
Sh3tc1	NM_194344	1.24E-05	0.675502	-1.48038
Pafah1b3	NM_008776	0.000197963	0.67533	-1.48076
Dnmbp	NM_028029	7.84E-07	0.675291	-1.48084
Ehmt2	NM_145830	2.33E-06	0.675251	-1.48093
Mtmt7	NM_001040699	0.000554082	0.675114	-1.48123
Muc1	NM_013605	4.45E-05	0.675071	-1.48133
Jub	NM_010590	3.11E-05	0.674967	-1.48155
Gm12260	XM_905850	5.68E-05	0.674953	-1.48159
Gcat	NM_013847	6.12E-07	0.674947	-1.4816
Fdps	NM_134469	1.37E-05	0.674727	-1.48208
Rap1a	NM_145541	0.000114815	0.674559	-1.48245
Hif3a	NM_001162950	0.000157508	0.674426	-1.48274
Mtmt12	NM_172958	0.000112294	0.674294	-1.48303
Aasdhpt	NM_026276	0.000571697	0.674002	-1.48367
Snora3	NR_028079	0.000400313	0.673813	-1.48409
Acox1	NM_028765	3.19E-05	0.672915	-1.48607
Atf2	NM_001025093	0.000102175	0.672847	-1.48622
2810474O19Rik	NM_026054	0.000792398	0.672316	-1.4874
2410042D21Rik	BC080661	5.03E-06	0.672197	-1.48766
Sf3b1	NM_031179	3.52E-05	0.671846	-1.48844
Kif13b	NM_001081177	0.000305456	0.67176	-1.48863
Mnt	NM_010813	1.79E-06	0.671381	-1.48947
Pcsk1	NM_013628	0.000111138	0.671345	-1.48955
4931417G12Rik	NM_027633	6.63E-05	0.671068	-1.49016
Tdgf1	NM_011562	1.36E-08	0.67075	-1.49087
Cdc37l1	NM_025950	3.69E-06	0.670579	-1.49125
Daam1	NM_026102	4.62E-05	0.670403	-1.49164
Mfsd5	NM_134100	0.000225123	0.670103	-1.49231
6430598A04Rik	NM_175521	0.000370388	0.669832	-1.49291
Car2	NM_009801	0.000171423	0.669682	-1.49325
Aamp	NM_146110	7.16E-05	0.66963	-1.49336
Myst4	NM_017479	7.60E-05	0.669626	-1.49337
Bmf	NM_138313	9.81E-05	0.669619	-1.49339
Mrpl15	NM_001177658	2.03E-05	0.669105	-1.49453

Wdr55	NM_026464	4.70E-05	0.669085	-1.49458
Cnn2	NM_007725	4.71E-06	0.669038	-1.49468
Jph1	NM_020604	4.53E-05	0.668856	-1.49509
Bcat2	NM_009737	3.46E-07	0.668727	-1.49538
Snord116	AF241256	0.000375516	0.668716	-1.4954
Eya1	NM_010164	6.09E-06	0.668543	-1.49579
Slc11a1	NM_013612	8.14E-07	0.668464	-1.49597
Akirin2	NM_001007589	1.76E-07	0.668256	-1.49643
Usp51	NM_001137547	9.30E-05	0.668226	-1.4965
Trim26	NM_001025599	9.04E-05	0.668126	-1.49672
Spag9	NM_027569	9.95E-05	0.667382	-1.49839
Llg1	NM_008502	1.10E-05	0.66727	-1.49864
Larp1	NM_028451	1.04E-05	0.667201	-1.4988
B3gnt7	NM_145222	1.66E-05	0.666961	-1.49934
Fam69a	NM_026062	4.23E-05	0.666891	-1.4995
Tdh	NM_021480	1.74E-05	0.666354	-1.5007
Hist1h4b	NM_178193	5.62E-06	0.665927	-1.50167
Dip2c	NM_001081426	0.000211241	0.665905	-1.50172
Atp11b	NM_029570	2.59E-05	0.665715	-1.50214
9430069I07Rik	AK020480	0.000258658	0.665428	-1.50279
Prdx4	NM_016764	2.66E-05	0.665282	-1.50312
Actl6a	NM_019673	5.98E-05	0.66527	-1.50315
Rpa1	NM_001164223	0.000753525	0.665154	-1.50341
Slain2	NM_153567	1.53E-07	0.665111	-1.50351
Pycr1	NM_144795	4.31E-05	0.66486	-1.50408
Dnajb6	NM_011847	3.55E-07	0.664739	-1.50435
Ywhah	NM_011738	1.38E-06	0.664624	-1.50461
Ccng2	NM_007635	0.000521541	0.664301	-1.50534
Tmeff1	NM_021436	1.30E-06	0.664239	-1.50548
Fam134b	NM_001034851	0.000136306	0.6642	-1.50557
Mex3d	NM_198615	4.30E-05	0.66411	-1.50577
Hivep1	NM_007772	5.75E-06	0.664047	-1.50592
Mllt4	NM_010806	7.64E-05	0.663955	-1.50613
4932422M17Rik	ENSMUST00000081006	0.000763631	0.663902	-1.50625
Dpf1	NM_013874	3.50E-05	0.663642	-1.50684
Phgdh	NM_016966	6.17E-05	0.663424	-1.50733
Kifc3	NM_010631	4.77E-09	0.663057	-1.50817
Maged1	NM_019791	0.000117277	0.663034	-1.50822
Zbtb32	NM_021397	8.96E-05	0.663013	-1.50827
Cblb	NM_001033238	0.000321938	0.662988	-1.50832
Elf3	NM_001163131	0.000112652	0.662742	-1.50888
Trpm4	NM_175130	0.000801961	0.662697	-1.50899
Nhedc2	NM_178877	0.000343774	0.66233	-1.50982

Dppa4	NM_001018002	0.000686953	0.662045	-1.51047
Pias4	NM_021501	5.82E-05	0.661668	-1.51133
Homer1	NM_147176	9.66E-06	0.661658	-1.51135
Klf5	NM_009769	2.98E-06	0.661645	-1.51138
Chmp4c	NM_025519	3.90E-05	0.661602	-1.51148
Atcay	NM_178662	0.000297947	0.661165	-1.51248
Dhtkd1	NM_001081131	1.18E-05	0.660781	-1.51336
Mcm9	NM_027830	6.22E-05	0.660599	-1.51378
Tes	NM_207176	5.30E-05	0.660155	-1.5148
Mllt6	NM_139311	7.59E-09	0.659676	-1.5159
Crybg3	NM_174848	0.000148146	0.659656	-1.51594
Aars	NM_146217	6.22E-06	0.659314	-1.51673
Eea1	NM_001001932	0.000316518	0.659196	-1.517
Mef2d	NM_133665	5.20E-07	0.659081	-1.51726
Zfr	NM_011767	0.000592921	0.658804	-1.5179
L3mbtl3	NM_172787	2.59E-05	0.658684	-1.51818
Wdr26	NM_145514	0.000545192	0.658618	-1.51833
Rpp25	NM_133982	0.000855333	0.658483	-1.51864
1110028C15Rik	NM_001122738	1.61E-06	0.658386	-1.51887
Patz1	NM_019574	7.30E-05	0.658351	-1.51895
Pir	NM_027153	2.07E-05	0.658112	-1.5195
Dusp16	NM_130447	5.05E-06	0.658035	-1.51968
Mir92-1	NR_029816	0.000652937	0.657937	-1.5199
Cnot6l	NM_178854	4.31E-08	0.657717	-1.52041
Dsp	NM_023842	9.68E-07	0.657304	-1.52137
Dbn1	NM_001177371	2.67E-09	0.656803	-1.52253
Ttc9c	NM_027412	1.95E-06	0.656658	-1.52286
Thumpd3	NM_008188	0.000131599	0.656244	-1.52382
Hinfp	NM_172162	0.000501873	0.656073	-1.52422
Trappc4	NM_021789	2.27E-05	0.656068	-1.52423
Hist1h4m	NM_175657	1.43E-05	0.655986	-1.52442
Spin1	NM_146043	9.21E-05	0.655775	-1.52491
Tgif1	NM_009372	3.65E-06	0.655501	-1.52555
Rassf2	NM_175445	0.000283774	0.655302	-1.52601
Elf2	NM_023502	2.66E-07	0.655206	-1.52624
Agpat3	NM_053014	3.03E-05	0.655051	-1.5266
Kdm6b	NM_001017426	3.17E-08	0.65505	-1.5266
Klhl2	NM_178633	6.94E-05	0.654997	-1.52672
Hibadh	NM_145567	0.000104422	0.654425	-1.52806
Ctbp2	NM_009980	1.87E-05	0.654425	-1.52806
Max	NM_008558	0.000555269	0.654396	-1.52813
H2-Ke2	NM_010385	0.000500536	0.654105	-1.52881
Pbx1	NM_183355	7.19E-05	0.654059	-1.52891

Pfkp	NM_019703	6.28E-08	0.653881	-1.52933
Capn5	NM_007602	3.44E-07	0.653688	-1.52978
Tro	NM_001002272	1.80E-05	0.653058	-1.53126
2610019F03Rik	NM_173744	3.92E-05	0.653052	-1.53127
Spcs3	NM_029701	0.000314568	0.652976	-1.53145
Psemb10	NM_013640	1.61E-06	0.652938	-1.53154
Parp12	NM_172893	0.000527038	0.652659	-1.53219
Spc24	NM_026282	0.00011392	0.652636	-1.53225
Sox2	NM_011443	2.71E-06	0.652518	-1.53252
Gm15514	ENSMUST00000078065	1.09E-05	0.652415	-1.53277
Trim8	NM_053100	0.000281085	0.652349	-1.53292
0610010F05Rik	NM_027860	7.57E-05	0.652349	-1.53292
Dcaf5	NM_177267	1.47E-07	0.652085	-1.53354
Mllt10	NM_010804	3.66E-07	0.65159	-1.53471
Fgfr3	NM_008010	1.68E-05	0.651578	-1.53473
Pdk1	NM_172665	4.80E-09	0.651231	-1.53555
1700084J12Rik	NR_033608	7.13E-06	0.650752	-1.53668
Elmo1	NM_080288	4.43E-07	0.65065	-1.53692
Slc44a2	NM_152808	9.82E-07	0.65063	-1.53697
Chd7	NM_001081417	9.09E-05	0.650414	-1.53748
Hiat1	NM_008246	2.69E-06	0.650181	-1.53803
Klf10	NM_013692	0.000623821	0.649949	-1.53858
1700001L05Rik	NR_027980	0.000361652	0.649917	-1.53866
Anxa11	NM_013469	0.000194861	0.649885	-1.53873
Tle6	NM_053254	7.83E-06	0.649868	-1.53877
Slc26a6	NM_134420	2.88E-07	0.649294	-1.54013
Slc39a1	NM_013901	0.000387893	0.649095	-1.54061
Atad1	NM_026487	3.02E-07	0.649034	-1.54075
Gm2607	XR_031562	0.000323675	0.648746	-1.54144
Cbx1	NM_007622	2.11E-08	0.648555	-1.54189
Exosc4	NM_175399	7.13E-06	0.648301	-1.54249
Lpl	NM_008509	1.40E-06	0.647788	-1.54372
2610528E23Rik	NM_025599	0.000383457	0.647528	-1.54433
Tnip1	NM_021327	7.61E-06	0.647337	-1.54479
Cep55	NM_001164362	0.000312606	0.647296	-1.54489
Lama1	NM_008480	1.41E-07	0.647223	-1.54506
Herpud1	NM_022331	5.70E-06	0.647137	-1.54527
Fnbp4	NM_018828	2.64E-08	0.646969	-1.54567
Klf6	NM_011803	0.000397442	0.646861	-1.54593
Mars	NM_001171582	6.61E-05	0.646832	-1.546
Rdh11	NM_021557	6.10E-05	0.646792	-1.54609
Susd2	NM_027890	0.000757715	0.646618	-1.54651
Gyk	NM_212444	7.84E-05	0.646144	-1.54764

Elavl3	ENSMUST00000003501	0.000263608	0.645914	-1.54819
Bnip1	NM_134253	1.62E-06	0.645876	-1.54829
Tra2a	NM_198102	0.000228027	0.645815	-1.54843
Lad1	NM_133664	2.64E-05	0.645671	-1.54878
Grsf1	NM_178700	1.64E-05	0.645669	-1.54878
Lrfn4	NM_153388	1.42E-06	0.645613	-1.54891
Znrd1	NM_023162	0.000370152	0.645608	-1.54893
Usp22	NM_001004143	2.68E-05	0.645202	-1.5499
Pigl	NM_001039536	0.000199933	0.644545	-1.55148
Gm12696	XR_004941	6.95E-05	0.644351	-1.55195
Pipox	NM_008952	7.05E-06	0.644216	-1.55227
Tada3	NM_133932	7.04E-05	0.643851	-1.55315
Aim1l	NM_001162970	2.02E-06	0.643352	-1.55436
Pdzd4	NM_001029868	3.60E-07	0.643348	-1.55437
Id4	NM_031166	5.62E-05	0.643121	-1.55492
Sgms2	NM_028943	2.70E-06	0.642709	-1.55591
Dhodh	NM_020046	3.60E-06	0.642704	-1.55593
Smad7	NM_001042660	0.000217563	0.641931	-1.5578
Lrp2	NM_001081088	0.000255258	0.641765	-1.5582
Hsph1	NM_013559	4.47E-06	0.641653	-1.55848
Zfp593	NM_024215	6.89E-05	0.641619	-1.55856
Phf17	NM_172303	0.000529341	0.641547	-1.55873
Shkbp1	NM_138676	0.000856004	0.641421	-1.55904
Rfx2	NM_027787	3.56E-07	0.640822	-1.5605
Kdm2b	ENSMUST00000121739	4.72E-05	0.64072	-1.56074
Malt1	NM_172833	8.50E-05	0.640287	-1.5618
Gpr137b-ps	NR_003568	0.000194447	0.640248	-1.5619
Zfp72	NM_001081680	0.000237016	0.640081	-1.5623
Cep170	NM_001099637	2.39E-05	0.639636	-1.56339
Dnajc6	NM_001164585	0.000470463	0.639538	-1.56363
Ccdc106	NM_146178	5.92E-06	0.639404	-1.56396
Ptpn9	NM_019651	4.69E-06	0.639328	-1.56414
Hook1	NM_030014	1.12E-05	0.639149	-1.56458
Mesdc1	NM_030705	3.05E-06	0.63891	-1.56517
Eml2	NM_028153	5.60E-06	0.638707	-1.56566
Lrrc16a	NM_026825	7.83E-06	0.638564	-1.56601
Eno3	NM_007933	4.16E-05	0.638431	-1.56634
Zfp36l2	NM_001001806	6.06E-08	0.638081	-1.5672
Cldn7	NM_016887	9.39E-05	0.637895	-1.56766
4933434E20Rik	NM_025762	0.00054356	0.637686	-1.56817
Ccnb1ip1	NM_001111119	0.000385783	0.637623	-1.56833
Kpna1	NM_008465	4.68E-05	0.637513	-1.5686
Arrb2	NM_145429	3.82E-06	0.637262	-1.56921

Mrps27	NM_173757	3.90E-05	0.637025	-1.5698
Il2rg	NM_013563	0.000276228	0.636997	-1.56987
Epn2	NM_010148	4.81E-05	0.63689	-1.57013
Fhl3	NM_010213	9.81E-05	0.636006	-1.57231
Ugdh	NM_009466	1.30E-06	0.635891	-1.5726
Yes1	NM_009535	3.46E-05	0.635833	-1.57274
Gm7035	NR_004446	1.14E-06	0.635554	-1.57343
Shmt2	NM_028230	2.19E-06	0.634359	-1.5764
Zfp59	NM_011762	5.87E-06	0.634248	-1.57667
Rab6b	NM_173781	4.68E-07	0.633787	-1.57782
Sec14l1	NM_001166506	7.53E-05	0.633081	-1.57958
Usp43	NM_173754	0.000150034	0.632282	-1.58157
F3	NM_010171	7.66E-06	0.63208	-1.58208
Smarcad1	NM_007958	8.39E-06	0.631261	-1.58413
Pla2g7	NM_013737	7.12E-05	0.631085	-1.58457
Ifitm1	NM_026820	9.43E-06	0.630978	-1.58484
Xpo1	NM_134014	8.29E-08	0.630589	-1.58582
Chn1	NM_001113246	1.61E-05	0.630546	-1.58593
A830080D01Rik	NM_001033472	0.000145358	0.629931	-1.58747
Cacnb1	NM_031173	2.53E-06	0.629831	-1.58773
Mapk3	NM_011952	1.69E-06	0.629616	-1.58827
Mobp	NM_008614	7.06E-05	0.629478	-1.58862
4933434E20Rik	NM_025762	0.000560258	0.629331	-1.58899
Ppp1r9a	NM_181595	2.28E-05	0.629048	-1.5897
Tns3	NM_001083587	7.95E-07	0.628971	-1.5899
Hmgb3	NM_008253	0.000810565	0.628798	-1.59034
2810008D09Rik	AK171830	2.37E-05	0.628641	-1.59073
Tcf7l1	NM_001079822	1.55E-07	0.628513	-1.59106
Prdm1	NM_007548	2.06E-05	0.628459	-1.59119
LOC100044384	XR_030628	4.36E-05	0.628429	-1.59127
Pak1	NM_011035	2.00E-05	0.628416	-1.5913
Tmem47	NM_138751	5.33E-05	0.628007	-1.59234
Tsc22d1	NM_207652	2.63E-05	0.62796	-1.59246
Celsr3	NM_080437	9.44E-08	0.627083	-1.59468
Usp14	NM_021522	8.73E-06	0.626894	-1.59517
Wdr31	NM_023597	1.03E-05	0.626853	-1.59527
Setx	NM_198033	1.79E-05	0.626702	-1.59565
Heatr2	NM_001081265	2.74E-06	0.626429	-1.59635
Zfp740	NM_153194	0.000756789	0.626056	-1.5973
Fads1	NM_146094	2.19E-05	0.625849	-1.59783
Mybl2	NM_008652	3.82E-05	0.625744	-1.5981
Atp1a3	NM_144921	1.17E-05	0.6252	-1.59949
Gm9918	ENSMUST00000066324	0.0001682	0.625061	-1.59984

Gtf2a1	NM_031391	4.83E-07	0.624909	-1.60023
St6galnac6	NM_016973	7.10E-05	0.624796	-1.60052
Ppp1r14d	NM_028104	6.54E-05	0.624746	-1.60065
Qk	NM_021881	2.70E-08	0.624736	-1.60068
BC028528	BC028528	5.99E-05	0.6247	-1.60077
Igsf9	NM_033608	1.80E-07	0.62417	-1.60213
Ugcg	NM_011673	0.000347316	0.624038	-1.60247
Dohh	NM_133964	0.000516348	0.623209	-1.6046
Oas1a	NM_145211	0.000698432	0.623082	-1.60493
Acta2	NM_007392	9.95E-05	0.62304	-1.60503
Tle3	NM_001083927	3.28E-07	0.622827	-1.60558
Soat1	NM_009230	1.21E-05	0.62265	-1.60604
Rest	NM_011263	3.08E-06	0.622624	-1.6061
C230052I12Rik	NM_178643	2.82E-05	0.62234	-1.60684
Folr1	NM_008034	9.32E-06	0.622248	-1.60708
Lin28b	NM_001031772	0.000173866	0.622197	-1.60721
Scrn1	NM_027268	3.15E-06	0.622053	-1.60758
Mir300	NR_029651	1.04E-05	0.621868	-1.60806
Rheb1	NM_026967	6.08E-05	0.621397	-1.60928
H2-Ab1	NM_207105	0.0003313	0.621309	-1.60951
Tcfcp2l1	NM_023755	1.78E-08	0.621158	-1.6099
Taf5l	NM_133966	8.43E-06	0.620667	-1.61117
Kdelr3	NM_134090	8.09E-05	0.620096	-1.61265
Tbrg1	NM_025289	9.56E-08	0.620091	-1.61267
L1td1	NM_001081202	0.000179728	0.619669	-1.61376
	1-九月 NM_017461	1.33E-05	0.619549	-1.61408
6430411K18Rik	NR_002848	5.84E-05	0.619413	-1.61443
Snx12	NM_001110310	1.46E-05	0.619139	-1.61515
Slc47a1	NM_026183	1.92E-06	0.618773	-1.6161
Mcf2	NM_133197	0.000245344	0.618611	-1.61652
Bahcc1	NM_198423	9.83E-08	0.61836	-1.61718
Rnf145	NM_028862	2.61E-07	0.618332	-1.61725
Anxa2	NM_007585	3.42E-06	0.617503	-1.61942
Ubtf	NM_011551	6.09E-06	0.617366	-1.61979
Aurka	NM_011497	4.97E-07	0.617158	-1.62033
Gm9884	ENSMUST00000064487	4.31E-06	0.616518	-1.62201
Dnmt3a	NM_007872	7.30E-07	0.615805	-1.62389
4930519F16Rik	BC107248	0.000281161	0.6154	-1.62496
Hsn2	NM_001037155	1.51E-05	0.615137	-1.62565
Wdr5	NM_080848	5.29E-07	0.614884	-1.62632
Txndc12	NM_025334	8.46E-05	0.614726	-1.62674
Grtp1	NM_025768	2.76E-06	0.614598	-1.62708
Esrrb	NM_001159500	1.56E-07	0.614347	-1.62775

Papd7	NM_198600	8.01E-07	0.614301	-1.62787
Lifr	NM_013584	0.000384684	0.614232	-1.62805
Wdr62	NM_146186	7.16E-07	0.613702	-1.62946
Pigx	NM_024464	0.00054827	0.613619	-1.62968
Mapk4	NM_172632	4.43E-06	0.612964	-1.63142
Fblim1	NM_133754	6.86E-08	0.612923	-1.63153
Rgs11	NM_001081069	3.99E-05	0.612468	-1.63274
Trim25	NM_009546	7.88E-07	0.612343	-1.63307
Rdm1	NM_025654	0.000276308	0.611938	-1.63415
Sh3rf1	NM_021506	5.13E-08	0.611766	-1.63461
Gm5246	XR_034011	5.47E-05	0.611716	-1.63474
Brsk1	NM_001003920	1.13E-07	0.611229	-1.63605
Ahcyl2	NM_021414	2.16E-06	0.611094	-1.63641
Epha4	NM_007936	5.51E-05	0.610503	-1.63799
Pbx2	NM_017463	5.89E-06	0.610422	-1.63821
Cox4nb	NM_010926	3.78E-05	0.610294	-1.63855
Pvrl3	NM_021496	9.34E-10	0.609888	-1.63964
Impa2	NM_053261	6.68E-06	0.609535	-1.64059
Marcks	NM_008538	1.36E-05	0.609263	-1.64133
BC053749	BC053749	0.000381726	0.60917	-1.64158
Sertad3	NM_133210	0.000587521	0.609034	-1.64194
Atp1b2	NM_013415	5.84E-05	0.608834	-1.64248
Vbp1	NM_011692	0.000405632	0.608768	-1.64266
Ccnd2	BC049086	0.000146461	0.608518	-1.64334
Slc43a1	NM_001081349	7.20E-06	0.608408	-1.64363
Shc1	NM_001113331	6.92E-06	0.608382	-1.64371
Mlh3	NM_175337	5.62E-05	0.607673	-1.64562
Hvcn1	NM_001042489	7.78E-05	0.607612	-1.64579
Phip	NM_001081216	3.36E-06	0.607142	-1.64706
Gjb1	NM_008124	7.77E-07	0.607092	-1.6472
Cacybp	NM_009786	7.61E-07	0.606975	-1.64752
Sms	NM_009214	1.79E-06	0.606958	-1.64756
Ccdc141	NM_001025576	1.87E-05	0.606899	-1.64772
Gcnt2	NM_023887	8.22E-06	0.606607	-1.64851
Crlf3	NM_018776	3.48E-06	0.605294	-1.65209
Enox1	NM_172813	4.04E-09	0.605253	-1.6522
Arid2	NM_175251	6.88E-07	0.604992	-1.65292
Cdca2	NM_175384	2.65E-05	0.60412	-1.6553
Pan3	NM_028291	6.75E-06	0.604097	-1.65536
Fam3c	NM_138587	6.68E-07	0.603561	-1.65683
Pnma5	NM_001100461	0.000397818	0.60353	-1.65692
Gpr125	NM_133911	5.15E-05	0.60352	-1.65694
Podxl	NM_013723	5.66E-07	0.603192	-1.65785

Exoc3l	NM_177788	5.37E-06	0.603088	-1.65813
Erbp2	NM_001003817	4.25E-08	0.602878	-1.65871
Abca7	NM_013850	3.16E-06	0.60283	-1.65884
Usp13	NM_001013024	1.73E-06	0.602684	-1.65924
Psmc3	NM_009439	4.99E-06	0.602632	-1.65939
Wsb2	NM_021539	1.60E-05	0.602414	-1.65999
Hsd17b14	NM_025330	2.50E-07	0.602274	-1.66037
Cldn3	NM_009902	8.55E-05	0.601914	-1.66137
D14Erd436e	NM_172599	0.000253986	0.601882	-1.66146
Sirt1	NM_019812	9.46E-09	0.601581	-1.66229
Twf2	NM_011876	1.52E-06	0.60144	-1.66268
Taok1	NM_144825	2.47E-06	0.601162	-1.66345
Parp9	NM_030253	5.89E-05	0.600231	-1.66602
Tbc1d13	NM_146252	4.94E-08	0.600101	-1.66639
Rps6ka6	NM_025949	5.75E-07	0.600096	-1.6664
2210409E12Rik	NR_003492	1.37E-05	0.599981	-1.66672
Tnfrsf12-Tnfrsf13	NM_001034097	8.80E-05	0.599961	-1.66678
Mitf	NM_001113198	2.92E-05	0.599914	-1.6669
Cspg5	NM_001166273	2.27E-07	0.599876	-1.66701
Kdm3b	NM_001081256	1.01E-05	0.599613	-1.66774
Notum	NM_175263	6.53E-05	0.599269	-1.6687
Meis2	NM_001136072	3.54E-06	0.59896	-1.66956
Gtf2e2	NM_001167922	0.00085935	0.598504	-1.67083
Ptger1	NM_011197	1.37E-06	0.597912	-1.67249
Tik1	NM_172664	0.000530558	0.597814	-1.67276
Slco5a1	NM_172841	0.000229109	0.597494	-1.67366
Nynrin	NM_001040072	1.23E-06	0.597354	-1.67405
Grasp	NM_019518	0.000603762	0.597269	-1.67429
Cst3	NM_009976	6.01E-05	0.596715	-1.67584
Abcd3	ENSMUST00000029770	0.000127263	0.596362	-1.67684
Rsb1	NM_172684	1.27E-06	0.59576	-1.67853
Rbpj	NM_009035	6.14E-06	0.59549	-1.67929
Glul	NM_008131	5.98E-07	0.595299	-1.67983
Snx17	NM_153680	2.71E-06	0.59524	-1.67999
Bnc2	NM_172870	1.09E-06	0.59512	-1.68033
2210011C24Rik	ENSMUST00000056686	2.92E-06	0.595034	-1.68058
Sfrs3	NM_013663	1.67E-06	0.594769	-1.68132
Dock5	NM_177780	9.25E-05	0.594655	-1.68165
Stk38	NM_134115	0.000270914	0.594327	-1.68257
Hist1h4d	NM_175654	2.41E-05	0.59396	-1.68362
Atad2b	NM_001099628	7.29E-05	0.593825	-1.684
Lrrc8b	NM_001033550	1.82E-08	0.593647	-1.6845
Alg1	NM_145362	3.13E-05	0.593504	-1.68491

Hist1h2ba	NM_175663	0.000150945	0.593056	-1.68618
Fgf10	NM_008002	0.000332524	0.592934	-1.68653
Tspan17	NM_028841	0.000284397	0.592557	-1.6876
Gpa33	NM_021610	0.000117896	0.592392	-1.68807
Mtss1	NM_001146180	1.80E-05	0.592273	-1.68841
Tmem41b	NM_153525	5.56E-05	0.592269	-1.68842
Spats2	NM_139140	7.89E-07	0.592254	-1.68846
Dcbld2	NM_028523	3.28E-06	0.59222	-1.68856
Asap2	NM_001135192	0.000207879	0.591102	-1.69176
Peg10	NM_130877	7.91E-09	0.591077	-1.69183
Sema6c	NM_011351	1.60E-07	0.590948	-1.6922
Uchl1	NM_011670	9.92E-05	0.59085	-1.69248
Mapt	NM_001038609	1.59E-06	0.590806	-1.6926
Terf1	NM_009352	7.52E-07	0.590501	-1.69348
Mir329	NR_029762	8.69E-05	0.590068	-1.69472
Fiz1	NM_011813	8.82E-05	0.5894	-1.69664
Ankrd28	NM_001024604	1.01E-05	0.5886	-1.69895
Setd1b	ENSMUST00000100731	0.000240928	0.588443	-1.6994
Igsf21	NM_198610	9.15E-07	0.588364	-1.69963
Agtrap	NM_009642	3.00E-06	0.588199	-1.7001
Lefty2	NM_177099	5.84E-05	0.588192	-1.70012
Ccl25	NM_009138	0.00094598	0.587933	-1.70087
Polr3gl	NM_027241	8.69E-05	0.587825	-1.70119
Robo4	NM_028783	5.96E-05	0.587766	-1.70136
Ak3l1	NM_001177602	1.50E-05	0.587628	-1.70176
Scpep1	NM_029023	0.000300277	0.58755	-1.70198
Plekhg5	NM_001004156	1.07E-10	0.587448	-1.70228
Syce2	NM_001168246	6.66E-06	0.58689	-1.7039
Gtsf1l	NM_026630	3.58E-05	0.585088	-1.70914
Rufy3	NM_027530	2.90E-05	0.584807	-1.70996
Atp8b2	NM_001081182	3.55E-07	0.584662	-1.71039
Mir134	NR_029548	8.49E-05	0.584191	-1.71177
Lck	NM_010693	5.02E-07	0.583544	-1.71367
Grhl2	NM_026496	1.10E-06	0.583526	-1.71372
Slc38a5	NM_172479	2.55E-05	0.582837	-1.71574
Lrrc2	NM_028838	0.000426544	0.582127	-1.71784
Cobl	NM_172496	9.78E-06	0.582011	-1.71818
Dnajb14	NM_001033155	8.36E-06	0.581968	-1.71831
Zic3	NM_009575	6.19E-08	0.581847	-1.71867
Wfdc2	NM_026323	7.34E-05	0.581466	-1.71979
Snx10	NM_028035	3.36E-07	0.580913	-1.72143
Dennd5b	NM_177192	4.34E-06	0.580684	-1.72211
Stc1	NM_009285	6.76E-07	0.580516	-1.72261

Csrnp1	NM_153287	4.57E-06	0.58016	-1.72366
Manba	NM_027288	1.01E-07	0.580048	-1.72399
Rtn4	NM_194054	3.14E-10	0.579967	-1.72424
Atp10a	NM_009728	5.88E-06	0.579882	-1.72449
Bend5	NM_026279	5.65E-05	0.579097	-1.72683
Tmem231	NM_001033321	3.59E-06	0.579037	-1.72701
Sat2	NM_026991	8.94E-06	0.578106	-1.72979
Wtap	NM_001113533	1.03E-06	0.577952	-1.73025
Sod2	NM_013671	1.24E-05	0.577743	-1.73087
Kdm6a	NM_009483	2.78E-05	0.577647	-1.73116
Epcam	NM_008532	1.17E-06	0.577315	-1.73216
Sipa1l1	NM_001167983	5.56E-05	0.576577	-1.73437
E2f2	NM_177733	9.60E-07	0.576555	-1.73444
Ier2	NM_010499	1.74E-05	0.576308	-1.73518
Elavl2	NM_207685	2.23E-08	0.576134	-1.73571
Ctsc	NM_009982	5.34E-05	0.575434	-1.73782
	9-三月 NM_001033262	3.00E-05	0.574293	-1.74127
Optn	NM_181848	0.000143744	0.573349	-1.74414
Fbxo30	NM_027968	9.53E-07	0.573199	-1.7446
Gm340	AK145489	6.75E-05	0.573071	-1.74498
Zfp516	NM_183033	4.13E-06	0.573043	-1.74507
Cyb5r1	NM_028057	2.24E-05	0.572924	-1.74543
Lfng	NM_008494	7.12E-06	0.572744	-1.74598
Plod1	NM_011122	6.54E-06	0.57255	-1.74657
Chordc1	NM_025844	0.000171937	0.572484	-1.74677
Dpp4	NM_010074	1.04E-07	0.571875	-1.74863
Ppp1r15b	NM_133819	1.51E-05	0.571739	-1.74905
Cntfr	NM_016673	1.89E-07	0.571643	-1.74935
Rsph1	NM_025290	7.42E-05	0.57153	-1.74969
Dclk2	NM_027539	3.21E-05	0.571309	-1.75036
D930048N14Rik	NR_027958	2.73E-05	0.571279	-1.75046
Clgn	NM_009904	3.01E-06	0.570351	-1.75331
Rcn1	NM_009037	7.00E-08	0.570185	-1.75382
Auts2	NM_177047	7.67E-07	0.570072	-1.75416
Ly75	NM_013825	1.87E-07	0.570032	-1.75429
Mipol1	NM_001164370	2.16E-06	0.569678	-1.75538
Lgals3	NM_001145953	0.000218675	0.569262	-1.75666
Gabarapl2	NM_026693	0.000154308	0.569187	-1.75689
Oxr1	NM_001130166	1.35E-06	0.567972	-1.76065
Cry1	NM_007771	1.76E-09	0.567821	-1.76112
Usp54	NM_030180	3.03E-07	0.567636	-1.76169
Gtf2h1	NM_008186	7.35E-06	0.566532	-1.76513
H2-M5	NM_001115075	1.42E-05	0.566393	-1.76556

Oas1g	NM_011852	6.12E-07	0.56638	-1.7656
Rnd3	NM_028810	8.49E-07	0.566268	-1.76595
Il13ra1	NM_133990	6.75E-05	0.566015	-1.76674
Illdr1	NM_134109	1.89E-07	0.564889	-1.77026
Zfp317	NM_172918	1.03E-05	0.564486	-1.77152
Plcd1	NM_019676	1.38E-08	0.563911	-1.77333
Gys1	NM_030678	4.09E-05	0.563825	-1.7736
Sigmar1	NM_011014	5.39E-05	0.563619	-1.77425
Zswim6	NM_145456	6.24E-06	0.563388	-1.77498
Slc1a5	NM_009201	6.15E-06	0.563379	-1.775
Chchd10	NM_175329	1.01E-05	0.562875	-1.77659
Chrm4	NM_007699	2.97E-06	0.562221	-1.77866
Aldh1b1	NM_028270	2.95E-05	0.561755	-1.78014
2900011O08Rik	BC022741	3.30E-07	0.561221	-1.78183
BC032203	NM_001100452	6.33E-08	0.560723	-1.78341
Tesk2	NM_146151	8.64E-07	0.560472	-1.78421
Colec12	NM_130449	3.76E-05	0.559857	-1.78617
Hn1	NM_008258	1.09E-06	0.559282	-1.78801
Cdk17	NM_146239	2.92E-06	0.5582	-1.79147
Lonrf2	NM_001029878	1.69E-05	0.557596	-1.79341
Tceal8	NM_001168578	0.000420721	0.557559	-1.79353
L1cam	NM_008478	2.39E-05	0.556136	-1.79812
Mllt11	NM_019914	1.61E-07	0.555791	-1.79924
Sema3e	NM_011348	2.72E-08	0.555589	-1.79989
Tubb2a	NM_009450	1.55E-06	0.554957	-1.80194
Ddx3x	NM_010028	1.99E-07	0.554613	-1.80306
Axin2	NM_015732	3.36E-06	0.55461	-1.80307
Mier3	NM_172593	4.65E-05	0.553145	-1.80784
Utf1	NM_009482	2.39E-05	0.552997	-1.80833
Krt42	NM_212483	3.87E-06	0.552744	-1.80915
Grik3	NM_001081097	1.98E-07	0.552092	-1.81129
Khynyn	NM_027143	1.25E-06	0.55204	-1.81146
Plekha2	NM_031257	0.000473475	0.551149	-1.81439
Dcaf12l1	NM_178739	3.03E-06	0.550964	-1.815
Prss8	NM_133351	8.13E-07	0.550752	-1.8157
Uba6	NM_172712	7.11E-05	0.550589	-1.81624
Itga9	NM_133721	5.28E-07	0.550275	-1.81727
Tubb2b	NM_023716	6.60E-06	0.550211	-1.81748
Dsg2	NM_007883	0.000546368	0.549981	-1.81825
Mga	NM_013720	9.95E-05	0.54997	-1.81828
Mt2	NM_008630	0.000390583	0.549688	-1.81921
Kit	NM_001122733	1.18E-05	0.549452	-1.82
Cmtm7	NM_133978	4.09E-06	0.549269	-1.8206

Slc28a1	NM_001004184	1.04E-05	0.548855	-1.82197
Smg7	NM_001160257	0.000118148	0.548739	-1.82236
Zdhhc15	NM_175358	7.44E-05	0.548564	-1.82294
Fam63a	BC094388	6.45E-06	0.54842	-1.82342
Gm10245	ENSMUST00000090285	2.18E-06	0.548211	-1.82411
Ndrp2	NM_013864	5.60E-05	0.548144	-1.82434
Txnrd3	NM_153162	9.60E-06	0.54806	-1.82462
Fzd5	NM_022721	5.76E-08	0.547407	-1.8268
Cdhr1	NM_130878	8.29E-07	0.547274	-1.82724
Klf13	NM_021366	4.01E-07	0.546685	-1.82921
Fstl1	NM_008047	1.52E-06	0.546674	-1.82924
Atoh1	BC010820	0.000229229	0.545874	-1.83192
Gpd2	NM_010274	1.15E-06	0.54582	-1.83211
Gm10047	ENSMUST00000069263	0.000267027	0.545657	-1.83265
6030429G01Rik	BC150983	3.82E-05	0.545466	-1.83329
Prune	NM_173347	9.64E-05	0.545113	-1.83448
Hist2h2bb	NM_175666	1.02E-05	0.544137	-1.83777
Gli1	NM_010296	5.76E-07	0.542933	-1.84185
Cbln1	NM_019626	8.22E-05	0.542918	-1.8419
Ttyh1	NM_021324	9.41E-09	0.542242	-1.8442
Erf	NM_010155	3.17E-10	0.542042	-1.84487
Zmym5	NM_144842	4.15E-06	0.541451	-1.84689
Rbm14	NM_019869	4.63E-06	0.540916	-1.84872
Hspbap1	NM_175111	1.01E-06	0.540419	-1.85042
Kdm4c	NM_144787	3.85E-08	0.539523	-1.85349
Mov10	NM_001163440	9.04E-10	0.539164	-1.85472
Cnn3	NM_028044	4.46E-05	0.538629	-1.85657
Pde9a	NM_008804	4.84E-06	0.538445	-1.8572
Mep1b	NM_008586	1.93E-07	0.538003	-1.85872
Slc1a3	NM_148938	3.76E-08	0.537063	-1.86198
Zfy1	NM_009570	8.87E-05	0.536804	-1.86288
She	NM_172530	2.74E-07	0.536339	-1.86449
Tmem106a	NM_144830	3.63E-06	0.535986	-1.86572
Aff1	NM_001080798	2.47E-05	0.535931	-1.86591
Ngfr	NM_033217	3.35E-07	0.534573	-1.87065
Pcgf2	NM_009545	5.63E-05	0.534534	-1.87079
Tmem180	NM_029186	1.71E-05	0.53448	-1.87098
Nuak1	NM_001004363	4.48E-05	0.534294	-1.87163
Usp28	NM_175482	5.55E-10	0.533789	-1.8734
Sumo1	NM_009460	0.000126107	0.53345	-1.87459
Nav1	NM_173437	6.00E-08	0.533204	-1.87545
Irf9	NM_001159417	3.25E-06	0.533123	-1.87574
Tmem28	NM_001081283	6.93E-06	0.532728	-1.87713

Ints6	NM_008715	4.81E-08	0.532439	-1.87815
Nfkbid	NM_172142	3.91E-06	0.532217	-1.87893
Baz2b	NM_001001182	5.39E-06	0.531782	-1.88047
D14Ertd668e	NM_001164323	5.91E-05	0.529103	-1.88999
Adm2	NM_182928	2.74E-07	0.529048	-1.89019
Slc16a1	NM_009196	2.12E-08	0.527879	-1.89437
Sars	NM_011319	4.46E-07	0.527225	-1.89672
Arhgap29	NM_172525	6.50E-07	0.526116	-1.90072
Anxa7	NM_009674	8.44E-06	0.525673	-1.90232
Slc16a6	NM_001029842	1.46E-07	0.524994	-1.90478
Usp26	NM_031388	3.86E-06	0.524927	-1.90503
Ncoa6	NM_019825	2.44E-05	0.52461	-1.90618
Pnma2	NM_175498	1.71E-06	0.524425	-1.90685
Tbx3	NM_011535	1.03E-07	0.523103	-1.91167
Slc37a1	NM_153062	5.97E-08	0.523051	-1.91186
Stc2	NM_011491	2.87E-06	0.522984	-1.9121
Slc30a2	NM_001039677	6.00E-07	0.522774	-1.91287
Arhgef2	NM_008487	8.32E-07	0.522707	-1.91312
Mthfr	NM_001161798	6.00E-06	0.522208	-1.91494
Trps1	NM_032000	1.04E-07	0.522012	-1.91567
Pla2g4e	NM_177845	2.26E-08	0.521597	-1.91719
Etv5	NM_023794	2.15E-10	0.521549	-1.91737
Nkx6-3	NM_029002	1.14E-07	0.52137	-1.91803
Ube2g1	NM_025985	1.09E-05	0.521213	-1.9186
Pck2	NM_028994	1.18E-06	0.521036	-1.91925
Ddx3y	NM_012008	2.85E-05	0.52031	-1.92193
Mtfr1	NM_026182	1.19E-06	0.52026	-1.92212
Gabarapl1	NM_020590	0.000345124	0.519819	-1.92374
Smarca1	NM_053123	0.000986622	0.519674	-1.92428
Fzd7	NM_008057	1.54E-06	0.51909	-1.92645
Vangl1	NM_177545	2.56E-07	0.518277	-1.92947
Gm13939	NR_033473	0.000788365	0.518168	-1.92987
Gm6762	NM_001167603	1.78E-06	0.517286	-1.93317
Tead4	NM_011567	5.93E-10	0.516843	-1.93482
Spire2	NM_172287	2.00E-06	0.516705	-1.93534
Ralgps2	NM_001159965	3.72E-06	0.516603	-1.93572
Lgr4	NM_172671	1.04E-06	0.516435	-1.93635
Inhbb	NM_008381	6.14E-06	0.516006	-1.93796
Enah	NM_010135	1.03E-06	0.515888	-1.93841
Dnajc21	NM_030046	7.95E-07	0.515738	-1.93897
Rmnd5b	NM_025346	2.57E-05	0.51553	-1.93975
2810416G20Rik	ENSMUST00000057404	1.23E-05	0.514677	-1.94297
Acap1	NM_153788	9.23E-08	0.514198	-1.94478

Dnajc22	NM_176835	2.57E-06	0.513514	-1.94737
Nudt4	NM_027722	6.63E-07	0.511757	-1.95405
Prr19	BC147639	1.54E-05	0.511678	-1.95436
Plaur	NM_011113	2.39E-05	0.510781	-1.95779
Cpne3	NM_027769	1.63E-05	0.510766	-1.95784
Atf4	NM_009716	4.43E-06	0.510266	-1.95976
Lima1	NM_001113545	1.08E-08	0.509619	-1.96225
Fjx1	NM_010218	1.51E-06	0.50958	-1.9624
B3gnt2	NM_016888	4.95E-06	0.509288	-1.96353
Bcar3	NM_013867	5.01E-07	0.509287	-1.96353
2610318N02Rik	BC039993	4.01E-06	0.508441	-1.9668
Fbxo27	NM_207238	3.63E-06	0.507959	-1.96866
4930583H14Rik	NR_028121	0.000530925	0.507707	-1.96964
Elovl7	NM_029001	9.60E-06	0.507248	-1.97142
Chac1	NM_026929	4.57E-05	0.506127	-1.97579
2200002K05Rik	BC055786	0.00010085	0.505493	-1.97827
Sgk1	NM_001161845	1.39E-06	0.505455	-1.97842
Gnpnat1	NM_019425	1.62E-05	0.504285	-1.98301
Pdpm	NM_010329	1.52E-07	0.504257	-1.98312
Ankrd45	NM_028664	1.11E-06	0.504225	-1.98324
Hist1h4f	NM_175655	6.05E-06	0.501915	-1.99237
Tdrd12	NM_028034	2.33E-06	0.501759	-1.99299
2310014H01Rik	NM_001146711	6.69E-07	0.501637	-1.99347
Coch	NM_007728	1.14E-06	0.50134	-1.99465
Gm10522	ENSMUST00000097468	6.87E-05	0.501293	-1.99484
Serpinb1a	NM_025429	1.01E-06	0.500778	-1.99689
Ldlr	NM_010700	1.76E-06	0.500455	-1.99818
Pvr	NM_027514	2.65E-05	0.499489	-2.00205
Nrp2	NM_001077403	1.98E-06	0.498836	-2.00467
Trim2	NM_030706	8.79E-07	0.497785	-2.0089
Camkv	NM_145621	1.99E-05	0.497193	-2.01129
Yars	NM_134151	4.76E-08	0.496848	-2.01269
AU018091	NM_001004153	2.01E-05	0.496257	-2.01508
Six1	NM_009189	2.58E-07	0.495849	-2.01674
Hbegf	NM_010415	2.83E-07	0.495069	-2.01992
Nufip2	NM_001024205	6.89E-07	0.494882	-2.02068
Rcn3	NM_026555	3.30E-07	0.494785	-2.02108
Ttc39b	NM_027238	2.56E-07	0.494669	-2.02155
Rreb1	NR_033218	5.59E-10	0.493498	-2.02635
Anp32-ps	AY702092	9.52E-05	0.493489	-2.02639
Alg13	NM_026247	1.01E-06	0.492987	-2.02845
Lix1l	NM_001163170	2.52E-07	0.492312	-2.03123
Acot9	NM_019736	2.69E-07	0.491704	-2.03374

Jarid2	NM_021878	7.16E-07	0.490913	-2.03702
Herc4	NM_026101	2.33E-07	0.490495	-2.03876
Armcx1	NM_001166377	3.72E-08	0.489749	-2.04186
Nampt	NM_021524	1.41E-06	0.489657	-2.04224
Ccrn4l	NM_009834	1.42E-05	0.488683	-2.04632
Fam169b	NM_001013811	1.72E-06	0.488109	-2.04872
Aplp1	NM_007467	4.02E-06	0.487389	-2.05175
Lpar1	NM_010336	6.36E-08	0.48733	-2.052
Zfp459	NM_177811	0.000652152	0.487173	-2.05266
Ebp	NM_007898	2.17E-06	0.487065	-2.05312
Rpp38	NM_001013376	0.000681395	0.48667	-2.05478
Sap30	NM_021788	0.000518414	0.48646	-2.05567
Trib1	NM_144549	1.44E-05	0.486371	-2.05604
Phlpp1	NM_133821	1.61E-07	0.486307	-2.05631
Mpped2	NM_029837	1.93E-07	0.48627	-2.05647
Dlgap3	NM_198618	3.46E-05	0.486213	-2.05671
Ggt1	NM_008116	2.02E-07	0.485484	-2.0598
Gprc5a	NM_181444	0.000132668	0.485362	-2.06032
Sh3gl2	NM_019535	6.65E-07	0.484756	-2.06289
Aldoc	NM_009657	7.59E-05	0.484359	-2.06458
Pcgf5	NM_029508	8.22E-07	0.484179	-2.06535
Baz1a	NM_013815	1.80E-07	0.48414	-2.06552
Lrrn4	NM_177303	1.21E-06	0.48383	-2.06684
Zfp710	NM_175433	3.12E-08	0.483718	-2.06732
Lactb2	NM_145381	1.27E-06	0.483376	-2.06878
Lphn2	NM_001081298	7.78E-05	0.482818	-2.07118
Pax6	NM_013627	6.73E-06	0.482642	-2.07193
G3bp2	NM_011816	4.92E-07	0.481529	-2.07672
Fbxo44	NM_173401	1.86E-07	0.480921	-2.07934
Tomm5	NM_001099675	0.000106156	0.480416	-2.08153
Mirg	NR_028265	1.11E-05	0.480301	-2.08203
Mir377	NR_029878	3.42E-05	0.47822	-2.09109
Acp5	NM_001102404	9.35E-07	0.476783	-2.09739
Arid5b	NM_023598	4.50E-08	0.476458	-2.09882
Pou2f3	NM_011139	2.76E-07	0.476199	-2.09996
Zbtb45	NM_001024699	2.84E-07	0.475556	-2.1028
Ceacam1	NM_001039185	1.84E-05	0.475117	-2.10474
Pdgfc	NM_019971	7.42E-06	0.473833	-2.11045
Zic5	NM_022987	1.56E-06	0.473755	-2.1108
9030420J04Rik	BC137891	9.61E-05	0.473236	-2.11311
	11-三月 NM_177597	3.06E-05	0.472409	-2.11681
Ina	NM_146100	1.22E-06	0.472405	-2.11683
Cpsf4l	NM_026682	1.61E-07	0.472319	-2.11721

Tmem8	NM_021793	2.68E-06	0.472054	-2.1184
Tor1aip2	NM_172843	3.39E-07	0.471952	-2.11886
Sox4	NM_009238	4.08E-05	0.471838	-2.11937
Mll3	NM_001081383	1.66E-07	0.470363	-2.12602
Bcl6b	NM_007528	3.97E-09	0.469852	-2.12833
Fgd1	NM_008001	8.70E-09	0.469636	-2.12931
Pla2g10	NM_011987	3.45E-06	0.469479	-2.13002
Usp3	NM_144937	5.21E-07	0.46895	-2.13242
Rai14	NM_001166408	2.79E-08	0.468742	-2.13337
Scd2	NM_009128	1.60E-08	0.467804	-2.13765
Gli2	NM_001081125	1.15E-09	0.467637	-2.13841
Ptch2	NM_008958	1.78E-08	0.467305	-2.13993
Bnip3	NM_009760	1.58E-07	0.466627	-2.14304
Gm10858	ENSMUST00000100438	1.58E-05	0.466451	-2.14385
Dmrt1	NM_015826	2.29E-09	0.466286	-2.14461
Lrrc34	NM_027941	7.15E-05	0.465014	-2.15047
Mapk11	NM_011161	5.79E-08	0.464751	-2.15169
1110021L09Rik	NM_183116	1.23E-08	0.463451	-2.15773
Slc46a3	NM_027872	1.55E-06	0.462955	-2.16004
Grin1	NM_008169	2.50E-07	0.462149	-2.1638
Six4	NM_011382	7.63E-09	0.461888	-2.16503
Ubqln2	NM_018798	1.12E-06	0.461793	-2.16547
Morf4l2	NM_019768	3.49E-06	0.461612	-2.16632
Tagln3	NM_019754	4.31E-08	0.461522	-2.16675
Lrrc8d	NM_178701	5.97E-08	0.461075	-2.16885
Rnf165	NM_001164504	2.20E-07	0.46106	-2.16891
B3galnt1	NM_020026	1.03E-06	0.460763	-2.17032
Zfp57	NM_001013745	1.22E-06	0.460588	-2.17114
Mex3a	NM_001029890	2.62E-08	0.459828	-2.17472
Tgfb1	NM_011577	1.06E-08	0.459235	-2.17754
Foxo4	NM_018789	7.28E-09	0.459067	-2.17833
Gpt2	NM_173866	4.48E-08	0.459006	-2.17862
Rnf125	NM_026301	1.06E-06	0.458104	-2.18291
Phf15	NM_199299	3.99E-07	0.457759	-2.18456
Accsl	NM_001033452	2.33E-06	0.457692	-2.18488
Rbpms	NM_019733	1.44E-08	0.457088	-2.18776
Fbxo15	NM_015798	4.67E-07	0.456749	-2.18938
Cables1	NM_001146287	9.77E-09	0.456353	-2.19129
Mir487b	NR_030271	1.31E-05	0.456297	-2.19155
Ier3	NM_133662	5.53E-05	0.456236	-2.19185
Camk2n1	NM_025451	5.62E-07	0.454931	-2.19814
2410004A20Rik	NM_025890	4.93E-09	0.454267	-2.20135
Mtap1a	NM_032393	3.07E-08	0.452134	-2.21173

Fermt2	NM_146054	2.41E-09	0.451686	-2.21393
Slc17a9	NM_183161	1.01E-06	0.451168	-2.21647
Ptpn12	NM_011203	4.28E-07	0.449844	-2.22299
Mtap1b	NM_008634	1.09E-07	0.449731	-2.22355
Dnmt3l	NM_019448	1.53E-08	0.449387	-2.22525
B4galt6	NM_019737	1.68E-08	0.448447	-2.22992
Dusp6	NM_026268	4.10E-09	0.447891	-2.23268
Irf1	NM_008390	4.06E-07	0.447867	-2.23281
Glt1d1	NM_177005	1.61E-08	0.446924	-2.23752
Kat2b	NM_020005	1.47E-11	0.446403	-2.24013
Nupr1	NM_019738	5.28E-06	0.445832	-2.243
Kif23	NM_024245	5.59E-08	0.445735	-2.24349
Smagp	NM_174992	3.82E-08	0.445588	-2.24423
Mest	NM_008590	0.000344828	0.441083	-2.26715
Apobec3	NM_001160415	8.31E-07	0.439893	-2.27328
C330016O10Rik	NM_145974	4.83E-07	0.437002	-2.28832
Epb4.9	NM_013514	8.39E-08	0.436905	-2.28883
Kank4	NM_172872	2.58E-06	0.435355	-2.29698
Krt17	NM_010663	5.16E-06	0.435106	-2.29829
Rasgrp1	NM_011246	9.93E-09	0.435016	-2.29876
Zyg11a	NM_001167936	5.31E-08	0.434818	-2.29981
Zp3	NM_011776	2.41E-08	0.434217	-2.303
Pvrl2	NM_008990	1.26E-08	0.433915	-2.3046
Nanog	NM_028016	2.64E-07	0.43379	-2.30526
Slc1a4	NM_018861	6.18E-07	0.433419	-2.30723
Foxr2	NM_001034894	1.07E-07	0.430499	-2.32289
Tcfef	NM_011549	1.08E-09	0.429288	-2.32944
Bdh2	NM_001172055	9.52E-08	0.428689	-2.33269
Rhoc	NM_007484	1.92E-07	0.428522	-2.3336
Gap43	NM_008083	4.88E-06	0.428244	-2.33512
Lin28a	NM_145833	3.68E-08	0.428095	-2.33593
Phf21a	NM_001109691	1.56E-05	0.427696	-2.33811
Nr5a2	NM_030676	5.18E-08	0.427414	-2.33965
Senp3	NM_001163571	3.41E-07	0.427104	-2.34135
Stambpl1	NM_029682	6.17E-07	0.426884	-2.34256
Myb	NM_010848	3.08E-07	0.425698	-2.34908
Asf1a	NM_025541	0.000138416	0.425124	-2.35225
Ppm1j	NM_027982	1.28E-08	0.424271	-2.35698
Sall4	NM_175303	2.92E-10	0.424065	-2.35813
Usp46	NM_177561	2.46E-05	0.423154	-2.3632
Il6st	NM_010560	2.67E-07	0.422687	-2.36582
Gfod1	NM_001033399	2.62E-07	0.422147	-2.36884
Gadd45b	NM_008655	3.86E-06	0.419249	-2.38522

Adamts9	NM_175314	1.36E-08	0.414915	-2.41013
6330407J23Rik	NM_026138	1.25E-07	0.414116	-2.41478
Zfp518b	NM_001081144	1.18E-05	0.412366	-2.42503
Gbx2	NM_010262	4.63E-08	0.409753	-2.4405
Slc35f2	NM_028060	4.12E-07	0.408417	-2.44848
Pcyt1b	NM_211138	7.68E-09	0.408118	-2.45027
Mir539	NR_030262	2.16E-05	0.40774	-2.45254
2410137M14Rik	NM_029747	4.39E-10	0.407503	-2.45397
Emb	NM_010330	3.41E-08	0.40706	-2.45664
Prr13	NM_025385	8.08E-06	0.402364	-2.48531
Sulf1	NM_172294	7.19E-08	0.402092	-2.48699
Fam169a	NM_001100458	9.49E-07	0.401729	-2.48924
Porcn	NM_016913	1.55E-08	0.401568	-2.49024
Nfatc4	NM_023699	1.51E-07	0.400426	-2.49734
Gabbr1	NM_019439	5.54E-08	0.399396	-2.50378
Pim1	NM_008842	1.66E-05	0.396931	-2.51933
Slc27a2	NM_011978	5.69E-08	0.396512	-2.52199
Cyp2s1	NM_028775	6.87E-06	0.395724	-2.52701
Slc6a1	NM_178703	1.81E-07	0.395592	-2.52786
Socs2	NM_007706	2.73E-10	0.392887	-2.54526
Dusp27	NM_001033344	1.65E-08	0.392763	-2.54607
Tuba4a	NM_009447	2.82E-07	0.392236	-2.54949
Gm129	BC132471	1.21E-06	0.391623	-2.55348
Klf8	NM_173780	2.60E-09	0.391317	-2.55547
Ino80	NM_026574	1.90E-08	0.39126	-2.55585
Rragd	NM_027491	1.58E-07	0.382557	-2.61399
Zfp819	NM_028913	2.91E-05	0.380787	-2.62614
Rasgrp2	NM_011242	5.88E-06	0.380717	-2.62662
Tgfbi	NM_009369	7.24E-09	0.378438	-2.64244
Ccnd1	NM_007631	5.61E-12	0.378336	-2.64315
Atp1b1	NM_009721	2.66E-07	0.378079	-2.64495
Eras	NM_181548	3.79E-05	0.375947	-2.65995
Atp6v0a4	NM_080467	4.84E-07	0.375645	-2.66208
Aldh18a1	NM_019698	2.34E-09	0.374355	-2.67126
Satb1	NM_009122	1.03E-07	0.37253	-2.68435
Snx9	NM_025664	1.37E-08	0.371334	-2.69299
Nefl	NM_010910	7.85E-07	0.370656	-2.69792
Snrpn	NM_013670	3.38E-09	0.369505	-2.70632
Hspb6	NM_001012401	2.47E-09	0.368215	-2.7158
Myadm	NM_001093765	3.71E-07	0.365611	-2.73515
8430410A17Rik	BC024401	7.98E-07	0.365254	-2.73782
Igf2bp2	NM_183029	4.15E-08	0.360712	-2.7723
Sgk3	NM_133220	8.47E-09	0.358988	-2.78561

Mir382	NR_029883	2.51E-06	0.357573	-2.79663
Zc3hav1	NM_028421	4.74E-08	0.356842	-2.80236
Rragb	NM_001004154	3.76E-06	0.355026	-2.81669
Hist1h2bb	NM_175664	1.21E-09	0.353447	-2.82928
Mical1	NM_138315	4.67E-10	0.352882	-2.83381
Kdm3a	NM_001038695	1.23E-08	0.341744	-2.92616
Trh	NM_009426	9.98E-09	0.338959	-2.95021
Prss35	NM_178738	1.48E-08	0.336363	-2.97298
Sall1	NM_021390	4.05E-11	0.333665	-2.99702
Parp14	NM_001039530	4.68E-08	0.333019	-3.00283
Ndrp1	NM_008681	9.40E-09	0.330768	-3.02327
Gm98	NM_001033481	2.66E-11	0.330206	-3.02841
Bcl3	NM_033601	3.45E-07	0.329541	-3.03453
Cdc42ep5	NM_021454	5.26E-05	0.328106	-3.04779
Gfpt2	NM_013529	7.90E-07	0.326689	-3.06102
Eomes	NM_010136	8.95E-08	0.324591	-3.0808
Tcl1	NM_009337	2.04E-07	0.320467	-3.12045
F2rl1	NM_007974	2.19E-09	0.315492	-3.16965
Notch4	NM_010929	1.41E-10	0.313886	-3.18587
Etv1	NM_007960	6.25E-07	0.312501	-3.19999
Lef1	NM_010703	1.23E-10	0.307531	-3.2517
Tet2	NM_001040400	2.19E-07	0.3067	-3.26051
Mycn	NM_008709	1.37E-08	0.302623	-3.30444
Hpd1	NM_146256	3.63E-07	0.296784	-3.36945
Grb7	NM_010346	7.45E-08	0.296045	-3.37787
Enpp3	NM_134005	2.10E-08	0.295921	-3.37928
Otx2	NM_144841	3.26E-07	0.292793	-3.41539
Itga5	NM_010577	2.43E-08	0.282619	-3.53833
Spp1	NM_009263	3.34E-09	0.282029	-3.54573
Spry2	NM_011897	4.34E-11	0.281634	-3.55071
Cdk6	NM_009873	4.14E-10	0.26002	-3.84585
Fgf15	NM_008003	3.34E-08	0.257262	-3.88709
Esrp1	NM_194055	1.38E-07	0.256521	-3.89831
Slc15a1	NM_053079	6.58E-11	0.247631	-4.03827
Slc6a15	NM_175328	9.85E-09	0.246875	-4.05064
Ddx58	NM_172689	1.90E-12	0.246396	-4.05851
Sfrp1	NM_013834	1.23E-09	0.244876	-4.0837
Zfp428	NM_146183	4.07E-08	0.24405	-4.09753
Bmp4	NM_007554	1.55E-08	0.243492	-4.10691
Spry4	NM_011898	4.55E-08	0.243002	-4.11518
Slc7a3	NM_007515	3.78E-10	0.237093	-4.21775
Emp1	NM_010128	1.56E-10	0.235333	-4.24929
Nt5e	NM_011851	3.28E-10	0.234861	-4.25784

Zic2	NM_009574	1.39E-09	0.219815	-4.54928
Fgf17	NM_008004	3.49E-11	0.201798	-4.95544
Nr0b1	NM_007430	3.63E-09	0.174366	-5.73507
Gm10664	ENSMUST00000098718	9.64E-08	0.166797	-5.99532
Prdm14	NM_001081209	1.04E-11	0.145011	-6.89605

Supplementary Table 4**Common_MEF_mES**

Sox17
Tcfap2d
Tcfap2b
Rev1
Pou3f3
Ercc5
Satb2
2810022L02Rik
Pax3
Armc9
Ptma
Gbx2
Dyrk3
Nucks1
Btg2
Phlda3
Lhx9
chr1:157505465-157505522
chr1:157505850-157505909
Vamp4
Slc19a2
Lmx1a
Ephx1
Hlx1
Tgfb2
Prox1
Gata3
Plxdc2
Bmi1
BC061194
Gad2
Pax8
Tubb2c
Ntng2
Ier5l
5830434P21Rik
C230093N12Rik
Ak1
Eng
Lmx1b
Lhx6
Pdcl
Lhx2
Tbr1
Gad1
Dlx1
Evx2
Evx2-Hoxd13
Hoxd13
Hoxd11
Hoxd10
Hoxd9
Hoxd3
Neurod1
chr2:094041897-094041956
Wt1
Pax6

MEF_specific

Serpine2
5033414K04Rik
Arl4c
Tmem163
Myog
Ptgs2
Ier5
chr1:157502737-157502796
chr1:157502943-157502998
chr1:157505961-157506012
chr1:157506478-157506537
chr1:157506658-157506717
F11r
Fbxo28
Nsl1
Vim
Stam
Barhl1
Ggta1
Lrp1b
Rbm43
Rprm
Cobll1
B230120H23Rik
Sp9
Wipf1
chr2:073576927-073576986
chr2:073577039-073577097
chr2:073577168-073577227
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chr2:073577538-073577597
Slc39a13
Depdc7
Kcna4
Thbs1
Ovol2
Rin2
Id1
Blcap
Slc32a1
Sall4
Pfdn4
Stx16
chr3:017982804-017982848
chr3:017983153-017983207
chr3:017983337-017983396
chr3:017983528-017983584
chr3:017986284-017986343
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Sox2
Spry1
Shox2
1110032E23Rik
Mcl1
Csf1
Ddit4l
Wdr32

mES_specific

Mybl1
Tmem70
Tmem14a
Ptp4a1
chr1:034622340-034622399
Cnga3
6330578E17Rik
Npas2
Rpl31
Tbc1d8
Slc9a2
Ppil3
Nrp2
Igfbp5
Tmbim1
Plcd4
Cdk5r2
Fev
Cryba2
Ihh
Nhej1
Sgpp2
B3gnt7
chr1:088258400-088258450
chr1:088258598-088258642
Ecel1
Efh1
Ugt1a6b
Rab17
Twist2
Olfr1410
Bcl2
C1ql2
En1
Cxcr4
Ptprv
Arl8a
Pkp1
Rgl1
chr1:157502233-157502280
chr1:157502439-157502494
chr1:157503134-157503184
chr1:157503249-157503299
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chr1:157504725-157504769
chr1:157505169-157505213
chr1:157505315-157505359
chr1:157505624-157505682
Qsox1
9430070O13Rik
chr1:161878077-161878134
chr1:161878192-161878236
Fmo3

Mrg1	Tbc1d2	Prrx1
Gabpb1	Elavl2	Selp
Ncaph	Ssbp3	Rgs5
Insm1	Podn	Pvrl4
Nkx2-4	Zswim5	Pld5
Nkx2-2	Ddefl1	D230039L06Rik
Pax1	Tcea3	Itpkb
Foxa2	Spsb1	Atf3
Abhd12	Ski	Il15ra
5430432M24Rik	Ptpn12	2810030E01Rik
Dusp15	Reln	2810030E01Rik-MlIt10
Dusp15-Ttll9	Fosl2	Commd3
Scand1	Rpl9	Ptf1a
Dhx35	Rpl9-Lias	chr2:020885562-020885621
Mafb	Apbb2	Nrarp
Jph2	Gabra2	Gm996
Sulf2	Sgcb	Lcn5
Cyp24a1	Gsh2	Notch1
Tcfap2c	Ereg	1110002H13Rik
BC066135	Rchy1	Olfm1
Gata5	Oas1f	1700007K13Rik-Mrps2
chr2:180822962-180823017	chr5:125679842-125679892	Ttf1
chr2:180823092-180823136	Serpine1	Ass1
chr3:017982601-017982649	Actb	Fibcd1
chr3:017987277-017987336	Nptx2	9130404D14Rik
Bhlhb5	6332401O19Rik	Rabgap1
Zmat3	chr6:030122380-030122439	Psemb7
Pcdh10	chr6:030122567-030122620	Zeb2
Mab21l1	Exoc4	Kcnj3
Rap2b	Igf2bp3	Nr4a2
Slc33a1	Frmd4b	Figf
Shox2-Rsrc1	A930037G23Rik	Stk39
Fbxw7	Ntf3	Dlx2
Mab21l2	Cox6b2	Hoxd12
chr3:088300938-088300982	Ppp1r13l	Hoxd4
chr3:088301128-088301172	Hnrpul1	Prdx6-rs1
chr3:088301348-088301392	Slc6a5	Frzb
chr3:088301586-088301633	Bnc1	Olf1259
Zbtb7b	Galntl4	Dgkz
Slc27a3	Hmx2	Alx4
Tbx15	Ctsd	chr2:094041748-094041807
Nhlh2	Sox1	chr2:094042213-094042262
6530418L21Rik	1810029B16Rik	chr2:094042344-094042388
Alx3	Junb	chr2:094042503-094042547
Psrc1	Sall1	chr2:094044723-094044777
Dpyd	Cbfb	Prrg4
Neurog2	Klhdc4	Olf1301
Pitx2	Barx2	Grem1
Lef1	chr9:041332894-041332953	Bahd1
Cxxc4	chr9:041333014-041333064	Rad51
Cyr61	chr9:041333392-041333445	Dll4
Lhx8	chr9:041334361-041334420	Mapkbp1
Nsmaf	chr9:041334630-041334689	Cep27
Gdf6	chr9:041334796-041334855	Ckmt1
Trp53inp1	chr9:041335020-041335078	Sord
Rbm35a	Chrna5	Duox2
Pou3f2	Pml	Fbn1
Pax5	Uchl4	2010106G01Rik
Foxe1	chr9:074635534-074635578	Dusp2

Trim32	chr9:074636619-074636678	Astl
Foxd3	chr9:074637233-074637280	Adra2b
Cdkn2c	Hcrtr2	Chchd5
Dmrta2	Amotl2	Sirpa
Foxd2	Dock3	4933425O20Rik
Foxe3	Pdcd6ip	A930025D01Rik
Tal1	Crtap	Avp
Dmbx1	Ccr9	Gfra4
4931406I20Rik	Xtrp3s1	Bmp2
Pou3f1	Perp	2900006F19Rik
Tcfap2e	Ctgf	Dstn
Adc	Popdc3	Thbd
Sesn2	Lin28b	Angpt4
Grhl3	Gja1	Rbck1
Id3	Gm237	Pdrg1
Capzb	Ank3	Epb4.1l1
Pax7	Pcnt-2610028H24Rik	Rbpjl
Klhdc7a	Ndufs7	Sdc4
Lzic	8030451F13Rik	Pltp
Dffb	Tmtc3	Cdh22
Trp73-Wdr8	Lgr5	Prkcbp1
Prdm16	Egfr	Nfatc2
En2	Irgm	Pck1
Hlxb9	Wnt9a	Gnas
Slc30a3	0610010K14Rik	Hrh3-Osbpl2
Hmx1	Ccl2	Dido1
Cpz	Aatf	Bhlhb4
Msx1	chr11:086398298-086398357	chr2:180823231-180823275
Bapx1	chr11:086398880-086398938	chr2:180823343-180823387
Dhx15	chr11:086399346-086399401	chr2:180823504-180823548
Pcdh7	chr11:086399501-086399560	Sox18
BC013481	chr11:086399687-086399746	chr3:017985666-017985725
Phox2b	chr11:086399920-086399979	chr3:017985778-017985827
D830007B15Rik	chr11:086400416-086400468	chr3:017985923-017985967
Rest	chr11:086401197-086401250	chr3:017987448-017987507
Prdm8	chr11:086401318-086401377	chr3:017987621-017987671
Fgf5	chr11:086401436-086401480	chr3:017987762-017987821
Nkx6-1	chr11:086401551-086401610	chr3:017988001-017988060
Barhl2	chr11:086401693-086401751	Pde7a
Gfi1	chr11:086401983-086402037	Pcdh18
Pcgf3	chr11:086402171-086402228	Ndufc1-Narg1
Ulk1	chr11:086402458-086402517	Serpini2
Svop	chr11:086402811-086402870	6330505N24Rik
4930519G04Rik	chr11:086403000-086403047	Bcan
Tbx5	chr11:086403185-086403244	chr3:088300563-088300607
Lhx5	Igf2bp1	chr3:088300775-088300826
Fzd10	Hoxb13	chr3:088301712-088301756
Rabgef1	Socs3	chr3:088301874-088301918
Tmem142b	Actg1	chr3:088302005-088302053
Mcm7	Coch	chr3:088302124-088302183
Uncx4.1	Gpr135	Smcp
Zfp469	Actn1	Them5
Gsh1	6430527G18Rik	Hormad1
Pdx1	Crip2	Hist2h4
Cdx2	Hist1h1b	Casq2
Ubl3	Prss16	Kcna3
Dlx5	Hist1h4d	Kcnc4
Npy	Ninj1	Ntng1
Hoxa2	Edg3	Gpr88

Hoxa9	Gadd45g	Dkk2
Hoxa10	chr13:084211055-084211113	Unc5c
Hoxa11	chr13:084211224-084211283	Clca5
Hoxa13	chr13:084211640-084211699	Negr1
Evx1	chr13:084211752-084211811	Ptger3
Dok1	chr13:084211939-084211984	Tox
Tlx2	chr13:084212036-084212095	Epha7
Tlx2-Pcgf1	chr13:084212193-084212252	Cnr1
Emx1	chr13:084212307-084212366	Olfr155
Gata2	chr13:084212497-084212556	Rnf38
Tmem43	chr13:084212629-084212688	Tgfr1
Alox5	chr13:084212752-084212811	Rad23b
Zfp248	chr13:084213712-084213765	Slc31a2
Kcna1	chr13:084213846-084213905	Whrn
Aebp2	chr13:084214021-084214073	Tnc
Bbc3	Scamp1	Pappa
BC057627	Polk-Col4a3bp	Astn2
Prkd2	Snag1	Mllt3
Rps19	Plau	Nfia
Axl	Gja3	Cachd1
Cebpa	chr14:063540318-063540377	Pars2
Zfp536	chr14:063540522-063540581	Cdkn2c-Faf1
Cpt1c	chr14:063540635-063540686	4833401D15Rik
Bax	chr14:063541880-063541927	Cdc20
Dbx1	chr14:063542134-063542188	4930538K18Rik
Det1	chr14:063542568-063542617	Mfsd2
4632434I11Rik	chr14:063542741-063542785	Hmgb4
4632434I11Rik-Prpc	chr14:063542846-063542901	Sync
Tsku	chr14:063543201-063543248	2410081M15Rik
Olfr543	chr14:063543425-063543481	Marcks1
Gtf3c1	chr14:063543579-063543636	chr4:129322971-129323015
Hmx3	chr14:063544045-063544089	Matn1
Mgmt	chr14:063544167-063544211	Ptpru
Ebf3	Slitrk1	Zfp593
Txn12	Mrpl13-Mtbp	Tmem57-Rhd
Nkx6-2	Plec1	Fuca1
Adam8	Myh9	1700013G24Rik
Msx3	Zfp385	Nbl1
Bet1l	C530044N13Rik	Aldh4a1
Lrdd	Hes1	Igsf21
Igf2	BC022623	Slc45a1
R74862	Phldb2	Tas1r1
Fgf15	Ripk4	Trp73
Efnb2	Dusp1	Tnfrsf18
EG434280	Slc39a7	Ttll10
Ckap2-Vps36	Ddr1	5830415L20Rik
Stox2	Ier3	Fzd1
Aga	Lbh	Abcb1b
Hand2	Pigf	Gnai1
Klhl26	Egr1	Nupl2
Pou4f2	Pura	Atg9b
Fbxw9	Gnal	Atg9b-Abcb8
Man2b1	Tubb6	Gbx1
Cbln1	Smad7	Shh
Irx3	Pard6g	Mapre3
Irx5	AI837181	Trim54
Mmp2	Rnaseh2c	Spon2
Gse1	Slc3a2	Fgfr3
Foxf1a	Gldc	Rnf4

Mthfsd-Foxc2
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Foxl1
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Ccr4
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Acaa1b
Kif15
Olig3
Tcf21
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Foxo3a
Nr2e1
Sim1
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Ddit4
Ctnna3
Zfp365
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Cdc34
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Ntn4
Cart1
Kcnc2
Mdm2

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5-Mar
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Rai2
Sry

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Pdgfra
Lphn3
Epha5
Gc
Cxcl1
Art3
Ccn1
Antxr2
Prkg2
Lin54
Hpse
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Mepe
Tgfbr3
Sez6l
BC057022
Cc dc60
Hrk
Brap
Tect1
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Atpbd1c
P2rx7
Diablo
Vps33a
Ran
Sfrs8
Wbscr17
Rhbdd2
Vgf
Pdgfa
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Cpa1
Tsga13
Podxl
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chr6:052107009-052107053

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Lif
Vstm2
Otx1
Tlx3
Nudcd2
Ccng1
Canx
Hand1
Trim11
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Vamp2
Traf4
Nek8
Tcf2
Lhx1
Tbx2
Tbx4
Dlx4
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Ikzf3
Rara
Etv4
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Prkar1a
Unk
Birc5
Cbx4
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Lpin1
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Hpcal1
Rrm2
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Pax9
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Pdzn3
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Ccnd2
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Zfp566-Zfp260
Etv2
Gapdhs
Wtip
Chst8
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Il4i1
Prmt1
Grwd1
Abcc6-Nomo1
Nell1
Gabra5
Atp10a
Dmn
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Nr2f2
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St8sia2
Ntrk3
Isg20l1
Furin

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Foxf2
Foxc1
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Barx1
Shc3
Msx2
Pitx1
Neurog1
Irx1
Irx2
Slc12a7
Nr2f1
Otp
Polk
Enc1
Foxd1
Ocln
Plk2
Fst
Isl1
Fezf2
Thrb
Zfp503
Zmiz1
Mmrn2
Otx2
Efs-Il25
Cideb-Ltb4r2
Cma1
Fgf9
Gata4
Ebf2
Nkx2-6
Tnfrsf10b
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Dach1
Pou4f1
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Zic5-Zic2
Zic2
Osr2
Grhl2
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Pmm1
Gtse1
Cacnb3
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Sp1

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Prkcb1
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Vkorc1
Itgax
Rgs10
Tacc2
Htra1
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E430002D04Rik
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Ifitm3
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Cdkn1c
Phlda2
Fgf3
Col4a1
Col4a1-Col4a2
Col4a2
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Csmd1
Ckap2
Sfrp1
Gpr124
Adrb3
Eif4ebp1
Unc5d
Helt
Irf2
Tll1
Atp13a1
Tmem59l-Crlf1
Crif1
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Pgls
Unc13a-Jak3
Gab1

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Adprh-Cd80
Cd80
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Scube3
Def6
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Pmaip1
Sall3
Zadh2
Cbln2
Rhod
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Dmrt3
Dmrt2
Fas

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Icam5
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Atg4d
Cdkn2d
Ap1m2

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Lbx1
Vax1
Emx2
Sox3
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Esx1
Ddx3y

Ilf3
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Carm1
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Prkcsh
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Herpud2
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Islr2
Arih1
Smad6
Zwilch

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Apaf1
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Trhde
Rab21
Avpr1a
Al851790
Nxph4

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Pa2g4
Dgka
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Msra
Nefl
Nefm
Egr3
Gfra2
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Pcdh17
Kctd12
Trim52
Slitrk5
Gpc6
Dzip1

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Ankrd47
Brd2
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H2-Eb1
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Satb1
Sema6b
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Clpp
EfnA5
Arhgap28
Cyp1b1
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Kcnk12
Map3k8
Mkx
Fzd8
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Pcdhga11
Pcdhgb8
Pcdh1
Sema6a
Lox
Zfp608
Fbn2
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Txnl1
Atp8b1
Ccbe1
Lipg
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Clcf1
Brms1
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Vldlr
Prkg1
Pdlim1
Sorbs1
Dntt
Ubtd1
Avpi1
Sfrp5
Pkd2l1
Wnt8b
Lzts2
Pdzd7
Fgf8
Kcnip2
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Adrb1
Gfra1
Nanos1
Usp27x
Bcor
Usp9x
Chst7
Lonrf3
Zbtb33
6430550H21Rik
Gria3

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Cited1
Fgf16
Pou3f4
Irs4
Asb11
Mospd2
Mospd2-Fancb
Fancb
Glra2
Gemin8
Gpm6b
Ofd1
Ofd1-Trappc2
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Egfl6
Tmsb4x
Tlr8
Prps2
Msl31
Amelx
Hccs
Mid1
Zfy1
Ube1y1
Jarid1d
Uty
Sry
Rbmy1a1

Supplementary Table 5

Primer Name	Primer Sequence (From 5' to 3')
Fwd_Rap2b(m)_RT01	CTGCCCCCTTCATGGAGACA
Rev_Rap2b(m)_RT01	TGCGAATAGCTCATCCACTGA
Fwd_Rap2b(h)_RT01	GACGTCGGCCAAAAACAAA
Rev_Rap2b(h)_RT01	CGCACGATCTCGGCAAAT
Fwd_p21(h)_RT01	AGCGATGGAACCTCGACTTTG
Rev_p21(h)_RT01	CGAAGTCACCCTCCAGTGGT
Fwd_p21(m)_RT01	GGACCACGTGGCCTTGTC
Rev_p21(m)_RT01	GAATCTTCAGGCCGCTCAGA
Fwd_18srRNA(m)_RT01	TTCGTATTGCGCCGCTAGA
Rev_18srRNA(m)_RT01	CTTTCGCTCTGGTCCGTCTT
Fwd_28s(h)_RT01	GCCGAAGCCAGAGGAAACT
Rev_28s(h)_RT01	GACGACCGATTTGCACGT
Fwd_28s(m)_RT01	GTGACGCGCATGAATGGA
Rev_28s(m)_RT01	TGTGGTTTCGCTGGATAGTAGGT
Upper_Rap2b(h)_shRNA01	CCGGCGGGCTCCTTCATCGAGAAGTCTCGAGACTTCTCG ATGAAGGAGCCCCGTTTTTGGATCCG
Bottom_Rap2b(h)_shRNA01	AATTCGGATCCAAAAACGGGCTCCTTCATCGAGAAGTCT CGAGACTTCTCGATGAAGGAGCCCCG
Upper_Rap2b(h)_shRNA03	CCGGAGACGAGCTATTTGCCGAGATCTCGAGATCTCGGC AAATAGCTCGTCTTTTTTGGATCCG
Bottom_Rap2b(h)_shRNA03	AATTCGGATCCAAAAAAGACGAGCTATTTGCCGAGATCT CGAGATCTCGGCAAATAGCTCGTCT
Fwd_Rap2b(m)_53RE_ChIP02	GCCGCAGCCAAGAATCTG
Rev_Rap2b(m)_53RE_ChIP02	CAGCGGTACTTAGGGCTCCAT
Fwd_Rap2b(m)_53RE_ChIP03	CCGCTGTGACTTGGAAACCA
Rev_Rap2b(m)_53RE_ChIP03	AAACGTCCTCACGGAAGGAA
Fwd_Rap2b(m)_53RE_ChIP04	GGATCTAGAGAGACTCGGGACAAG
Rev_Rap2b(m)_53RE_ChIP04	GGCTCCGCTCAGTTGCA
Fwd_Rap2b(m)_53RE_ChIP05	AGCGGAGCCAAGTCTTGAGA
Rev_Rap2b(m)_53RE_ChIP05	GCTTGCTCTTCCCAAAGCT
Fwd_Rap2b(m)_53RE_ChIP06	AGCACTCCACCTAAATTCCTTCTTT
Rev_Rap2b(m)_53RE_ChIP06	CCCGGGCCTGTGCAT
Fwd_Rap2b(m)_53RE_ChIP07	TGAGCGGAGGCGACTTTG
Rev_Rap2b(m)_53RE_ChIP07	TTGCTGAGGTTTTGTCGCTTT